



**2023-2025  
CATALOG**



**SEATTLE COLLEGES**  
*North • Central • South*

### Seattle College District

Siegal Administrative Center  
1500 Harvard Avenue  
Seattle, Washington 98122  
206.934.4100

[seattlecolleges.edu](http://seattlecolleges.edu)

### Seattle Central College

1701 Broadway  
Seattle, Washington 98122  
206.934.3800

[seattlecentral.edu](http://seattlecentral.edu)

### North Seattle College

9600 College Way N  
Seattle, Washington 98103  
206.934.3600

[northseattle.edu](http://northseattle.edu)

### South Seattle College

6000 16th Avenue SW  
Seattle, Washington 98106  
206.934.5300

[southseattle.edu](http://southseattle.edu)

### Specialized Training Centers

Georgetown Campus  
Health Education Center  
NewHolly Learning Center  
Seattle Maritime Academy  
Wood Technology Center

### eLearning /Distance Education

Worldwide Virtual Campus  
[seattlecolleges.edu/programs/elearning](http://seattlecolleges.edu/programs/elearning)

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Published Fall 2023

# What can I study?

With three colleges and more than 130 programs, you can study almost anything. Find the programs that interest you and visit [seattlecolleges.edu/programs](http://seattlecolleges.edu/programs) to learn more.



## Arts, Design, and Graphics

2D Fine Arts – N, C, S  
 3D Fine Arts – N, S  
 Apparel Design and Development – C  
 Art History – N, C  
 Digital Art and Photography – N, S  
 Drama – C  
 Graphic Design – C  
 Jewelry Design – N  
 Music – N, C, S  
 Music History – S  
 Technical Theater for Justice – C  
 Visual Media – C



## Business and Accounting

Accounting – N, S  
 Business – N, C, S  
 Business Technology Management – C  
 Economics – N, S  
 International Business – N  
 Real Estate – N  
 Residential and Commercial Property Management – N



## Culinary, Hospitality, and Wine

Culinary Arts – C, S  
 Hospitality Management – S  
 Specialty Desserts and Breads – C  
 Wine Studies – S



## Education and Human Services

Applied Behavioral Science – C  
 Care Navigation and Coordination – C  
 Chemical Dependency – C  
 Early Childhood Education – N  
 Education – S  
 Elementary Education (K-8) – N  
 Social and Human Services – C  
 Social Work – C



## Health and Medical

Allied Health – N, C  
 Care Navigation and Coordination – C  
 Community Health and Education – C  
 Dental – C  
 Emergency Medical Technician – N  
 Global Health – C  
 Health Care Service Management – C  
 Medical Assisting – C  
 Nursing – N, C, S  
 Nutrition Science – C, S  
 Pharmacy Technician – N  
 Phlebotomy – N  
 Prenursing – N, S  
 Public Health/Global Health – C, S  
 Respiratory Care – C  
 Sterile Processing – C  
 Surgical Technology – C



## Science, Technology, Engineering, and Math

Biology – N, C, S  
 Chemistry – N, C, S  
 Computer Science – N, C, S  
 Earth Sciences – C  
 Engineering (Computer, Civil, Aerospace, etc.) – N, C, S  
 Environmental Health – C  
 Environmental Science – N, C, S  
 Environmental Studies – C, S  
 Geology – C  
 Information Technology – N  
 Kinesiology, Sports and Exercise Science – S  
 Math – N, C, S  
 Physics – C, N  
 Physics and Astronomy – S  
 Sustainable Building Science Technology – S  
 Software Development – C



## Skilled Trades and Technical Training

Aeronautical Technology – S  
 Automotive Technology – S  
 Building Trades Apprenticeships – N  
 CNC Machining – S  
 Construction – C  
 Diesel and Heavy Equipment Technology – S  
 Electronics Technology – N  
 Engineering Graphics and Design – N  
 Fire Science – N  
 Landscape Horticulture – S  
 Manufacturing Academy – S  
 Maritime – C  
 Maritime Shipyard Welding – S  
 Multi-Occupation in Engineering and Technology (MOET) – S  
 Multi-Occupational Trades (MOT) – S  
 Pre-Apprenticeship Construction Training (PACT) – C  
 Watch Technology Institute – N  
 Welding Fabrication Technology – S



## Social Sciences, Humanities, and Language

Anthropology – N, C  
 Civic Engagement – N  
 Communication Studies – N, C, S  
 English, Literature, and Writing Studies – N, C, S  
 Equity and Social Justice – N, C  
 Ethnic Studies – N, C  
 Gender, Women, and Sexuality Studies – N, C  
 Global Studies – C  
 History – N, C, S  
 Humanities and Cultural Studies – N, C, S  
 Philosophy – N, C  
 Political Science – N, C, S  
 Psychology – N, C, S  
 Sociology – N, C  
 Social Sciences – C  
 World Languages – N, C

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# About Seattle Colleges

## Mission

As an open-access learning institution, Seattle Colleges prepares each student for success in life and work, fostering a diverse, engaged, and dynamic community.

## Vision

Seattle Colleges is recognized as an exemplary learning institution that transforms lives, promotes equity, and enriches the community.

## Values

- **Accessibility** for all learners and partners
- **Collaboration** through open communication and commitment to working together
- **Diversity, inclusion, and equity** for all individuals, particularly the underserved in our community
- **Fiscal sustainability** for long-term viability and excellence in service and operations
- **Growth and development** of faculty and staff through professional development
- **Innovation** in instruction, student services, operations, and organizational culture
- **Integrity** by adhering to the highest standards of ethics and public stewardship

## Accreditation

Seattle Colleges includes North Seattle College, South Seattle College, and Seattle Central College. Each college is a state-supported public institution individually accredited by the Northwest Commission on Colleges and Universities (NWCCU), an institutional accrediting body recognized by the Council for Higher Education Accreditation and the U.S. Department of Education.

Accreditation of an institution of higher education by the NWCCU indicates that it meets or exceeds criteria for the assessment of institutional quality evaluated through a peer review process. An accredited college or university is one that has available the necessary resources to achieve its stated purposes through appropriate education programs, is substantially doing so, and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is also addressed through accreditation.

Accreditation by the NWCCU is not partial but applies to the institution as a whole. As such, it is not a guarantee of every course or program offered or of the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institution.

Inquiries regarding an institution's accredited status by NWCCU should be directed to the administrative staff of the individual institution. Individuals may also contact: NWCCU, 8060 165th Ave NE, Suite 100, Redmond, WA 98052, (425) 558-4224, nwccu.org.

## 2021–2022\* Annual Profiles

**Annual Attendance** **28,971**

### SPECIAL ENROLLMENTS 2021–2022

*(Unduplicated headcount across the district)*

Distance Education/eLearning	22,596
Running Start	1,558
International Students	1,034
Worker Retraining	839

### DEGREES & CERTIFICATES 2021–2022

Annual Awarded **3,383**

### EMPLOYEES 2021–2022

Total	2,017
Teaching Faculty	1,080
full-time/part-time	317/763
Non-teaching Faculty	23
Classified	497
Exempt	417

### Students

Average Age	31
Ethnic Diversity	45%
Male/Female	41%/46%
With Bachelor or Higher Degrees	9%
Full-time/Part-time Attendance	37%/63%

### Programs

College Transfer	33%
Career and Technical	32%
Basic Education	11%
Other	24%

### Course Funding Sources

State-funded	79%
Contract-supported	14%
Student-supported	9%

*NOTE: Duplicated enrollment across the district may result in totals different from 100%.*

*\* Source: Seattle College District database*

## Land and Labor Acknowledgement

Today we recognize and honor the original occupants and stewards of the land where we now gather—lands that are the traditional home of the Coast Salish people, the traditional home of all tribes and bands within the Duwamish, Suquamish, Tulalip, and Muckleshoot nations.

Today, we honor the survival, the adaptations, the forced assimilation, and the resilience and creativity of Native peoples—past, present, and future. We encourage you to consider their responsibilities to the people and land, both here and elsewhere, and to stand in solidarity with Native, Indigenous, and First Nations People, and their sovereignty, cultural heritage, and lives.

We also pause to recognize and acknowledge the labor upon which our country, state, and institutions are built.

We remember that our country is built on the labor of enslaved people who were kidnapped and brought to the U.S. from the African continent and recognize the continued contribution of their survivors. We also acknowledge all immigrant labor, including voluntary, involuntary, trafficked, forced, and undocumented peoples who contributed to the building of the country and continue to serve within our labor force. We acknowledge all unpaid care-giving labor.

To the people who contributed this immeasurable work and their descendants, we acknowledge our/their indelible mark on the space in which we gather today. It is our collective responsibility to critically interrogate these histories, to repair harm, and to honor, protect, and sustain this land.

[seattlecolleges.edu/edic](https://seattlecolleges.edu/edic)



## Campuses and Centers

[seattlecolleges.edu/welcome/our-locations](https://seattlecolleges.edu/welcome/our-locations)

Seattle Colleges is comprised of three colleges, five specialty training centers, and a district office. Our campuses are reflections of the city we call home—diverse, modern, and engaged with our community.

### Seattle Colleges District Office at Siegal Center

1500 Harvard Avenue  
Seattle, WA 98122  
[seattlecolleges.edu](https://seattlecolleges.edu)

The district office is located one block south of Seattle Central's Broadway Edison Building in Seattle's Capitol Hill neighborhood at Siegal Center.

The district office represents Seattle Colleges on the State Board for Community and Technical Colleges (SBCTC) for purposes of enrollment and budget allocations. With offices in Siegal Center, the chancellor's senior administrative leadership team leads and coordinates districtwide functions, activities, and services. Administrative units—including Academic and Student Success; Advancement/Foundation; Business and Finance; the Chancellor's Office; District Communications; Equity, Diversity, Inclusion, and Community (EDIC); Government Relations; Human Resources; Information Technology; and Workforce Education—have offices here that serve the entire district.

### Seattle Central College

1701 Broadway  
Seattle, WA 98122  
[seattlecentral.edu](https://seattlecentral.edu)

Seattle Central is located on Capitol Hill, a vibrant urban neighborhood that reflects the diversity and activity of the city. Adjacent to a wide variety of food, art, music, and culture, the campus is minutes from downtown Seattle and accessible from every part of the city via public transportation including bus, trolley, and light rail.



### Health Education Center at Pacific Tower

1200 12th Avenue S  
Seattle, WA 98144

[healthcare.seattlecentral.edu/health-education-center](https://healthcare.seattlecentral.edu/health-education-center)

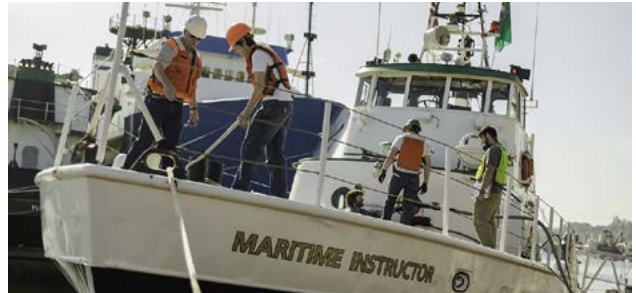
Seattle Central's intensive, hands-on healthcare programs have a world-class training facility in the Health Education Center located in the historic Pacific Tower on Beacon Hill.



### Seattle Maritime Academy

4455 Shilshole Avenue NW  
Seattle, WA 98107  
[maritime.seattlecentral.edu](https://maritime.seattlecentral.edu)

Affiliated with Seattle Central, Seattle Maritime Academy is located on the waterfront at a leading-edge facility in Seattle's Ballard neighborhood.



### Wood Technology Center

2310 S Lane Street  
Seattle, WA 98144  
[woodtech.seattlecentral.edu](https://woodtech.seattlecentral.edu)

Seattle Central's Wood Technology Center is a state-of-the-art woodworking facility located in Seattle's Central District.



For more information about Seattle Central College and its specialty training centers, see page 113.

## North Seattle College

9600 College Way North  
Seattle, WA 98103  
[northseattle.edu](http://northseattle.edu)

North Seattle College is located just off Interstate 5 in Seattle's Northgate/Licton Springs residential neighborhood. It's a short walk from the Northgate light rail station using the John Lewis Memorial Bridge. Campus features include modern architecture, numerous murals, and environmentally sensitive wetlands that have inspired a college-wide commitment to sustainability.

For more information about North Seattle College, see page 63.



## South Seattle College

6000 16th Avenue SW  
Seattle, WA 98106  
[southseattle.edu](http://southseattle.edu)

Located on an 87-acre hilltop campus in West Seattle, South Seattle College offers panoramic views of the city skyline and surrounding mountains. South's expansive campus features a six-acre Arboretum which serves as an outdoor classroom, next to the Seattle Chinese Garden. Various bus routes serve the campus, and there is ample on-site parking.

South administers two specialty training centers, and is in partnership administering a third.



## Georgetown Campus

6737 Corson Avenue S  
Seattle, WA 98108

The Georgetown campus is known as the area's premier workforce education, apprenticeship, and training center. It is located in Seattle's southern Georgetown neighborhood.



## NewHolly Learning Center

7058 32nd Avenue S  
Seattle, WA 98118  
[southseattle.edu/programs/newholly-learning-center](http://southseattle.edu/programs/newholly-learning-center)

South Seattle College's NewHolly Learning Center is a community resource for southeast Seattle. It is located on Beacon Hill on the second floor of the Learners Building.



## Harbor Island Training Center

1731 13th Ave. SW  
Seattle, WA 98134  
[southseattle.edu/harbor-island-training-center](http://southseattle.edu/harbor-island-training-center)

Harbor Island Training Center is a public-private partnership established on-site at Vigor Industrial Shipyards on Harbor Island to train maritime welders for the regional shipbuilding and repair community.

For more information about South Seattle College and its specialty training centers, see page 167.



## e-Learning/Distance Learning

**District eLearning:** [seattlecolleges.edu/programs/elearning](https://seattlecolleges.edu/programs/elearning)  
**Seattle Central College:** [seattlecentral.edu/distance](https://seattlecentral.edu/distance)  
**North Seattle College:** [elearning.northseattle.edu](https://elearning.northseattle.edu)  
**South Seattle College:** [sites.southseattle.edu/online](https://sites.southseattle.edu/online)

Seattle Colleges offers a wide range of eLearning/Distance Education options for the completion of over 250 courses using a variety of technologies. The colleges are fully accredited, and students can earn an A.A. degree at their own pace.

Courses are taught by experienced Seattle Colleges faculty, and the content and credit are equivalent to traditional on-campus courses. While eLearning and Distance Education

students have increased flexibility, most courses are not self-paced, so students will need to structure their personal schedules accordingly. Courses usually contain more reading and assignments to ensure that student learning will be as rigorous as similar on-campus classes.

Students can work directly with an advisor who will recommend courses relevant to each student's goals and develop an individualized degree completion plan. State tuition applies in most courses and may be covered by financial aid. All three campuses have eLearning/Distance Education offices that students may visit in person.



“ I remember most the peer-ship I had with my fellow engineering students, and the guidance of my teachers both through video sessions and in-person meetings. I remember most my physics, mechanical engineering, programming, and math teachers because of my passion in these topics, but everything I have been taught so far has made me who I am today. ”

– Elisha P.

# International Programs

Seattle Colleges is committed to fostering international awareness and understanding and to encouraging the global sharing of ideas and cultures. International Programs (IP) provides leadership and wrap around programming and support across the Seattle Colleges in the three areas:

1. International Students
2. Global Engagement Programming
3. Customized Group Programming

## International Students

Seattle Colleges is host to nearly 1,000 students from over 70 countries of origin. IP is responsible for the recruitment, admissions, orientation, and support services that help international students maintain their non-immigrant student status while meeting their academic goals.

For more detailed information go to [intl.seattlecolleges.edu](http://intl.seattlecolleges.edu).

For questions regarding prospective international students please contact: [IntlFutureStudent@seattlecolleges.edu](mailto:IntlFutureStudent@seattlecolleges.edu).

Questions regarding current international students can be directed to the campus offices:

**North Seattle College** — [IntlNorth@seattlecolleges.edu](mailto:IntlNorth@seattlecolleges.edu)  
**Seattle Central College** — [IntlCentral@seattlecolleges.edu](mailto:IntlCentral@seattlecolleges.edu)  
**South Seattle College** — [IntlSouth@seattlecolleges.edu](mailto:IntlSouth@seattlecolleges.edu)



## Admission Guidelines

- First time inquiries complete our online application form at [Intl.seattlecolleges.edu/apply-now](http://Intl.seattlecolleges.edu/apply-now). Partial applicants and all other inquiries: [IntlFutureStudent@seattlecolleges.edu](mailto:IntlFutureStudent@seattlecolleges.edu).
- Applicants must demonstrate adequate financial support to cover the period of study in order to meet visa requirements. International students pay the international tuition rates.
- Applicants must be at least 16 years of age and have completed 10th grade at the time of enrollment.
- Application for admission by itself does not guarantee acceptance. Students must receive official notification of admission from the International Programs Office to enroll.

For more details about requirements:

[Intl.seattlecolleges.edu/admissions-requirements](http://Intl.seattlecolleges.edu/admissions-requirements).

*Note: International students should begin the application process well in advance of the quarter for which admission is desired to allow time for processing the application, to make passport and visa arrangements, and to prepare for departure.*

## Global Engagement Programming

Seattle Colleges provides wide-ranging study abroad and service-learning opportunities and resources for members of our campus communities who wish to study and learn outside of the United States.

- Global Engagement Certificate Program: a quarter-long program provides structured activities to help participants (faculty, staff, and students) enhance their intercultural skills.
- Global Impact: global health related service-learning in Peru, Morocco, or Vietnam.
- Institutional Linkages for curriculum, faculty, staff, and student collaboration and exchange
- International Professional Development Grants support faculty and staff participation in professional development opportunities outside of the USA.
- Study Abroad opportunities are outlined at [intl.seattlecolleges.edu/go-abroad](http://intl.seattlecolleges.edu/go-abroad).

For detailed information go to

[intl.seattlecolleges.edu/study-abroad](http://intl.seattlecolleges.edu/study-abroad)

For questions regarding Global Engagement please contact [global@seattlecolleges.edu](mailto:global@seattlecolleges.edu).

## Customized Group Programming

IP responds to international entities requesting customized programming and works collaboratively with relevant college departments to deliver quality programs.

For more information contact us at [global@seattlecolleges.edu](mailto:global@seattlecolleges.edu).

# Seattle Colleges Foundation

(206) 934-2939

[advancement@seattlecolleges.edu](mailto:advancement@seattlecolleges.edu)  
[foundation.seattlecolleges.edu](http://foundation.seattlecolleges.edu)  
[equitycampaign.info](http://equitycampaign.info)

Seattle Colleges Foundation is an institutionally-related foundation serving Seattle Central College, North Seattle College, and South Seattle College. The Seattle Colleges Office of Advancement coordinates and conducts fundraising efforts districtwide to advance the mission of the Seattle Colleges.

Seattle Colleges Foundation catalyzes community support to advance the mission, work, and impact of Seattle Colleges. As we engage our community to transform lives, promote equity, and increase access to quality, affordable education, these values guide our work:

- Accessibility for all learners and partners
- Transparency such that financial contributions occur in an equitable and reliable way
- Partnership with the community and commitment to working together

- Diversity, Inclusion, and Equity for all individuals, particularly the underserved in our community
- Prudent Fiscal Management for long-term viability of donor investments
- Integrity by adhering to the highest standards of ethical fundraising and public stewardship

## Equity Can't Wait

The Seattle Colleges Foundation spearheads the \$50 million Equity Can't Wait Campaign, an effort to mobilize philanthropic support for the colleges to better support students, power instructional innovation, and strengthen capacity both with new and renovated facilities and a faculty and staff who reflect the full diversity of our community. The ultimate goal: helping raise the rate of program completion for all students at the colleges—and completely eliminating the gap between students historically well-served by higher education and those historically ill-served, particularly people of Black, Latinx, and Indigenous heritage.



## Seattle Colleges Cable Television (SCCtv)

(206) 934-3966 or (206) 395-5539  
[seattlecolleges.tv](http://seattlecolleges.tv)

The Seattle Colleges Cable Television, SCCtv, offers high-quality educational and community programming. SCCtv broadcasts to Seattle residents on Comcast Channel 28, Wave Channel 19, CenturyLink Ch8005/HD-Ch8505, and simulcasts to the world via [seattlecolleges.tv](http://seattlecolleges.tv). Emmy-award-winning SCCtv creates unique original programming, such as Professor Fred's Movie Marvels and shares these programs with college television stations across the country.

The video production team at self-funded SCCtv also creates high-quality video for Seattle Colleges and non-college clients. Programming information is available on the website.

In January 2021 SCCtv launched a new education channel, KNW (Knowledge NW), broadcasting original educational content created by SCCtv and our education partners, like the University of Washington. KNW can be seen throughout Seattle and King County on Comcast Channel 77, Wave Ch 23, Century Link/Lumen Ch 8006, and live simulcasts at [seattlecolleges.tv](http://seattlecolleges.tv).



## Seattle Promise

[seattlecolleges.edu/promise](https://seattlecolleges.edu/promise)

Seattle Promise—a partnership created in 2018 with the City of Seattle and Seattle Public Schools to create more equitable higher-education opportunities for Seattle public high school graduates—has already surpassed its 2025 target enrollment. With more than 860 students now enrolled, Seattle Promise offers graduates, regardless of GPA, income, ability, or country of birth, two years (or up to 90 credits) of tuition and additional financial support for books, transportation, housing, etc. to those with financial need.

The program also provides personal support and guidance to ensure student success. Seattle Promise—an example of Seattle Colleges' civic and educational partnerships—was recognized in 2020 by The Seattle Times as a flagship and leading the way for other promise programs in the region.



“ I wanted to stay close to my family and study nursing. Seattle Promise made it possible to keep what’s important to me while pursuing my education. ”

– Karla F

# Degrees and Training

## Bachelor's Degrees

Seattle Colleges offers bachelor's degrees that create educational pathways, build on two-year technical degrees, and expand career opportunities.

When compared to traditional bachelor's degrees, these four-year Bachelor of Applied Science (BAS) degrees incorporate more applied, hands-on learning focused on a particular industry and include strong internship components. They often offer credit for prior learning and workplace experience.

### Accounting with International Accounting at North

[northseattle.edu/programs/accounting/accounting-international-accounting-bas](http://northseattle.edu/programs/accounting/accounting-international-accounting-bas)

This program prepares graduates with the knowledge and skills required for employment in the field of accounting. The degree builds on an associate of applied science (AAS-T) degree in business, accounting, or real estate, and provides students with preparation for, and a clear pathway toward, meeting the Washington State CPA licensure requirements. The degree will provide knowledge and skills regarding the application of FASB/GAAP principles and GAAS auditing standards, effective business communications, understanding of legal and ethical frameworks for business, intermediate transaction posting and financial statement preparation, use of general ledger software, and a thorough understanding of International Financial Reporting Standards (IFRS).

### Application Development at North

[northseattle.edu/programs/bas-application-development](http://northseattle.edu/programs/bas-application-development)

This program prepares graduates for lucrative careers in software development, focusing on skills needed to create and modify general computer application software, cloud computing, mobile applications, and specialized utility programs. Curriculum includes foundational computer science skills with project work that mirrors industry trends and features a strong emphasis on industry-based applied learning.

### Applied Behavioral Science at Central [educationhumanservices.seattlecentral.edu/programs/bas-in-applied-behavioral-science](http://educationhumanservices.seattlecentral.edu/programs/bas-in-applied-behavioral-science)

This program prepares graduates to provide culturally relevant services, apply ethical practices based on internalized professional values, and integrate knowledge from relevant disciplines. It is designed for those who are in human services professions, such as early childhood education/child welfare, chemical dependency counseling, family support and social services, public/community health, and interpreting/translation services.

### Community Health & Education/ Allied Health at Central

[healthcare.seattlecentral.edu/programs/community-health-and-education](http://healthcare.seattlecentral.edu/programs/community-health-and-education)

This track is designed to build on a health care professional's training and experience. This program develops the skills to promote healthy behaviors and help prevent disease in the community through education and outreach. Graduates can pursue positions in nonprofit health organizations, public-sector agencies, patient care centers, medical institutions, and colleges.

### Computer Science Bachelor of Science (BS) at North

[northseattle.edu/programs/computer-science-bs/computer-science-bachelor-science-degree](http://northseattle.edu/programs/computer-science-bs/computer-science-bachelor-science-degree)

The BS in Computer Science degree will cover a wide range of critical knowledge and skill-building areas including, the design and usability for software and computing systems, effective team collaboration, information technology leadership and preparation for advanced learning in computing, science, engineering and other professional fields.



## Dental Hygiene/Allied Health at Central

[healthcare.seattlecentral.edu/programs/dental-hygiene](https://healthcare.seattlecentral.edu/programs/dental-hygiene)

In this program, students will learn the skills to provide quality oral health care, such as teeth cleaning, placing dental fillings, taking X-rays, and administering local anesthetics. Graduates can work in private dental offices, public health clinics, hospitals, nursing homes, and oral research facilities. The American Dental Association Commission on Accreditation approves this program.

## Early Childhood Education by North at Central

[northseattle.edu/programs/bas-early-childhood-education](https://northseattle.edu/programs/bas-early-childhood-education)

This program provides professional development training for early care and education professionals, allowing them to keep pace with the increasing professionalization of the field. The curriculum is designed to align with accreditation standards established by the National Association for the Education of Young Children and the Council for Accreditation of Educator Preparation. Classes are held at Seattle Central College.

## Health Care Services Management/Allied Health at Central

[healthcare.seattlecentral.edu/programs/healthcare-services-management](https://healthcare.seattlecentral.edu/programs/healthcare-services-management)

This track is designed for experienced health care professionals who want to transition their careers to health administration and management. Students will learn skills to provide administrative and management support in hospitals, healthcare facilities, and medical offices. Graduates will be prepared to direct, coordinate, and supervise healthcare delivery to improve the quality of patient care.

## Hospitality Management at South

[southseattle.edu/programs/bas/hospitality-management](https://southseattle.edu/programs/bas/hospitality-management)

This program focuses on applied management training in the hospitality industry. Students learn a broad set of competencies in the industry, which includes tourism, hotel operations, restaurant management, catering, cruise ship operations, casino operations, and travel. The degree will also open doors in rapidly expanding sectors, such as assisted and independent living facilities, destination spas and resorts, corporate hospitality, and event production.

## Information Technology: Networking at Central

The BAS in IT Networking (BAS-ITN) will help students prepare for network related jobs in IT, including computer and network administrators and network systems and security analysts. The degree will help meet the growing regional demand for employees with advanced certifications or skills, including: Cisco Certified Network Professionals (CCNP); industry certifications in Microsoft SQL and SharePoint; supplemental skills in PERL; and fluency in advanced programming languages, mobile application security, and cloud-based hybrid environments. Along with these specific skills and certifications, general education in the curriculum will prepare graduates by developing the ability to communicate and build working relationships, solve problems, and plan and structure tasks while allocating time and resources effectively.

## International Business at North

[northseattle.edu/programs/bas-international-business](https://northseattle.edu/programs/bas-international-business)

Washington is the most trade-dependent state in the country, with approximately one in three jobs related to international trade. This program leverages a combination of upper-division courses in international business and applied learning to prepare graduates to work in the international business industry. Students will complete a practicum as well as an internship, giving them important real-world experience and cultural awareness.

## Professional Technical Education and Instructional Design at South

The Bachelor of Applied Science (BAS) degree in Professional Technical Education & Instructional Design (PTEID) is a 90-credit program that offers industry professionals a pathway to becoming a skilled Technical Education Teacher. The PTEID BAS is intended for students who (1) have completed a two-year associate of applied science-transfer (AAS-T) degree or another approved associate-transfer degree and; (2) have at least two years of industry specific work experience. The program emphasizes upper-division coursework that focuses on the complexities of the adult learner, the role of community colleges in society, and issues of equity. Students will learn how to shift their focus from teaching purely for content mastery to student-centered learning and leadership.

## Residential and Commercial Property Management at North

[northseattle.edu/programs/residential-and-commercial-property-management](http://northseattle.edu/programs/residential-and-commercial-property-management)

The Bachelor of Applied Science in Residential and Commercial Property Management is a multidisciplinary program, combining business, accounting, and real estate courses with upper-division property management courses. This program is a pathway to a career-focused bachelor's degree for students who have already have an associate degree, including technical associate degrees or equivalent credits. The curriculum is focused on skills such as marketing, leasing, accounting and revenue management, customer service, and leadership, with an emphasis on sustainability throughout the program. Graduates will be prepared for careers in residential or commercial property management and are eligible to take several industry certification examinations upon program completion.

## Respiratory Care/Allied Health at Central

[healthcare.seattlecentral.edu/programs/respiratory-care](http://healthcare.seattlecentral.edu/programs/respiratory-care)

This program prepares students to work as part of health care teams to help treat patients with heart and lung disorders. Graduates have skills in respiratory disease management, critical care, diagnostic testing, and more. This degree meets the respiratory care practitioner licensure requirements of Washington state and is fully accredited by the Commission on Accreditation for Respiratory Care.

## Sustainable Building Science Technology at South

[southseattle.edu/programs/bas/sustainable-building-science-technology](http://southseattle.edu/programs/bas/sustainable-building-science-technology)

SBST is an applied science and technology degree program with upper-division coursework focusing on building science, management skills, essential technologies, and financial/budgeting operations. The 90-credit curriculum offers a pathway to becoming a skilled building professional. It is recommended, but not required, that applicants have relevant work experience with commercial or residential buildings.

## Bachelor's to Graduate Degrees

Graduates of the bachelor's programs at Seattle Colleges have unique opportunities for continuing their education with a graduate degree. Our bachelor's programs have established articulation agreements with graduate programs at Washington Governor's University (WGU) and City University of Seattle. Each bachelor's program also has individual relationships with other graduate programs. See more about these partnerships on the respective pages for each program or visit each program's website.

### Fall 2023–Summer 2024 Tuition Rates for B.A.S. (Upper Division) Courses

CREDITS	BAS RESIDENT	BAS NON-RESIDENT	NON-RESIDENT INTERNATIONAL
1	\$ 240.10	\$ 257.44	\$ 674.70
2	480.20	514.88	1,349.40
3	720.30	772.32	2,024.10
4	960.40	1,029.76	2,698.80
5	1,200.50	1,287.20	3,373.50
6	1,440.60	1,544.64	4,048.20
7	1,680.70	1,802.08	4,722.90
8	1,920.80	2,059.52	5,397.60
9	2,160.90	2,316.96	6,072.30
10	2,401.00	2,574.40	6,747.00
11	2,413.33	2,587.65	6,760.25
12	2,425.66	2,600.90	6,773.50
13	2,437.99	2,614.15	6,786.75
14	2,450.32	2,627.40	6,800.00
15	2,462.65	2,640.65	6,813.25
16	2,474.98	2,653.90	6,826.50
17	2,487.31	2,667.15	6,839.75
18	2,499.64	2,680.40	6,853.00
19	2,727.03	2,907.79	7,514.99
20	2,954.42	3,135.18	8,176.98
21	3,181.81	3,362.57	8,838.97
22	3,409.20	3,589.96	9,500.96
23	3,636.59	3,817.35	10,162.95
24	3,863.98	4,044.74	10,824.94
25	4,091.37	4,272.13	11,486.93

*Note: Students in Professional/Technical programs that require more than 18 credits per quarter (e.g., Culinary Arts) pay a reduced rate for those credits. See the program website.*

*Note: Check current amounts at [seattlecolleges.edu/get-started/step-5-pay-and-prepare#collapse-accordion-516-2](http://seattlecolleges.edu/get-started/step-5-pay-and-prepare#collapse-accordion-516-2).*



# Career and Technical Education

Seattle Colleges offers many workforce education and training programs designed to prepare students for specific careers. These programs offer certificates and/or degrees, and they vary from one to seven quarters in length. Most of our Career and Technical Education programs are on education pathways that lead to baccalaureate degrees and beyond.

To learn more about these programs, visit the College to Career website at [seattlecolleges.edu/collegetocareer](http://seattlecolleges.edu/collegetocareer).

To learn more about certificate programs visit page 17.

To learn more about bachelor's degrees go to page 12.

## Degrees and Certificates

### Short-Term Certificates

Designed to cover entry-level or specific skills needed for industry. Usually 20 credits or less.

### Associate of Applied Science (A.A.S.) Degree and One-Year Certificates

Designed to prepare students for employment in a wide variety of career and technical careers. Usually 90 credits or less.

### Associate of Applied Science - Transfer (A.A.S.-T) Degree

Designed to assist students who initially enroll for a career and technical degree and then seek a bachelor's degree. Usually 90 credits.

### Bachelor of Applied Science (B.A.S.) Degree

Compared with traditional bachelor's degrees, our B.A.S. degrees incorporate more applied, hands-on learning focused on a particular industry and include strong internship components.

### Credit for Nontraditional Learning

Credit for nontraditional learning (also known as prior learning) is a term used to describe learning gained outside a traditional academic environment. Credit for nontraditional learning is the evaluation and assessment of an individual's life learning for college credit, certification, or advanced standing toward further education or training.

Options for students to receive credit for prior knowledge and experiences at Seattle Colleges include recognition of industry/professional credentials, military training, credit by exams, standardized tests, and portfolio-based assessments.

## Short-term Certificates

[seattlecolleges.edu/shortcertificates](http://seattlecolleges.edu/shortcertificates)

Short-term certificates have fewer than 20 credits. They usually cover an entry-level or specific skill set needed for that industry. Students can complete a short-term certificate and enter/re-enter the workplace with improved skills. They may also continue on a pathway to a higher certificate or degree, and some or all of the credits from the short-term certificate may apply to the next-level certificate or degree. Some programs are composed of short-term certificates that are specifically designed to build, or "stack," sequential skills and credits.

## Associate of Applied Science (A.A.S.) Degree

The A.A.S. degree prepares students for employment through development of technical and related skills. To earn an A.A.S. degree within the Seattle Colleges, a student must complete at least 90 credits and have a minimum cumulative grade point average of 2.0. At least 15 credits must be earned at the college granting the degree. Students should consult an advisor or division counselor for specific GPA requirements in their programs of study.

Programs are designed and updated by advisory committees, made up of local industry leaders and labor representatives, to reflect current employment trends. Instructors bring industry experience as well as education and training to the classroom. All full-time instructors hold vocational instructor certificates and stay informed of industry changes. For this degree, college-level courses (100 and above) in communications, computation, and human relations, as well as selected courses from humanities, natural sciences, and social sciences, are required. Some A.A.S. programs and some courses in A.A.S. degree programs may transfer to four-year colleges or universities. Consult a program advisor or transfer institution concerning course transferability prior to enrollment.

“ I will remember the great teachers and support I had while achieving my degree. I was continuously encouraged and supported and will not forget the people who helped me. I decided to continue my education at thirty-one and I was never made to feel like I was too old or it was too late. ”

– Beth C.

## Associate of Applied Science – Transfer (A.A.S.-T) Degree

The A.A.S.-T degree is designed to serve as the first two years of an applied bachelor's degree. Select partner institutions also accept A.A.S.-T Degrees for transfer into bachelor's degree programs. Degree requirements include satisfactory completion of at least 90 approved credits with a 2.0 cumulative GPA. At least 15 credits in college-level courses (100 or above) must be earned at the college granting the degree. The A.A.S.-T degree is based on technical courses required for job preparation but also includes transfer degree general education courses. This degree is not designed for general transfer to other colleges or universities; the A.A.S.-T degree prepares students for specific bachelor's degree programs at specific institutions. Students should contact the appropriate college division dean or Advising Office for a current list of baccalaureate institutions accepting the A.A.S.-T degree.

## Bachelor of Applied Science (B.A.S.) Degrees and Bachelor of Science (B.S.) Degree

*See page 12.*



# Certificate Programs

[seattlecolleges.edu/programs/certificate-programs](https://seattlecolleges.edu/programs/certificate-programs)

Certificate programs of one to seven quarters in length are designed to prepare graduates for employment in a wide variety of careers or to upgrade the skills of incumbent workers.

Requirements include satisfactory completion of an approved program of study with a minimum 2.0 cumulative grade point average. Tests and a minimum proficiency may be required for certain programs. Waiting lists and application fees may be required of others. Education and work experience may be accepted to satisfy part of the requirements if specifically related to the individual program of study. Credits earned in certificate programs are generally applicable toward the A.A.S. degree. Note: Courses must be numbered 100 or above to count toward certificate programs.

## Short-term Certificates

Short-term certificates have fewer than 20 credits. They usually cover an entry-level or specific skill set needed for that industry. Students can complete a short-term certificate and enter/re-enter the workplace with improved skills. They may also continue on a pathway to a higher certificate or degree, and some or all of the credits from the short-term certificate may apply to the next-level certificate or degree. Some programs are composed of short-term certificates that are specifically designed to build, or “stack,” sequential skills and credits.



## Stackable Certificates

Among these short-term certificates are some that are considered “stackable” certificates. Stackable certificates are short-term certificates of fewer than 20 credits each, which are specifically designed to build, or “stack” sequential skills and credits. On completion of each certificate, students can return to the workplace with added skills or they can continue building additional skills at the next level in the stackable series of certificates. Taken together, stackable certificates lead to a sequence of increasing skills, potential job advancement, and/or cumulative credits toward a higher certificate or degree.

For example, in Wood Technology, students can take 18-credit certificates independently in Carpentry, Finishing, and/or Framing Fundamentals. These skills can lead to jobs, or students can accumulate the skills, which can lead to more job skills, further certificates, or an A.A.S.-T degree. In Welding, there are six levels of skill. Each new skill level can increase job potential for students who need to stop studies to work. On returning to school, students resume work at the next certificate level, accumulating skills which can lead to further certificates and/or an A.A.S. degree.

## Related Instruction for Certificates and Degrees

### Definition

Each career and technical certificate or degree of 45 credits or more includes related instruction, the nontechnical portion of study providing instruction in the areas of communication, computation, and human relations.

### Rationale

The purpose of related instruction is to provide educational depth and breadth through development of essential skills in reading and writing, research and information literacy, in-person and media-based communication, critical thinking, problem-solving, understanding individuals and cultures, and quantitative or symbolic reasoning. These transferable skills support students as they continue in higher education, move forward in careers, and continue the process of lifelong learning.

“ I will never forget my amazing classmates and incredible professors who helped me make my dreams come true. ”

– Ashenefech D.

# College Transfer Overview

The College Transfer program offers courses in a wide range of academic fields common to undergraduate study in colleges and universities. These courses meet requirements for associate degrees and will transfer to four-year institutions within guidelines established by those schools. The courses and programs offered are designed to enable the student to make a successful transition to a baccalaureate (four-year) institution, including Seattle Colleges' bachelor programs. Students who plan to transfer to a specific college or university should work with a transfer advisor and also request information from the baccalaureate institution(s) they want to attend.

- Associate of Arts (A.A. – DTA) Degree
- Associate in Business
- Associate of Science – Transfer (A.S.-T) Degree
- Associate of Fine Arts (A.F.A.) Degree

## Transfer Degrees Summary

**C-Central N-North S-South**

**DTA – Direct Transfer Agreement**

### Associate of Arts (A.A.-DTA)

**C,N,S**

Two-year degree designed to transfer to a baccalaureate college or university.

### Associate in Business (A.B.)

**C,N,S**

Two-year degree designed to transfer to a baccalaureate (four-year) college or university.

### Associate of Science - Transfer Degree (A.S.-T)

**C,N,S**

Two-year degree designed to transfer to a four-year college or university in two major areas of science.

**Option 1** Biological sciences, environmental/resource sciences, chemistry, geology, and earth sciences

**Option 2** Engineering, computer science, physics, and atmospheric science

### Associate in Fine Arts (A.F.A.)

**N**

Two-year degree designed to transfer to a four-year college or university.

### Associate of Applied Science (A.A.S. and A.A.S.-T) Degrees

**C,N,S**

Two-year degree designed to transfer to a four-year college or university.

## Associate of Arts (A.A. – DTA) Degree

The Associate of Arts (A.A.) – Direct Transfer Agreement (DTA) degree is a 90-credit transfer degree that fulfills the general education requirements for most four-year degrees in arts and sciences. To earn the A.A. degree, students must achieve a cumulative grade point average of 2.0 or better in courses numbered 100 and above, complete at least 15 credits at the college awarding the degree, and meet the requirements outlined below.

Students should contact college advising offices for listings of courses that satisfy degree requirements. Students planning to transfer to a four-year institution should be aware that they must complete all admission requirements for their destination institution. In addition, students are encouraged to give early consideration to possible majors and obtain information about requirements for these majors at their destination college or university.

## A.A. Degree Learning Outcomes

The Seattle Colleges A.A. degree is designed to fulfill a set of learning outcomes for the general education of a college undergraduate in the United States in the 21st century.

These learning outcomes include the following:

1. *Communication skills (reading, oral or signed, written, or other forms of expression):* Explain meaning of written work, presentations, arts, and media in different contexts, and present oral, signed, written, or other forms of expression to increase knowledge, foster understanding, or promote change in an audience.
2. *Critical thinking, inquiry and analysis, and problem-solving:* Explore issues, ideas, phenomena, and artifacts to define and articulate problems or to formulate hypotheses. Analyze evidence to formulate an opinion, identify strategies, develop and implement solutions, evaluate outcomes, and/or draw conclusions.
3. *Global learning and intercultural knowledge and competence:* Critically analyze complex, interdependent, national, and global systems, and their legacies and implications, regarding the distribution of power. Reflect on how one's position in these systems affects both local and global communities. Apply a set of cognitive, affective, and behavioral skills that support effective and appropriate interaction in a variety of cultural contexts.
4. *Quantitative literacy:* Reason and solve quantitative problems in a wide array of contexts and use quantitative evidence to develop and communicate sound arguments.

5. *Creative thinking*: Synthesize existing ideas, images, or expertise in original ways.
6. *Information literacy*: Identify, locate, and evaluate needed information in a complex and changing environment. Effectively and responsibly use that information to develop ideas, address issues, and solve problems.
7. *Technology literacy*: Effectively and critically evaluate, navigate, and use a range of digital technologies.
8. *Integrative learning*: Connect disciplinary and divergent ideas across contexts by synthesizing and transferring integrative learning principles to complex situations within and/or beyond the classroom.
9. *Collaboration*: Work effectively with others to learn, complete tasks, and pursue common goals that shape, influence, and benefit the individual and/or society.
10. *Ethical reasoning*: Examine, assess, and articulate core beliefs and values, and apply that knowledge to analyze and evaluate complex ethical situations from various perspectives.
11. *Civic engagement*: Promote the quality of life in the civic community through actions that enrich individual life and benefit the community.
12. *Foundations and skills for lifelong learning*: Transfer previous learning to new situations, reflect on learning experiences, and initiate steps to apply effective learning strategies to improve and expand knowledge, skills, and competence.

### Associate in Business – Direct Transfer Agreement (A.B.-DTA) Degree

The Associate in Business degree is designed to satisfy lower-division general education and business requirements at Washington's public four-year colleges and universities.

### Associate of Science – Transfer (A.S.-T) Degree

The Associate of Science (A.S.) is a transfer degree for students who wish to transfer as juniors to baccalaureate institutions in the state of Washington.

Degree requirements include satisfactory completion of at least 90 approved credits with a 2.0 cumulative GPA; however, certain transfer institutions may require a GPA higher than 2.0. At least 15 credits in college-level courses (100 or above) must be earned at the college granting the degree.

Two different study options are offered:

1. Biological sciences, environmental/resources sciences, chemistry, geology, and earth sciences
2. Engineering, computer science, physics, and atmospheric science

Students should contact an advisor for specific program requirements.

### Associate of Fine Arts (A.F.A.) Degree

North Seattle College offers an Associate of Fine Arts (A.F.A.) degree. This degree requires at least two years of study and includes many of the A.A. degree requirements as well as specific requirements in art. While the A.F.A. degree prepares students to transfer to four-year institutions, the only college to which an A.F.A. recipient can currently transfer with junior standing is The Evergreen State College.

*See North, page 28.*



## College Transfer A.A. Degree Requirements

BASIC REQUIREMENTS	15 CREDITS
ELECTIVES	30 CREDITS
AREAS OF KNOWLEDGE DISTRIBUTION REQUIREMENTS	45 CREDITS
A.A. DEGREE TOTAL	90 CREDITS

### Special Requirements included within the 90-credit total

Within the 90 credits required for the A.A. degree, students must complete special requirements in Integrated Studies, Communication, U.S. Culture, and Global Studies, as listed below. Students should consult their college advising office for a current listing of these courses. Specially designated courses that satisfy these requirements differ by college. Special designation credit for courses taken at one of the Seattle Colleges will transfer to other colleges in the district.

- Integrated Studies. (This requirement may be met through specially designated individual courses, linked courses, or coordinated studies programs.)
- At least one course in Communication.
- At least one course in U.S. Cultures.
- At least one course in Global Studies.

BASIC REQUIREMENTS	15 CREDITS
ENGLISH &101 AND &102	10 CREDITS
QUANTITATIVE/SYMBOLIC REASONING	5 CREDITS

Students completing the QSR requirement will be able to use quantitative or symbolic reasoning to understand, analyze, interpret, and solve problems. Successful completion of any of the following classes satisfies the QSR requirement for Seattle Colleges. These courses may also satisfy the QSR requirement at baccalaureate institutions. Students should check the requirements of their destination institution.

- MATH &107\*, 109, 116, 120\*\*, &131\*\*, &132\*\*, 136<sup>†</sup>, &141, &142, &146, &148, &151, &152, &163, 220, 224, 238, 239

(\* If using MATH &107 to meet both the IA proficiency requirement and the QSR requirement, students must earn a minimum 2.0 grade in the course.)

(\*\* MATH 120, &131, and &132 do not meet the QSR requirement at University of Washington.)

- PHIL &120

### ELECTIVES

30 CREDITS

Electives include:

- All college transfer courses numbered 100 or above
- Accounting, business administration, and transfer engineering classes
- Physical education activity courses (3-credit maximum)
- A maximum of 15 credits from a combination of the following:
  - Workforce Education Career and Technical courses numbered 100 and above
  - Human Development courses (HDC) numbered 100 and above
  - Library research courses
  - Cooperative Work Experience (CWE) courses numbered 100 and above



## College Transfer A.A. Degree Requirements (Continued)

### Areas of Knowledge Distribution Requirements

45 Credits

This listing may change. Students should confer with their college advising office for the most current information.

### Visual, Literary, and Performing Arts (Humanities and Arts)

15 Credits

Choices must include a minimum of two different course prefixes, and no more than five credits each of a world language at the 100 level and a studio/performance class (\*asterisked below) may be applied to the distribution requirements.

**Arabic:** ARAB 101, 102, 103, 121, 122

**Art:** ART &100, 101\*, 102\*, 103\*, 104, 105, 106, 110\*, 111\*, 112\*, 113\*, 114\*, 115\*, 121\*, 122\*, 123\*, 124\*, 163, 166\*, 170, 171, 201\*, 202\*, 203\*, 205\*, 206\*, 207\*, 209\*, 210\*, 211\*, 212\*, 213\*, 214\*, 215\*, 216\*, 217\*, 221\*, 222\*, 223\*, 231\*, 232\*, 240\*, 251, 252, 253, 254, 255, 256, 257, 258, 281\*, 282\*, 283\*, 284\*, 285\*, 290, 291

**American Sign Language:** ASL 120, &121, &122, &123, 210, &221, &222, &223

**Chinese:** CHIN &121, &122, &123, &221, &222, &223

**Communication:** CMST &101, &102, 115, 145, 155, 175, 185, 195, 205, &210, 215, &220, &230, 235, 240, 245, 255, 265, 275, 285, 295

**Drama:** DRMA &101, 103, 105, 108\*, 109\*, 110\*, 112, 114\*, 116\*, 120\*, 121\*, 122\*, 123\*, 131\*, 140, 141, 170\*, 171\*, 172\*, 173\*, 174\*, 180\*, 182\*, 204\*, 205\*, 206\*, 221\*, 222\*, 223\*, 284, 285, 286

**English:** ENGL 104, 109, &111, &112, &113, &114, 115, 116, 117, 125, 135, 140, 151, 152, 153, 161, 162, 201, 204, 205, 210, 214, 218, 219, &224, &225, &226, &227, &228, 231, 232, 233, 240, 241, &244, &245, &246, 247, 251, 252, 253, &254, &256, 257, 258, 259, 260, 263, 265, 266, 267, 270, 291, 292, 293

**French:** FRCH &121, &122, &123, 204, 205, 206, 212, &221, &222, &223, 231, 232, 233

**German:** GERM &121, &122, &123

**Humanities:** HUM 104, 105, 110, 112, 115, &116, &117, &118, 120, 121, 125, 130, 135, 140, 145, 150, 155, 160, 200, 210, 234, 261, 270

**Italian:** ITAL 121, 122, 123

**Japanese:** JAPN &121, &122, &123, &221, &222, &223

**Journalism:** JRN 101, 102, 103

**Linguistics:** LAN 101, 110

**Literature:** LIT 234, 236, 238

**Music:** MUSC 100, &105, 106, 109, 110, 111, 113, 116, 117, 118, 119\*, 120\*, 124, 125, 126\*, 127\*, 128\*, 130\*, 134\*- 140\*, &141, &142, &143, 144\*, 145\*, 146\*, 147\*, 148\*, 150\*, 151\*, 156\*, 157\*, 158\*, 160, 161, 163, 164\*, 165\*, 166\*, 171\*, 172\*, 173\*, 182\*, 185, 186, 204, 205, 213, 221\*, 222\*, 223\*, &231, &232, &233

**Russian:** RUSS &121, &122, &123

**Spanish:** SPAN &121, &122, &123, &221, &222, &223, 236, 238

**Vietnamese:** VIET &121, &122, &123

### Individuals, Cultures, and Societies (Social Sciences)

15 Credits

Choices must include a minimum of two different course prefixes.

**American Ethnic Studies:** AME 102, 111, 150, 151, 160, 200, 201

**Anthropology:** ANTH &100, &106, 113, &125, 130, 135, 190, 201, &206, &210, 211, 212, 213, &216, &227, &228, 250, 270, 275

**American Sign Language:** ASL 120, 125

**Biology:** BIOL 150

**Economics:** ECON 100, 101, 102, &201, &202, 240

**Environmental Science:** ENVS &100, 101, 150, 160, 170, 200, 202, 206, 208, 214, 240, 294

**Geography:** GEOG &100, &200, 207, 230, 260

**History:** HIST 105, 106, 108, 120, &126, &127, &128, 131, 132, &136, &137, 138, 140, 145, &146, &147, &148, 150, 191, 200, 208, 210, 211, 212, &214, &219, 221, 230, 231, 240, 241, 242, 251, 268, 269, 273, 281

**Humanities:** HUM 105, 112, 121, 170, 201, 230

**International Studies:** ISP 101, 105, 110, 120, 160, 170, 200, 201, 205, 210, 220, 234, 251, 255, 260, 261, 270

**Philosophy:** PHIL &101, 102, 110, 111, 118, 160, 215, 210, 220, 240, 245, 250, 255, 267

**Political Science:** POLS &101, 105, 111, 112, 170, &200, &201, &202, &203, 205, 206, 213, 220, 255

**Psychology:** PSYC &100, 120, &200, 205, 207, 209, 210, 217, &220, 225, 230, 235, 245, 250, 255, 257, 260, 294

**Religion:** REL 150, 151

**Sociology:** SOC &101, 102, 105, 106, 107, 120, 130, 150, 170, &201, 215, 220, 230, 245, 250, 253, 265, 271, 275, 280

**Social Science:** SSC 101, 103, 187, 330

**Social Welfare:** SWF 200

**STEM:** STEM 118

**Women's Studies:** WMN 140, 200, 205, 213, 257

**The Natural World (Natural and Physical Sciences, Mathematics)****15 Credits**

Choices must include a minimum of two different prefixes; five credits must be in a lab science (\*asterisked below).

Students may choose up to five credits from the following list of courses: Anthropology, Computer Science, Engineering, Geography, Mathematics, Philosophy OR Psychology (see specific courses below).

**Anatomy & Physiology:** BIOL 128\*, &241\*, &242\*

**Astronomy:** ASTR &100, 102\*, 104\*, &110\*, &115\*, 201

**Biology:** BIOL &100\*, 102\*, 106\*, 107\*, 109, 120\*, 125\*, 128\*, 130\*, 150, &160\*, 161\*, 195, 196, &211\*, &212\*, &213\*, 228\*, 229\*, 239\*, &260\*, 282\*, 285\*, 286\*, 287\*, 290, SPS 201\*

**Botany:** BOT BOT 110\*, 112\*, 113\*

**Chemistry:** CHEM CHEM 106\*, &110\*, &121\*, &122\*, &123\*, &131\*, &139, &161\*, &162\*, &163\*, 191\*, 192\*, 211\*, &241, &242, &243, &251\*, &252\*, 255, 256, &261, &262, &263

**Environmental Science:** ENVS &100, &101\*, &100, &101\*, 150, 160, 170, 199, 201, 202\*, 203, 204\*, 205, 206\*, 208, 216\*, 221

**Geology:** GEOL &101\*, &103\*, 104\*, 105\*, 106, 108\*, &110\*, 111\*, &115\*, 118\*, 202\*, 207\*, &208\*

**Health:** HEA 125, 150, 160, 225, 228

**Meteorology:** MEY 100

**Material Science:** MSC 101

**Nanotechnology:** NANO 101\*

**Nutrition:** NTR 105\*, 150, 155, NUTR 100, &101

**Oceanography:** OCEA &100, &101\*

**Physics:** PHYS &100, 107\*, &114\*, &115\*, &116\*, &121\*, &122\*, &123\*, &221\*, &222\*, &223\*

**Science:** SCI 100, 101\*, 104, 107\*, 110\*, 111\*, 112\*, 113\*, 114\*, 115\*, 116\*, 117\*, 118\*, 119\*, 121\*, 122\*, 129\*, 131\*, 132\*, 133\*

**STEM:** STEM 118

**Sustainability:** SUST 101

**Up to five credits total allowed from the following group:**

**Anthropology:** ANTH &204, &205, 275

**Computer Science:** CSC 110, 111, 142, 143

**Engineering:** ENGR 110, &111, 140, 142, &214, &215, &224, &225, 240, 271

**Geography:** GEOG 205

**Math:** All MATH college transfer courses number 102 and above.

*Technical math courses NOT usable for transfer purposes.*

**Philosophy:** PHIL &106, &120

**Psychology:** PSYC 222

**Total Credits Required for Associate of Arts Degree****90 Credits**



## Washington 45

### First Year Transfer Courses

The Washington 45 agreement spells out a list of courses offered by Washington state's community and technical colleges that satisfy up to one year's worth (45 credits) of general education requirements at public four-year institutions.

A student who earns these credits is not guaranteed admission into a four-year institution. The Washington 45 does not equal — or replace — the Direct Transfer Agreement associate of arts degree, associate of science, or any major-related program agreements.

For more information, contact your campus advisor or the four-year institution where you are planning to transfer.

## Transfer Policy and Processes

### Transfer Assistance

Transfer services and information are available at all three colleges through the campus Advising/Transfer Centers. During their first few quarters of study at the Seattle Colleges, students are encouraged to explore the various options for majors at four-year institutions, including at the Seattle Colleges, and to become knowledgeable about admissions and graduation requirements for any majors they are considering.

Representatives from local four-year institutions visit all three Seattle Colleges campuses on a regular basis to provide information regarding admissions deadlines and transfer requirements.

Students are responsible for becoming knowledgeable about the admissions and graduation requirements of the four-year institution they plan to attend.

### Reciprocity Agreement

Washington community and technical colleges offer reciprocity to students transferring within the state's community and technical college system who are pursuing A.A., A.B., A.S., or A.S.-T degrees. Students who complete an individual course that meets distribution degree requirements or fulfills entire areas of their degree requirements at one college will be considered to have met those same requirements if they plan to complete the same degree when they transfer to another community or technical college in Washington. These degree requirements include Communication Skills, Quantitative Skills, or one or more Distribution Area requirements. Students must initiate the review process and be prepared to provide necessary documentation. For complete information, students should contact the Registrar's Office at each college.

See "Common Course Numbering" on page 226.

## Transfer of Credits to Baccalaureate Institutions

Students who plan to transfer to a four-year college or university are advised to give careful consideration to the following information:

1. Students transferring to a four-year institution may apply for a maximum of 90 (quarter) transferable community college credits to a baccalaureate degree. More credits may transfer at the discretion of the receiving institution.
2. It is possible to transfer with fewer than 90 credits, but special requirements may be imposed.
3. Students who plan to graduate with the A.A. or A.S. degree should make sure they have also met the admission requirements for the transfer institution. Completion of the A.A. degree alone may not necessarily fulfill admission requirements at some four-year institutions.
4. Transferable courses are numbered 100 and above, but not all courses so numbered are transferable. Receiving institutions determine which credits transfer into the college. Students planning to transfer should plan as early as possible, contacting those institutions to which they plan to transfer.
5. Unless a transfer agreement with the Seattle Colleges is in effect, the four-year school may impose additional general education requirements.
6. Graduation requirements for the bachelor's degree are established by the four-year institution. Students at the college should choose courses according to graduation requirements of their chosen college or university. Those planning to transfer should plan as early as possible in their college programs using the following guide:
  - Consult a current catalog of the chosen school to determine entrance requirements and suggested freshman and sophomore programs in the major field of interest.
  - Confer with a college advisor about fulfilling these requirements.
  - Confer with an admissions officer at the baccalaureate institution regarding further curriculum and transfer regulations.
  - Check carefully a quarter or two before transfer to be sure all requirements will be met to the satisfaction of the four-year institution.

## Transfer Rights & Responsibilities

Source: *Washington Student Achievement Council*  
[wsac.wa.gov/transfers](http://wsac.wa.gov/transfers)

### Student Rights and Responsibilities

1. Students have the right to clear, accurate, and current information about their transfer admission requirements, transfer admission deadlines, degree requirements, and transfer policies that include course equivalencies.
2. Transfer and freshman-entry students have the right to expect comparable standards for regular admission to programs and comparable program requirements.
3. Students have the right to seek clarification regarding their transfer evaluation and may request the reconsideration of any aspect of that evaluation. In response, the college will follow established practices and processes for reviewing its transfer credit decisions.
4. Students who encounter other transfer difficulties have the right to seek resolution. Each institution will have a defined process for resolution that is published and readily available to students.
5. Students have the responsibility to complete all materials required for admission and to submit the application on or before the published deadlines.
6. Students have the responsibility to plan their courses of study by referring to the specific published degree requirements of the college or academic program in which they intend to earn a bachelor's degree.
7. When a student changes a major or degree program, the student assumes full responsibility for meeting the new requirements.
8. Students who complete the general education requirements at any public four-year institution of higher education in Washington, when admitted to another public four-year institution, will have met the lower-division general education requirements of the institution to which they transfer.

### College and University Rights and Responsibilities

1. Colleges and universities have the right and authority to determine program requirements and course offerings in accordance with their institutional missions.
2. Colleges and universities have the responsibility to communicate and publish their requirements and course offerings to students and the public, including information about student transfer rights and responsibilities.
3. Colleges and universities have the responsibility to communicate their admission and transfer-related decisions to students in writing (electronic or paper).

## Transfer Agreements

Seattle Colleges has partnerships and transfer agreements with numerous other in-state and out-of-state four-year institutions and is continually developing new ones.

For the most accurate list of all transfer agreements, visit the Advising and Transfer Centers or [seattlecolleges.edu/programs/college-transfer](http://seattlecolleges.edu/programs/college-transfer).

### Direct Transfer Agreements with Baccalaureate Institutions

The baccalaureate (four-year) colleges and universities in Washington state listed below subscribe to the Intercollege Relations Commissions (ICRC) guidelines for direct transfer agreement (DTA). Seattle Colleges offers both Associate of Arts and Associate of Science DTA degrees that meet ICRC guidelines. The DTA associate degrees are recognized as fulfilling most, if not all, of the general education requirements for these institutions. Students who complete a DTA will normally be granted junior standing upon admission. Students should check with their intended transfer institution for further details regarding any additional general education, major prerequisites, and admission requirements. This list is subject to change. See your advisor for updated information and details of transfer.

### DIRECT TRANSFER AGREEMENT (DTA) ASSOCIATE DEGREE

#### Public Four-Year/Research

- University of Washington
- Washington State University

#### Public Four-Year/Comprehensive

- Central Washington University
- Eastern Washington University
- The Evergreen State College
- Western Washington University

#### Independent/Private Four-Year

- Bastyr University
- Gonzaga University
- Heritage University
- Northwest University
- Pacific Lutheran University
- Saint Martin's University
- Seattle Pacific University
- Seattle University
- Walla Walla University
- WGU Washington
- Whitworth University

#### Tribal Colleges and Universities

- Northwest Indian College

**ASSOCIATE OF SCIENCE – TRANSFER (A.S.-T) DEGREES****A.S.-T Track 1****Public Four-Year/Research**

- University of Washington
- Washington State University

**Public Four-Year/Comprehensive**

- Central Washington University
- Eastern Washington University
- The Evergreen State College
- Western Washington University

**Independent/Private Four-Year**

- Heritage University
- Pacific Lutheran University
- Saint Martin's University
- Seattle Pacific University
- Seattle University
- Walla Walla University
- Whitworth University

**ASSOCIATE OF SCIENCE – TRANSFER (A.S.-T) DEGREES****A.S.-T Track 2****Public Four-Year/Research**

- University of Washington
- Washington State University

**Public Four-Year/Comprehensive**

- Central Washington University
- Eastern Washington University
- The Evergreen State College
- Western Washington University

**Independent/Private Four-Year**

- Gonzaga University
- Heritage University
- Saint Martin's University
- Seattle Pacific University
- Seattle University
- Walla Walla University

**MAJOR RELATED PROGRAMS (MRPS) BASED ON THE DTA OR A.S.-T**

- Biology DTA/MRP

**Public Four-Year/Research**

- University of Washington
- Washington State University

**Public Four-Year/Comprehensive**

- Central Washington University
- Eastern Washington University
- The Evergreen State College
- Western Washington University

**Independent/Private Four-Year**

- Saint Martin's University
- Seattle Pacific University
- Seattle University
- Whitworth University

**BUSINESS DTA/MRP****Public Four-Year/Research**

- University of Washington
- Washington State University

**Public Four-Year/Comprehensive**

- Central Washington University
- Eastern Washington University
- The Evergreen State College
- Western Washington University

**Independent/Private Four-Year**

- Gonzaga University
- Heritage University
- Pacific Lutheran University
- Saint Martin's University
- Seattle Pacific University
- Seattle University
- Walla Walla University
- Whitworth University

**COMPUTER SCIENCE DTA/MRP****Public Four-Year/Research**

- University of Washington
- Washington State University

**Public Four-Year/Comprehensive**

- Central Washington University
- Eastern Washington University
- The Evergreen State College
- Western Washington University

**Independent/Private Four-Year**

- Gonzaga University
- Heritage University
- Pacific Lutheran University
- Seattle Pacific University
- Seattle University
- Whitworth University

**Community and Technical Colleges**

- Bellevue College
- North Seattle College

**CONSTRUCTION MANAGEMENT DTA/MRP****Public Four-Year/Research**

- University of Washington
- Washington State University

**Public Four-Year/Comprehensive**

- Central Washington University
- Eastern Washington University

**ENGINEERING A.S.-T 2/MRP****Public Four-Year/Research**

- University of Washington
- Washington State University

**Public Four-Year/Comprehensive**

- Eastern Washington University
- Western Washington University

**Independent/Private Four-Year**

- Gonzaga University
- Saint Martin's University
- Seattle Pacific University
- Seattle University
- Walla Walla University

**MUSIC DTA/MRP****Public Four-Year/Research**

- University of Washington
- Washington State University

**Public Four-Year/Comprehensive**

- Central Washington University
- Eastern Washington University
- The Evergreen State College
- Western Washington University

**NURSING RN-B.S.N. DTA/MRP****Public Four-Year/Research**

- University of Washington
- Washington State University

**Public Four-Year/Comprehensive**

- Western Washington University

**Independent/Private Four-Year**

- Saint Martin's University
- WGU Washington

**Community and Technical Colleges**

- Bellevue College
- Columbia Basin College
- Olympic College
- Wenatchee Valley College

**PRE-NURSING DTA/MRP****Public Four-Year/Research**

- University of Washington
- Washington State University
- Independent/Private Four-Year
- Pacific Lutheran University
- Saint Martin's University
- Seattle Pacific University
- Seattle University
- Walla Walla University

**Public Four-Year/Research**

- University of Washington-Seattle
- Washington State University

**Independent/Private Four-Year**

- Pacific Lutheran University
- Seattle Pacific University
- Seattle University
- Walla Walla University

**Transfer Opportunities at North and South****Bachelor's Degree Program Partnerships with North**

- Washington State University Online: Various online degrees

**Bachelor's Degree Program Partnerships with South**

- Eastern Washington University: B.S. in Technology, Applied Technology Option

“During my time attending both South Seattle College and North Seattle College, I was surrounded by supportive, educated instructors who not only want to see you win but are accommodating and willing to go the extra mile. These instructors kept me excited about my journey and made me want to continue — I went from a high school (teen mom) drop out to a successful Compliance Specialist with a RCPM BAS degree! Start here, and you will go wherever your heart desires.”

— Keandra P.

# College Transfer – North Seattle College

## Academic Programs

(206) 934-7306

[www.northseattle.edu/programs/college-transfer](http://www.northseattle.edu/programs/college-transfer)

North Seattle College offers a full range of college transfer courses that apply toward a four-year program of study. In addition to the Associate of Arts (A.A.) and Associate of Science (A.S.) degrees, North also offers an Associate in Business (A.B.) degree and an Associate of Fine Arts (A.F.A.) degree in Art. For detailed information on the A.A. degree, see page 18.

Students are encouraged to complete a two-year degree program for greater ease of transfer to a four-year institution but can take individual classes for transfer. It is strongly recommended that students confer with an academic advisor to ensure course transferability.

Students planning to earn an A.A., A.F.A., A.B., or A.S. degree must meet minimum standards of preparation. Those whose records and test scores indicate a need for additional preparation may be required to complete preliminary work in the college preparatory program.

College transfer courses are offered in several disciplines.

## Associate of Arts (A.A.)

### Direct Transfer Agreement

This 90-credit transfer degree fulfills the general education requirements for most four-year degrees in arts and sciences. To earn the A.A. degree, students must achieve a minimum cumulative GPA of 2.0 or better in courses numbered 100 and above, complete at least 15 credits at the Seattle College (Central, North, or South) awarding the degree, and meet all the degree requirements. Students should contact an advisor to develop their individual programs of study.

See page 18 for college transfer course requirements for A.A. or A.S. degree.

## Associate of Science Transfer (A.S.)

This degree is designed to transfer to a four-year college or university in the state of Washington.

A.S. degree requirements include satisfactory completion of at least 90 approved credits with a minimum 2.0 cumulative GPA. At least 15 college-level credits must be earned at the Seattle College awarding the degree.

Two different study options are offered:

1. Biological sciences, environmental/resources sciences, chemistry, geology, and earth sciences
2. Engineering, computer science, physics, and atmospheric science.

Course requirements and GPAs vary from one transfer university to another. Contact an advisor.

## Associate of Science (A.S.)

The Associate of Science (A.S.) is a direct transfer agreement. However, there are certain major areas of study in which the student may not be able to take all the courses necessary to transfer with junior standing. Please contact an advisor for more information on this degree program.

A.S. degree requirements include satisfactory completion of at least 90 approved credits with a minimum 2.0 cumulative GPA. At least 15 college-level credits must be earned at the Seattle College awarding the degree.

## Associate in Business (A.B.–DTA)

### Direct Transfer Agreement

**Workforce Instruction Division**  
(206) 934-3730

Students who complete the A.B. can fulfill many of the general education and business major prerequisites required for many Washington state public four-year college and university business programs.

A.B. degree requirements include satisfactory completion of at least 90 approved credits with a minimum 2.0 cumulative GPA. At least 15 college-level credits must be earned at the Seattle College awarding the degree.

Note: While many Washington state universities accept transfer of this degree, each has individual requirements and/or acceptable course substitutions needed for its specific program. Admission to many business schools is competitive, and higher grades are often required. It is essential to learn the requirements of your transfer school and to consult Advising.

**GENERAL EDUCATION COURSES**

ENGL& 101	English Composition I .....	5
ENGL& 102	Composition II .....	5
COMMUNICATION SKILLS .....		10
MATH 116	Applied Mathematics .....	5
Following can be substituted:		
	MATH&141 Precalculus I .....	5
QUALITATIVE/SYMBOLIC REASONING .....		5
Choose from a minimum of two different prefixes with no more than 10 credits in a discipline area.		
VISUAL, LITERARY, AND PERFORMING ARTS .....		15
ECON& 201	Micro Economics .....	5
ECON& 202	Macro Economics .....	5
Non-ECON course .....		5
INDIVIDUAL, CULTURES, AND SOCIETIES .....		15
MATH& 148	Business Calculus .....	5
Following can be substituted:		
	MATH&151 Calculus I .....	5
	-OR- MATH&124 Calculus w/Geometry II .....	5
Physical, Biological, and/or Earth Sciences .....		10
Note: Must include at least one 5-credit laboratory course		
THE NATURAL WORLD .....		15
ACCT& 201	Financial Accounting I .....	5
ACCT& 202	Financial Accounting II .....	5
ACCT& 203	Managerial Accounting .....	5
BUS& 201	Business Law .....	5
BUS& 210	Business Statistics .....	5
BUSINESS COURSES .....		25
U.S. CULTURES .....		5
TOTAL PROGRAM CREDITS .....		90

**Fine Arts in Art**

**Arts, Humanities and Social Sciences**

A Certificate of Fine Arts is offered in Art, Jewelry Design, and an Associate of Fine Arts degree is offered in Art.

Candidates for the Associate of Fine Arts degree in Art must complete a minimum of 100 college transfer-level courses (numbered 100 and above) with a GPA of 2.0 or higher.

At least 15 credits must be earned at North Seattle College (NSC). The last quarter must be in residence at NSC.

The Associate of Fine Arts (A.F.A.) degree certifies completion of approved coursework. It is suitable for students currently working in art but does not currently transfer with the same transfer rights to area colleges as the NSC Associate of Arts (A.A.) degree. However, it is accepted by Evergreen State College and some other colleges with transfer rights similar to those of the A.A. Students seeking a Bachelor of Arts or a Bachelor of Fine Arts should consult NSC A.A. degree requirements, their art advisor, and the university in which they intend to enroll about equivalency requirements. Since university requirements for admission may change annually, the students must keep themselves informed of these changes.

The A.F.A. in Art requires General Education courses as follows: ENGL&101 and one of the following computation courses: MATH&107 or above, BUS 116, ACCT 110 or above. Students must also complete 10 credits in two of the three distribution areas: 5 from Visual, Literary, and Performing Arts other than ART courses; 5 from Individuals, Cultures, and Societies; and 5 from The Natural World. There are also 45 required ART credits and a minimum of 25 ART electives. Some of the art courses are offered only once a year, so students should consult the annual schedule (e.g., ART 251, Fall; ART 252, Winter; ART 253, Spring; ART 101, Spring; ART 112 and ART 205, 206, 207, Winter and Spring but not Fall). During the final quarter, students must submit a portfolio of work of at least eight pieces for evaluation. The art faculty will provide exact details on portfolio preparation and will review and vote on acceptability toward the degree.

All A.F.A. students in art must have an art advisor to plan their program. The art advisor is Lynne Hull. Some of the art courses are offered only once a year, so students should consult the annual schedule (e.g., ART 251, Fall; ART 252, Winter; ART 253, Spring; ART 101, Spring; ART 112 and ART 205, 206, 207, Winter and Spring but not Fall). All studio art courses must be taken in sequence; however, art history courses may be taken in any order. Substitutions may be made only with the approval of the art faculty and the Arts, Humanities & Social Sciences dean, and requests for such substitutions must be made on the request for waiver form.

Listed below is a possible course sequence for the A.F.A. degree in Art; however, it may be necessary to take courses out of sequence as the quarterly schedule dictates. For more information about program or the annual schedule, contact the Humanities Division at (206) 934-3709.

**Associate of Fine Arts (A.F.A) in Art**

**REQUIRED COURSES**

ART 101	Design .....	5
ART 102	Design .....	5
ART 111	Drawing .....	5

ART 112	Drawing .....	5
ART 114 Beginning Digital Photography, ART 121 Beginning Printmaking, ART 201 Beginning Painting, or ART 211 Beginning Sculpture .....		
ART 2XX	Choose two art history courses from the following: ART 251 Art History – Ancient, ART 252 Art History – Medieval, ART 253 Art History – Modern, ART 255 Art History – Art of Asia, ART 257 Art History – Art of the Global South .....	10
ART 210	Digital & Graphic Art – Photoshop + Illustrator.....	5
ART 251	Art History .....	5
Following can be substituted: ART 252 – Art History .....		
Art History courses are taught at Seattle Central or other college.		
ART 253	Survey of Western Art: Renaissance – Present ..	5
Art History courses are taught at Seattle Central or other college.		
ART 290	The Art Business.....	5

**GENERAL EDUCATION COURSES**

Individuals, Cultures & Societies .....	5
The Natural World .....	5
Computation Course .....	5
Select 5 credits from notated courses below: MATH 107 (or above), BUS 116 (or above), ACCT 110 (or above) .....	
ENGL&101 English Composition I .....	5
ENGL&102 Composition II .....	5

**ART ELECTIVES GROUP 1: 2-DIMENSIONAL ART**

Approved Art electives must be taken in sequence; however, completion of a sequence is not required.

ART 113	Drawing .....	5
ART 114	Introduction to Digital Photography I .....	5
ART 115	Introduction to Digital Photography II.....	5
ART 121	Introduction to Printmaking .....	5
ART 122	Introduction to Printmaking – Intermediate ...	5
ART 123	Continuing Printmaking: Monotype and Monoprint.....	5
ART 124	Screen Printing.....	5
ART 201	Painting .....	5
ART 202	Painting .....	5
ART 203	Painting .....	5
ART 204	Mural Art .....	5
ART 214	Digital & Graphic Art – Intermediate.....	5
ART 215	Advanced Digital Art .....	5
ART 166	Video Art .....	5
ART 240	Book Arts .....	5
<b>GROUP 1 - 2-DIMENSIONAL ART</b>		<b>MINIMUM 5</b>

**ART ELECTIVES GROUP 2: 3-DIMENSIONAL ART**

Approved Art Electives must be taken in sequence; however, completion of a sequence is not required.

ART 211	Sculpture .....	5
ART 212	Sculpture .....	5
ART 213	Sculpture .....	5
ART 221	Ceramic Art .....	5
ART 222	Ceramic Art .....	5
ART 223	Ceramic Art .....	5
ART 281	Jewelry Design I.....	5
ART 282	Jewelry Design II .....	5
ART 283	Introduction to Alloying and Jewelry Casting ..	5
ART 284	Bench Techniques and Practices .....	5
ART 285	Metal Techniques for Small Scale Sculpture ...	5

**GROUP 2 - 3-DIMENSIONAL ART** **MINIMUM 5**

**ELECTIVES BETWEEN GROUP 1 AND GROUP 2** **MINIMUM 25**

**TOTAL PROGRAM CREDITS** **MINIMUM 90 + PORTFOLIO**

**Liberal Arts**

**North Seattle College Academic Advising**

The Associate of Arts (A.A.) is a flexible degree that prepares students to transfer to a four-year institution in a variety of majors related to the humanities, literature, political science, psychology, sociology, and more. A.A. degree students receive a broad education in English composition, quantitative reasoning, and social and natural sciences. Students complete 90 credits, tailored to meet individual academic goals. Students are strongly encouraged to meet with an advisor to discuss specific career goals and recommended coursework.

**Associate of Arts (A.A.)**

**ELECTIVES**

See advisor for list of approved courses.

**AREAS OF KNOWLEDGE DISTRIBUTION REQUIREMENTS**

See advisor for list of approved course, or use links below.

**Science**

**North Seattle Academic Advising**

The Associate of Science Degree: Option 1 is intended for students planning to transfer to a four-year college or university and major in biology, environmental/resource sciences, chemistry, geology, or earth sciences.

Students will complete 90 credits, including many of the laboratory and prerequisite courses for their major prior to transferring. Students are strongly encouraged to meet with an advisor to discuss specific career goals and recommended coursework.

**BASIC REQUIREMENTS – MATHEMATICS**

Choose five credits from the following courses:

MATH 116	Applications of Math: Management, Life, and Social Sciences. ....	5
MATH& 141	Pre-Calculus I . . . . .	5
MATH& 142	Pre-Calculus II . . . . .	5
MATH& 148	Business Calculus . . . . .	5
MATH& 151	Calculus I . . . . .	5
MATH& 152	Calculus II . . . . .	5
MATH 220	Linear Algebra . . . . .	5
MATH 224	Vector Calculus. . . . .	5

**BASIC REQUIREMENTS – COMPUTER SCIENCE**

Choose 5 credits from the following courses:

CSC 110	Introduction to Computer Programming . . . . .	5
CSC 111	Computers for Math and Science. . . . .	5
CSC 142	Computer Programming I . . . . .	5
CSC 143	Computer Programming II . . . . .	5
ENGR 142	Computer Programming . . . . .	5

**Associate of Science (A.S.)**

**BASIC REQUIREMENTS – ENGLISH**

ENGL& 101	English Composition I . . . . .	5
ENGL& 102	Composition II . . . . .	5

**AREAS OF KNOWLEDGE DISTRIBUTION REQUIREMENTS**

See advisor for list of approved courses or use links below.

Visual, Literary, and Performing Arts . . . . .	15
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Courses in this area include languages, literature, art, music, drama, and communication. Choices must include a minimum of two different course prefixes and no more than 5 credits each of a world language at the 100 level; a studio/performance class may be applied to the distribution requirements.

Individual, Cultures, and Societies . . . . .	15
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Courses in this area include social sciences, such as anthropology, psychology, and sociology, as well as areas of study like history, philosophy, and ethnic and gender studies. Choices must include a minimum of two different course prefixes.

**PRE-MAJOR REQUIREMENTS**

Course selection should be in compliance with major requirements as indicated by the four-year institution to which the student is planning to transfer. See an advisor or counselor prior to beginning your program of study.

The Natural World . . . . .	40
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Courses in this area include physical and life sciences and certain mathematics, computer science, and social science courses. Choices must include a minimum of two different prefixes; 9 credits must be in a lab science.

**ELECTIVES**

See advisor for list of approved courses.

Elective . . . . .	5
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**Special Opportunities for Upper-Division and Graduate Courses**

**Eastern Washington University at North**

(509) 359-6254 (EWU Department of Engineering & Design [ewu.edu/CSHE/Programs/Engineering/NSCCEE](http://ewu.edu/CSHE/Programs/Engineering/NSCCEE))

EWU and North offer an ABET-accredited Bachelor of Science degree in Electrical Engineering on the North campus. Coursework is taught by faculty members from both schools through a series of distance education and regular classroom courses that include hands-on laboratories. To qualify, students must apply directly to EWU.

**Washington State University Online**

(206) 934-7306 North Advising

North and Washington State University (WSU) Online offer co-admission to North students who have earned an associate degree within 16 consecutive quarters and meet the minimum cumulative GPA. WSU Online offers a number of degrees that are earned completely through online classes.

**Western Washington University at North**

(206) 934-3719

[wce.wvu.edu/teop/north-seattle](http://wce.wvu.edu/teop/north-seattle)

Western Washington University’s Teacher Education Outreach program offers the following evening programs at North Seattle College: Elementary Teacher Education, B.A.E., with Special Education major and Elementary Teacher Certification.

**Western Governors’ University (WGU) – Washington**

(877) 214-7004

[washington.wgu.edu](http://washington.wgu.edu)

WGU offers associate degree graduates junior status in four baccalaureate online education pathways: education, business, information technology, and health professions. North Seattle College B.A.S. program graduates may also qualify for reduced tuition when enrolling in WGU Washington graduate education programs.



# College Transfer – Seattle Central College

## Transfer Academic Programs (206) 934-5469

[www.seattlecentral.edu/programs/college-transfer](http://www.seattlecentral.edu/programs/college-transfer)

Seattle Central College offers a wide spectrum of college transfer courses that apply toward a four-year program of study. Students are encouraged to earn their Associate of Arts or Associate of Science degree at Seattle Central College for greater ease of transfer to a four-year institution; they may also take individual classes for transfer. It is recommended that students confer with an academic advisor to ensure course transferability.

Students planning to earn an A.A. or A.S. degree must meet minimum standards of preparation. Those whose records and test scores indicate a need for additional preparation may be required to complete preliminary work in the college preparatory program.

These fields of study are grouped among three areas of knowledge and are included throughout the A.A. degree curriculum.

See page 27 for more information on A.A. and A.S. degree requirements.

## Associate of Arts Degree (A.A.)

The Associate of Arts (A.A.) degree is a 90-credit transfer degree that fulfills the general education requirements for most four-year degrees in arts and sciences. To earn the A.A. degree, students must achieve a cumulative GPA of 2.0 or better in courses numbered 100 and above, complete at least 15 credits at one of the colleges (North, Central, or South) awarding the degree, and meet all degree requirements. Students should contact an advisor to develop their programs of study.

## Special Emphasis Areas in Academic Programs

Students planning to transfer to a four-year institution and pursue a specific field of study should work closely with their advisor to plan their Associate of Arts (A.A.), Associate of Science (A.S.), or Associate of Business (A.B.) degree. Students can earn an emphasis in conjunction with a transfer degree without taking additional credits. Students can also earn an emphasis while earning a dual degree for an A.A. and A.A.S.-T. in Allied Health: Generalist. No additional credits are required for the dual degree or emphasis. The dual degree can be used as a pathway to the Community Health & Education and Health Care Services Management Bachelor of Applied Science (B.A.S.) in Allied Health programs. Advising worksheets are available as planning tools for students to earn an emphasis in their degree.

Please see Advising for more information.

## Emphasis in Equity and Social Justice

The Equity and Social Justice emphasis can be completed with either the A.A. or A.S. transfer degree and focuses on understanding social movements in society while helping build critical reasoning and analytical skills. It prepares students to work or study in a variety of local or international fields dedicated to diversity, equity, and social change.

## Emphasis in Global Health

The Global Health emphasis can be completed within either the A.A. or A.S. transfer degree and places a priority on improving health and achieving health equity. The focus is on worldwide health access and improvement, reduction of disparities, and protection against global health challenges. It prepares students to work with diverse populations, provide international service, and understand the nuances of global health care.

## Emphasis in Global Studies

This emphasis can be completed within either the A.A. or A.S. transfer degree and integrates the study of politics, economics, and the arts with the analysis of cultural practices, beliefs, and social systems. Students learn to appreciate and understand world cultures, focus on themes of global significance, and develop an interdisciplinary approach to international issues.

## Emphasis in Technical Theatre for Social Justice

This emphasis can be completed within the A.A. transfer degree and integrates the study and training in technical theatre and film elements including costumes and properties fabrication, stage lighting, electrics, projections, audio engineering, and scenic carpentry and painting, while studying topics such as contemporary moral problems, principles of environmental sustainability and applied social and cultural change. Students work alongside Union professionals on Intiman's mainstage productions and in local theatres, while studying equity and social justice at the college.

## Dual Degree Pathways

Seattle Central College offers dual degree pathways so that students can earn two degrees at the same time without taking extra credits. Students can earn an Associate of Arts (A.A.-DTA) and Associate of Applied Science (A.A.S.-T) in Allied Health at the same time by earning 90 credits. Pathways can also include a degree emphasis in Global Health or Equity and Social Justice.

These degree pathways can lead to the Community Health & Education and Health Care Services Management Bachelor of Applied Science (B.A.S.) in Allied Health programs. Contact AlliedHealthBAS@seattlecolleges.edu for more information about the B.A.S. program.

- **A.A.-DTA & A.A.S.-T in Allied Health: Generalist**  
[seattlecentral.edu/pdf-library/dual-degrees/AA-DTA-allied-health-dual-degree-pathway.pdf](https://seattlecentral.edu/pdf-library/dual-degrees/AA-DTA-allied-health-dual-degree-pathway.pdf)
- **A.A.-DTA: Global Health Emphasis and A.A.S.-T in Allied Health: Generalist**  
[seattlecentral.edu/pdf-library/dual-degrees/global-health-dual-degree.pdf](https://seattlecentral.edu/pdf-library/dual-degrees/global-health-dual-degree.pdf)
- **A.A.-DTA: Equity and Social Justice Emphasis and A.A.S.-T in Allied Health: Generalist**  
[seattlecentral.edu/pdf-library/dual-degrees/equity-and-social-justice-dual-degree.pdf](https://seattlecentral.edu/pdf-library/dual-degrees/equity-and-social-justice-dual-degree.pdf)
- **A.A.-DTA & A.A.S.-T in Allied Health Pre-Physician Assistant Preparation Pathway**  
[seattlecentral.edu/pdf-library/dual-degrees/prepa-prep-pathway-dual-degree.pdf](https://seattlecentral.edu/pdf-library/dual-degrees/prepa-prep-pathway-dual-degree.pdf)

### Student Steps to Complete a Dual Degree:

1. Complete the standard procedure for admission to the college and declare your intent to the college to be an A.A.-DTA student.
2. Advisors are available to help you register and plan classes.
3. Earn the Care Navigation and Coordination certificate for A.A.-DTA and A.A.S.-T in Allied Health: Generalist dual degrees OR Earn the Nursing Assistant – Certified certificate for the A.A.-DTA and A.A.S.-T in Allied Health Pre-Physician Assistant Preparation Pathway.
4. Apply to the A.A.S.-T in Allied Health: Generalist program. <https://healthcare.seattlecentral.edu/programs/allied-health/get-started>.
5. Submit the A.A.-DTA Application for Graduation and the A.A.S.-T in Allied Health: Generalist Application for Graduation (available in Registration) one quarter prior to anticipated graduation date. [seattlecentral.edu/enrollment-and-funding/enrollment-and-admissions/registration/graduation/forms](https://seattlecentral.edu/enrollment-and-funding/enrollment-and-admissions/registration/graduation/forms).

## Associate of Science Transfer (A.S.) Degree

The Associate of Science (A.S.) is designed to transfer to a four-year college or university in the state of Washington. A.S. degree requirements include satisfactory completion of at least 90 approved credits with a 2.0 cumulative GPA. At least 15 college-level credits must be earned at the college awarding the degree.

Two different study options are offered:

1. biological sciences, environmental/resources sciences, chemistry, geology, and earth sciences
2. engineering, computer science, physics, and atmospheric science.

Please contact an advisor more information on this program.

## Associate of Science (A.S.) Degree

The Associate of Science (A.S.) is intended to be a transfer degree. However, there are certain major areas of study in which the student may not be able to take all the courses necessary to transfer with junior standing. Please contact an advisor for more information on this degree program.

A.S. degree requirements include satisfactory completion of at least 90 approved credits with a 2.0 cumulative GPA. At least 15 college-level credits must be earned at the college awarding the degree.

## Associate in Business – Direct Transfer Agreement (A.B.-DTA)

The Associate in Business (A.B.) is a transfer degree for students planning to transfer to a four-year college or university and major in Accounting, Business Administration, Marketing, or a related major.

The A.B. transfer degree is 90 college-level credits, and students will complete their prerequisite courses as part of this transfer degree. Students are strongly encouraged to meet with an advisor to discuss specific career goals and recommended coursework.

“ I’ll remember the friendships I’ve formed, the teachers turned mentors, and the diversity of the student body that has enhanced my perspective of the world. ”

– Monica A.

## Associate in Business Requirements

This degree shall be granted only to students who have completed 90 college-level credits with a minimum cumulative 2.0 GPA.

Note: While many Washington state universities accept transfer of this degree, each has individual requirements and/or acceptable course substitutions needed for its specific programs. Also, admission to many business schools is competitive, and higher grades are often required. It is essential to learn the requirements of your transfer school and to consult Advising.

### BASIC REQUIREMENTS

ENGL& 101	English Composition	5
ENGL& 102	Composition II	5
MATH 116	Applications of Math: Management, Life & Social Sciences	5

The following MATH courses are taken together.

Minimum 10 credits in MATH is required.

MATH 116 and MATH&148

-OR- MATH&141, MATH&142, and MATH&151

This course meets the quantitative/symbolic reasoning requirement.

MATH& 141	Precalculus I	5
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The following MATH courses are taken together.

Minimum 10 credits in MATH is required.

MATH 116 and MATH&148

-OR- MATH&141, MATH&142, and MATH&151

This course meets the quantitative/symbolic reasoning requirement.

MATH& 142	Precalculus II	5
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The following MATH courses are taken together.

Minimum 10 credits in MATH is required.

MATH 116 and MATH&148

-OR- MATH&141, MATH&142, and MATH&151

This course meets the quantitative/symbolic reasoning requirement.

MATH& 148	Business Calculus	5
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The following MATH courses are taken together.

Minimum 10 credits in MATH is required.

MATH 116 and MATH&148

-OR- MATH&141, MATH&142, and MATH&151

This course meets the quantitative/symbolic reasoning requirement.

MATH& 151	Calculus I	5
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The following MATH courses are taken together.

Minimum 10 credits in MATH is required.

MATH 116 and MATH&148

-OR- MATH&141, MATH&142, and MATH&151

This course meets the quantitative/symbolic reasoning requirement.

### BUSINESS REQUIREMENTS

ACCT& 201	Principles of Accounting I	5
ACCT& 202	Principles of Accounting II	5
ACCT& 203	Principles of Accounting III	5
BUS& 201	Business Law	5

### AREAS OF KNOWLEDGE DISTRIBUTION REQUIREMENTS

Total of 15 credits for each of the three areas of knowledge is required.

- Visual, Literary, and Performing Arts

- Individuals, Cultures, and Societies

- Natural World

One course taken should also be able to fulfill the U.S. Cultures special requirement.

ECON& 201	Micro Economics	5
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Credits from this class applied toward the 15 credits required for Individuals, Cultures, and Societies.

ECON& 202	Macro Economics	5
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Credits from this class applied toward the 15 credits required for Individuals, Cultures, and Societies.

MATH& 146	Introduction to Statistics	5
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Following can be substituted:

BUS 210	Bus & Econ Statistic	5
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Credits from this class applied toward the 15 credits required for Natural World

Visual, Literary, and Performing Arts	15
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Minimum of two different subjects.

Individual, Cultures, and Societies	5
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Select course with a non-ECON prefix from the list from approved courses.

The Natural World	5
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Minimum of two different subjects.

Natural World – Lab Science	5
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Minimum of two different subjects.

### ELECTIVES

Elective	5
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Only necessary to meet the 90 credit minimum.

Course taken should also be able to fulfill the U.S. Cultures special requirement if it is not met by course taken under areas of knowledge.

*Note: While many Washington state universities accept transfer of this degree, each has individual requirements and/or acceptable course substitutions needed for its specific programs. Also, admission to many business schools is competitive, and higher grades are often required. It is essential to learn the requirements of your transfer school and to consult Advising Services.*

## Engineering

### Science, Technology, Engineering, and Math (STEM) Division

The Associate of Science degree: Option 2 is intended for students planning to transfer to a four-year college or university and major in engineering, computer science, physics, or atmospheric science.

Students complete 90 credits, including many of the laboratory and prerequisite courses for their major prior to transferring. Students are strongly encouraged to meet with an advisor to discuss specific career goals and recommended coursework.

### Associate of Science (A.S.) Degree

#### BASIC REQUIREMENTS – ENGLISH

ENGL& 101	English Composition	5
ENGL& 102	Composition II	5

#### BASIC REQUIREMENTS – MATHEMATICS

Choose 5 credits from the following courses:

MATH 116	Applications of Math: Management, Life & Social Sciences	5
MATH& 141	Precalculus I	5
MATH& 142	Precalculus II	5
MATH& 148	Business Calculus	5
MATH& 151	Calculus I	5
MATH& 152	Calculus II	5
MATH 220	Q – Linear Algebra	5
MATH 224	Q – Vector Calculus	5

#### BASIC REQUIREMENTS – COMPUTER SCIENCE

Choose 5 credits from the following courses:

CSC 110	Introduction to Computer Programming	5
CSC 111	Computers for Math and Science	5

CSC 142	Computer Programming I	5
CSC 143	Computer Programming II	5
ENGR 142	Computer Programming	5

#### AREAS OF KNOWLEDGE DISTRIBUTION REQUIREMENTS

See advisor for list of approved courses or use links below.

Visual, Literary, and Performing Arts	5
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Courses in this area include languages, literature, art, music, drama, and communication. Choices must include a minimum of two different course prefixes, and no more than 5 credits each of a world language at the 100 level and a studio/performance class may be applied to the distribution requirements.

Individual, Cultures, and Societies	5
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Courses in this area include social sciences, such as anthropology, psychology, and sociology, as well as areas of study like history, philosophy, and ethnic and gender studies. Choices must include a minimum of two different course prefixes.

#### PRE-MAJOR REQUIREMENTS

Course selection should be in compliance with major requirements as indicated by the four-year institution to which the student is planning to transfer. See an advisor or counselor prior to beginning your program of study.

The Natural World	5
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Courses in this area include physical and life sciences and certain mathematics, computer science, and social science courses. Choices must include a minimum of two different prefixes; 9 credits must be in a lab science.

#### ELECTIVES

See advisor for list of approved courses.

Elective	5
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# College Transfer – South Seattle College

## College Transfer Programs (206) 934-6600

[www.southseattle.edu/programs/college-transfer](http://www.southseattle.edu/programs/college-transfer)

South Seattle College offers the Associate of Arts (A.A.) degree to meet the general education requirements for four-year baccalaureate degrees in arts and sciences. In addition to the general A.A. degree, the college offers an A.A. an Associate in Business – Direct Transfer Agreement/Major-Ready Program (A.B.-DTA/MRP). The college also offers an Associate of Science (A.S.) transfer degree, with several major-specific pathways (or “tracks”), which include Biology, Chemistry, Computer Science, Physics, and various Engineering specialties. Students should contact an advisor for details.

Students are encouraged to attain an Associate of Arts or Associate of Science transfer degree at South in order to ease transfer to a four-year institution, but students may also take individual classes for transfer. Students should confer with an academic advisor to ensure course transferability to their target four-year institution.

Students may be required to complete work in the college preparatory program if their records and placement indicate a need for additional preparation in order to complete a degree program. College preparatory courses are not credited toward transfer degree requirements. College transfer courses at South Seattle College are offered in several disciplines, including the following:

*See page 27 for college transfer course requirements for A.A. or A.S. degree.*

## Associate of Arts (A.A.) Degree Direct Transfer Agreement

The Associate of Arts (A.A.) degree is a 90-credit transfer degree that fulfills the general education requirements for most four-year degrees in arts and sciences. To earn the A.A. degree, students must achieve a cumulative grade point average of 2.0 or better in courses numbered 100 and above, complete at least 15 credits at the college awarding the degree, and meet the requirements outlined below.

Students should contact college advising offices for listings of courses that satisfy degree requirements. Students planning to transfer to a four-year institution should be aware that they must complete all admission requirements for their destination institution. In addition, students are encouraged to give early consideration to possible majors and obtain information about requirements for these majors at their destination college or university.

### BASIC REQUIREMENTS

Total Basic Requirements of 15 credits is comprised of 10 credits from the courses listed below and 5 credits from Quantitative/Symbolic Reasoning section that follows:

ENGL& 101	English Composition	5
ENGL& 102	Composition II	5
<b>BASIC REQUIREMENTS CREDITS</b>		<b>15</b>

### BASIC REQUIREMENTS – QUANTITATIVE/ SYMBOLIC REASONING

Students completing the QSR requirement will be able to use quantitative or symbolic reasoning to understand, analyze, interpret, and solve problems. Successful completion of any of the following classes satisfies the QSR requirement for Seattle Colleges. These courses may also satisfy the QSR requirement at baccalaureate institutions. Students should check the requirements of their destination institution.

Select five credits from the courses listed below:

MATH& 107	Math in Society	5
If using MATH&107 to meet both the IA proficiency requirement and the QSR requirement, students must earn a minimum 2.0 grade in the course.		
MATH 116	Q Applications of Math to Management Life & Social Sciences	5
MATH& 131	Math for Elementary Education 1	5
MATH&131, and &132 do not meet the QSR requirement at the University of Washington.		
MATH& 132	Math for Elementary Education 2	5
MATH&131, and &132 do not meet the QSR requirement at the University of Washington.		
MATH& 141	Precalculus I	5
MATH& 142	Precalculus II	5
MATH& 146	Introduction to Statistics	5
MATH& 148	Business Calculus	5
MATH& 151	Calculus I	5
MATH& 152	Calculus II	5
MATH& 163	Calculus III	5
MATH 220	Q – Linear Algebra	5
MATH 224	Q – Vector Calculus	5
MATH 238	Q – Differential Equations	5
PHIL& 120	Symbolic Logic	5
<b>QUANTITATIVE/SYMBOLIC REASONING CREDITS</b>		<b>5</b>

### ELECTIVES

Electives include:

- All college transfer courses numbered 100 or above
- Accounting, business administration and transfer engineering classes
- Physical Education activity courses (3-credit maximum)
- A maximum of 15 credits from a combination of the following:
  - Workforce Education Career and Technical courses numbered 100 and above
  - Human Development courses (HDC) numbered 100 and above (6-credit maximum)
  - Library research courses (6-credit maximum)
  - Cooperative Work Experience (CWE) courses numbered 100 and above (5-credit maximum)

<b>ELECTIVES PROGRAM CREDITS</b>	<b>30</b>
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**AREAS OF KNOWLEDGE DISTRIBUTION**

Visual, Literary, and Performing Arts . . . . .	15
Choices must include a minimum of two different course prefixes, and no more than 5 credits each of a world language at the 100 level and a studio/performance class may be applied to the distribution requirements.	
Individual, Cultures, and Societies . . . . .	15
Choices must include a minimum of two different course prefixes.	
The Natural World . . . . .	15
Choices must include a minimum of two different prefixes; 5 credits must be in a lab science. Students may choose up to 5 credits from the following list of courses: Anthropology, Computer Science, Engineering, Geography, Mathematics, Philosophy OR Psychology.	

AREAS OF KNOWLEDGE DISTRIBUTION CREDITS 45

TOTAL PROGRAM CREDITS 90

It is essential to learn the requirements of your transfer school and to consult Advising Services.

**Associate of Science (A.S.) Transfer Degree – Pre-Major Program**

This two-year Associate of Science degree program is designed for those who intend to pursue a bachelor’s, master’s, or doctoral degree in the following areas:

- Atmospheric Sciences
- Biological Sciences
- Chemistry
- Computer Science
- Engineering
- Environmental Sciences
- Geology
- Mathematics
- Medicine
- Pharmacy
- Physics

“ I was a high school dropout and GED recipient due to severe health issues. Seattle Colleges gave me a second chance at receiving an education. ”  
– Nyah A.

**BASIC REQUIREMENTS**

Select from the following depending on pre-major area:

ENGL& 101	English Composition I . . . . .	5
MATH& 146	Introduction to Statistics . . . . .	5
MATH& 151	Calculus I . . . . .	5
MATH& 152	Calculus II . . . . .	5
<b>BASIC REQUIREMENTS CREDITS</b>		<b>20</b>

**AREAS OF KNOWLEDGE**

Courses taken must have at least three different prefixes and must be from both areas:

Visual, Literary, and Performing Arts . . . . .	5	
Individual, Cultures, and Societies . . . . .	5	
<b>AREAS OF KNOWLEDGE CREDITS</b>		<b>15</b>

**MAJOR AREAS OF STUDY**

The number of credit requirements for major areas of study vary depending on pre-major. Students should consult with an advisor before preparing their academic plan.

<b>MAJOR AREAS OF STUDY CREDITS</b>	<b>55-58</b>
<b>TOTAL PROGRAM CREDITS</b>	<b>90</b>

**Associate in Business (A.B.) Degree DTA/MRP**

The Associate in Business (A.B.) is a transfer degree for students planning to transfer to a four-year college or university and major in Accounting, Business Administration, Marketing, or a related major. The A.B. transfer degree is 90 college-level credits, and students will complete their prerequisite courses as part of this transfer degree. Students are strongly encouraged to meet with an advisor to discuss specific career goals and recommended coursework.

ENGL& 101	English Composition I . . . . .	5
ENGL& 102	Composition II . . . . .	5
MATH& 148	Business Calculus . . . . .	5
Following can be substituted:		
MATH&151	Calculus I . . . . .	5
This course meets the Quantitative/Symbolic Reasoning Requirement		
ACCT& 201	Principles of Accounting I . . . . .	5
ACCT& 202	Principles of Accounting II . . . . .	5
ACCT& 203	Principles of Accounting III . . . . .	5
BUS& 201	Business Law . . . . .	5
BUS 210	Business and Economic Statistics . . . . .	5
ECON& 201	Micro Economics . . . . .	5
Credits from this class applied toward the 15 credits required for Individuals, Cultures, and Societies.		
ECON& 202	Macro Economics . . . . .	5
Credits from this class applied toward the 15 credits required for Individuals, Cultures, and Societies.		

Visual, Literary, and Performing Arts .....	15
Minimum of two different subjects.	
No more than 5 credits in a studio/performance course and 5 credits in a foreign language.	
Recommended course: CMST&220 Public Speaking	
Individual, Cultures, and Societies .....	5
Select course with a non-ECON prefix from the list from approved courses.	
The Natural World .....	10
Minimum of two different subjects.	
Recommended course: MATH 116 Application of Math to Management, Life, & Social Sciences	
Natural World – Lab Science .....	5
Elective .....	5
Only necessary to meet the 90-credit minimum.	
Course taken should also be able to fulfill the U.S. Cultures Special Requirement if it is not met by course taken under Areas of Knowledge.	

Note: While many Washington state universities accept transfer of this degree, each has individual requirements and/or acceptable course substitutions needed for their specific programs. Also, admission to many business schools is competitive and higher grades are often required. It is essential to learn the requirements of your transfer school and to consult Advising Services.

## Associate of Science (A.S.) Degree Engineering

The Associate of Science Degree: Option 2 is intended for students planning to transfer to a four-year college or university and major in engineering, computer science, physics, or atmospheric science.

Students complete 90 credits, including many of the laboratory and prerequisite courses for their major prior to transferring. Students are strongly encouraged to meet with an advisor to discuss specific career goals and recommended coursework.

### BASIC REQUIREMENTS – ENGLISH

ENGL& 101 English Composition I .....	5
ENGL& 102 Composition II .....	5
Basic Requirements – Mathematics	
Choose five credits from the following courses:	
MATH 116 Application of Math to Management, Life, & Social Sciences .....	5
MATH& 141 Precalculus I .....	5
MATH& 142 Precalculus II .....	5
MATH& 148 Business Calculus .....	5
MATH& 151 Calculus I .....	5
MATH& 152 Calculus II .....	5
MATH 220 Linear Algebra .....	5
MATH 224 Vector Calculus .....	5

### BASIC REQUIREMENTS – COMPUTER SCIENCE

Choose 5 credits from the following courses:

CSC 110 Introduction to Computer Programming .....	5
CSC 111 Computers for Math and Science .....	5
CSC 142 Computer Programming I .....	5
CSC 143 Computer Programming II .....	5
ENGR 142 Computer Programming .....	5

### AREAS OF KNOWLEDGE DISTRIBUTION REQUIREMENTS

See advisor for list of approved courses or use links below.

Visual, Literary, and Performing Arts .....	5
Courses in this area include languages, literature, art, music, drama, and communication. Choices must include a minimum of two different course prefixes and no more than 5 credits each of a world language at the 100 level, and a studio/performance class may be applied to the distribution requirements.	
Individual, Cultures, and Societies .....	5
Courses in this area include social sciences, such as anthropology, psychology, and sociology, as well as areas of study like history, philosophy, and ethnic and gender studies. Choices must include a minimum of two different course prefixes.	
Pre-Major Requirements	
Course selection should be in compliance with major requirements as indicated by the four-year institution to which the student is planning to transfer. See an advisor or counselor prior to beginning your program of study.	
The Natural World .....	5
Courses in this area include physical and life sciences and certain mathematics, computer science, and social science courses. Choices must include a minimum of two different prefixes; 9 credits must be in a lab science.	

### ELECTIVES

See advisor for list of approved courses.

Elective .....	5
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## Associate of Science (A.S.) Degree

The Associate of Science degree: Option 1 is intended for students planning to transfer to a four-year college or university and major in biology, environmental/resource sciences, chemistry, geology, or earth sciences.

Students will complete 90 credits, including many of the laboratory and prerequisite courses for their major prior to transferring. Students are strongly encouraged to meet with an adviser to discuss specific career goals and recommended coursework.

**BASIC REQUIREMENTS – ENGLISH**

ENGL& 101 English Composition I ..... 5  
 ENGL& 102 Composition II ..... 5

**BASIC REQUIREMENTS – MATHEMATICS**

Choose five credits from the following courses:

MATH 116 Application of Math to Management,  
 Life, & Social Sciences. .... 5  
 MATH& 141 Precalculus I. .... 5  
 MATH& 142 Precalculus II ..... 5  
 MATH& 148 Business Calculus ..... 5  
 MATH& 151 Calculus I ..... 5  
 MATH& 152 Calculus II ..... 5  
 MATH 220 Linear Algebra ..... 5  
 MATH 224 Vector Calculus. .... 5

**BASIC REQUIREMENTS – COMPUTER SCIENCE**

Choose five credits from the following courses:

CSC 110 Introduction to Computer Programming ..... 5  
 CSC 111 Computers for Math and Science. .... 5  
 CSC 142 Computer Programming I ..... 5  
 CSC 143 Computer Programming II ..... 5  
 ENGR 142 Computer Programming ..... 5

**AREAS OF KNOWLEDGE DISTRIBUTION REQUIREMENTS**

See advisor for list of approved courses or use links below.

Visual, Literary, and Performing Arts ..... 15

Courses in this area include languages, literature, art, music, drama, and communication. Choices must include a minimum of two different course prefixes and no more than 5 credits each of a world language at the 100 level, and a studio/performance class may be applied to the distribution requirements.

Individual, Cultures, and Societies ..... 15

Courses in this area include social sciences, such as anthropology, psychology, and sociology, as well as areas of study like history, philosophy, and ethnic and gender studies. Choices must include a minimum of two different course prefixes.

**PRE-MAJOR REQUIREMENTS**

Course selection should be in compliance with major requirements as indicated by the four-year institution to which the student is planning to transfer. See an advisor or counselor prior to beginning your program of study.

The Natural World ..... 40

Courses in this area include physical and life sciences and certain mathematics, computer science, and social science courses. Choices must include a minimum of two different prefixes; 9 credits must be in a lab science.

**ELECTIVES**

See advisor for list of approved courses.

Elective ..... 5





## Continuing Education

Serving the community by offering a range of courses at reasonable cost, Seattle Colleges' Continuing Education programs consist of three primary components:

1. Personal enrichment
2. Professional development
3. Industry training (See Corporate & Customized Contract Training)

Continuing Education classes are mostly noncredit and nongraded. Most are taught by community members and local professionals who are experts in their fields. Classes may range from one evening to a full quarter in length. Costs vary.

Classes include areas as diverse as arts and crafts, computers, dance and exercise, food and wine, foreign languages, gardening, financial planning, leadership, business, and more. Continuing Education offers online courses as well. Industry Training courses offer you innovative education and certification for businesses in Washington State.

### CONTINUING EDUCATION CLASS SCHEDULES

**Seattle Central College:** (206) 934-5448 [ce.seattlecentral.edu](http://ce.seattlecentral.edu)

**North Seattle College:** (206) 934-3705 [learnatnorth.org](http://learnatnorth.org)

**South Seattle College:** (206) 934-5339 [learnatsouth.org](http://learnatsouth.org)

### Personal Enrichment

Enjoy a hobby and improve your skills in personal enrichment classes. Learn from instructors who are experts in their fields and meet other people with shared interests.

### Senior Adult Education

South Seattle College offers classes and discussion groups designed for senior adults. Classes normally are held during the daytime, on campus or in senior or retirement centers.

Seattle Central College's Broadway Hill Club offers classes for seniors on diverse topics during weekdays, in Seattle's vibrant Capitol Hill neighborhood, as well as online. Though classes were designed with seniors in mind, all are welcome.

### Professional Development

Advance your job skills and professional opportunities through courses led by industry experts.

### Teacher Training

*Seattle Central College* offers clock hours for K-12 educators; classes held online or on campus.

*North Seattle College* offers teacher clock hours for most courses, including online courses.

*South Seattle College* offers Career and Technical Education (CTE) certification for business and industry professionals to become secondary school teachers. South also offers clock hours for K-12 educators; classes held online or on campus.



## Corporate and Customized Training

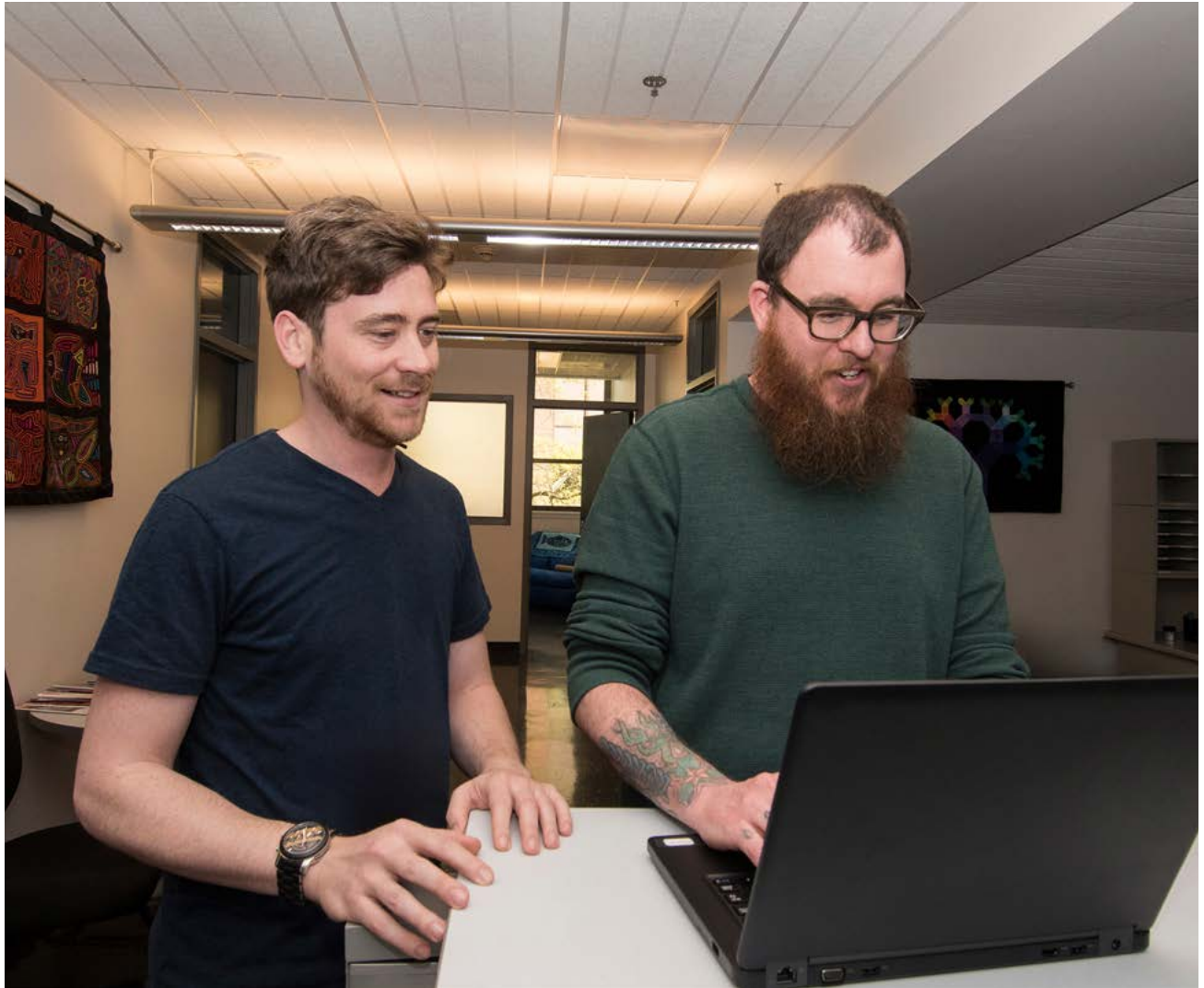
The Office of Corporate & Customized Training is a leading-edge supplier of workforce and customized training for the Seattle region. We serve as a single point of contact for business and industry providing relevant training to upskill workforces and give companies a competitive advantage. We offer a full suite of professional training solutions developed for and provided to business, industry, and organizations.

Learn more at [seattlecolleges.edu/programs/corporate-and-customized-training](https://seattlecolleges.edu/programs/corporate-and-customized-training).

**Seattle Colleges Corporate & Customized Training Department:**

**Bob Embrey, Executive Director**  
(206) 934-5856  
[bob.embrey@seattlecolleges.edu](mailto:bob.embrey@seattlecolleges.edu)

**Liz Strongman, Program Manager**  
(206) 934-6853  
[liz.strongman@seattlecolleges.edu](mailto:liz.strongman@seattlecolleges.edu)



“ I will remember the memories and friendships that I formed. All the inspiring, encouraging, and supportive messages from my instructors will always be in my heart. Two years of being on a roller coaster ride, and I finally made it! Thank you, Seattle Colleges, for giving me this opportunity to grow and bring out the best in me. ”

– Jamaica R.

## High School Programs: College Concurrent Programs

### Running Start

**Central** (206) 934-3836  
[seattlecentral.edu/running-start](http://seattlecentral.edu/running-start)

**North** (206) 934-7768  
[northseattle.edu/running-start](http://northseattle.edu/running-start)

**South** (206) 934-6478  
[southseattle.edu/running-start](http://southseattle.edu/running-start)

Running Start allows qualified Washington state high school juniors and seniors to register for college-level courses while remaining enrolled at their local high school. Partial to full tuition is paid for by the state; students pay mandatory fees, buy their own books, and provide their own transportation.

Students eligible for free/reduced lunch have their fees waived and can borrow textbooks from the Running Start offices on a quarterly basis. To qualify, students must take a placement test and be ready for college-level coursework.

As a dual enrollment program, students receive both high school and college credit, accelerating their progress through the education system. Running Start is a good option for high school students who are ready to start college early.

For information about preparing for and taking placement tests, visit the Running Start website of the college you plan to attend.

For more information about the statewide Running Start program, visit [sbctc.edu/becoming-a-student/high-school/dual-credit-student](http://sbctc.edu/becoming-a-student/high-school/dual-credit-student).



“College gave me the freedom in seeing what I wanted to study. I took psychology, business, chemistry, and even yoga. Now I know what I want to do.”

– Jalen W.

## High School Programs: College Preparation Programs

### Learning Center Seattle – Central

Learning Center Seattle (LCS) is an Open Doors Youth Reengagement program located at Seattle Central college Room BE2130. LCS serves students ages 16 to 21 who have separated from traditional high school and want to earn a GED to transition into college programs. Some of the partnerships that support LCS with offering services for students are Seattle Public schools, Bridges U, WAPI Community services, Northwest Education Access and King County's Children, Youth and Young Adult Division (CYAD).

Our focus is to support all students transition into a college program after earning their GED. All students enrolled at LCS are eligible for our FREE-college program (tuition waiver) until they earn their associate degree (AA)/college certificate or until they age out of the program. Students will also receive many wraparound services such as support with college readiness, job readiness trainings, career exploration, IEP/504 support as applicable, paid internships if eligible, case management, mental health services, funding for class materials/supplies/course fees ..(limited for classes under professional technical programs), free GED testing, and free ORCA cards for the school year.

LCS offers open enrollment and self-paced GED classes. To learn more about the program, students/parents can sign up for an information session through the LCS website.

#### Contact information

[Learningcenter@seattlecolleges.edu](mailto:Learningcenter@seattlecolleges.edu)

Text: (503) 451-5276

Call: (206) 934-4301

[seattlecentral.edu/programs/basic-and-transitional-studies/learning-center-seattle](http://seattlecentral.edu/programs/basic-and-transitional-studies/learning-center-seattle)

### Career Link High School – South

(206) 934-6475

[southseattle.edu/programs/career-link](http://southseattle.edu/programs/career-link)

Career Link at South prepares students for success in college and their careers while they work toward earning a high school diploma. The program serves students between the ages of 16 and 21 who have left high school without a diploma. Tuition and materials are free, and support is available for other needs.

Career Link at South offers support through this program and other campus programs for students to enroll in regular college classes. All Career Link students receive ongoing academic advising and assistance to ensure they are on track to graduate and have a High School & Beyond plan in place.

### TRIO Educational Talent Search – South

(206) 934-5871

[southseattle.edu/trio/talent-search](http://southseattle.edu/trio/talent-search)

The purpose of TRIO Talent Search is to help low-income and potential first-generation college students successfully graduate from secondary school and enroll in postsecondary education. This federally funded program serves 580 students each year from five secondary schools and two middle schools located in West Seattle.

Students are provided with services directly at their school sites during the school year by program staff. Students must apply for the program, be deemed eligible, and be accepted before receiving any program services. Services that are offered and provided to students, both in individual and group settings, include academic advising and assistance with secondary course selection, postsecondary information and application assistance, financial aid information and application assistance, financial literacy information, college entrance examinations information and registration assistance, career awareness and planning information, connections to tutorial services, and college campus tours and visits.

### Upward Bound – South

(206) 934-5871

[southseattle.edu/programs/trio/upward-bound](http://southseattle.edu/programs/trio/upward-bound)

The purpose of TRIO Upward Bound is to provide low-income and potential first-generation students with the skills and motivation to complete high school, go to college, and graduate from college. This federally funded TRIO program serves 132 students each year from four secondary schools in West Seattle and Seatac, via two Upward Bound grants.

The goal is to maximize students' potential for graduation from high school and subsequent college enrollment. Students are provided with services directly at their school sites during the school year by program staff and on campus at South Seattle College during their summer program. Students must apply for the program and be accepted before receiving any program services. TRIO Upward Bound students receive services, which include instruction in math, science, foreign language, SAT preparation, and arts/other electives; academic tutoring and instruction in core academic subjects; academic advising and assistance with secondary course selection; post-secondary information and application assistance; financial aid information and application assistance; financial literacy information; college entrance examinations information; registration assistance; career exploration and planning; and educational field trips and activities. The year-round program includes a six-week summer program on campus at South for intensive academic and college preparatory activities. These programs let students begin college studies while in high school, with credit for both high school and college courses.

## Pre-college and ESL

Pre-College and English as a second language (ESL) courses provide instruction for adults who want to:

- Improve their ESL skills for work or college.
- Earn a high school diploma or GED®.
- Get college-ready with their reading, writing, communication, and math skills.
- Begin college or job-training while earning a high school diploma.
- Brush up on skills to get better jobs or prepare for college.
- Refresh or build reading, writing, and math skills for personal goals, future education, and employment.

Each of the programs below is designed to meet a particular set of student needs.

- Adult Basic Education
- Developmental Education
- English as a Second Language
- English as a Second Language (Transitional)
- GED®Prep
- High School+ (HS+)
- (Adult) High School Completion
- High School Completion Tuition Waiver
- I-BEST

### Seattle Central College

#### Basic & Transitional Studies

(206) 934-4180

[basicskills@seattlecolleges.edu](mailto:basicskills@seattlecolleges.edu)

[seattlecentral.edu/programs/basic-and-transitional-studies](http://seattlecentral.edu/programs/basic-and-transitional-studies)

### North Seattle College

#### Basic & Transitional Studies

(206) 934-4720

[BTS@seattlecolleges.edu](mailto:BTS@seattlecolleges.edu)

<https://northseattle.edu/basic-and-transitional-studies/>

### South Seattle College

#### Basic & Transitional Studies

(206) 934-5363

[southseattle.edu/basic-transitional-studies](http://southseattle.edu/basic-transitional-studies)



## Adult Basic Education

**Central** (206) 934-4180

**North** (206) 934-4537

**South** (206) 934-5363

Adult Basic Education (ABE) classes are for adults who wish to improve their reading, writing, communication, and math skills. Students can start at a level matching their current skills and progress at their own pace. Classes in basic math, reading, writing, and communication skills are designed to help adults become more self-sufficient, improve their job prospects, prepare for the high school equivalency options (such as the GED®), earn a high school diploma (through HS+), or qualify for entry into college-level programs. Course descriptions are listed under ABE, though some classes may also be listed under GED or HSC for students who enroll in GED and HS+ classes concurrently. Classes are noncredit. Tuition is low, currently \$25 per quarter (subject to change).

## Developmental Education

### English, Mathematics, and Human Development

Many students entering college or returning after time away from studies need additional work to prepare for college-level courses. For these students, Seattle Colleges offers a series of courses in English, mathematics, and human development. Placement in one or more of these courses is determined by performance on placement tests required for admission to the specific college program or courses. Courses in this category are those numbered below 100. They are described in the course description sections for English, mathematics, and human development.

## English as a Second Language (ESL)

**Central** (206) 934-4180

**North** (206) 934-4720

**South** (206) 934-5363

ESL classes are offered to help nonnative speakers communicate in English, increase their understanding of American culture, and advance toward their college and career goals. Conversation, pronunciation, reading, writing, and grammar are taught in the context of work and college readiness, digital literacy, and other topics designed to help students advance along career pathways. These noncredit courses cost \$25 per quarter tuition (subject to change). Course descriptions are found under ESL. When students' skills are ready, they can move on to Transitional ESL classes (ESL 93-99 at Central, or ENG 98-101 at North and South), which concentrate on academic preparation skills.

Note: International students should take Intensive English classes through International Programs, page 28.

## ESL (Transitional)

Placement in Central's Transitional ESL classes (ESL 93-99) is done by standardized placement testing. These courses prepare students for college-level work, with increasing emphasis on note taking, composition, oral presentation, and class discussion at high levels. Although these classes do not count as credit for college-level work, ESL 93-99 can be covered by financial aid. Tuition for these classes is the same as regular tuition.

NOTE: International Students should take intensive English classes through International Programs, page 28.

## GED® Preparation

**Central (206) 934-4180**

**North (206) 934-4537**

**South (206) 934-5363**

Adults may demonstrate that they have reached an education level equal to a high school diploma by taking the GED® test. Students who pass the GED® tests earn a GED® certificate, accepted by colleges, vocational programs, trade unions, and many employers as equivalent to a high school diploma. Contact the college offices for fee information. To prepare for this test, Seattle Colleges offers courses that cover the subjects tested: reasoning through language arts, mathematics, science, and social studies.

## High School Completion Options

**Central (206) 934-5408**

**North (206) 934-4537**

**South (206) 934-7946**

All students who are 16 years of age and older and who earn an associate degree of any type from Seattle Colleges are eligible to submit a written request for and to receive a college-based high school diploma. These individuals are not required to complete the State Board of Education high school graduation requirements.

Running Start students who complete an associate degree are eligible to request a high school diploma at any age. These individuals are not required to complete the State Board of Education high school graduation requirements.

Seattle Colleges also offers high school completion options to students who have not completed their high school diploma. HS+ is a high school completion option for students aged 18 and older. HS+ allows students to earn high school credits by taking \$25 classes. Students may submit transcripts from prior institutions and other evidence of life and work experience for credit as well.

Students planning to work toward a high school diploma should obtain a copy of "Requirements for the High School Diploma" from the Advising, Basic and Transitional Studies (at North Seattle College) or Admissions Office for complete information.

Students planning to work toward a high school diploma should visit each campus' website for the most current information and contact person. There are several options including High School+, GED, Running Start, and Associate Degree Conversion.

## Integrated Basic Education & Training (I-BEST)

**Central (206) 934-5459**

**[seattlecentral.edu/programs/basic-and-transitional-studies/i-best](http://seattlecentral.edu/programs/basic-and-transitional-studies/i-best)**

**North (206) 934-6030**

**[northseattle.edu/basic-and-transitional-studies/i-best](http://northseattle.edu/basic-and-transitional-studies/i-best)**

**South (206) 934-5363**

**[southseattle.edu/basic-transitional-studies/i-best-career-training](http://southseattle.edu/basic-transitional-studies/i-best-career-training)**

I-BEST (Integrated Basic Education and Skill Training) is a program for Pre-College and ESL students who are interested in job training classes or transitioning into a transfer pathway. Students start certificate and/or degree programs and receive extra academic support in the classroom, as well as navigation support outside the classroom. Some examples of I-BEST programs at Seattle Colleges are Information Technology (IT), Early Childhood Education, Accounting, Electronics, and a pathway to a transfer associate degree. In an I-BEST classroom, 2 teachers—a career training instructor and a transitional skills instructor—teach together to help students learn better and faster. That way, students can learn job-based or academic content while enhancing skills such as reading, writing, critical thinking, and time management. There are up to five additional hours of classroom support in skills practice offered each week.



# Enrollment and Funding

## Five Steps to Enrolling

1. **Apply**
2. **Plan your Funding**
3. **Placement for Classes**
4. **Registration**
5. **Pay and Prepare**

## 1. Apply

Seattle Colleges operates on an open-door admission policy (District Policy 305). Consistent with available space and resources, each campus admits those students who:

- Are competent to profit from the curriculum offerings of Seattle Colleges; and
- Would not, by their presence or conduct, create a disruptive atmosphere within Seattle Colleges inconsistent with its purpose; and
- Are 18 years of age or older; or
- Are high school graduates; or
- Have applied for admission under the provisions and qualifications of student enrollment options programs, such as Running Start or a successor program, or through other local student enrollment option programs. However, an applicant transferring from another institution of higher education who meets the above criteria but is not in good standing at the time of his or her transfer may be conditionally admitted on a probationary status as determined by the chief administrative officer or his or her designee;

OR

- Are students age 16 and over who meet the provisions of Title III of the Workforce Investment Act who may then enroll in certain adult basic education classes. Individuals admitted into such classes will be allowed to continue as long as they are able to demonstrate, through measurable academic progress, an ability to benefit from the curriculum offerings.
- If not qualified under subsections above, are students who have filed an appropriate written release from the public, private, or home school they are attending or last attended, provided they are 16 years of age or older.

## Admissions Exception

The college does not desire to replace or duplicate the functions of the local public schools; however, people under the age of 18 may request special admission on a course-by-course basis, provided they have attained at least high school junior standing. Criteria for granting admission: competency at an appropriate academic, artistic, and/or technical talent level and the ability to participate in an adult learning environment.

Specific admissions procedures are available in the Registrar's Office at each campus and/or on each college's website.

## New Student Admission

To apply, students have two options:

1. Complete and submit an online admissions application. The online form is available at [seattlecolleges.edu](http://seattlecolleges.edu) click on Prospective Students/Getting Started.

Additional application information is also available at each of the college websites:

- **Central:** [seattlecentral.edu/getstarted](http://seattlecentral.edu/getstarted)
- **North:** [northseattle.edu/enroll-now](http://northseattle.edu/enroll-now)
- **South:** [southseattle.edu/steps-enroll](http://southseattle.edu/steps-enroll)

OR

2. Complete the online admission application in person at the college.

For those intending to transfer in credits from another college or university for evaluation, submit official copies of transcripts from any community colleges, universities, or technical schools attended.

*Note: For some programs, high school transcripts may be required. Check with your campus for more information.*

## Enrolling at More Than One of the Seattle Colleges

### Intradistrict Registration/Concurrent Enrollment

Students may enroll at more than one of the colleges without paying more than the maximum tuition at any one college; however, additional class or college fees may be incurred.

*Note: Financial aid recipients may receive aid through only one college. See the Financial Aid Office at your home college four weeks prior to the beginning of the quarter if you plan to enroll in more than one college at Seattle Colleges.*

## Readmission of Former Students

Students who were not enrolled for the most recent quarter but were previously enrolled within the last two years at Seattle Colleges may enroll during open registration. Students should update their personal information when registering.

Students who were dismissed for disciplinary or for academic reasons will be referred by Registration to the appropriate office.

Students who stop out for a quarter or more and are interested in graduating may choose to fulfill requirements in effect from an earlier catalog. With approval of the dean, students may elect to graduate either under the catalog in effect at the time they complete the graduation requirements or under the provisions of an earlier official catalog, provided that (a) not more than five years have elapsed since the student first enrolled under that earlier catalog, and (b) the courses required for completion are still offered. The dean may make suitable substitutions in cases where courses are no longer offered. Students are advised that if they graduate under an earlier catalog, some current transfer requirements of four-year institutions may not be satisfied. Students are advised to contact the transfer institution for current requirements.

Students called to active duty during a period of enrollment, have the right to be readmitted as defined in RCW 28B.10.270. See Financial Assistance for Veterans and Military Personnel on page 217 for more information.

## Residency Requirements

### Residents – U.S. Citizens, U.S. Permanent Residents, Deferred Action for Childhood Arrival (DACA), or Qualifying Visas

To qualify for resident tuition, applicants must reside in Washington state for reasons other than educational purposes for one full year prior to the first day of the quarter in which resident fees are requested. A financially dependent student may also be eligible for resident tuition if either parent or a legally appointed guardian has maintained a domicile in Washington for one full year prior to the first day of the quarter. Establishing permanent state residency includes compliance with Washington state laws, vehicle and driver license registration, and registration to vote in this state, if applicable. U.S. permanent resident card holders and DACA recipients must hold their status for one full year prior to the start of the quarter in which resident fees are requested. Visa holders should contact the Registration Office for additional information at their respective campuses.

An applicant may qualify for in-state tuition rates without establishing residency if they:

- a. Hold a graduate service appointment, designated as such by an institution, involving not less than 20 hours per week.
- b. Reside in the state of Washington and are an employee, spouse, or dependent child of an employee, not less than half time with a state institution.
- c. Are on active military duty stationed in Washington or a member of the Washington National Guard.
- d. Are an immigrant refugee/asylee/parolee or the spouse or dependent child of an immigrant refugee/asylee/parolee.
- e. Are a dependent of a congressional member representing the state of Washington.
- f. Are a veteran who has separated from the uniformed services with any period of active duty service, with other than dishonorable discharge, is eligible for federal veterans' education assistance benefits, and enters an institution of higher education in Washington within three years of separation.
- g. Are a spouse, former spouse, or child entitled to Veterans Affairs education assistance benefits based on their relationship to a veteran as defined in (f).

Contact the Registration Office at your campus for information on additional legal requirements to qualify for these exemptions.

### Non-Resident Tuition Waiver

Those who do not meet the residency requirements or eligibility for exemption may be eligible for the Nonresident Tuition Waiver. Students must be U.S. citizens or permanent residents and are charged a tuition rate very close to resident tuition. There is no one-year wait requirement. However, once students have met the one-year domicile requirement and are in compliance with Washington state laws to establish permanent state residency, they may submit a Residence Questionnaire with supporting documentation for review for reclassification to resident for tuition-paying purposes. Students who do not meet resident requirements or are not eligible for the Nonresident Tuition Waiver are assessed tuition and fees based on "nonresidency" status.

### Residents – Non-U.S. Citizens

Effective July 1, 2003, Washington state law changed the definition of "resident student" so that certain students who are not permanent residents or citizens of the United States are eligible for resident student status – and eligible to pay resident tuition rates – when they attend public colleges and universities in this state. To qualify for resident status, students must complete an affidavit/declaration/certification if they are not permanent residents or citizens of the United States but have met the following conditions:



1. Completed the full senior year of high school and obtained a high school diploma at a Washington public or private high school or received the equivalent of a diploma.
2. Lived in Washington for at least three calendar years (36 months) immediately prior to receiving the diploma or its equivalent.
3. Continuously lived in the state of Washington after receiving the diploma or its equivalent until being admitted to an institution of higher education.

A student who meets the above conditions must also certify that they will be filing an application to become a permanent resident of the United States as soon as they are eligible to apply. Students must also certify that they are willing to engage in activities designed to prepare them for citizenship, including citizenship and civics review courses. Contact the Registration Office at your campus for more information.

<b>North</b>	<b>(206) 934-3663</b> <b>northseattle.edu</b>
<b>Central</b>	<b>(206) 934-6918</b> <b>seattlecentral.edu</b>
<b>South</b>	<b>(206) 934-7938</b> <b>southseattle.edu</b>

## International Student Admission

See page 28 for information on *International Student Admission and Guidelines*.

## 2. Plan Your Funding

There are several funding options for students at Seattle Colleges. Students may apply for federal and state financial aid, apply for tuition assistance through our Workforce Education programs, and receive veterans' educational benefits. Students are not limited to just one funding source; they can apply for multiple funding options.

### Federal, State, and Institutional Financial Aid

Financial aid assistance is offered in a variety of forms: federal grants, Washington state grant aid, institutional grants and tuition waivers, work-study employment, and federal student loans. The Financial Aid Office at each campus can assist students in the application process for scholarships, employer tuition assistance programs, and alternative educational loans as well. They also provide information on eligibility requirements, student rights and responsibilities in receiving aid, requirements for maintaining aid, planning a budget, and other financial concerns.

**Seattle Central College**  
**(206) 934-3844**  
**seattlecentral.edu/finaid**

**North Seattle College**  
**(206) 934-3688**  
**northseattle.edu/financial-aid**

**South Seattle College**  
**(206) 934-5317**  
**southseattle.edu/financial-aid**

## Determination of Financial Aid & Cost of Attendance

The Financial Aid programs at Seattle Colleges are administered in accordance with established state and federal regulations and policies. The basic formula to determine financial need for funding begins with the student's Cost of Attendance (COA) and subtracts the Estimated Family Contribution (EFC), resulting in the financial need. Financial need is the maximum amount of financial aid a student can receive from all sources.

Student expenses include estimates of all school and basic college living expenses for the academic year (Fall, Winter, and Spring quarters). Information on the Financial Aid COA budgets is in the Conditions of Award or Consumer Information brochure available in the Financial Aid Office at each campus and on the financial aid websites listed above.

Using the information provided on the Free Application for Federal Student Aid (FAFSA) or the Washington Application for State Financial Aid (WASFA), each student's EFC is calculated.

### Types of Financial Aid/Opportunity Pathways

Three basic kinds of financial aid are available for students. Financial aid may consist of one or more of:

1. **Grants, Scholarships & Waivers:** Students do not repay grants, scholarships, and waivers if satisfactory academic progress is maintained. Grants include Federal Pell Grants, Federal Supplemental Educational Opportunity Grants (SEOG), Washington State Need Grants (SNG), College Bound Scholarship, Passport to College, and Institutional Grants and Waivers.
2. **Employment:** Work-study programs provide part-time employment opportunities for students both on campus and off campus.
3. **Loans:** Student loans are always optional. No student is required to apply for loans. Students are encouraged to pursue Federal Direct Loans or Federal Preparatory Coursework Loans before looking into Private Educational Alternative Loans. Students must complete the institutional request form and all federal requirements.

## The Financial Aid Application Steps

- Apply for admissions to your desired campus within Seattle Colleges.
- Complete either the online FAFSA or WASFA application:
  - Free Application for Federal Student Aid (FAFSA) – [www.FAFSA.ed.gov](http://www.FAFSA.ed.gov) (U.S. citizens or eligible noncitizens)
  - Washington Application for State Financial Aid (WASFA) – [www.readysetgrad.org/WASFA](http://www.readysetgrad.org/WASFA) (undocumented Washington state residents or DACA recipients)
- Submit all required supplemental documentation. May include tax documents, income information, citizenship documentation, etc.

### To be eligible for financial aid, a student must:

- Be a U.S. citizen or eligible noncitizen (U.S. permanent resident, refugee, asylum granted, etc.) complete list available at <https://studentaid.ed.gov/sa/eligibility/non-us-citizens>
- OR-
- Meet WASFA eligibility, DACA Standard, or 1079 Standard, available at <https://readysetgrad.wa.gov/wasfa>
- Have a high school diploma or GED certificate or meet the Ability to Benefit requirements
- Demonstrate financial need as determined by the Financial Aid Office after completion of the FAFSA or WASFA and all application materials
- Enroll in an approved certificate or degree program and take required coursework
- Not owe a refund or repayment on prior financial aid received or have a student loan in default at these or prior colleges attended
- Make satisfactory academic progress as defined by each campus Financial Aid policy

### Maintaining Eligibility

Students are required to make satisfactory academic progress in their chosen program of study. Students are advised to check with the campus Financial Aid Office or Financial Aid website at their college for requirements.

### Notification

Students are emailed or mailed a financial aid notification letter indicating award types and amount per quarter. It is important to read the notice carefully, following all instructions. Students are also notified if they are ineligible for financial aid.

## Disbursement of Funds

Financial aid is first applied to tuition and fees charged at the time of registration. Any remaining balance is issued to the student. The Seattle Colleges are partnered with BankMobile, a Division of Customers Bank, a financial service company serving higher education, for students to receive their financial aid and other credit balances. Detailed disbursement information, including helpful videos, can be found at [bankmobiledisbursements.com/refundchoices](http://bankmobiledisbursements.com/refundchoices). To view the institution's contract with BankMobile and FAQ visit [seattlecolleges.edu/about/seattle-colleges-financial-aid-refund](http://seattlecolleges.edu/about/seattle-colleges-financial-aid-refund).

## Withdrawal Penalties

If a student withdraws from school or drops more than the required credits to maintain aid, financial aid eligibility may be impacted. Tuition/fee refunds are returned to financial aid programs first. In the case of official withdrawal, students may be required to repay a percentage of their refund disbursement and/or tuition and fees. If a student drops without notifying the school, they may be billed for the entire amount of financial aid funds received. Repayment may be required before receiving financial aid funds for a future quarter or registering for future quarters. Students should contact the campus Financial Aid Office for details.

## Financial Aid Information Changes

Information in this publication regarding financial aid is subject to change without notice and does not constitute an agreement between the colleges and the students.

## Workforce Education Programs

The Workforce Education Office assists students enrolled in Career and Technical Education (a.k.a. career and technical) who need financial assistance. Eligible students may receive funding for tuition and fees, textbooks, required supplies, student ID card, and parking permit or ORCA transit pass. Workforce Education also assists students enrolled in English as Second Language (ESL) classes or completing their GED or high school diploma. Workforce Education staff are here to help you obtain the assistance you need to succeed in school. Funding programs include the Opportunity Grant Scholarship, Worker Retraining, Basic Food Employment & Training (BFET), and WorkFirst.

## Eligibility Determination – Start Next Quarter startnextquarter.org

Seattle Colleges offers hundreds of students free and reduced tuition, books, and fees every quarter through Start Next Quarter (SNQ). Interested students can see if they prequalify for Opportunity Grants, Worker Retraining, Basic Food Employment and Training, and WorkFirst funds by visiting this website. Students who prequalify for funding are invited to an SNQ workshop, where their eligibility for funding is confirmed. Funding is limited and may be restricted to certain courses of study.

### Workforce Education Office Contact Information

#### Central

(206) 934-3854

[seattlecentral.edu/enrollment-and-funding/financial-aid-and-funding/workforce-services](http://seattlecentral.edu/enrollment-and-funding/financial-aid-and-funding/workforce-services)

#### North

(206) 934-3787

[northseattle.edu/workforce-education](http://northseattle.edu/workforce-education)

#### South

(206) 934-5835

[southseattle.edu/programs/workforce-education](http://southseattle.edu/programs/workforce-education)

## Opportunity Grant Scholarship

The Opportunity Grant (OG) Scholarship provides education grants for low-income students who have not yet earned a degree and are studying an eligible program. OG provides up to 45 credits of tuition and \$1,000 per year for books.

Eligibility (must meet all of the following)

- Washington state resident
- No prior degree (A.A. or higher)
- Enroll in an approved pathway of study\*\*
- Complete the FAFSA (Free Application for Federal Student Aid) or WASFA (Washington Application for State Financial Aid) before the second quarter of enrollment
- Meet family income limits for the program and have financial need as determined by the Financial Aid Office

*\*\* See "opportunity grants" on college websites for a list of approved programs. For additional grant information, visit [sbctc.ctc.edu/s\\_opportunitygrants.aspx](http://sbctc.ctc.edu/s_opportunitygrants.aspx).*

“ I’ll remember all the times I was able to reach an advisor who looked like me and understood what I wanted to accomplish while sharing my excitement throughout the whole process. ”

– Nikkole B.

## Worker Retraining Program

The Worker Retraining program provides funding for laid-off and dislocated workers who need training in order to return to the workforce. Training options include career training programs (certificates and A.A.S. degrees), GED, high school completion, and ESL classes. If you qualify, you may receive funding for your tuition. Textbook assistance may also be available.

### Worker Retraining Expanded Eligibility for Vulnerable Workers

You may be eligible for Worker Retraining if you are currently working and meet two of the three criteria below:

- You are employed in an occupation that is “not in demand” according to the demand/decline list for your county. To check the demand/decline lists, go to [fortress.wa.gov/esd/employmentdata/reports-publications/occupational-reports/occupations-in-demand](http://fortress.wa.gov/esd/employmentdata/reports-publications/occupational-reports/occupations-in-demand).
- You do not have a previous degree or certificate and have completed less than one year of college education (less than 45 college credits).
- You need to learn new skills in order to keep your job.
- If you believe you may be eligible for Worker Retraining as a Vulnerable Worker, please contact the Workforce Education Office on your campus.

## Basic Food Employment & Training

The Basic Food Employment and Training (BFET) program assists recipients of federal basic food assistance by providing funding for career training, GED, high school completion, or ESL classes to increase their opportunities for employment. If you qualify, you may receive funding for tuition, textbooks, and a parking permit or ORCA transit pass if funding is available.

You may be eligible for the BFET program if you are receiving federal basic food assistance from DSHS and not receiving Temporary Assistance for Needy Families (TANF) cash assistance. Workforce Education will need to obtain DSHS approval before funding can be awarded.

## WorkFirst Program

The WorkFirst program assists recipients of TANF cash assistance from DSHS who need training in order to enter the workforce. WorkFirst funding typically covers the career training programs that are one year in length or shorter as well as GED or high school completion. Your DSHS case manager will need to approve your program of study. If you qualify, you may receive funding for your tuition and textbooks.

You may be eligible for WorkFirst if you are receiving TANF cash assistance and have an electronic referral from your DSHS case manager.

## Financial Assistance for Veterans and Military Personnel

### Veterans Services Office

**Central** (206) 934-4147

**North** (206) 934-7309

**South** (206) 934-5811

The Veterans Services Office at each campus provides services to help veterans and eligible dependents receive and maintain VA educational benefits while in school. These benefits include the Montgomery G.I. Bill®, Post 9/11 G.I. Bill®, Reserve Education Assistance Program, Benefits Program for Dependents and Surviving Spouses, Selective Reserve Assistance Program, Vocational Rehabilitation Program, and others. The office monitors academic progress, assists eligible students in applying for tutorial and VA work-study benefits, and approves eligibility for tuition discounts for eligible veterans, their spouses, and/or their dependents.

Veterans, eligible dependents, and members of the military are eligible for priority registration each quarter. Students must provide documentation that verifies service and/or eligibility; documents such as DD-214 and DD-295 and military transcripts are acceptable. Veterans may submit documents to the Military and Veterans Services Office at their home campus.

To receive benefits, students must contact the Veterans Services Office at their home campus 30 days prior to the beginning of the academic quarter. If students are transferring from another school, they must contact the Veterans Services Office to ensure all required documentation has been received. All veterans must apply for a credentials evaluation as soon as possible and notify the office immediately of any changes in address, program of study, enrollment, etc.

It is important that students be aware of all requirements outlined by the college and the Department of Veterans Affairs to fulfill educational objectives. Veterans and eligible dependents receiving benefits are required to maintain satisfactory academic progress standards in order to retain benefits. Some classes or programs of study are not eligible for benefits. Seattle Colleges complies with the VA's 85/15 Rule (USC 3680A(d)(1)) for each program of study offered.

Selected programs of study at North Seattle College, Seattle Central College, and South Seattle College are approved by the Workforce Training and Education Coordinating Board's State Approving Agency (WTECB/SAA) for enrollment of those eligible to receive benefits under Title 38 and Title 10, USC.

North Seattle College, Seattle Central College, and South Seattle College do not and will not provide any commission, bonus, or other incentive payment based directly or indirectly on success in securing enrollment or financial aid to any person or entities engaged in any student recruiting or admissions activities or in making decisions regarding the award of student financial assistance.

"GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government website at [benefits.va.gov/gibill/](https://benefits.va.gov/gibill/)."

### Veteran Waivers

Subject to limitations, veterans, National Guard members, and reservists may qualify for tuition waivers. Basic eligibility requirements are that a student must be a Washington state resident and have an honorable discharge (DD214).

A child and the spouse or surviving spouse of an eligible veteran or National Guard member who became totally disabled, is determined by the federal government to be a prisoner of war or missing in action, or lost his or her life while engaged in active federal military or naval service may be eligible for a limited tuition waiver.

Students seeking to receive a Veteran Waiver should contact the Veterans Services Office at their home campus.

### Department of Defense Tuition Assistance for Active Duty Military

North Seattle College and South Seattle College are approved institutions in the DoD MOU program at [dodmou.com/institutionlist.aspx](https://dodmou.com/institutionlist.aspx). Students should let the Veterans Services Office know once they have registered for courses that they will be using a tuition assistance program. Approved TA vouchers can be submitted electronically or in person to the Veterans Services Office.

### Rights for those Called to Active Service (RCW 28B.10.270)

#### Active Service for a Period Exceeding 30 Days

A member of the Washington national guard or any other military component who is a student at an institution of higher education and who is ordered for a period exceeding thirty days of either active state service or to federal active military service has the right to:

- Withdraw from one or more courses for which tuition & fees have been paid;
- Be given a grade of incomplete and be allowed to complete the course upon release from active duty under the institution's standard practice for the completion of incompletes; or
- Continue and complete the course for full credit.

If the student chooses to withdraw, the student has the right to be readmitted and enrolled as a student at the institution, without penalty or redetermination of admission eligibility, within one year following release from the state or federal active military service.

### Active Service for a Period 30 Days or Less

If a member of the Washington National Guard or any other military reserve component is ordered to active federal service for a period of 30 days or less, and/or is scheduled for follow-up medical treatment for injury incurred during that service, and misses any of the following: class, test, examination, laboratory, class day on which a written or oral assignment is due, or other event upon which course grade or evaluation is based, the student veteran has the right to:

- Make up these events without prejudice to the final course grade or evaluation. The makeup must be scheduled after the member's return from service and after a reasonable time for the student to prepare for the event.
- If the faculty member teaching the course determines that the student has completed sufficient work and has demonstrated sufficient progress toward meeting course requirements to justify the grade without making up the class, test, examination, presentation, or other event, the grade may be awarded without makeup.

## 3. Placement for Classes

Contact the Testing and Assessment Office at your campus or college website for a complete list of exemptions, current assessments, fees, guidelines, and additional information.

**North Testing Center**  
(206) 934-3674  
[northseattle.edu/testing](http://northseattle.edu/testing)

**Central Testing Office**  
(206) 934-6344  
[seattlecentral.edu/testing](http://seattlecentral.edu/testing)

**South Student Assessment Services**  
(206) 934-6767  
[southseattle.edu/student-assessment-services](http://southseattle.edu/student-assessment-services)

## 4. Registration

### New Student Orientation

New Student Orientation provides an overview of programs and services and the opportunity to meet with an advisor and register for courses.

### Advising

Seattle Colleges provides educational advising to new and enrolled students. Advising is available to help plan a course of study and select the appropriate classes. Advisors provide information on career and technical programs and academic transfer programs as well as admission requirements for four-year institutions. Advising centers maintain a broad collection of resources from colleges, universities and vocational schools. For more information, email or call:

**North**  
[northseattle.edu/advising](http://northseattle.edu/advising)  
[AdvisorNorth@seattlecolleges.edu](mailto:AdvisorNorth@seattlecolleges.edu)  
(206) 934-3658

**Central**  
[seattlecentral.edu/advising](http://seattlecentral.edu/advising)  
[AdvisorCentral@seattlecolleges.edu](mailto:AdvisorCentral@seattlecolleges.edu)  
(206) 934-4068

**South**  
[southseattle.edu/advising](http://southseattle.edu/advising)  
[AdvisorSouth@seattlecolleges.edu](mailto:AdvisorSouth@seattlecolleges.edu)  
(206) 934-5387

### Registration

Seattle Colleges requires official enrollment before a student may enter any class. Official enrollment is the process of registering for classes and payment of tuition and fees. Students may register for classes by using campus online services (see below) or completing an enrollment form and then paying tuition.

Seattle Colleges operates on a quarter system. The course schedules are available online approximately six weeks before the start of each quarter. Registration information is available to all new and currently enrolled students. Check the academic calendar on the back inside cover of this catalog or at [seattlecolleges.edu/academics/calendars](http://seattlecolleges.edu/academics/calendars).

### Online Services

Online registration via the college websites is available for students seven days a week from 5 a.m. to 11 p.m. Students can use online services to register/add/drop classes, get quarterly grades, look up registration appointments, check financial status, change their PINs, or pay for classes by credit card or deferred payment plan. For more registration information, visit the campus website or contact the campus Registration Office. Registration websites can also be reached by selecting a college at [seattlecolleges.edu/getting-started/step-4-register](http://seattlecolleges.edu/getting-started/step-4-register).

**Email:** Email is the primary mode of communication with students at the three campuses. These emails may include information about admissions, deadline dates, registration, waitlist status updates, dropping for nonpayment, residency, transfer credit evaluation, and graduation. Students should keep their email addresses current with their college.

## Attendance Policy

Students may not attend any class unless they have officially registered and paid tuition and fees (exception: students who are enrolling using a space-available waiver). Instructors may not allow a student to attend their class if the student's name is not on the class roster. Students who are officially enrolled in credit classes must be in attendance or communicate with the instructor no later than the first scheduled class. Students who are absent without prior approval of the instructor or the division/department chair may be withdrawn by the college.

Seattle Colleges will grant reasonable accommodation so that students who are absent for reasons of faith or conscience, or for an organized activity conducted under the auspices of a religious denomination, church, or religious organization will not have their grades or other learning opportunities from the class be negatively affected. Such absences must be requested in writing within the first two weeks of the quarter.

Faculty must include the approved language referencing this policy in their syllabi. This policy and the associated procedure will be posted on the institutional website. Students who have concerns about approval or a grade impact may utilize the student grievance procedure for concerns not directly related to grades, or to the grade appeal process in cases impacting a final grade (WAC 132F-121-090).

*Note: Students should not assume that they have been dropped if they have not attended class on the first day; instead, they should officially drop or withdraw. See "Dropping Classes."*

## Adding Classes

Once the quarter begins, students may add classes through the end of the 10th day of the quarter or the eighth day in Summer Quarter. Instructor permission is required after the designated online registration period ends during the first week of the quarter. Students may add classes online during designated time periods or may complete an enrollment form in person at the Registration Office.

In rare cases, students may petition for a late registration based on documentation demonstrating extenuating circumstances that may have led to their being dropped. Late registration petitions must include the instructor's permission and considered only for those students who attended classes prior to the 10th day of the quarter, or the eighth day for Summer Quarter. A per-credit late fee will be assessed.

## Dropping/Withdrawing Classes

To drop a course, students must complete the official withdrawal procedure, as outlined on campus websites:

1. During the first two weeks of the quarter, or by the eighth day of Summer Quarter, students may withdraw from a class and no record of the course will appear on the transcript.
2. From the third week through the eighth week of the quarter, the ninth day through the sixth week in Summer Quarter for regular summer courses, or the fourth day of the quarter for a four-week summer course, students may withdraw and a "W" will be recorded and will remain on the student's transcript. After a "W" is issued, the course may be repeated only one more time.
3. After the eighth week, or the sixth week for Summer Quarter, students may not officially withdraw from a class regardless of academic status.

*Note: Students cannot officially drop a class by simply informing the instructor of the withdrawal or by ceasing to attend class. Students must complete the add/drop process either through online services or at the Registration Office before the course withdrawal is considered official.*

## Current Contact Information

Students must maintain a current email address, telephone number, and mailing address with the college to receive correspondence regarding registration status, financial aid, grades, and other information. Updates may be made via web online student services at each of the college websites or at the Registration Office.

## 5. Pay and Prepare

Students can make payments in person at the Cashier's Office, pay using a secure online payment process on the college website, or mail payments to the college. Online payments may be made using Visa, Mastercard, American Express, and Discover credit cards. In addition to these credit cards, debit cards and checks for the exact amount of the tuition and fees owed are also accepted at the Cashier's window. Students not paid in full or enrolled in a college payment plan by the published tuition due dates will be administratively dropped from all courses and will have to re-register in open classes and pay the same day in order to enroll again for the upcoming term.

**North Seattle College | (206) 934-3627**  
**nsccashier@seattlecolleges.edu**

**Seattle Central College | (206) 934-4108**  
**cashier.central@seattlecolleges.edu**

**South Seattle College | (206) 934-5388**  
**scccashier@seattlecolleges.edu**

## Optional Payment Plan for Tuition

Each college offers a deferred payment service through a third-party sponsor. Enrollment in this program enables students to make automated monthly tuition payments from a bank account, debit card, or credit card. Students must have a tuition/fee balance of \$100 or more to be eligible for this option. Students taking Continuing Education classes and international students are not eligible for this option. For further information:

**North:** [northseattle.edu/tuition-and-fees](http://northseattle.edu/tuition-and-fees)

**Central:** [seattlecentral.edu/enrollment-and-funding/enrollment-and-admissions/tuition-and-payment](http://seattlecentral.edu/enrollment-and-funding/enrollment-and-admissions/tuition-and-payment)

**South:** [southseattle.edu/tuition-and-fees](http://southseattle.edu/tuition-and-fees)

### Fall 2023–Summer 2024 Tuition Rates Lower Division Courses

CREDIT	RESIDENT	NON-RESIDENT WAIVER ELIGIBLE	NON-RESIDENT E-LEARNING	NON-RESIDENT INTERNATIONAL
1	\$ 123.58	\$ 140.92	\$ 140.92	\$ 317.95
2	247.16	281.84	281.84	635.90
3	370.74	422.76	422.76	953.85
4	494.32	563.68	563.68	1,271.80
5	617.90	704.60	704.60	1,589.75
6	741.48	845.52	842.52	1,907.70
7	865.06	986.44	986.44	2,225.65
8	988.64	1,127.36	1,127.36	2,543.60
9	1,112.22	1,268.28	1,268.28	2,861.55
10	1,235.80	1,409.20	1,409.20	3,179.50
11	1,296.82	1,471.14	1,471.14	3,248.46
12	1,357.84	1,533.08	1,533.08	3,317.42
13	1,418.86	1,595.02	1,595.02	3,386.38
14	1,479.88	1,656.96	1,656.96	3,455.34
15	1,540.90	1,718.90	1,718.90	3,524.30
16	1,601.92	1,780.84	1,780.84	3,593.26
17	1,662.94	1,842.78	1,842.78	3,662.22
18	1,723.96	1,904.72	1,904.72	3,731.18
19	1,834.83	2,015.58	2,015.58	4,036.42
20	1,945.70	2,126.46	2,126.46	4,341.66
21	2,056.57	2,237.33	2,237.33	4,646.90
22	2,167.44	2,348.20	2,348.20	4,952.14
23	2,278.31	2,459.07	2,459.07	5,257.38
24	2,389.18	2,569.94	2,569.94	5,562.62
25	2,500.05	2,680.81	2,680.81	5,867.86

*Note: Students in Professional/Technical programs that require more than 18 credits per quarter (e.g., Culinary Arts) pay a reduced rate for those credits. See the program website.*

*Note: Check current amounts at [seattlecolleges.edu/get-started/step-5-pay-and-prepare#collapse-accordion-516-2](http://seattlecolleges.edu/get-started/step-5-pay-and-prepare#collapse-accordion-516-2).*

## Tuition

[seattlecolleges.edu/getting-started/step-5-pay-and-prepare](http://seattlecolleges.edu/getting-started/step-5-pay-and-prepare)

Tuition at community and technical colleges in Washington state is charged by credits rather than by part-time or full-time status. International students are required to carry a credit load of 12 or more to maintain their status. In addition to credit load, tuition is also determined by residency (see Residency Requirements). Students in career and technical programs that require more than 18 credits per quarter (e.g., Culinary Arts) pay a reduced rate for those credits. Tuition for bachelor's degrees (B.A.S.) and Apprentice programs are calculated at different rates.

Tuition and fees are set by the Washington State Legislature and are subject to change. For current amounts, see your campus website.

## eLearning /Distance Education

For current eLearning/Distance Education tuition and fees, see [seattlecolleges.edu/programs/elearning](http://seattlecolleges.edu/programs/elearning).

## Tuition Changes

Tuition is subject to change by the Washington State Legislature and approval by the State Board for Community and Technical Colleges. Seattle Colleges reserves the right to change any of its fees or charges without notice.

## Nonpayment of Tuition and Fees

Costs and expenses that result from collecting unpaid tuition and fees will be added to the total owed to the colleges, according to state laws RCW 28B.10.293 and RCW 19.16.500.

## Student Fees

Student fees vary each year and are approved by the state Legislature or the Seattle Colleges Board of Trustees.

Students pay a variety of fees each quarter. Typical fees might include:

- **Technology Fee**
- **Class/lab fee** for some classes for equipment or materials
- **Transportation fee**, which allows reduced-fee ORCA passes
- **Student Activity Fee**
- **Noncredit & Community Service Program Fees**  
Refer to the website at each campus for fees associated with noncredit and community education programs.
- **Other Fees**  
Refer to campus websites for other fees, like GED fee, transcript fee, assessment or placement fee, work experience evaluation fee, or proctoring services.

## Refunds

### General Refunds

Refundable tuition and fees will be refunded if complete or partial withdrawal from classes is accomplished within the first 20 calendar days of the regular college quarter starting date (District Procedure 605.30.1). Fees and tuition refunds are returned automatically once students have officially dropped online or in person with the refund schedule below:

Withdrawal resulting from classes canceled by college . . .	100%
During the first five instructional days of the college quarter* . . . . .	100%
From the sixth instructional day through the 20th calendar day of the college quarter* . . . . .	50%
No refunds after the first 20 calendar days of the college quarter . . . . .	0%

\*Subject to administrative fee of \$6.

There is no charge for dropping classes if no refund is involved. Allow at least two weeks from the time of payment for refund processing.

### Financial Aid Refunds

Refunds to financial aid recipients will be refunded to the appropriate financial aid account as required by federal and state regulations, including those students who are dismissed for disciplinary reasons. Students may be required to return financial aid funds to the college if federal or state regulations require the college to do so.

### International Refunds

International students who attend one of the colleges on a visa and make advance payments must have enrolled at the college in the quarter for which they are requesting a refund and must provide documentation establishing extenuating circumstances, such as visa denial or medical reasons.

### Intensive English Language Program Refunds

Withdrawal prior to first class . . . . .	100%
During the first five calendar days . . . . .	80%
From the sixth through the 14th calendar days . . . . .	50%
No refund after the 14th calendar day . . . . .	0%

### Continuing Education Programs and Community Education Classes

North Seattle College and South Seattle College Refund Policy:  
Before 48 hours prior to first day of class\* . . . . . 100%  
\*Subject to administrative fee of \$6.

No refunds for cancellations within 48 hours of start of class or after class begins . . . . . 0%  
Seattle Central College . . . . . varies

Due to the wide array of programs offered by Seattle Central's Continuing and Professional Education, refund policies are tailored to specific programs and courses. For specific refund information, call (206) 934-5476.

### Other Refunds

**Disciplinary Reasons:** No refund will be given to a student who is dismissed from Seattle Colleges for disciplinary reasons. (Policy 605.30.4)

**Failure to Follow Procedures:** No refund will be given to a student who fails to follow official withdrawal procedures. (Policy 605.30.4)

**Summer Quarter, Short or Irregular Courses:** Shorter courses, programs, and Summer Quarter will also be refunded, but on appropriately shortened time frames.

**Lab Fees:** Lab fees are based on consumption of supplies and materials. Those that are refundable will be refunded on the same schedule as tuition. (Policy 605.30.6)

**Parking Fees:** Parking fees will be refunded only in the case of 100 percent withdrawal from the college, in which case the fees will be refunded on the same schedule as tuition. (Policy 605.30.7)

## Tuition Waivers

Waivers can be grouped in three main categories: those required by law, those required by the State Board, and those that colleges are allowed but not required to offer (optional waivers). Seattle Colleges offers both required and optional waivers. Waivers may not be combined. Those used by Seattle

Colleges include:

- Washington State Employee Space Available Waiver
- Senior Citizen – Audit/Credit Waiver
- Wrongfully Convicted Person Waiver
- Children and Spouses of Totally Disabled or POW/MIA or Deceased Eligible Veterans or National Guard Members
- Children and Spouses of Deceased or Disabled Law Enforcement Officers or Firefighters

For more information on waivers, visit [sbctc.edu/colleges-staff/programs-services/tuition-fees/tuition-waivers](http://sbctc.edu/colleges-staff/programs-services/tuition-fees/tuition-waivers) and your campus website.

### Waivers for Veterans

Contact the Veterans Affairs Office at each campus.



# Graduation Requirements and Academic Recognition

## Graduation Requirements

To earn a degree within Seattle Colleges, a student must complete at least 90 credits and have a minimum cumulative grade point average of 2.0. At least 15 credits must be earned at the college granting the degree.

## Graduation Process

Students apply to graduate during the quarter prior to the one in which the award requirements will be completed. Applications are available online and in the Registration Office, Advising Office, and division offices. Upon approval, the award will be issued.

**Transfer-In Credits and Graduation:** Students are strongly encouraged to apply to have their transfer credits evaluated before the end of their first quarter of enrollment and no later than one quarter prior to applying for graduation.

*Note: With approval of the dean, students may elect to graduate either under the catalog in effect at the time they complete the graduation requirements or under the provisions of an earlier official catalog, provided that (a) not more than five years have elapsed since the student first enrolled under that earlier catalog, and (b) the courses required for completion are still offered. The dean may make suitable substitutions in cases where courses are no longer offered. Students are advised that if they graduate under an earlier catalog, some current transfer requirements of four-year institutions may not be satisfied. Students are advised to contact the transfer institution for current requirements.*

## Academic Recognition

Students are recognized for outstanding academic achievements through the Dean's List or President's List awards at the college they are currently attending. These awards are posted to the student's official academic transcript.

**Dean's List:** Students must have 10 or more credits per quarter at the college they are currently attending and a 3.5 quarterly GPA.

**President's List:** Students must have accumulated 30 or more credits at the college they are currently attending and have a 3.8 or higher cumulative GPA.

## Phi Theta Kappa Academic Honor Society

Phi Theta Kappa International Academic Honor Society recognizes outstanding students who have achieved academic excellence at two-year public and private colleges. It offers students the chance to serve their campus and community while developing leadership skills. In addition, Phi Theta Kappa members have access to scholarship opportunities not available to nonmembers. Each college has a Phi Theta Kappa chapter and offers membership to students whose academic work meets the organization's standards. These awards are posted to the student's official academic transcript.



# Grading & Transcripts

Students are expected to make satisfactory academic progress while enrolled at Seattle Colleges. Academic progress is defined in terms of a student's GPA and how much time a student takes to complete a degree or certificate program.

**Minimum GPA:** A cumulative grade point average of 2.0 is required to remain in good standing.

## Grades and Credits

### Standard Grading System

Seattle Colleges uses numerical grades that may be considered equivalent to letter grades as follows:

<b>A</b>	<b>4.0–3.9</b>	<b>B</b>	<b>3.1–2.9</b>	<b>C</b>	<b>2.1–1.9</b>	<b>D</b>	<b>1.1–1.0</b>
<b>A-</b>	<b>3.8–3.5</b>	<b>B-</b>	<b>2.8–2.5</b>	<b>C-</b>	<b>1.8–1.5</b>	<b>F</b>	<b>0.9–0.0</b>
<b>B+</b>	<b>3.4–3.2</b>	<b>C+</b>	<b>2.4–2.2</b>	<b>D+</b>	<b>1.4–1.2</b>		

Many programs and individual course sequences require a minimum of a 2.0 grade in order to continue with additional courses or studies. Be sure to know the specific requirements for your courses, program, or college-transfer major. Consult with your advisor or counselor. GPA is determined by dividing total points earned by total credit hours attempted.

### Nontraditional Grading Options

The following letter grade options are not universally accepted by other institutions and could jeopardize the transferability of courses and financial aid status. See your advisor.

**I – Incomplete** Indicates that the student performed at a passing level, completed most of the course requirements, and intends to make up the missing work. An Incomplete is given only at the discretion of the instructor when the student has attended regularly, done satisfactory work, and furnished satisfactory proof to the instructor that the work cannot be completed because of illness or other circumstances beyond the student's control.

An Incomplete grade must be requested prior to the final examination. Coursework must be completed during the following quarter, excluding Summer Quarter. If the student fails to remove the "I" by completing the coursework in the specified time period, the "I" will remain on the transcript. The instructor must file a written statement of reasons for giving the Incomplete, listing a description of the work the student will need to do to remove it, with the dean of the division in which the course is offered. If the student elects to repeat a course rather than make up the work, the "I" will remain on the transcript. The grade earned will compute in the GPA; after receiving an "I" in a course, a student may repeat that course only once.

**S – Satisfactory/Credit** Used for individual progress, clinical, and skill development courses. This symbol is not used for college transfer courses numbered 100 and above, except designated pass/fail courses as approved by the Office of Instruction.

**N – Audit (no credit)** To audit a course means to register for and attend class without receiving a grade or credit. An "N" grade, rather than credit, is recorded on the transcript. Students must officially register to audit a course. Registration for an "N" may be made until the end of the second week of the quarter without the instructor's signature or the end of the eighth week (sixth week of Summer Quarter) with the instructor's approval and signature. Students are responsible for consulting with the instructor regarding class requirements. After an "N" is issued, the course may be repeated no more than one more time. If the instructor's requirements for an "N" are not satisfied by the student during the course, the instructor may issue an "NC" (No Credit) symbol.

Students changing their status from audit to credit or credit to audit must make official changes within specific deadlines.

**NC – Satisfactory/No Credit** Indicates that the student did not fulfill the requirements for receiving an "S" grade, an "N" grade, or a numerical grade in the course. A student in good standing may request an "NC" symbol from the instructor prior to the final examination, granted at the instructor's discretion. After an "NC" is issued, the course may be repeated no more than one more time. An "NC" does not affect a student's GPA.

**W – Official Withdrawal** This grade will be recorded and will remain on the student's transcript. After a "W" is issued, the course may be repeated no more than one more time. (See "Adding or Dropping Classes," page 219).

**Y – Ongoing Course** Used for a course that is two or more quarters in length. The final grade for the course will be reported at the last quarter.

**R – Repeat** (not computed in the GPA)

**U – Unsatisfactory**

\* – Late or Missing Grade

## Repeating a Course

There are two situations in which a student may repeat a course for grade replacement. To qualify for GPA improvement, both the initial course and repeated course must be taken at the same college.

1. GPA improvement. A credit course may be taken no more than three times total. Upon successful completion of a repeated course, the college will adjust the record to reflect the highest of the decimal grades used in the GPA computation. The student will be credited only once for the class. No more than two attempted grades may be selected for exclusion in the GPA computation.

Note: Students planning to transfer to another institution should check with that institution to determine potential GPA impacts.

2. Multiquarter continuous training courses use the same course number from quarter to quarter. In this situation, credits earned are cumulative and all grades are used to determine the GPA.

## Grade Errors or Changes

Report grade errors or grade changes immediately to the Registration Office. Grade errors or changes must be reported no later than the last day of the quarter that follows the quarter in which the grade was received, except a Spring Quarter grade may be reported through the last day of the following Fall Quarter. Students are encouraged to consult with their instructor before initiating a grade review process as outlined in the complaint procedure.

After a course grade has been assigned, supplemental or additional class work will not be accepted for the purpose of changing that grade except in the case of an "I" (Incomplete) grade.

## Transferring Credits from Other Colleges

For students pursuing a degree or certificate, an evaluation of incoming credits request may be submitted after transcripts from other institutions are received.

### Limitations on Transfer of Courses or Credits

Transfer credit is not awarded for the following types of study or coursework: (1) courses taken at colleges or universities that are not regionally accredited, (2) noncredit courses and workshops, (3) remedial or college preparatory courses, and (4) sectarian religious studies.

Also, see the Reciprocity Agreement for College Transfer Programs on page 24.

## Credit by Examination & Credit by Experiential Learning Portfolio

Colleges may award credit by examination to a student not formally enrolled in a class by requiring the student to pass a comprehensive examination on the subject matter of the course. Individual programs at individual colleges may offer credit for an experiential learning portfolio demonstrating learning gained outside the traditional classroom.

A student must be enrolled in or have completed at least one course at the college before applying for prior learning credits by examination or experiential learning portfolio.

The charge for Credit by Examination & Credit by Experiential Learning portfolio will a \$100 base fee plus \$40 per credit. Credits earned by examination or portfolio will be noted as such on the transcript. Credits shall be graded, and each division or department will determine the minimum grade standards for granting credit by examination. Credits by examination may not exceed 50 percent of the necessary credits for a degree or certification. Credits by experiential learning portfolio may not exceed 25 percent of the necessary credits for a degree or certification. Credits awarded through prior learning options are not considered residence credits.

## Transcripts

Students can get an unofficial transcript at no cost via Student Online Services at the college website. Transcripts will not be released if students have not fulfilled all financial obligations to the college.

Official, sealed transcripts (a copy of a student's permanent academic record) are required by other institutions when students transfer. A fee is assessed for each official transcript requested and must be submitted in writing to the Registration Office of the college where the classes were taken or online at [studentclearinghouse.org](http://studentclearinghouse.org). Allow two working days for processing.

Testing Centers no longer have GED® records. Test scores must be requested from the GED® Testing Service directly at [gedtestingservice.com/testers/gedrequest-a-transcript](http://gedtestingservice.com/testers/gedrequest-a-transcript).

“During my time at North Seattle College, I will remember most the supportive and diverse community of faculty, staff, and students. I have made lifelong connections and friendships through the numerous student organizations and events held on campus. Additionally, the quality of education I received was exceptional, and the resources provided by the college helped me achieve academic success. Overall, my time at Seattle Colleges has greatly impacted my personal and professional growth, and I will always cherish the memories and experiences I had here.”

– Souleymane B.

# Student Conduct, Rights, and Responsibilities

## Responsibilities & Right to Know

[seattlecolleges.edu/students-rights-and-rules](http://seattlecolleges.edu/students-rights-and-rules)

## Records

### Confidentiality of Records

The Family Educational Rights and Privacy Act (FERPA) (20 U.S.C. & 1232g; 34 CFR Part 99) is a federal law that protects the privacy of student education records. The law applies to all schools that receive funds under an applicable program of the U.S. Department of Education. Information about Seattle Colleges' students is collected, maintained, and used to meet the college's educational objectives. Students are protected against improper disclosure of their records. These rights begin the first day of class and extend to all former students.

### Student Rights and Educational Records

FERPA affords students certain rights with respect to their education records. These rights include:

1. The right to inspect and review the student's education records within 45 days of the day the college receives a request for access. A student should submit a written request that identifies the record(s) the student wishes to inspect. The college official will arrange for access and notify the student of the time and place where the records may be inspected.  
If the records are not maintained by the college official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.
2. The right to request the amendment of the student's education records that the student believes are inaccurate, misleading, or otherwise in violation of the student's privacy rights under FERPA. A student who wishes to ask the college to amend a record should write the college official responsible for the record, clearly identify the part of the record the student wants changed, and specify why it should be changed. If the college decides not to amend the record as requested, the college will notify the student in writing of the decision and the student's right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of a right to a hearing.
3. The right to provide written consent before the college discloses personally identifiable information from the student's education records, except to the extent that FERPA authorizes disclosure with our consent. The college discloses education records without a student's prior written consent under the FERPA exception for disclosure to school officials with legitimate educational interests.

A school official is a person employed by the college in an administrative, supervisory, academic, research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the college has contracted or is assigned to provide a service instead of using college employees or officials (such as an attorney, auditor, or collection agent, or a clinical, intern, or extern site); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.

A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibilities for the college.

In addition, upon request, the college discloses education records without consent to officials of another school in which a student seeks or intends to enroll.

4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by the college to comply with the requirements of FERPA. Following are the name and address of the office administering FERPA: Family Policy Compliance Office, U.S. Department of Education, 400 Maryland Ave. SW, Washington, DC 20202-5901

### Disclosure of Student Directory Information

The college may disclose a student's following directory information unless the student affirmatively submits a written notice to the Registrar's Office requesting that the directory information not be released. Directory information includes:

- Student's name
- The act of enrollment in the college
- Date(s) of enrollment
- Division or area of study
- Awards granted to the student by the college
- Participation in officially recognized activities in sports
- Weight and height of athletic team members
- Email address

### Exceptions

For more information on exceptions to the requirement, see Policies and Procedures 380.Student Records at [seattlecolleges.edu/about/policies-and-procedures/pol380](http://seattlecolleges.edu/about/policies-and-procedures/pol380).

### Additional Information

For more information regarding student rights, students should contact the Registration Office on each campus.

## Student Identification Numbers

Student identification (ID) numbers are used in college transactions. Each student is assigned a unique nine-digit ID number through ctLink, the data system serving Washington's community and technical college system. A student's ctLink ID number (also referred to as EMPLID) is used to access college records and conduct college business such as registration, tuition and fee payment, and other student services at Seattle Colleges. If students transfer in from or out to another public community or technical college in Washington state—including North Seattle, Seattle Central, and South Seattle Colleges—they continue to use their ctLink ID to access their information.

To comply with federal laws, the colleges are required to ask for the student's Social Security Number (SSN) or Individual Taxpayer Identification Number (ITIN). Colleges use the SSN/ITIN to report American Opportunity Tax Credit or Lifetime Learning Tax Credit; to administer state/federal financial aid; to verify enrollment, degree, and academic transcript records; and to conduct institutional research. Pursuant to state law (RCW 28B.10.042) and federal law (Family Rights and Privacy Act), the college will protect a student's SSN from unauthorized use and/or disclosure. If a student does not submit an SSN/ITIN, the student will not be denied access to the college; however, the student may be subject to civil penalties (refer to Internal Revenue Service Treasury Regulation 1.6050S-1(e)(4) for more information).

## Behavior, Environment & Physical Safety

### Campus Security Offices

Students should use the same caution they would use in any public place in taking care of their personal safety and personal belongings. Campus safety/security offices provide helpful information for the campus community. Call 911 for serious emergencies.

**District (206) 934-5442**      **Central (206) 934-5442**  
**North (206) 934-3636**      **South (206) 934-5157**

### Safety & Security

Students are obligated to respect the rights of others and to refrain from any actions endangering the health, safety, and welfare or property of others. Students are expected to comply with the policies, procedures, and regulations approved by the Board of Trustees and with Washington state and federal regulations. For additional information, refer to each college's student handbook.

### Campus Crime Data

Statistics on criminal incidents, as required by the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act, are available at college safety/security offices as well as campus websites. For the last three years, campus crime data, along with general information, is provided by the Office of Postsecondary Education of the U.S. Department of Education, [ope.ed.gov/campusafety](http://ope.ed.gov/campusafety).

## Accidents

The students' well-being and safety are of the utmost importance. It is vital that everyone follow strict safety procedures recommended in all classes, particularly career and technical classes. In the event of an on-campus accident or injury, students and faculty should report the accident to the Security Office so the injury can be addressed and an accident report completed. Do not hesitate to immediately call 911 for serious injuries.

## Alcohol and Drugs

Alcohol and drugs are prohibited. Seattle Colleges prohibits the abuse of alcohol and the unlawful manufacture, distribution, possession, and use of illicit drugs. This policy applies to all employees and students of Seattle Colleges while they are on district property or while they are conducting college business, regardless of location. To provide a healthy, safe, and secure working and learning environment, each employee and student of Seattle Colleges is expected to be in an appropriate mental and physical condition to perform assigned duties and fully participate in the learning process. Seattle College District Policy 249 ("Drug-Free Environment") and resources for students and employees who need assistance with substance abuse problems are outlined in a brochure available on each campus and at [seattlecolleges.edu/about/policies-and-procedures](http://seattlecolleges.edu/about/policies-and-procedures).

National Institutes of Health provides a list of drugs and their dangers and effects: [drugabuse.gov/drugs-abuse](http://drugabuse.gov/drugs-abuse).

## Weapons

Seattle Colleges is committed to providing a safe and secure environment for the Seattle Colleges community and its guests. This policy sets forth restrictions on the ability to carry firearms or weapons, concealed or otherwise, on all Seattle Colleges properties.

Possession, holding, wearing, exhibiting, transporting, storage, or presence of any firearm, dagger, sword, knife, other cutting or stabbing instrument, club, explosive device, or any other weapon apparently capable of producing bodily harm is prohibited on the college campus, subject to the following exceptions:

- Commissioned law enforcement personnel or legally authorized military personnel may possess weapons while in performance of their duties.
- An individual with a valid concealed weapons permit may store a pistol in his or her vehicle parked on campus in accordance with RCW 9.41.050, provided the vehicle is locked and the weapon is concealed from view; or

The president or president's designee may grant permission to bring a weapon on campus upon a determination that the weapon is reasonably related to a legitimate pedagogical purpose. Such permission shall be in writing and shall be subject to such terms or conditions incorporated in the written permission.

This policy does not apply to the possession and/or use of disabling chemical sprays when possessed and/or used for self-defense.

## Workplace Violence/Hostile Work Environment

Workplace violence or a hostile work environment will not be tolerated at Seattle Colleges (District Policy 451).

## Discrimination and Harassment

Seattle Colleges has enacted policies prohibiting discrimination against and/or harassment of any student, employee, visitor, or member of a legally protected class. This includes sexual harassment, which is a form of discrimination consisting of unwelcome and gender-based verbal, written, electronic, and/or physical conduct. Further, Seattle Colleges is committed to ensuring that all employees and students work and learn in an environment that fosters mutual respect and professionalism, free from all forms of “bullying” behaviors, including “cyberbullying,” as defined in Procedure 419. All employees and students are responsible for contributing to such an environment and are expected to treat other employees, students, and visitors with courtesy and respect.

## Hazing Prevention

Seattle Colleges prohibits student organizations and their members from engaging individually or collectively in hazing activities. Hazing includes any act committed as part of a person’s recruitment, initiation, pledging, admission into or affiliation with a student organization, athletic team, or living group that causes, or is likely to cause bodily danger, physical harm, or serious psychological or emotional harm to any student or other person. This includes coercing or forcing a person to consume any food, liquid, alcohol, drug, or other substance which subjects the person to risk of such harm, regardless of the person’s willingness to participate. Refer to District Policy and Procedure 376. For more information and to report hazing, go to [seattlecolleges.edu/students-rights-and-rules/hazing-prevention](http://seattlecolleges.edu/students-rights-and-rules/hazing-prevention).

## Smoking

Smoking is prohibited indoors and within 25 feet of the entrance to any public building, per Washington state law. North Seattle College is a tobacco-free campus. The use of tobacco products, chew, or e-cigarettes/vapor is prohibited on campus grounds.

## Traffic Laws

State motor vehicle laws and the Seattle traffic code apply to campus traffic. The campus speed limit is 15 miles per hour unless posted otherwise.

## Disciplinary Action

Disciplinary action will be taken against students who violate standards of conduct established by the college. If informal procedures do not resolve the issue, formal committee proceedings may be initiated. See your college’s student handbook for more information.

## HIV/AIDS

### Transmission of HIV and Prevention of AIDS

To ensure the health and well-being of our college community, and to be in compliance with state codes, Seattle Colleges provides the following resources for information about transmission of the Human Immunodeficiency Virus (HIV), and the causative factor leading to Acquired Immune Deficiency Syndrome (AIDS). Complete and current information about specific risk factors for HIV/AIDS is available at the Seattle/King County Department of Health.

**HIV/AIDS Program , 400 Yesler Way, Third Floor, Seattle, WA 98104 (206) 296-4649**

Find information about HIV and AIDS at [kingcounty.gov/depts/health/communicable-diseases.aspx](http://kingcounty.gov/depts/health/communicable-diseases.aspx).

## Emergency Preparedness & Communications

The colleges work together to develop and share procedures and communications tools for use during unforeseen emergencies. Because the safety of students and staff is of greatest concern, a variety of systems are now available at each campus, and safety measures are reviewed and expanded on an ongoing basis.

Among resources available to students, faculty, and staff is SeattleColleges Alerts, which is powered by Rave Mobile Safety. These alerts allow the colleges to communicate quickly with students and employees during weather-related delays, closures, and other campus emergencies by sending alerts to computers and mobile devices via email and text message.

Learn more about SeattleColleges Alerts by visiting [seattlecolleges.edu/alerts](http://seattlecolleges.edu/alerts).

For more information about emergency communications and contacts, preparing for an emergency, and procedures for closure at Seattle Colleges, visit [seattlecolleges.edu/about/safety-and-security](http://seattlecolleges.edu/about/safety-and-security).

## Districtwide Information & Policies

### Equal Opportunity Statement and Accommodation for Seattle Colleges Students and Employees

Seattle Colleges does not discriminate on the basis of race or ethnicity, color, age, national origin, religion, marital status, sex, gender, sexual orientation, gender identity, veteran or disabled veteran status, political affiliation or belief, citizenship/status as a lawfully admitted immigrant, or disability. The district is committed to preventing and stopping discrimination, including harassment of any kind and any associated retaliatory behavior.

Seattle Colleges will take steps to assure that the lack of English language skills will not be a barrier to admission and participation in all educational and vocational education programs.

Inquiries regarding compliance and/or grievance procedures and disability support services may be directed to:

**Compliance Officer, Seattle Colleges, 1500 Harvard Avenue Seattle, WA 98122 | (206) 934-3873**

### Simplified Chinese

西雅图学院区致力于在教育、就业、服务和合同方面为所有学生、雇员和申请人提供平等机会，并且不根据种族或族裔、肤色、年龄、国家出身、宗教、婚姻状况、性别、性取向、性别认同、退伍军人或伤残退伍军人的地位、政治归属或信仰、公民身份/作为合法获准在美国工作的移民的身份或任何身体、感官或精神残疾的存在，除非残疾可能妨碍在可接受的水平上的表现。此外，为所有其他合格的残疾人提供合理的身体或精神限制。关于遵守和（或）申诉程序的询问，可向学院标题 IX/RCW 28A.640 官员提出。

### Russian

Округ двухгодичных колледжей Сиэтла (Seattle College District), в состав которого входят двухгодичные колледжи Центрального (Seattle Central College), Северного (North Seattle College) и Южного Сиэтла (South Seattle College), а также Профессионально-технический институт Сиэтла, придерживается принципов и практики равенства возможностей для всех студентов, работников и соискателей в сфере обучения, занятости, услуг или заключения контрактов и не дискриминирует на основании расовой или этнической принадлежности, цвета кожи, возраста, национального происхождения, вероисповедания, семейного положения, пола, половой ориентации, гендерной самоидентификации, статуса ветерана или инвалида войны, политической принадлежности или политических убеждений, гражданства или статуса иммигранта, законно допущенного в США с разрешением на работу, или наличия нарушений физического, сенсорного или психического развития, за исключением случаев, когда такие нарушения могут воспрепятствовать приемлемой деятельности. При этом всем выявленным лицам с физическими или психическими нарушениями, допущенным к учебе или работе, предоставляются адекватные условия в разумных пределах. Запросы и/или жалобы, связанные с политикой недискриминации, можно направлять ответственному по колледжу за соблюдение поправки Title IX/RCW 28A.640 и/или координатору по разделу Section 504/ADA.

### Somali

Degmada Kulliyada Jaaliyada Seattle «Seattle College District», oo ay ku jiraan Bartamaha Seattle, Kulliyadda Jaaliyada Woqooyiga iyo Koonfurta Seattle iyo Dugsiga Mihnadda Seattle ayaa u daacad ah aaraada guud iyo ku-dhaqanka u sinnaanta fursadaheeda dhammaan ee ay siiso ardaydeeda, shaqaalaheeda iyo kuwa soo codsada waxbarashada, shaqadda, adeegyada, qandaraasyada, kala soocna aassaas uguma dhigto jinsiyad ama qolo, midab, da', qowmiyadda asalka qofka, diin, xaalad guur, jinsi, jandarka, u-jeedka isutagga, aqoonsi sinji, xaaladda qof askari ahaan jiray ama askarinimo ku naafoobay, ku lug la haahaanshaha siyaasad, aaminaad, xaaladdiisa muwaaddinnimo wadankan si sharci ahaan loogu ogolaadey inuu ugu soo haajirey oo loo ogol yahay inuu ka shaqeysto ama jiritaanka naafada jirka, dareenka, ama naafada maskaxda, laga reebo markay naafonimadu ka hor istaageyso howsha shaqada ee laga rabo. Waxa intaa dheer, u-waafajin (accommodations) macquul ah oo xaddidan ee la og yahayyaa loo sameyn ee jirka ahaan ama maskadaee dhammaan dadka naafonimada leh ee arrinta u qalma. Qofka hoos ku qoran ayaa loo magacaabay inay wax ka qabato weydiimaha ku saabsan arrimaha ujeedooyinka kal-sooc-la'aanta oo ay ku jirto kuwa la xiriira Sec 504 ADA iyo Title IX.

### Spanish

Seattle College District, que incluye Seattle Central, North Seattle y South Seattle Colleges, tienen un compromiso con el concepto y la práctica de la igualdad de oportunidades para todos sus estudiantes, empleados y postulantes con respecto a educación, empleo, servicios y contratos, y no discriminan por motivos de raza o grupo étnico, color, edad, nacionalidad, religión, estado civil, sexo, género, orientación sexual, identidad de género, condición de veterano o veterano discapacitado, afiliación política o creencia, ciudadanía / condición de inmigrante admitido legalmente y autorizado a trabajar en los Estados Unidos, o presencia de alguna discapacidad física, sensorial o mental, excepto cuando la discapacidad pudiera impedir un desempeño de un nivel aceptable. Además, se implementarán todas las adaptaciones razonables para las limitaciones físicas o mentales conocidas para todas aquellas personas que cumplieran con los demás requisitos y tuvieran discapacidades. La persona que se menciona a continuación ha sido designada para manejar las consultas con respecto a las políticas antidiscriminatorias, incluso aquellas relacionadas con la Sección 504 de la Ley para los Estadounidenses con Discapacidades (ADA, por sus siglas en inglés) y el Título IX como sea listado.

## Vietnamese

Những Trường Đại Học Cộng Đồng Seattle, bao gồm Trường Đại Học Cộng Đồng Trung Seattle, Bắc Seattle, Nam Seattle và Seattle Vocational Institute, cam kết với các khái niệm và thực hành của các cơ hội bình đẳng cho tất cả các sinh viên, nhân viên và các đương đơn trong giáo dục, việc làm, dịch vụ và hợp đồng. Trường cũng không phân biệt đối xử dựa trên sắc tộc hoặc chủng tộc, màu da, tuổi, quốc gia nơi xuất thân, tôn giáo, tình trạng hôn nhân, phái tính, giới nhận dạng giới tính, địa vị cựu chiến binh hoặc cựu chiến binh tàn tật, sự liên kết chính trị hoặc quan điểm chính trị, tình trạng công dân/diện di trú nhập cảnh hợp pháp được phép làm việc tại Hoa Kỳ, hoặc có tình trạng khuyết tật về thể chất, giác quan, hoặc tâm thần, trừ khi tình trạng khuyết tật có thể gây trở ngại tới khả năng sinh hoạt ở mức độ chấp nhận được. Ngoài ra, trường sẽ cung cấp các phương tiện trợ giúp đặc biệt cho tất cả những người khuyết tật hội đủ điều kiện nếu có các hạn chế về thể chất hoặc tâm thần. Yêu cầu về tuân thủ hoặc thủ tục khiếu nại, xin vui lòng liên hệ đến nhân viên của trường đại học Danh IX/ RCW 28A.640 và / hoặc Phần phối 504/ADA như được liệt kê.

## Disability Services for Students

Seattle Colleges is dedicated to providing equal opportunity for qualified students with disabilities to participate in college programs, services, events and activities, in accordance with Section 504 of the Rehabilitation Act, the Americans with Disabilities Act and Seattle Colleges District Policy 387 ([seattlecolleges.edu/about/policies-and-procedures/387](http://seattlecolleges.edu/about/policies-and-procedures/387)). For each campus, Disability Services (DS) is the designated office that coordinates services for students with disabilities.

To be eligible for academic accommodations, students engage in an interactive process with Disability Services and must provide documentation that includes the diagnosis and current functional impact on their academic performance. Disability Services works cooperatively with students, faculty and staff to arrange individualized accommodations. Qualified students must also meet the academic and technical standards required for admission to college programs or activities.

Students are advised to contact the DS office early in their educational planning to avoid delays in service. Disability Services promotes universal design within the College to create a welcoming and inclusive environment for all students.

To request services, students should contact the Disability Services office for the campus they plan to attend:

**North Seattle College, 206-934-7808**  
**Disability Services ([northseattle.edu/disability-services](http://northseattle.edu/disability-services))**

**Seattle Central College, 206-934-4183**  
**Accessibility Resource Center ([seattlecentral.edu/campus-life/student-support-and-services/disability-support](http://seattlecentral.edu/campus-life/student-support-and-services/disability-support))**

**South Seattle College and Georgetown, 206-934-5137**  
**Disability Services ([southseattle.edu/disability-services](http://southseattle.edu/disability-services))**  
**[seattlecolleges.edu/about/policies-and-procedures/pol387](http://seattlecolleges.edu/about/policies-and-procedures/pol387)**

## Title 38/Title 10

Seattle Colleges academic programs of study are approved by the Washington Student Achievement Council's State Approving Agency for enrollment of people eligible to receive educational benefits under Title 38 and Title 10, U.S. Code.

## Completion & Transfer Rates

Statistics and information on Completion and Transfer Rates at the colleges are available on the Facts and Figures web page: [seattlecolleges.edu/about/facts-and-figures](http://seattlecolleges.edu/about/facts-and-figures).

The official rules for students at Seattle Colleges can be found in the Washington Administrative Code, Chapter 132F-121 WAC – Student Activities, Rights, and Discipline. The Washington Administrative Code (WAC) is the official compilation of all current rules that have been adopted by state institutions of higher education and other state administrative agencies.

[apps.leg.wa.gov/WAC/default.aspx?cite=132F-121](http://apps.leg.wa.gov/WAC/default.aspx?cite=132F-121)

## District Policies Relating to Students

View Seattle College policies at [seattlecolleges.edu/district/studentlife/studentrules.aspx#official](http://seattlecolleges.edu/district/studentlife/studentrules.aspx#official). Every reasonable effort has been taken to ensure the accuracy of this information. However, readers are encouraged to contact the individual Student Services departments at each college for more info.

## Student Complaints

Seattle Colleges has established procedures to assist students who feel they have a complaint relating to grades or an action by a member of the college community. These rules can be found at [apps.leg.wa.gov/WAC/default.aspx?cite=132F-121](http://apps.leg.wa.gov/WAC/default.aspx?cite=132F-121).

**North Complaints Officer (206) 934-4703**  
**Central Dean of Student Development (206) 934-3890**  
**South Dean of Student Life (206) 934-6749**

## Memberships

Seattle Colleges is a member of several national organizations for higher education, including the American Association of Community Colleges (AACC), American Association for Women in Community Colleges (AAWCC), Association of Community College Trustees (ACCT), and League for Innovation in the Community College.

In Washington, Seattle Colleges holds membership in the Trustees Association for Community and Technical Colleges (TACTC) and the Washington Association of Community and Technical Colleges (WACTC).

Regionally, Seattle Colleges belongs to the Seattle/King County Economic Development Council, Workforce Development Council Board, Seattle Chamber of Commerce, the Road Map Project Sponsor Group, the Puget Sound Coalition, and the Northwest Commission of Colleges and Universities (NWCCU).



# North Seattle College

## Welcome

For students who intend to transfer to a four-year college or university, starting at North Seattle College offers real advantages—strong academic preparation and advising services, small classes, an innovative integrated studies program, broad eLearning options, and a variety of partnerships with four-year schools. While many graduates have continued their studies at universities such as Dartmouth, Penn State, and UC Berkeley, most North students transfer to the University of Washington. North consistently ranks highest among all community colleges in the number of students who are accepted to the University of Washington's main campus, and North graduates fare well, going on to earn the highest median wages of any Washington community or technical college.

North provides outstanding career training in more than 60 certificate and degree programs, including those in emerging fields such as nanotechnology, sustainable and conventional energy and control technology, and fraud accounting. Additionally, North helps students earn GEDs, learn English, enhance basic skills, and pursue new skills or personal interests.

North Seattle College also offers six bachelor's degrees:

- Accounting (with International Accounting) Bachelor of Applied Science (BAS)
- Computer Science Bachelor of Science (BS)
- International Business BAS
- Information Technology Application Development BAS
- Early Childhood Education BAS
- Property Management BAS

The college's programs are designed for working students, using a hybrid format of online learning combined with weekday evening classes. North is planning to offer additional bachelor's programs in the future, so keep checking the college website.

The college offers a rich student life. Concerts, plays, fitness programs, an award-winning literary magazine, and a diverse student population add depth to students' experiences. Conveniently located in a quiet residential neighborhood five miles north of downtown, the 62-acre campus includes environmentally sensitive wetlands that have inspired a collegewide commitment to sustainability. The campus is also easily accessible via the John Lewis Memorial Pedestrian Bridge from the Northgate Link light rail station.

Come for a visit and learn how North changes lives.

## Mission

As an open-access learning institution, Seattle Colleges prepares each student for success in life and work, fostering a diverse, engaged, and dynamic community.

## Vision

Seattle Colleges is recognized as an exemplary learning institution that transforms lives, promotes equity, and enriches the community.

## Core Themes

- Advancing Student Success
- Excelling in Teaching and Learning
- Building a Sustainable Community

### Getting Started at North

<b>Admissions</b>	<b>(206) 934-3663</b>
<b>Financial Aid</b>	<b>(206) 934-3688</b>
<b>Registration</b>	<b>(206) 934-3663</b>
<b>TTY</b>	<b>(206) 934-0079</b>

## Facts at a Glance\*

### 2021–2022 ANNUAL PROFILES

Annual Attendance	10,731
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#### Special Enrollments

Distance Education	8,757
Running Start	521
International Students	282
Worker Retraining	363

#### Students

Average Age	34
Ethnic Diversity	37%
Male/Female	31%/52%
With Bachelor or Higher Degrees	11%
Full-time/Part-time Attendance	28%/72%

#### Programs

College Transfer	30%
Career and Technical	23%
Basic Education	9%
Other	37%

#### Course Funding Sources

State-funded	75%
Contract-supported	10%
Student-supported	16%

\* Source: Seattle College District Database

# Student Services

## Advising

(206) 934-3658 | [advisornorth@seattlecolleges.edu](mailto:advisornorth@seattlecolleges.edu)  
[northseattle.edu/advising](http://northseattle.edu/advising)

Advisors help students select courses and programs to reach their educational goals. Both new and currently enrolled students work with advisors to develop personalized education plans based on the degrees or certificates they are pursuing. Advising assists students in connecting with other campus support services, provides resources and workshops on college transfer planning and provides opportunities for students to meet with four-year college representatives.

## Career Services

(206) 934-6074 | [careerservices@seattlecolleges.edu](mailto:careerservices@seattlecolleges.edu)  
[northseattle.edu/career-services](http://northseattle.edu/career-services)

Career Services provides students with full-time and part-time job listings, job search training, labor market information, and assistance with clarifying career and occupational goals. Career Services can also provide Career Search workshops in the classroom or work with students one-to-one. The WorkSource Center North Seattle, located in the Opportunity Center for Employment and Education, offers a wealth of job search resources, workshops, and events designed to help students and all job seekers find employment. A schedule of WorkSource North Seattle workshops and hiring events can be found at [worksourcewa.com](http://worksourcewa.com) (click on Career Tools).

## Externships & Practicums

Externships and/or practicums are required for some academic programs. These courses contribute to a significant applied, hands-on learning focus for the degree/certificate, giving students real-world experience that they can bring to future jobs. Externship locations, course credits, and student expectations vary depending on the program of study. Specific information is available from the instructor. Students participating in externships may be required to pay for general liability insurance.

## Internships

(206) 934-3734  
[northseattle.edu/internships](http://northseattle.edu/internships)

Internships provide students with the opportunity to earn college credit while gaining practical work experience in their field of study. The Cooperative Work Experience (CWE) courses begin with CWE 101, a 2-3 variable credit course designed to assist students preparing for, developing and applying for internships. Once an internship is secured, CWE 110 provides 3 credits for the internship.

## Class Schedule Quarterly

[resources.northseattle.edu/schedule](http://resources.northseattle.edu/schedule)

Each college produces a quarterly class schedule listing the specific courses being offered that quarter. This schedule is available online approximately six weeks before the start of each quarter. View the online class schedule or download a PDF of the printed schedule at the website above.

## Computer Labs

(206) 934-3630  
[itservices.seattlecolleges.edu/computer-labs-wifi](http://itservices.seattlecolleges.edu/computer-labs-wifi)

There are five computer labs located on campus. The Open Computer Lab IB 3303 is located in the Instructional Building, northwest corner, third floor ([northseattle.edu/locator](http://northseattle.edu/locator)) map. This Open Computer Lab is the best place to start with computer-related problems. The other computer labs are located and described below. For EAD-related problems, be prepared to show picture ID and provide ID number.

## Counseling

(206) 934-3676  
[northseattle.edu/counseling](http://northseattle.edu/counseling)

Counseling offers North students free, confidential counseling appointments, classes, workshops, and online self-help to identify career interests and select programs of study. Counseling can help students cope with social-emotional concerns, identify careers, select programs of study, strengthen study skills, manage time and stress, manage crises, and find referral resources.

## Disability Services

(206) 934-3697      Fax (206) 934-3958  
[ds@seattlecolleges.edu](mailto:ds@seattlecolleges.edu)    [northseattle.edu/disability-services](http://northseattle.edu/disability-services)

Disability Services provides accommodations so qualified students with disabilities have equal opportunities at North. Some accommodations include sign language interpreters, adaptive equipment and software, testing modifications, note taking, and books in alternative format. Students should contact Disability Services as soon as possible to avoid delays in accommodations. We also offer consultations to faculty and staff about course content that provides equal access.

*For specific details and additional information on eligibility and policies, see page 62.*

## eLearning/Distance Education

(206) 934-3738

[elearning.northseattle.edu/](http://elearning.northseattle.edu/)

North's eLearning Support Center provides logistical support to distance learners as well as on-campus students in hybrid and web-enhanced classes. Academic divisions offer many credit courses and curricula through several nontraditional delivery modes, including fully online and blended learning. These modes bring new learning options to students who have diverse learning styles, those who require flexibility in their schedules, and those who do not live within commuting distance. Students can earn an A.A. degree and/or receive specific certificates through fully online courses.

*See page 7 for complete information on eLearning options.*

## International Programs

(206) 934-3672

Email: [IntlNorth@seattlecolleges.edu](mailto:IntlNorth@seattlecolleges.edu)

[intl.seattlecolleges.edu](http://intl.seattlecolleges.edu)

This office provides comprehensive support services for students on non-resident visas studying at North. Key functions of the office include advising on immigration and instructional programs, housing, medical insurance, or personal concerns that may be impacting student success. Field trips and other student activities that help students adjust to life in Seattle and promote intercultural communication and an enhanced experience of American culture are also provided.

*See page 8 for additional International Programs and Services serving the Seattle Colleges, including international student admissions. Study Abroad opportunities are outlined at [intl.seattlecolleges.edu/go-abroad](http://intl.seattlecolleges.edu/go-abroad).*

## Library Services

Library Circulation (206) 934-3607

Reference (206) 934-3609

[libguides.northseattle.edu/welcome](http://libguides.northseattle.edu/welcome)

The Library offers a wide range of services, including research assistance and instruction, individual and group study space, and computers, and access to a wide variety of resources, including class textbooks, books, magazines, journals, and media in a variety of formats.

## The Student Media Center

(206) 934-0070

[libguides.northseattle.edu/StudentMediaCenter1](http://libguides.northseattle.edu/StudentMediaCenter1)

The SMC is on the upper floor of the NSC Library. The SMC provides students with access to media resources and basic instruction, enabling them to incorporate audiovisual and print media into their course assignments and presentations.

## Teaching and Learning Center

(206) 934-3776

[webshares.northseattle.edu/tlc/index.shtm](http://webshares.northseattle.edu/tlc/index.shtm)

The TLC is dedicated to the professional development of North's faculty and staff. We actively support and encourage the continuous improvement of teaching and learning at NSC through workshops; one-on-one assistance; and access to computers, educational technologies, and other equipment.

## Opportunity Center for Employment & Education (OCE&E)

(206) 934-6199

[nscocceinfo@seattlecolleges.edu](mailto:nscocceinfo@seattlecolleges.edu)

[northseattle.edu/ocee](http://northseattle.edu/ocee)

The OCE&E brings together multiple state agencies, community-based organizations, and community colleges to help customers achieve self-sufficiency through education and employment. It is the most comprehensive multiservice center on a community college campus in Washington. It offers customer-friendly employment, education, and social services for the unemployed, the underemployed, students, and their families. It provides access to WorkSource employment services, Department of Social & Health Services benefits, North's Workforce Education financial assistance programs, and other organizations—all conveniently located in one building. Students can learn more about how to access the OCE&E and its services through the website (above) or through the OCE&E Canvas (online learning management system) community.

## Student Learning Center

(206) 934-4752

[northseattle.edu/tutoring](http://northseattle.edu/tutoring)

HSSR building next to the Grove Café

The Student Learning Center offers comprehensive one-on-one and group tutoring services, including accounting, biology, chemistry, computer science, English, ESL, math, world languages, and more. The center also provides other support services, including multimedia computer labs, study rooms, and student success workshops.

## Page One Writing & Language Center

The Page One Writing & Language Center offers tutoring assistance on reading, writing, listening, or speaking assignments for any class offered at North.

## The Math/Science Learning Center

The Math/Science Learning Center (MSLC) offers free tutoring assistance to all North students currently enrolled in math, physics, chemistry, or computer science classes. Biology tutoring is also offered in a lab setting.

## Accounting and Business Learning Center

The Accounting & Business Learning Center offers students coaching on accounting and business statistics questions and problems. Other Business Engineering & Information Technology (BEIT) Division programs that offer tutoring help include Real Estate, Electronics, and Information Technology.

## Testing Center

(206) 934-3674  
 NSCTesting@seattlecolleges.edu  
 northseattle.edu/testing

Students seeking a degree or certificate or enrolling in most English or mathematics classes (or classes with English or mathematics prerequisites) must take the placement tests prior to registration. These tests help the student and advisor select appropriate classes. The placement tests are offered during weekly drop-in hours. Basic Transitional Skills tests, which include ABE and ESL placement tests, are also available during drop-in hours. GED exams need to be scheduled through ged.com. For testing schedule and detailed information, visit the website or the Testing Center.

## Veterans Services

**School Certifying Official: Gregory Tessensohn**  
 (206) 934-7309  
 gregory.tessensohn@seattlecolleges.edu  
 northseattle.edu/office-veterans-services

The Office of Veterans Services at North Seattle College offers a range of assistance to veterans, reservists, active duty personnel, and eligible family members who receive Veterans Affairs education benefits. We also offer certification services for anyone eligible for Chapter 33 Post 9/11 GI Bill®, Chapter 30 Montgomery GI Bill®, Chapter 31 Vocational Rehabilitation, Chapter 35 Aid for Eligible Family Members, and Chapter 1606/1607 Selective Reservists.

We provide help with any issues having to do with veteran status and serve as a resource for military personnel transitioning into civilian life.

*See page 50 for more information about financial assistance for veterans and military personnel.*

## WorkForce Education Programs

(206) 934-3787  
 nscwfe@seattlecolleges.edu  
 northseattle.edu/workforce-education

## WorkFirst

(206) 934-3769

North is a WorkFirst contractor that provides tuition assistance and support for eligible students. To be eligible, students must be pursuing a career training certificate or degree, English as a second language (ESL) classes, or a high school completion or high school equivalency certificate. Students must also be receiving TANF benefits from DSHS and have a referral.

## Opportunity Grant (OG)

Opportunity Grant (OG) helps low-income Washington residents increase job skills and knowledge to become eligible for living-wage, high-demand careers in nursing, nursing assistant, general business, early childhood education, accounting, medical assistant, Allied Health, or any IBEST course. Students must be in one of these programs, be income eligible, have less than an associate degree, and complete a Free Application for Federal Student Aid (FAFSA) or Washington Application for State Financial Aid (WASFA) every year. Qualified students may receive funds to cover tuition and mandatory fees for 45 credits, up to \$1,000 for books per year, and limited emergency assistance.

## Worker Retraining

Worker Retraining provides tuition assistance for students who are eligible for unemployment insurance benefits or have exhausted unemployment benefits, veterans who have been discharged within the past 48 months, active duty military with separation orders, workers employed in a not-in-demand job, displaced homemakers due to divorce or death of spouse, or the self-employed who are now unemployed due to economic changes in their community.



## Campus Life

### Art Gallery

(206) 934-4557  
[artgallery.northseattle.edu](http://artgallery.northseattle.edu)  
[nscartgallery@seattlecolleges.edu](mailto:nscartgallery@seattlecolleges.edu)

The North Seattle College Art Gallery is a professional gallery featuring work by contemporary artists that seeks to foster the appreciation of the visual arts on the North Seattle College Campus. The Art Gallery actively engages the college community through dynamic learning opportunities that directly demonstrate cultural and artistic diversity. The gallery is invested in showcasing art that questions established concepts and excels visually through carefully curated thematic exhibitions.

In addition to these curated exhibitions, the NSC Art Gallery highlights our lauded for-credit Art Student and Continuing Education Art Exhibitions and presents programming, including visiting artist talks throughout the year. To view Gallery events, please visit the Art Gallery website

### Bookstore

(206) 934-4678  
[bkstr.com/northseattlestore/home](http://bkstr.com/northseattlestore/home)

The Bookstore carries textbooks, supplemental course materials, food and drinks, school supplies, and North clothing. Rent textbooks and save an average of 50 percent. Purchase books online to get first pick of the used books and save time in line. The Bookstore also offers a year-round textbook buy-back service.

**8 a.m. to 4 p.m., Monday through Friday**

### Child Care Center

(206) 934-3644  
[northseattle.edu/child-care](http://northseattle.edu/child-care)

The ASB Child Care Center is for the children of students, staff and faculty at North Seattle College.

The Center provides a safe, supportive, welcoming, and diverse environment that fosters student access, retention, and success.

The Child Care Center is licensed by the Department of Early Learning of Washington state and participates in the city of Seattle's Child Care Assistance Program and Washington State's Quality Rating Improvement System, Early Achievers. It serves children ages 18 months through 5 years old. Call for tours or fee information.

**8:00 a.m. to 4:30 p.m., Monday through Friday**

### The Equity & Welcome Center

(206) 934-3719 | [edi.north@seattlecolleges.edu](mailto:edi.north@seattlecolleges.edu)  
[northseattle.edu/equity-diversity-inclusion/equity-welcome-center](http://northseattle.edu/equity-diversity-inclusion/equity-welcome-center)

The Equity & Welcome Center aims to identify and implement equitable strategies to end all racial and other equity gaps at North. The President's Cabinet, students, faculty, staff and community stakeholders came together in 2018 to develop the framework for the historic Equity & Welcome Center at North. The framework supports and advocates for the success of diverse and historically underserved communities on the NSC campus. This includes communities from all cultures, ages, religious beliefs, races/ethnicities, sizes, gender identities, abilities, qualities, sexual affiliations, socioeconomic classes, veteran status, political beliefs, and citizenship status and sovereign nations. The Equity & Welcome Center currently offers you the following:

- Multicultural & Gender Equity Student Lounge
- Peacemaking Space
- Virtual Student Lounges
- United Way Benefits Hub
- Gender Equity & Multicultural Resources in Canvas, co-created by students and staff
- TRiO guidance, tutoring and community for low-income, first-generation and students with disabilities
- College Entry navigation help for new students

If you have any questions or concerns, please contact the Interim Director of Equity, Diversity, Inclusion, and Community, Cooper T. Sealy, Ph.D.

### Food Services

(206) 934-3728  
[northseattle.edu/campus-life/dining](http://northseattle.edu/campus-life/dining)

The Grove includes an espresso bar featuring local roasters Caffé D'Arte coffee; an array of fresh pastries and sweets; Grab & Go offerings, including salads, sandwiches, hot panini, snacks, and cold beverages. The Hot Line serves breakfast and lunch and features a rotating menu of Daily Plate entrées, fresh baked pizza, homemade soups, and made-to-order torpedo sandwiches, as well as other daily Grill Specials. Both venues feature local, sustainable ingredients. Food Services is able to provide some special event catering. Please contact with inquiries.

## Housing

(206) 934-3641

On-campus housing is not available. However, a bulletin board lists various accommodations that are available in the local area. Call if you need housing or if you have a room or apartment available for students to rent.

## Safety & Security

(206) 934-3636

[northseattle.edu/safety-security](http://northseattle.edu/safety-security)

Safety & Security strive to create and maintain a positive atmosphere that enables and encourages learning in a safe, efficient, and responsible environment. In addition to these efforts, and to continue this success, it is crucial that everyone maintains a proactive and responsible approach towards their safety. Please get acquainted with the services Safety & Security provides, and know we warmly welcome any questions, comments, or suggestions you have that may assist us in our continued efforts toward the goal of making North Seattle College among the safest campuses in the country.

*See page 59 for additional information on personal safety.*

## Student Clubs & Affinity Groups

(206) 934-3641

[studentleadership.northseattle.edu/clubs](http://studentleadership.northseattle.edu/clubs)

This board focuses on supporting student engagement through Clubs and Affinity Groups. The goal of this Board is to ensure that students who are interested in connecting with others in their social identity group and/or with folks with shared interests have what they need to do so in a supportive, fun environment. Additionally, this Board provides structure and logistical support to student organizations and contributes to the equity, diversity and inclusion of our campus community. For information about student clubs, see the website or visit the office of Student Leadership & Engagement (SLE) located on the north-end ground floor of the College Center building.

## Student Government Association

(206) 934-3642

[studentleadership.northseattle.edu](http://studentleadership.northseattle.edu)

The Student Government Association (SGA) serves as North's executive student government. SGA advocates for the student body by working with faculty, staff, and administration to ensure that student needs and concerns are addressed.

SGA, including the student body president, also provides leadership and daily support to the 3 student Boards:

- Governance Board
- Events Board
- Club Council

Each board includes students who work with college staff, faculty, and administration on behalf of their constituents, the student body. Students who serve on a board or SGA receive an hourly wage, training, and mentoring designed to strengthen their leadership skills and to provide a foundation for success.

## Student Leadership & Engagement

(206) 934-3642

[studentleadership.northseattle.edu/](http://studentleadership.northseattle.edu/)

The office of Student Leadership & Engagement (SLE) administers North's Student Leadership Program which consists of approximately 20 paid student leaders. The program collaborates with college faculty, staff, and administration to develop programming that engages and represents our diverse student body. SLE promotes and aids in creating a campus climate and culture that respects and celebrates diversity. Additionally, SLE provides leadership training and advising for Students Leaders as well as a variety of cultural, educational, and leisure programs that fuel a vibrant and inclusive campus life. SLE is committed to supporting students from all backgrounds, experiences, and levels of academic preparation.

“Forever grateful for building community with so many students and the supportive faculty that helped push and encourage me to the finish line!”

– Appollonia W.

## Transportation & Parking

(206) 934-0060

[northseattle.edu/transportation](http://northseattle.edu/transportation)

North is served by several Metro bus routes. Carpooling, walking, busing, biking, and vanpooling are encouraged. Students registered for 10 or more credits are eligible to purchase a discounted ORCA transit pass issued by the college through the Cashier's Office. ORCA passes may be used to ride Community, Everett, Kitsap, Metro, Pierce, and Sound Transit systems.

## Parking

(206) 934-3636

Students may purchase a parking permit 30 days prior to the start of the quarter online at [seattlecolleges.edu/parking-permit](http://seattlecolleges.edu/parking-permit). Carpool parking is also available. Campus speed limit is 15 mph. Purchase daily parking at Cashier's Office or permit machines on the parking lots.

## The Roy Flores Wellness Center/ Student Recreation

(206) 934-3631

Information Line (206) 934-4591

[northseattle.edu/wellness-center](http://northseattle.edu/wellness-center)

The Roy Flores Wellness Center offers a variety of fitness activities, such as yoga, Pilates, resistance training, and cardiovascular training. The facility also includes a well-equipped strength and conditioning room, a running track, and a gym for playing basketball or volleyball. The Wellness Center fee of \$2.50 per credit up to 10 credits entitles students to use the facility and to participate in free drop-in sessions. The current schedule is available on the website.

## Alumni Association

The Alumni Association is an organization for North Seattle College graduates. If you completed a course, program, certificate, or a degree at North, you have earned your place in the Alumni Association. The goal of the Alumni Association is to provide graduates and current students with a strong network of North Seattle College friends and colleagues, and to offer the opportunity for you to stay connected with college. Join today.



# Learning Outcomes

## General Education

General Education is college-level work that introduces students to the content and methods of major areas of knowledge, including humanities and fine arts, the natural sciences, mathematics, and the social sciences. General Education emphasizes the following outcomes:

- Attitudes necessary to function as a citizen and lifelong learner
- Intellectual skills required for college-level inquiry and competence
- Knowledge and awareness of the complex world in which we live

The purpose of General Education is to provide educational depth and breadth through development of essential skills in reading and writing, research and information literacy, critical thinking, problem solving, understanding individuals and cultures, creative expression, and quantitative and scientific reasoning. These transferable skills support students as they continue in higher education, move forward in careers, and continue the process of lifelong learning.

## North Seattle College Learning Outcomes

North Seattle College is committed to changing lives through progressive education by advancing student success, excelling in innovative teaching and lifelong learning, and building a responsive community. Our diverse college community is committed to infusing our guiding values into all we do. As a learning community, we foster and promote development of these four essential skills for students completing courses, certificates, or degrees. These outcomes will be achieved through the use of current and emerging pedagogies and technologies, including integrative and applied learning.

- **Inquiry** based on information accessed through ethical research
- **Problem Solving** using critical and creative thinking, quantitative and qualitative reasoning, information literacy, and disciplinary and cross-disciplinary knowledge
- **Communication** in oral, written, and artistic modes of expression, individually and in collaboration with others
- **Responsibility** for understanding and integrating intercultural competence, practicing ethical reasoning and conduct, applying sustainability principles, and demonstrating respect for self and others

## Associate of Arts Degree Learning Outcomes

*See page 18.*

## Associate of Science Degree Learning Outcomes

Students completing the Associate of Science degree should:

- Recognize the interdisciplinary nature of the sciences and use scientific inquiry to critically evaluate a proposal, claim, process, or theory.
- Generate significant questions about the physical world and use the tools of science or engineering to design and conduct an experiment; draw conclusions based on a systematic collection and analysis of qualitative and quantitative data.
- Recognize and interpret the meaning of quantitative and mathematical symbols and apply appropriate logic, tools, and processes to make meaningful decisions and solve problems. Utilize multiple representations, including graphical, symbolic, numerical, and narrative, to analyze and solve problems.
- Obtain, comprehend, analyze, evaluate, internalize, and act upon knowledge in order to understand and communicate complex scientific systems and reasoning.
- Use appropriate documentation to exchange spoken, written, and visual information in order to communicate effectively and to participate as an effective team member within the scientific community and other appropriate settings.
- Apply scientific or technical knowledge and practice to a variety of disciplines in order to understand issues, solve problems, and engage in responsible practices.
- Apply modes of inquiry from the social sciences to issues and problems found in individuals' lives and work in their local, national, and global communities and to find effective and ethical solutions to society's problems and challenges.
- Explore, interpret, and represent human experience through the arts.





## Areas of Study



### ARTS, DESIGN, AND GRAPHICS

#### 2D Fine Arts (A.F.A.)

This two-year program is designed for students that wish to obtain an Associate of Fine Arts (AFA) degree with a concentration in 2D Fine Arts. While in the program, students have many opportunities to gain professional experience as working artists including showcasing and selling art, installing, exhibiting, and documenting work, and submitting to literary and arts publications.

This AFA pathway program prepares students to complete their education at a four-year college or university with a Bachelor of Art (BA) with Studio Art or Art History emphasis, a Bachelor of Fine Art (BFA) or Master of Fine Art (MFA) in Visual Art, and/or entering the creative economy with a dynamic portfolio of finished works.

#### 3D Fine Arts (A.F.A.)

This two-year program is designed for students that wish to obtain an Associate of Fine Arts (AFA) degree with a concentration in 3D (Sculpture & Ceramics). The Ceramics program introduces students to hand building and wheel throwing processes for both functional and conceptually based work. The Sculpture program introduces students to a wide variety of processes including woodworking, mold making and slip casting, reductive carving, and low-tech processes in cardboard construction, found object assemblage, papier mache, and installation-based work.

Students in this pathway will also demonstrate collaborative attitude, skills, and knowledge in 3D art media, and will learn how to effectively critique and document work through a contemporary lens. Completion of this AFA pathway is designed to help students build a portfolio in 3D arts as well as prepare students for further education at a four-year college or university in the visual arts such as a Bachelor of Art (BA) with Studio Art or Art History emphasis, a Bachelor of Fine Art (BFA) or Master of Fine Art (MFA) in Visual Art, and/or entering the creative economy with a dynamic portfolio.

#### Art History (A.A.-DTA)

This two-year program is designed for students that wish to obtain an Associate of Arts Direct-Transfer Agreement (AA-DTA) degree with a concentration in Art History. Completion of this pathway provides a visual and historical analysis of objects made throughout time. In lectures, discussions, and online content, students discover the broader context that surround works of art, design, and architecture, providing an understanding of why these objects were made, what they represent, and how they can tell us stories of humanity.

Completion of this degree is designed to prepare students for transferring into an Art History major at a four-year college or university.

#### Digital Art and Photography (A.F.A.)

This two-year program is designed for students that wish to obtain an Associate of Fine Arts (AFA) degree with a concentration in Digital Art and Digital Photography. Students in this pathway will leave with fluency in Adobe software such as Photoshop, Illustrator, InDesign, Premier, and After Effects. Students will gain skills in photo editing, compositional strategies, and formal design elements. Students will also demonstrate collaborative attitude, skills, and knowledge in Digital Art and Digital Photography, and will learn how to effectively critique and document work through a contemporary lens.

Completion of this AFA pathway is designed to prepare students for further education at a four-year college or university in the visual arts such as a Bachelor of Arts degree in Studio Art or Art History, Bachelor of Fine Arts degree or Master of Fine Arts in Visual Art.

#### Fine Arts in Art Certificate

##### Arts, Humanities and ABE Division

The Transfer Certificate in Fine Arts (CFA) certifies completion of approved work and is suitable for students currently working in art. The CFA serves as a halfway point, and pathway toward the Associate of Fine Arts (AFA) transfer degree. Student with a bachelor degree may choose the CFA for additional certification in art.

##### REQUIRED COURSES

ART	101	Design	5
ART	111	Drawing	5
ART	210	Digital & Graphic Art - Photoshop + Illustrator	5
ART	290	the Art Business	5
ART course			5

Select one course from the courses listed below to complete this requirement:

ART 251 - Survey of Art: Paleolithic to 5th Century C.E. (5)

ART 252 - Survey of Art: 6th-16th Century (5)

ART 253 - Survey of Art: 17th Century C.E. to Present (5)

ART 255 - Survey of Asian Art History (5)

ART 257 - Non Western Art History: Art of Africa & Oceania (5)

##### GENERAL EDUCATION COURSES

Complete ENGL&101 and one of the other courses listed below to meet 10 credit requirement:

ACCT 110 Introduction to Accounting/Bookkeeping I . . . . 5

Following can be substituted:

ACCT course higher than ACCT 110

BUS	116	Business Math/Spreadsheets	5
Following can be substituted: other applicable Business (BUS) course			
ENGL&	101	English Composition I	5
MATH&	107	MATH in Society	5
Following can be substituted: Math course higher than MATH& 107			

**2-DIMENSIONAL ART ELECTIVE**

Choose one course from the courses listed below to meet  
5 credit requirement

ART	113	Drawing	5
ART	114	Introduction to Digital Photography I	5
ART	115	Introduction to Digital Photography II	5
ART	121	Introduction to Printmaking	5
ART	122	Introduction to Printmaking-Intermediate	5
ART	123	Continuing Printmaking: Monotype and Monoprint	5
ART	124	Printmaking - Screenprint	5
ART	166	Video Art I	5
ART	201	Painting	5
ART	202	Painting	5
ART	203	Painting	5
ART	204	Mural Art	5
ART	214	Digital & Graphic Art - Intermediate	5
ART	215	Digital Art and Graphic Design - Advanced	5
ART	240	Book Arts	5

**3-DIMENSIONAL ART ELECTIVE**

Choose one course from the courses listed below to meet 5  
credit requirement

ART	102	Design	5
ART	211	Sculpture	5
ART	212	Sculpture	5
ART	213	Sculpture	5
ART	221	Ceramic Art	5
ART	222	Ceramic Art	5
ART	223	Ceramic Art	5
ART	281	Jewelry Design I	5
ART	282	Jewelry Design II	5
ART	283	Introduction to Alloying and Jewelry Casting	5
ART	284	Bench Techniques and Practices	5
ART	285	Metal Techniques for Small Scale Sculpture	5

TOTAL PROGRAM CREDITS 45

**Certificate in Jewelry Design****Arts, Humanities and ABE Division**

The purpose of this certificate is to facilitate student creativity,  
to recognize student achieve certificate in jewelry design  
certifies completion of approved work, and is suitable for  
student currently working in art.

**REQUIRED COURSES – JEWELRY DESIGN**

ART	281	Jewelry Design I	5
ART	282	Jewelry Design II	5
ART	283	Introduction to Alloying and Jewelry Casting	5
ART	284	Bench Techniques and Practices	5
ART	285	Metal Techniques for Small Scale Sculpture	5

**REQUIRED COURSES – ART**

ART	101	Design	5
ART	111	Drawing	5
ART	210	Digital & Graphic Art – Photoshop + Illustrator	5
ART	251	Art History	5
Following can be substituted: ART 252 – Art History (5) or ART 253 – Art History (5) Art history courses are taught at (Seattle Central College or other college.			
ART	290	the Art Business	5

**GENERAL EDUCATION COURSES**

Total required Communication course credits: 5  
Met by ART 251 (or ART 252 or ART 253) above

Total required Human Relations course credits: 5

Total required Computation Course credits: 5

Select credits from notated courses below:

ACCT	110	Introduction to Accounting/Bookkeeping I	5
Following can be substituted: ACCT course higher than ACCT 110 This course will satisfy the Computation Course Requirement.			
CMST&	210	Interpersonal Communication	5
This course will satisfy the Human Relations Course Requirement.			
CMST&	230	Small Group Communication	5
This course will satisfy the Human Relations Course Requirement.			

TOTAL PROGRAM CREDITS 60

**Music (A.A.-DTA)**

This program meets requirements for the Associate of  
Arts- Direct Transfer Agreement (AA-DTA) degree with a  
concentration in Music . The degree allows students to  
explore the field of music through history and culture,  
introductory reading and writing of the musical language,  
electronic music, and music performance. Students select a  
course in each of these four areas to gain a broad perspective  
of the music discipline. The program prepares students  
for transfer in music, humanities, business, social sciences,  
art administration, among other fields. Students planning  
on majoring in music will need to take two years of music  
theory at the transfer institution.



## BUSINESS AND ACCOUNTING

### Accounting Associate of Applied Science Degree (A.A.S.)

#### Business, Engineering & Information Technologies Division

This program prepares students for entry-level accounting positions. The program includes accounting and business skills as well as college transfer and supporting courses designed to strengthen the students' self-assurance and leadership qualities. Students complete 90 credits of coursework, resulting in an Accounting AAS.

#### TECHNICAL SPECIALTY COURSES

ACCT 110	Introduction to Accounting/Bookkeeping I . . . . .	5
	Following can be substituted:	
	ACCT& 201 Principles of Accounting I (5)	
ACCT 120	Introduction to Accounting/Bookkeeping II . . . . .	5
	Following can be substituted:	
	ACCT& 202 Principles of Accounting II (5)	
ACCT 131	QuickBooks . . . . .	5
ACCT& 203	Principles of Accounting III. . . . .	5
ACCT 255	Individual Income Tax . . . . .	5
ACCT 257	Business Tax Accounting. . . . .	5
CWE 110	Internship. . . . .	3

#### ACCOUNTING ELECTIVES

Choose from any of the courses listed below to meet total credits required for Electives

ACCT 256	Taxation of Corporations and Partnerships . . . . .	5
ACCT 265	Accounting for Not-For-Profit and Gov Entities. . . . .	5
ACCT 267	Not for Profit Financial Management . . . . .	5
ACCT 268	Advanced QuickBooks. . . . .	5
ACCT 269	Not-For-Profit Practices and Procedures . . . . .	5
ACCT 272	Fraud Examination . . . . .	5
ACCT 273	Introduction to Financial Crimes . . . . .	5
ACCT 274	Forensic Accounting. . . . .	5
CWE 101	Portfolio, Preparation & Workplace Success. . . . .	2

#### RELATED INSTRUCTION

BUS 124	Excel for Business. . . . .	5
BUS 169	Using Computers in Business . . . . .	5
	Following can be substituted:	
	BUS 280 - Business Data Analytics (5)	
BUS 200	Law and Society . . . . .	5
	Following can be substituted:	
	BUS& 201 - Business Law (5)	
BUS 210	Business and Economic Statistics. . . . .	5
	Prerequisite: MATH 098 or higher	
BUS 236	Interpersonal Communications for the Workplace . . . . .	5

ENGL 107	Applied Composition. . . . .	5
	Following can be substituted:	
	ENGL 235 - Technical Writing (5)	
	ENGL& 101 - English Composition I (5)	
	Recommended courses are: ENGL 107 or ENGL 235	
U.S. Cultures	. . . . .	5
	Following can be substituted:	
	Global Studies course	
	See advising for list of approved courses.	
TOTAL PROGRAM CREDITS		90-93

### Accounting Associate of Applied Science –Transfer Degree (A.A.S.-T)

#### Business, Engineering & Information Technologies Division

The program prepares students to enter the accounting field by providing technical skills for needed for various positions. Students gain skills in financial statement preparation, business and individual tax, and general ledger software. Students complete 90 credits, resulting in an Accounting AAS-T degree. The Accounting AAS-T degree is designed as a transfer program for those interested in an applied baccalaureate degree and, in particular, for students interested in the Bachelor of Applied Science (BAS) in International Business degree program here at North Seattle College.

#### TECHNICAL SPECIALTY COURSES

ACCT 131	QuickBooks . . . . .	5
ACCT& 201	Principles of Accounting I. . . . .	5
	Following can be substituted:	
	ACCT 110 - Intro to Accounting/Bookkeeping I (5)	
	Take ACCT& 201 if transferring.	
ACCT& 202	Principles of Accounting II . . . . .	5
	Following can be substituted:	
	ACCT 120 - Intro to Accounting/Bookkeeping II (5)	
	ACCT& 202 must have ACCT &201 or permission.	
	ACCT 120 must have completion of ACCT 110 with 2.0 or higher.	
ACCT& 203	Principles of Accounting III. . . . .	5
	Must have ACCT& 202 or instructor permission.	
ACCT 255	Individual Income Tax . . . . .	5
	Must have ACCT 120 or ACCT& 202 or permission.	
ACCT 257	Business Tax Accounting. . . . .	5
	Must have ACCT& 201 or permission.	
BUS 124	Excel for Business. . . . .	5
BUS& 201	Business Law. . . . .	5
BUS 210	Business and Economic Statistics. . . . .	5
	Must have MATH 098 or MATH 116. Transfer Class.	
BUS 236	Interpersonal Communications for the Workplace . . . . .	5
ECON& 201	Micro Economics . . . . .	5
	Must have MATH 098 or equivalent.	
	ENGL& 101 recommended.	
ECON& 202	Macro Economics . . . . .	5
	Must have MATH 098 or by instructor permission;	
	ENGL& 101 is recommended.	

**RELATED INSTRUCTION**

ENGL& 101	English Composition I . . . . .	5
	Must be eligible for English 101 through English Placement Exam or completion of English 097/098 or completion of ABE 050.	
MATH 116	Applications of Math: Mngmnt, Life and Soc Sci. . . . .	5
	May substitute MATH&141 or any math class with MATH&141 as a prerequisite.	
Natural World, the	. . . . .	5
	To transfer to an applied baccalaureate program, a lab course in physical, biological, and/or earth science is required.	
U.S. Cultures	. . . . .	5
	Following can be substituted: Global Studies	

**ACCOUNTING / BUSINESS ELECTIVES**

Choose ten (10) credits from the following

Not all classes are offered every quarter, and many classes have prerequisites. Refer to the class schedule, the annual forecast, the department, and an advisor for efficient planning.

ACCT 256	Taxation of Corporations and Partnerships . . . . .	5
	Must have ACCT&201 and ACCT 255 or instructor permission.	
ACCT 265	Accounting for Not-For-Profit and Gov Entities . . . . .	5
	Must have ACCT& 201 and ACCT& 202 or instructor permission.	
ACCT 267	Not for Profit Financial Management . . . . .	5
ACCT 268	Advanced QuickBooks. . . . .	5
	Must have ACCT 110 or ACCT& 201.	
ACCT 269	Not-For-Profit Practices and Procedures . . . . .	5
ACCT 272	Fraud Examination . . . . .	5
	Must have prior accounting course, or instructor permission.	
ACCT 273	Introduction to Financial Crimes . . . . .	5
	Must have prior accounting course, or instructor permission.	
ACCT 274	Forensic Accounting. . . . .	5
	Must have prior accounting course, or instructor permission.	
BUS& 101	Introduction to Business. . . . .	5
BUS 112	Multi-Cultural Issues in the American Workplace . . . . .	5
BUS 114	Introduction to Marketing . . . . .	5
	Must be eligible for ENGL& 101 through English Placement Exam or completion of ENGL 097/098.	
BUS 118	Project Management Introduction and Overview . . . . .	5
	Must have BUS 169 or equivalent.	
BUS 151	Introduction to Entrepreneurship . . . . .	5
BUS 169	Using Computers in Business . . . . .	5
BUS 186	Sustainable Business . . . . .	5
BUS 229	Project Management Tools Techniques and Control . . . . .	5
	Must have BUS 118 and BUS 236.	

BUS 237	Team Skills in the Workplace . . . . .	5
	Must have completed BUS 236.	
BUS 280	Business Data Analytics. . . . .	5
CMST& 220	Public Speaking . . . . .	5
	Must have placement into ENGL& 101.	

TOTAL PROGRAM CREDITS 90

Advanced placement testing, work experience, and transfer of credits may result in course waivers, credit transfer, and advanced placement. Please consult a college advisor and/or the program coordinator.

If pursuing a 4-yr accounting degree, it may be helpful to complete the AAS-T degree to transfer to the 4-year degree. For these students, we strongly recommend choosing ACCT& 201 and ACCT& 202 rather than ACCT 110 and 120.

**Accounting Fraud Short-Term Certificate**

**Business, Engineering & Information Technologies Division**

The program provides fraud detection skills to those training for accounting careers as well as professionals in accounting, law enforcement and other target industries where there is high potential for financial abuses. This program seamlessly integrates three five credit courses in the Accounting Fraud Certificate. Combined, the courses in this program provide an introduction to the field of fraud examination, the major categories of financial crime - and the legal procedures that are frequently relevant to fraud accounting work. It includes an overview of the general fraud examination methodology and fraud theory approach, and outlines the basics surrounding fraud examination – including criminology related to fraud. You will learn how and why accounting fraud is committed, how fraudulent conduct can be deterred, and how allegations of fraud should be investigated and resolved. This program covers forensic investigation techniques and provides insight regarding documentary and interview evidence, as well as methods for conducting a successful interview.

**PREREQUISITES**

ACCT 200	Accounting for Non-Accountants . . . . .	5
	Following can be substituted: prior accounting course or Instructor permission	

**TECHNICAL SPECIALTY COURSES**

ACCT 272	Fraud Examination . . . . .	5
ACCT 273	Introduction to Financial Crimes . . . . .	5
ACCT 274	Forensic Accounting. . . . .	5
TOTAL PROGRAM CREDITS		15

## Accounting with International Accounting Bachelor of Applied Science Degree (BAS)

### Business, Engineering & Information Technologies Division

The Accounting, with International Accounting Bachelor of Applied Science (AIA BAS) program provides graduates with the knowledge and skills required for employment in the field of accounting. The degree builds on an associate of real estate, and provides students with preparation for, and a pathway toward, meeting the Washington State CPA licensure requirements. The degree will provide knowledge and skills regarding the application of FASB/GAAP principles and GAAS auditing standards, effective business communications, understanding of legal and ethical frameworks for business, intermediate transaction posting and financial statement preparation, use of general ledger software, and a thorough understanding of International Financial Reporting Standards (IFRS). Students from several different business, accounting, and real estate programs will qualify to enter the AIA program.

Associate degree or equivalent, plus the prerequisite courses listed below:

#### PREREQUISITES

Note: Advanced placement testing, work experience, and transfer of credits may result in course waivers, credit transfer, and advanced placement.

English 101 fulfills required program general education credits. All other prerequisite courses fulfill required program elective credits.

ACCT& 201	Principles of Accounting I	5
ACCT& 202	Principles of Accounting II	5
ACCT& 203	Principles of Accounting III	5
BUS& 201	Business Law	5
BUS 210	Business and Economic Statistics	5
Following can be substituted:		
	MATH& 146 – Intro to Statistics (5)	
ENGL&101	English Composition I	5

#### TECHNICAL SPECIALTY COURSES

AIA 301	Intermediate Accounting I	5
AIA 302	Intermediate Accounting II	5
AIA 310	Accounting with International Accounting Ethics	5
AIA 401	International Accounting	5
AIA 402	International Taxation	5
AIA 410	Cost Accounting	5
AIA 430	Accounting Information Systems	5
AIA 440	Auditing	5
CWE 495	Baccalaureate Internship	3
Internship: May be taken spring quarter of junior year, or any subsequent quarter.		
IBN 320	International Finance	5
IBN 330	Data Analytics in Business and Accounting	4
IBN 420	Global Business Strategy	5
INFO 300	Information Literacy for Undergraduate Research	3

#### GENERAL EDUCATION COURSES

CMST& 220	Public Speaking	5
Following can be substituted:		
	CMST 205 – Multicultural Communication (5) or	
	HUM 105 – Intercultural Communication (5)	
Recommended course: CMST& 220 – Public Speaking		
ECON& 201	Micro Economics	5
ECON& 202	Macro Economics	5
ENGL& 101	English Composition I	5
Must be eligible for ENGL& 101 through English Placement Exam or completion of ENGL 097/098.		
ENGL& 102	Composition II	5
Following can be substituted:		
	ENGL& 235 – Technical Writing (5)	
MATH& 107	Math in Society	5
Following can be substituted: higher level MATH course		
	Visual, Literary, and Performing Arts	10
	Individual, Cultures, and Societies	5
	Natural World, the	10
Must include at least 5 credits of lab science.		
U.S. Cultures		5
Following can be substituted: Global Studies course		

#### ELECTIVES

ACCT& 201	Principles of Accounting I	5
ACCT& 202	Principles of Accounting II	5
ACCT& 203	Principles of Accounting III	5
BUS 124	Excel for Business	5
BUS& 201	Business Law	5
BUS 210	Business and Economic Statistics	5
Following can be substituted:		
	MATH& 146 – Intro into Statistics (5)	
100 and 200 level courses		30
Any 100 and 200 level college credits not counted as General Education credit (commonly fulfilled by  accounting/business/real estate courses).		

TOTAL PROGRAM CREDITS 180

## Advanced Tax Preparation Certificate

### Business, Engineering & Information Technologies Division

This certificate provides the student with an understanding of income tax law and procedures for individuals, corporations, and other entities. As part of the certificate program, the student prepares basic income tax returns for others.

#### TECHNICAL SPECIALTY

ACCT 110	Introduction to Accounting/Bookkeeping I	5
ACCT 255	Individual Income Tax	5
ACCT 256	Taxation of Corporations and Partnerships	5
ACCT 257	Business Tax Accounting	5
ACCT 258	Practical Income Tax Preparation	5
ACCT 259	Practical Income Tax Preparation II	5
ACCT 264	Tax Research Gifts and Estates	5
TOTAL PROGRAM CREDITS		35

## Bookkeeping Assistant Certificate

### Business, Engineering & Information Technologies Division

The program uses the Washington state Integrated Basic Education and Skills Training format (IBEST), designed for ABE and ESL students who are interested in job training classes. The certificate provides the student with a basic understanding of accounting principles and procedures, business computer software, and computational skill-building. Students complete 12 credits, resulting in an Accounting Office Assistant I Certificate. Student then move on to the Accounting Office Assistant II, starting on the pathway to additional certificate and degree options in Accounting.

#### PREREQUISITES

I-BEST Program Prerequisites: The I-BEST program allows students who do not meet the prerequisites below to start earlier with supporting instruction. All I-BEST applicants must meet with the I-BEST Coordinator and meet the following test score requirements. All tests must have been taken within the last 6 months. ESL and ABE CASAS must have test scores with a minimum score of 227 in Reading and Math.

ENGL& 101 English Composition I ..... 5  
Following can be substituted:  
previous transcripts showing completion of ENGL 98 or above with minimum grade of 2.0. Tests must have been taken within the last 2 years

#### TECHNICAL SPECIALTY COURSES

ACCT 110 Introduction to Accounting/Bookkeeping I.... 5  
ACCT 131 QuickBooks ..... 5  
Must have ACCT 110 or ACCT& 201 or permission  
BUS 115 Computational Skillbuilding ..... 2  
BUS 124 Excel for Business..... 5  
BUS 169 Using Computers in Business ..... 5  
CWE 101 Portfolio, Preparation & Workplace Success.... 3  
Following can be substituted:  
CWE 102 – Job Shadow (2)

TOTAL PROGRAM CREDITS 24

## Bookkeeping in Accounting Certificate

### Business, Engineering & Information Technologies Division

This program prepares graduates for bookkeeping careers and general office employment. The curriculum contains instruction that enables students to acquire knowledge through content and methodology, to think critically, to formulate values and make decisions, and to appreciate and understand their own and other cultures. Students complete 43 credits, resulting in a Bookkeeping Certificate. Students also have the ability to advance their education by continuing to the Accounting AAS.

#### REQUIRED COURSES

ACCT	110	Introduction to Accounting/Bookkeeping I....	5
ACCT	120	Introduction to Accounting/Bookkeeping II ...	5
ACCT	131	QuickBooks .....	5
ACCT	257	Business Tax Accounting.....	5
ACCT	267	Not for Profit Financial Management .....	5
BUS	124	Excel for Business.....	5
BUS	169	Using Computers in Business .....	5
BUS	236	Interpersonal Communications for the Workplace .....	5
CWE	110	Internship.....	3
TOTAL PROGRAM CREDITS			43

## Business (A.B.)

The Associate in Business Degree (AB) is designed to satisfy lower division general education and business requirements at Washington's public four-year colleges and universities. Students will take specific coursework in Economics, Accounting, Business Law, Statistics, and Mathematics as part of the Associate in Business degree.

Students also develop skills in business plan development, feasibility analysis, critical thinking, oral and written communication, teamwork and collaboration, leadership, risk taking, troubleshooting and problem solving with technology, professionalism, intercultural competence, and career exploration. The Associate in Business degree includes all the pre-requisite courses for transfer in a Business or Accounting major.

## Certificate of Accountancy

### Business, Engineering & Information Technologies Division

This certificate is designed for either working professionals or non-accounting bachelor's degree graduates who are working toward meeting the accounting educational requirements of the Washington State CPA Examination. Additional courses are necessary to fulfill the requirements to sit for the exam. The courses in this certificate are not considered to be an official statement of acceptability by the Washington State Board of Accountancy. Students should consult the State Board's website for specific exam requirements. In addition, we strongly recommend that all CPA applicants complete a CPA review course to adequately prepare for the CPA Examination. See [discovercpa.org](https://discovercpa.org) for CPA Exam review providers.

WA State CPA Educational Requirements: <https://acb.wa.gov/individual-licensing/education-requirements>

Please contact your advisor to find out details about how to register for the new AIA courses.

**PREREQUISITES**

ACCT& 201	Principles of Accounting I	5
ACCT& 202	Principles of Accounting II	5
ACCT& 203	Principles of Accounting III	5

**TECHNICAL SPECIALTY COURSES**

ACCT 255	Individual Income Tax	5
ACCT 256	Taxation of Corporations and Partnerships	5
ACCT 265	Accounting for Not-For-Profit and Gov Entities	5
AIA 301	Intermediate Accounting I	5
AIA 302	Intermediate Accounting II	5
AIA 310	Accounting with International Accounting Ethics	5
AIA 410	Cost Accounting	5
AIA 430	Accounting Information Systems	5
AIA 440	Auditing	5
TOTAL PROGRAM CREDITS		45

**Certificate of Entrepreneurship****Business, Engineering & Information Technologies Division**

This certificate program prepares students to would like a step-by-step guide to start their own business. Learn what it means to be an entrepreneur and complete a feasibility analysis of own business plan. Students complete 36-38 credits, resulting in a Entrepreneurship Foundation Certificate. Students interested in continuing their education can move into the Entrepreneurship Certificate.

**REQUIRED COURSES**

ACCT& 201	Principles of Accounting I	5
BUS 118	Project Management Introduction and Overview	5
BUS 151	Introduction to Entrepreneurship	5
Following can be substituted:		
BUS 154 - Exploring Entrepreneurship (5)		
BUS 152	Entrepreneurship Product/Service Pricing/Mkting	5
BUS 153	Entrepreneurship Planning Business Financials	5
BUS 156	Introduction to E-Business/Commerce	5
Following can be substituted:		
BUS 169 - Using Computers in Business (5)		
BUS 186	Sustainable Business	5
BUS 236	Interpersonal Communications for the Workplace	5
TOTAL PROGRAM CREDITS		38-40

ACCT 131 – QuickBooks is recommended but not required.

**Computerized Accounting Technology Certificate****Business, Engineering & Information Technologies Division**

This program will provide graduates with entry level and/or advancement in the accounting job market with both large and small organizations. This coursework provides students with computerized accounting skills using widely-used accounting software, bridging the gap between manual and computerized accounting systems. Students complete 63 credits, resulting in a Computerized Accounting Certificate. Students also have the ability to advance their education by continuing to the Accounting AAS.

**TECHNICAL SPECIALTY**

ACCT 110	Introduction to Accounting/Bookkeeping I	5
ACCT 120	Introduction to Accounting/Bookkeeping II	5
ACCT 131	QuickBooks	5
ACCT 257	Business Tax Accounting	5
ACCT 260	Peachtree Accounting	5
ACCT 261	Accounting Information Systems	5
ACCT 267	Not for Profit Financial Management	5
ACCT 268	Advanced QuickBooks	5

**RELATED INSTRUCTION**

BUS 115	Computational Skillbuilding	2
BUS 124	Excel for Business	5
BUS 169	Using Computers in Business	5
Following can be substituted:		
IT 101 - Software Applications (5)		
BUS 236	Interpersonal Communications for the Workplace	5
CWE 110	Internship	3

TOTAL PROGRAM CREDITS 63

**Economics (A.B.-DTA)**

This program is designed for students that wish to obtain an Associate of Business (AB) degree with a concentration in Economics. Students in this pathway develop skills in data analysis, critical thinking, quantitative and qualitative research, verbal communication, group communication and collaboration, and leadership and facilitation. Topics include markets and prices, consumer behavior, employment, inflation, international trade, and government policy.

Completion of this AB-DTA degree prepares students for further education at a four-year college or university such as a Bachelor's degree in Economics, Business, Finance, Data Analytics, or a related field.

## Entrepreneur Foundation Short-Term Certificate

### Business, Engineering & Information Technologies Division

This certificate program prepares students who want a step-by-step guide to start their own business. Learn what it means to be an entrepreneur and complete a feasibility analysis of own business plan. Students complete 13 credits, resulting in a Entrepreneurship Foundation Certificate.

#### PREREQUISITES

Many classes have prerequisites—classes that prove eligibility for entry-level classes by testing or by having satisfied prior course work. Course work earned at other institutions must be unofficially evaluated or approved by a program advisor before registering.

#### REQUIRED COURSES

BUS	151	Introduction to Entrepreneurship	5
BUS	152	Entrepreneurship Product/Service/ Pricing/Mkting	5
BUS	153	Entrepreneurship Planning Business Financials	5
TOTAL PROGRAM CREDITS			15

## General Business Associate of Applied Science Degree (A.A.S.)

### Business, Engineering & Information Technologies Division

The program helps students acquire a foundation in the basics of accounting, management, marketing, business law, finance, and business communication. Learn to apply diverse skills such as critical thinking, organization, problem-solving, and professionalism to the business world. Students explore ways of solving problems that commonly arise in business settings from small businesses to the corporate arena. Students complete 90 credits, resulting in a General Business AAS.

#### TECHNICAL SPECIALTY COURSES

ACCT&	201	Principles of Accounting I	5
ACCT&	202	Principles of Accounting II	5
BUS&	101	Introduction to Business	5
BUS	112	Multi-Cultural Issues in the American Workplace	5
Students completing the Communications, Business & Media certificate may substitute the following for BUS 112: CMST 205 – Multi-cultural Communication (5)			
BUS	114	Introduction to Marketing	5
Must complete BUS 131 – Integrated Communications 1 or be eligible for ENGL& 101 through English Placement Exam or completion of ENGL 097/098.			
BUS	169	Using Computers in Business	5
Following can be substituted: BUS 171 – Information Technology II (5)			

BUS&	201	Business Law	5
BUS	210	Business and Economic Statistics	5
BUS	230	Business Communications	5
Must complete BUS 131 – Integrated Communications 1 or be eligible for ENGL& 101 through English Placement Exam or completion of ENGL 097/098.			
BUS	236	Interpersonal Communications for the Workplace	5

#### GENERAL EDUCATION COURSES

Contact the Advising Center for approved list of courses.

U.S. Cultures	5
General Education Elective	5

#### ELECTIVES

Electives must include a minimum of 15 credits with BUS designation (except students with CB&M certificate)

BUS course	5
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#### ELECTIVES – PATHWAY

Total of 8-10 credits required

ACCT&	203	Principles of Accounting III	5
BUS	118	Project Management Introduction and Overview	5
BUS	151	Introduction to Entrepreneurship	5
Following can be substituted: BUS 154 – Exploring Entrepreneurship (5)			
BUS	186	Sustainable Business	5
BUS	205	Human Resource Management	5
BUS	215	Introduction to International Trade Business	5
ECON&	201	Micro Economics	5
RES	100	Real Estate Fundamentals	5

#### ELECTIVES – GENERAL

Total of 20-22 credits required

Any additional course(s) with a BUS designation:

- Elective BUS courses must be numbered 100 or above AND not listed above under 'Technical Specialty Courses.'
- May include BUS courses list under 'Electives – Pathway'

Any CMST designated courses in the Communication, Business and Media (CB&M) certificate:

- Only students completing the CB&M certificate may apply CMST courses.

ACCT	131	QuickBooks	5
ACCT&	203	Principles of Accounting III	5
ACCT	261	Accounting Information Systems	5
ECON&	201	Micro Economics	5
ECON&	202	Macro Economics	5
ENVS	160	Principles of Environmental Sustainability	5
RES	100	Real Estate Fundamentals	5
RES	202	Multi-Family Property Management	3
Following can be substituted: RES 203 – Property Management – Commercial (3)			

TOTAL PROGRAM CREDITS	90
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Note: Students wishing to transfer to an applied baccalaureate degree should consider the General Business AAS-T program.



## General Business Associate of Applied Science–Transfer Degree (A.A.S.-T)

### Business, Engineering & Information Technologies Division

The degree program enables students to acquire a foundation in the basics of accounting, management, marketing, business communication, business law, and finance. Learn to apply diverse skills such as critical thinking, organization, problem-solving and professionalism to the business world. Through exploration and analysis of relevant business models, students explore ways of solving problems that commonly arise in business settings from small businesses to the corporate arena. Students complete 90 credits, resulting in a General Business AAS-T. The General Business AAS-T degree is designed as a transfer program for those interested in an applied baccalaureate degree and, in particular, for students interested in the Bachelor of Applied Science (BAS) in International Business degree program here at North Seattle College

#### TECHNICAL SPECIALTY COURSES

ACCT& 201	Principles of Accounting I	5
ACCT& 202	Principles of Accounting II	5
BUS& 101	Introduction to Business	5
BUS 112	Multi-Cultural Issues in the American Workplace	5
Following can be substituted:		
CMST 205 – Multi-cultural Communications (5) with Academic Exception approval		
BUS 114	Introduction to Marketing	5
BUS& 201	Business Law	5
BUS 210	Business and Economic Statistics	5
BUS 215	Introduction to International Trade Business	5
Following can be substituted:		
CMST 195 – Media Management Operations (5) with Academic Exception approval		
BUS 236	Interpersonal Communications for the Workplace	5
ECON& 201	Micro Economics	5
ECON& 202	Macro Economics	5

#### RELATED INSTRUCTION

ENGL& 101	English Composition I	5
Must be eligible for English 101 through English Placement Exam or completion of English 097/098.		
MATH 116	Applications of Math: Mngmnt, Life and Soc Sci.	5
Following can be substituted:		
MATH&141 – PreCalculus I or any math class with MATH&141 as a prerequisite		
Natural World, the		5
U.S. Cultures		5
Following can be substituted: Global Studies		

#### ELECTIVES

ACCT& 203	Principles of Accounting III	5
To transfer to the BAS-International Business program, this class is a required prerequisite.		
ACCT 255	Individual Income Tax	5
Following can be substituted:		
ACCT 267 – Financial Management (5)		
BUS course		5
Elective BUS course numbered 100 or above and not listed above under 'Technical Specialty Courses.'		
See Advising Center		
TOTAL PROGRAM CREDITS		90

## International Business Bachelor of Applied Science Degree (BAS)

### Business, Engineering & Information Technologies Division

The Bachelor's of Applied Science in International Business prepares students to work in various roles within any company that does business globally, and specifically companies engaged in trade and logistics. Learn a broad range of business skills including operations management, marketing, management, finance, entrepreneurship, and more, all with global focus. Courses focus on hands-on learning such as projects from industry clients, group work with students in universities around the world, and internship experiences that can lead to job offers. Students complete 60 credits of international business coursework, and need 180 total college level credits to earn a Bachelor's of Applied Science Degree in International Business.

Associate degree or equivalent

#### PREREQUISITES

Associate degree or equivalent, plus the following prerequisite courses:

Any General Education Requirements taken as part of the associate degree can be transferred to the requirements below:

ACCT& 201	Principles of Accounting I	5
This course counts towards the BAS Elective credits.		
ACCT& 202	Principles of Accounting II	5
This course counts towards the BAS Elective credits.		
ACCT& 203	Principles of Accounting III	5
Following can be substituted:		
BUS 220 – Business Finance (5)		
BUS& 201	Business Law	5
Following can be substituted:		
RES 170 – Real Estate Law (5)		
This course counts towards the BAS Elective credits.		
BUS 210	Business and Economic Statistics	5
Following can be substituted:		
MATH& 146 – Intro to Statistics (5)		
This course counts towards the BAS Elective credits.		
ENGL& 101	English Composition I	5
English 101 fulfills required program general education credits.		

**TECHNICAL SPECIALTY COURSES**

CWE	494	International Business Internship Preparation	1
CWE	495	Baccalaureate Internship	8
IBN	301	International Management	5
IBN	302	International Marketing	5
IBN	303	Ethics and International Business	3
IBN	310	Operations Management	5
IBN	311	International Business Law	3
IBN	320	International Finance	5
IBN	350	International Business Practicum	5
IBN	401	International Project Management	5
IBN	402	Management of Information Systems	5
IBN	410	International Entrepreneurship	3
IBN	420	Global Business Strategy	5
INFO	300	Information Literacy for Undergraduate Research	3

**GENERAL EDUCATION COURSES**

CMST&	220	Public Speaking	5	
Following can be substituted:				
CMST& 205 – Multicultural Communication (5) or				
HUM 105 – Intercultural Communication (5)				
Recommended course is: CMST& 220 – Public Speaking				
ECON&	201	Micro Economics	5	
ECON&	202	Macro Economics	5	
ENGL&	102	Composition II	5	
Following can be substituted:				
ENGL& 235 Technical Writing (5)				
MATH	116	Applications of Math: Mngmnt, Life and Soc Sci.	5	
Following can be substituted:				
MATH& 141 – Pre-Calculus I (5)				
Visual, Literary, and Performing Arts				5
Individual, Cultures, and Societies				5
One course – See advising for course list.				
Natural World, the				10
Must include at least 5 credits of lab science				
U.S. Cultures				5
Following can be substituted: Global Studies any US or GS designated course –See advising for course list.				
World Language				5
May take any approved VLPAs if student is proficient in a non-native language. Must receive approval from program director.				

**ELECTIVES**

Total required Elective credits includes 25 credits from Program Prerequisites – as listed and notated above, excluding ENGL& 101 – and 35 credits as noted below

BUS	124	Excel for Business	5
Elective			30
Any 100 and 200 level college credits not counted as General Education credits. (commonly fulfilled by accounting /business courses from associate degree)			

TOTAL PROGRAM CREDITS	180
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**Marketing Certificate**

**Business, Engineering & Information Technologies Division**

**PREREQUISITES**

Note: Advanced placement testing, work experience, and transfer of credits may result in course waivers, credit transfer, and advanced placement. Please consult a college advisor and/or the program coordinator.

ENGL&	101	English Composition I	5
Following can be substituted: equivalent English course			

**TECHNICAL SPECIALTY COURSES**

BUS	114	Introduction to Marketing	5
BUS	118	Project Management Introduction and Overview	5
Must be eligible for ENGL& 101 through English Placement Test of completion of ENGL 097/098 or completion of ABE 050 with minimum 2.0			
BUS	226	Advertising & Sales Promotion	5
BUS	227	Digital Marketing	5
BUS	228	Social Media Marketing	5
CWE	101	Portfolio, Preparation & Workplace Success	3
CWE	110	Internship	3
TOTAL PROGRAM CREDITS			30

**Project Management Certificate**

**Business, Engineering & Information Technologies Division**

**TECHNICAL SPECIALTY COURSES**

Advanced placement testing, work experience, and transfer of credits may result in course waivers, credit transfer, and advanced placement.

BUS	118	Project Management Introduction and Overview	5
BUS	229	Project Management Tools Techniques and Control	5
BUS	236	Interpersonal Communications for the Workplace	5
BUS	237	Team Skills in the Workplace	5
CWE	110	Internship	3
May be taken concurrent with BUS 229 - Project Management Tools Techniques and Control			
ENGL&	235	Technical Writing	5
TOTAL PROGRAM CREDITS			28

## Project Management Short-Term Certificate

### Business, Engineering & Information Technologies Division

This certificate program focuses on both the development of knowledge and professional skills to become a Project Manager. Learn leadership in the project process, planning and control, risk management, and utilization of MS Project management software to develop a project plan, schedule, budget, and produce deliverables for management reporting. Students complete 28 credits, resulting in a Project Management Certificate.

#### PREREQUISITES

Individual courses may have prerequisites. See notes below.

#### TECHNICAL SPECIALTY COURSES

BUS	118	Management Introduction and Overview . . . . . 5
		Prerequisite: Must have completed BUS 169 or BUS 171 or demonstrate equivalent
BUS	119	Leadership and Management Skills . . . . . 3
BUS	229	Project Management Tools Techniques and Control . . . . . 5
		Prerequisite: Must complete BUS 118; Must have completed BUS236 or an approved equivalent
CWE	110	Internship. . . . . 3
		Must be taken after BUS118; May be taken concurrently with BUS229

TOTAL PROGRAM CREDITS 19

## Real Estate Certificate

### Business, Engineering & Information Technologies Division

This certificate prepares students to enter the real estate field in position as Brokers, Broker Assistants, or Real Estate Associate. Learn ethical and legal standards of the real estate industry, difference between sustainable and traditional construction and development, and how to effectively promote sale of properties.

Students complete 20 credits, resulting in a Real Estate Certificate. Classes are approved continuing education clock hours for real estate brokers, property managers, and appraisers by the Washington State Department of Licensing. Upon completion, students can choose continue to the Real Estate AAS.

#### TECHNICAL SPECIALTY COURSES

RES	100	Real Estate Fundamentals . . . . . 5
		(DOL Pre-licensing educational requirement)
RES	101	Technology for Real Estate. . . . . 5
		Following can be substituted:
		BUS 169 – Using Computers in Business I
RES	106	Real Estate Fraud . . . . . 1
RES	130	Green Real Estate. . . . . 3
		Following can be substituted:
		RES 217 – Real Estate Development & Sustainability (3)

RES	140	Real Estate Sales and Practice . . . . . 3
		(DOL Pre-licensing educational requirement)
RES	170	Real Estate Law. . . . . 3
		(DOL continuing education clock hours)

TOTAL PROGRAM CREDITS 20

For up to date information on Real Estate certificates, degrees and courses, visit [northseattle.edu/real-estate](http://northseattle.edu/real-estate).

## Real Estate Associate of Applied Science–Transfer Degree (A.A.S.-T)

### Business, Engineering & Information Technologies Division

The Real Estate associate in applied science (AAS-T) degree is built upon the technical skills and essential education for advanced real estate job preparation, but also includes college-level general education component common to all the AAS-T degrees. The Real Estate AAS-T Degree is designed as a transfer program for those interested in an applied baccalaureate degree in the Community College system and, in particular, for students interested in the BAS – International Business degree or the BAS – Property Management degree here at North Seattle College or programs offered at Evergreen State College or Western Governor’s University.

#### TECHNICAL SPECIALTY COURSES

ACCT&	201	Principles of Accounting I. . . . . 5
ACCT&	202	Principles of Accounting II . . . . . 5
ACCT&	203	Principles of Accounting III. . . . . 5
BUS&	201	Business Law. . . . . 5
RES	100	Real Estate Fundamentals . . . . . 5
		DOL Pre-licensing educational requirement
RES	106	Real Estate Fraud . . . . . 1
RES	125	Applications of Real Estate Math . . . . . 2
RES	130	Green Real Estate. . . . . 3
		Following can be substituted: RES 217 – Real Estate Development and Sustainability (3)
RES	140	Real Estate Sales and Practice . . . . . 3
		DOL Pre-licensing educational requirement
RES	164	Real Estate Finance Residential. . . . . 5
		Following can be substituted:
		RES 260 – Real Estate Finance – Commercial (5)
RES	170	Real Estate Law. . . . . 3
		DOL Continuing Education clock hours
RES	177	Real Estate Taxes . . . . . 2
RES	197	Real Estate Title & Escrow . . . . . 3
RES	202	Multi-Family Property Management. . . . . 3
		Following can be substituted:
		RES 203 – Property Management – Commercial (3)
RES	220	Real Estate Economics. . . . . 3
RES	235	Sales and Marketing. . . . . 3
		Technical Electives. . . . . 5

See Advising for a list of approved and recommended classes.

**RELATED INSTRUCTION**

ECON& 201	Micro Economics	5
ECON& 202	Macro Economics	5
ENGL& 101	English Composition I	5
Must be eligible for English 101 through English Placement Exam or completion of English 097/098.		
MATH 116	Applications of Math: Mngmnt, Life and Soc Sci	5
Following can be substituted:		
MATH& 141 – Precalculus I (5) or any		
MATH class with MATH&141 as a prerequisite		

Natural World, the ..... 5

To transfer to an applied baccalaureate program, a lab course in physical, biological, and/or earth science is required.

U.S. Cultures		5
Following can be substituted: Global Studies (5)		
Recommended courses		
HUM 105 – Intercultural Communications (5)		
CMST 205 – Multicultural Communications (5)		

TOTAL PROGRAM CREDITS 91

For up to date information on Real Estate certificates, degrees and courses, visit [northseattle.edu/real-estate](http://northseattle.edu/real-estate).

**Real Estate Property Management Certificate**

**Business, Engineering & Information Technologies Division**

This certificate prepares students for positions in property management in both residential and commercial buildings. Learn principles and scope of property managers and the common activities of property managers, including creating a budget, management plan, property analysis and maintenance plan. Students complete 26.5 credits, resulting in a Property Management Certificate. Classes are approved continuing education clock hours for real estate brokers, property managers, and appraisers by the Washington State Department of Licensing.

**TECHNICAL SPECIALTY COURSES**

RES 100	Real Estate Fundamentals	5
RES 101	Technology for Real Estate	5
Following can be substituted:		
BUS 169 – Using Computers in Business I (5)		
RES 120	Real Estate Principles of Maintenance and Repair	1.5
RES 140	Real Estate Sales and Practice	3
RES 170	Real Estate Law	3
RES 220	Real Estate Economics	3

**ELECTIVES**

Select total of 6 elective credits from courses listed below:

BUS 236	Interpersonal Communications for the Workplace	5
RES 125	Applications of Real Estate Math	2
RES 164	Real Estate Finance Residential	5
Following can be substituted:		
RES 260 – Real Estate Finance – Commercial (2)		
RES 202	Multi-Family Property Management	3
RES 203	Property Management – Commercial	3
RES 204	Community Association Management	3

TOTAL PROGRAM CREDITS 29.5

Note: Most employers require Property Managers to be a licensed real estate sales associate in the State of Washington and to be able to quickly learn and use industry-specific software.

For up to date information on Real Estate certificates, degrees and courses, visit [northseattle.edu/real-estate](http://northseattle.edu/real-estate).

**Residential and Commercial Property Management Bachelor of Applied Science Degree (B.A.S.)**

**Business, Engineering & Information Technologies Division**

The Residential and Commercial Property Management BAS (RCPM BAS) program prepares students for a career in either residential or commercial property management. It is a multi-disciplinary curriculum, combining business, accounting, and real estate courses. The RCPM BAS is an extension of a business, accounting, or real estate AAS-T degree, with upper division courses in property management. Students from several different business, accounting, and real estate programs will be qualified to enter the RCPM program.

**PROGRAM PREREQUISITES**

Associate degree or equivalent, plus the following prerequisite courses:

English 101 fulfills required program general education credits. All other prerequisite courses fulfill required program elective credits.

ACCT& 201	Principles of Accounting I	5
ACCT& 202	Principles of Accounting II	5
ACCT& 203	Principles of Accounting III	5
BUS 210	Business and Economic Statistics	5
Following can be substituted:		
MATH& 146 – Intro to Statistics		
ENGL& 101	English Composition I	5
RES 170	Real Estate Law	3
Following can be substituted:		
BUS& 201 – Business Law		

**TECHNICAL SPECIALTY COURSES**

CWE	495	Baccalaureate Internship	3
INFO	300	Information Literacy for Undergraduate Research	3
RCPM	301	Principles of Residential Property Management	3
RCPM	302	Stakeholder Relations & Prof Development	4
RCPM	303	Intro to Development and Construction Management	3
RCPM	304	Principles of Commercial Property Management	2
RCPM	310	Specialty and Affordable Housing	2
RCPM	311	Marketing & Leasing of Residential Real Estate	2
RCPM	313	Marketing and Leasing of Commercial Real Estate	3
RCPM	315	Introduction to Negotiations	2
RCPM	320	Financial Accounting for Property Management	4
RCPM	330	Leadership and Team Building	3
RCPM	350	Revenue Management for Property Management	2
RCPM	401	Project Management for Property Management	5
RCPM	402	Supervision and Management	4
RCPM	403	Real Estate and Fair Housing Law	4
RCPM	410	Professional Ethics in Property Mgmt	2
RCPM	420	Sustainable Facilities Management	5
RCPM	494	Practicum Portfolio	4

**GENERAL EDUCATION COURSES**

CMST&	220	Public Speaking	5
ECON&	201	Micro Economics	5
ECON&	202	Macro Economics	5
ENGL&	101	English Composition I	5
Must be eligible for ENGL& 101 through English Placement Exam or completion of ENGL 097/098.			
ENGL&	102	Composition II	5
Following can be substituted:			
ENGL& 235 – Technical Writing (5)			
MATH	116	Applications of Math: Mgmt, Life and Soc Sci	5
Following can be substituted:			
MATH& 141 – Pre-Calculus I (5) or MATH& 142 – Pre-Calculus II (5) or MATH& 148 – Business Calculus (5) or MATH& 151 – Calculus I (5)			
Visual, Literary, and Performing Arts			10
Individual, Cultures, and Societies			5
Natural World, the			10
Must include at least 5 credits of lab science			
U.S. Cultures			5
Following can be substituted: Global Studies			
Recommended courses:			
CMST 205 – Multicultural Communications			
HUM 105 – Intercultural Communications			

**ELECTIVES – REQUIRED ELECTIVES**

Total of 60 elective credits can be taken one of two ways:

- 23 credits of Required Electives + 37 credits of 100/200 level courses
- 35 credits of Required Electives + 25 credits of 100/200 level courses

Select credits from course listed below:

ACCT&	201	Principles of Accounting I	5
ACCT&	202	Principles of Accounting II	5
ACCT&	203	Principles of Accounting III	5
BUS&	201	Business Law	5

Following can be substituted:

RES 170 – Real Estate Law (3)

BUS	210	Business and Economic Statistics	5
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Following can be substituted:

MATH& 146 – Introduction to Statistics (5)

**ELECTIVES – 100/200 LEVEL COURSES**

Total of 60 elective credits can be taken one of two ways:

- 23 credits of Required Electives + 37 credits of 100/200 level courses
- 35 credits of Required Electives + 25 credits of 100/200 level courses

Select from courses/credits not counted as Gen Ed credits – commonly fulfilled by accounting/business/real estate courses. See Advising for list of approved courses.

TOTAL PROGRAM CREDITS	180
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**Tax Preparation Short-Term Certificate****Business, Engineering & Information Technologies Division**

This certificate provides the student with a basic understanding of income tax law and income tax procedures for individuals. As part of the certificate program, the student prepares basic individual income tax returns for others.

**TECHNICAL SPECIALTY COURSES**

ACCT	255	Individual Income Tax	5
ACCT	258	Practical Income Tax Preparation	5
ACCT	259	Practical Income Tax Preparation II	5

TOTAL PROGRAM CREDITS	15
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“What I’ll remember most from attending North Seattle College is how much the instructors care about their students.”

– Dashevona W.



## EDUCATION AND HUMAN SERVICES

### Early Childhood Education Associate of Applied Science Degree (A.A.S.)

#### Health & Human Services Division

Whether you're a novice or a seasoned preschool teacher, the Early Childhood Education program at North Seattle College will provide you with valuable training and insight into how children learn. The program is designed for students who already work full-time, so classes are offered in the evening, weekend or online. NSC'S Early Childhood Education Program is built upon the Washington State Stackable Certificates, allowing students to complete certificates while working towards the AAS degree. Upon completion of the AAS degree, students interested in continuing their education are able to move into the Early Childhood Education Bachelor of Applied Science Degree.

#### GENERAL EDUCATION

Total Required General Education: 10

ENGL& 101	English Composition I	5
U.S. Cultures		5

Following can be substituted: Global Studies

#### GENERAL EDUCATION – COMPUTATION/QUANTITATIVE ELECTIVE

Total Required C/Q Elective credits: 5

MATH at 100 level or choose from course(s) listed below:

ACCT 110	Introduction to Accounting/Bookkeeping I	5
ENGL 107	Applied Composition	5

#### GENERAL EDUCATION – HUMAN RELATIONS ELECTIVE

Total Required HR Elective credits: 5

Choose from one of the following courses:

BUS 236	Interpersonal Communications for the Workplace	5
HUM 105	Intercultural Communication	5
POLS 112	Contemporary World	5
SOC& 101	Introduction to Sociology	5

#### REQUIRED COURSES

CCE 240	Multicultural Dialogues in Early Childhood Educ	3
ECE 219	Practicum: Instructional Interactions	5
ECE 222	Math and Science Methods	5
ECED& 105	Introduction to Early Childhood Education	5
ECED& 107	Health, Safety, and Nutrition	5
ECED& 120	Practicum: Nurturing Relationships	2
ECED& 132	Infants and Toddlers	3
ECED& 139	Administration	3
ECED& 160	Curriculum Development	5
ECED& 170	Environments – Young Child	3
ECED& 180	Language and Literacy Development	3
ECED& 190	Observing and Assessment	3

EDUC& 115	Child Development	5
EDUC& 130	Guiding Behavior	3
EDUC& 150	Child Family and Community	3
EDUC& 203	Exceptional Child	3

#### ELECTIVE COURSES

Total Required Elective credits: 11

Select from the following courses:

CCE 145	Music and Creative Expression	4
		Credit range: 3-4/Total required credits: 4
CCE 195	Art for Young Children	3
CCE 200	Children and Nature	3
CCE 261	Readings in Early Childhood Education	6
		Credit range: 1-6/Total required credits: 1-6

ECED& 134	Family Child Care	3
EDUC& 136	School-Age Care	3

TOTAL PROGRAM CREDITS 90

### Early Childhood Education Bachelor of Applied Science Degree (B.A.S.)

#### Health & Human Services Division

The Early Childhood Education Bachelor of Applied Science Degree (BAS) program prepares students for jobs as lead infant/preschool teachers and administrative/leadership positions at early learning programs and related nonprofits. Students will learn research-based teaching and coaching practices through coursework and an embedded practicum. Students complete 90 credits on average; this varies depending on previous college coursework.

The college is planning to launch the Academy for Rising Educators (ARE) BAS Cohort in partnership with Seattle Public Schools in Fall 2021. This cohort is a continuation of the ARE Pathway that begins at Seattle Central College. If you are currently an ARE Associate student and interested in continuing on to NSC's BAS program, please contact Annie Garrett, [annie.garrett@seattlecolleges.edu](mailto:annie.garrett@seattlecolleges.edu) for more information.

#### PREREQUISITES

ECED& 107	Health, Safety, and Nutrition	5
ECED& 160	Curriculum Development	5
ECED& 170	Environments – Young Child	3
EDUC& 115	Child Development	5
EDUC& 130	Guiding Behavior	3
EDUC& 150	Child Family and Community	3
ENGL& 101	English Composition I	5

ENGL& 101 is counted toward general education requirements. Must be eligible for ENGL& 101 through English Placement Exam or completion of ENGL 097/ENGL 098.

#### TECHNICAL SPECIALTY COURSES

ECE 305	Early Childhood Education Approaches and History	3
ECE 310	Cognition and General Knowledge	5
ECE 315	Language, Literacy and Communication	5
ECE 320	Creative Expression	3

ECE	350	Practicum: Interactions	4
ECE	355	Anti-Bias Education	5
ECE	405	Partnership and Collaboration in ECE	3
ECE	410	Inclusive Early Childhood Education	4
ECE	415	Children and Media	3
ECE	420	Social and Emotional Foundations Early Learning	5
ECE	430	Linguistically Diverse Learners	3
ECE	450	Child Development and Assessment	5
ECE	480	Leadership and Professional Community	5
ECE	490	Capstone	5
INFO	300	Information Literacy for Undergraduate Research	2

**GENERAL EDUCATION**

ENGL&	101	English Composition I	5	
ENGL& 101 is counted toward general education requirements. Must be eligible for ENGL& 101 through English Placement Exam or completion of ENGL 097/NGL 098.				
ENGL&	102	Composition II	5	
Following can be substituted: ENGL& 235 – Technical Writing (5)				
Visual, Literary, and Performing Arts				15
Individual, Cultures, and Societies				10
Natural World, the				10
One course must include lab				
U.S. Cultures				10
Following can be substituted: Global Studies or ten credits from Individuals, Cultures, and Societies				
Quantitative/Symbolic Reasoning				5
College Level MATH 101 or higher				

**ELECTIVES**

Total Required Electives Credits: 60

Any 100 and 200 level college credits not counted as General Education credits (commonly fulfilled by EDUC/ECED courses from associate degree)

TOTAL PROGRAM CREDITS	180
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## ECE: State Early Childhood Education Certificate

### Health & Human Services Division

This certificate program is the third step in a pathway for students interested in working in the field of early childhood education. Learn to establish or improve, an early childhood learning environment using principles selected from classes, assess children's skills and behavior based on developmentally appropriate practices, and critique organization and implementation of classroom processes in an early learning setting. Students complete 47 credits, resulting in a State Early Childhood Education Certificate. Students interested in continuing their education can move into the Early Childhood Education AAS.

**TECHNICAL SPECIALTY COURSES**

ECED&	160	Curriculum Development	5
ECED&	170	Environments – Young Child	3
Following can be substituted: ECED& 130 – Guiding Behavior (3)			
ECED&	180	Language and Literacy Development	3
ECED&	190	Observing and Assessment	3
EDUC&	150	Child Family and Community	3

**TECHNICAL SPECIALTY COURSES – INITIAL CERTIFICATE**

Completion of the courses listed below equals the State Initial ECE Certificate:

ECED&	105	Introduction to Early Childhood Education	5
ECED&	107	Health, Safety, and Nutrition	5
ECED&	120	Practicum: Nurturing Relationships	2

**TECHNICAL SPECIALTY COURSES – SPECIALIZATION**

Completion of EDUC& 115 – Child Development and one of the other courses listed below:

ECED&	132	Infants and Toddlers	3
Completion this course, EDUC& 115 – Child Development (5), and the State Initial ECE Certificate courses (12) equals the State Short ECE Certificate – Infant/Toddler Care			
ECED&	134	Family Child Care	3
Completion this course, EDUC& 115 – Child Development (5), and the State Initial ECE Certificate courses (12) equals the State Short ECE Certificate – Family Child Care			
ECED&	139	Administration	3
Completion this course, EDUC& 115 – Child Development (5), and the State Initial ECE Certificate courses (12) equals the State Short ECE Certificate – Administration			
EDUC&	115	Child Development	5
EDUC&	130	Guiding Behavior	3
Completion this course, EDUC& 115 – Child Development (5), and the State Initial ECE Certificate courses (12) equals the State Short ECE Certificate – General			
EDUC&	136	School-Age Care	3
Completion this course, EDUC& 115 – Child Development (5), and the State Initial ECE Certificate courses (12) equals the State Short ECE Certificate – School-Age Care			

**RELATED INSTRUCTION**

ENGL&	101	English Composition I	5	
Following can be substituted: English course higher than ENGL& 101				
College Level MATH course				5
Quantitative or Computational Math above 100 or designated Q/SR				

TOTAL PROGRAM CREDITS	47
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## ECE: State Initial Early Childhood Education Certificate

### Health & Human Services Division

This certificate program is the first step in a pathway for students interested in working in the field of early childhood education. Learn to establish or improve ECE learning environments, assess children’s skills and behavior based on developmentally appropriate practices, and organize/ implement classroom processes in an early learning setting. Students complete 12 credits, resulting in an Early Childhood Education Initial State Certificate. Students interested in continuing their education would move into one of five Specialization Certificates.

#### TECHNICAL SPECIALTY COURSES

ECED& 105	Introduction to Early Childhood Education . . . .	5
ECED& 107	Health, Safety, and Nutrition . . . . .	5
ECED& 120	Practicum: Nurturing Relationships . . . . .	2
<b>TOTAL PROGRAM CREDITS</b>		<b>12</b>

## ECE: State Short Early Childhood Education Certificate – Administration

### Health & Human Services Division

This certificate is the second step in a pathway for students interested in working in the field of early childhood education. Students build upon the previous certificate, specializing in early childhood program administration. Learn theory of child development and implementing program administration.

Students complete 8 credits, resulting in a State Early Childhood Education Short Specialization: Administration. Students interested in continuing their education would move into the Early Childhood Education Certificate.

#### TECHNICAL SPECIALTY COURSES – INITIAL CERTIFICATE

Completion of the courses listed below equals the State Initial ECE Certificate

ECED& 105	Introduction to Early Childhood Education . . . .	5
ECED& 107	Health, Safety, and Nutrition . . . . .	5
ECED& 120	Practicum: Nurturing Relationships . . . . .	2

#### TECHNICAL SPECIALTY COURSES – SPECIALIZATION

ECED& 139	Administration . . . . .	3
EDUC& 115	Child Development . . . . .	5
<b>TOTAL PROGRAM CREDITS</b>		<b>20</b>

## ECE: State Short Early Childhood Education Certificate – Family Child Care

### Health & Human Services Division

This certificate is the second step in a pathway for students interested in working in the field of early childhood education. Students build upon the previous certificate, specializing in family child care. Learn theory of child development and operating a family childcare. Students complete 8 credits, resulting in a State Early Childhood Education Short Specialization: Family Child Care. Students interested in continuing their education would move into the Early Childhood Education Certificate.

#### TECHNICAL SPECIALTY COURSES – INITIAL CERTIFICATE

Completion of the courses listed below equals the State Initial ECE Certificate

ECED& 105	Introduction to Early Childhood Education . . . .	5
ECED& 107	Health, Safety, and Nutrition . . . . .	5
ECED& 120	Practicum: Nurturing Relationships . . . . .	2

#### TECHNICAL SPECIALTY COURSES – SPECIALIZATION

ECED& 134	Family Child Care . . . . .	3
EDUC& 115	Child Development . . . . .	5
<b>TOTAL PROGRAM CREDITS</b>		<b>20</b>

## ECE: State Short Early Childhood Education Certificate – General

### Health & Human Services Division

This certificate is the second step in a pathway for students interested in working in the field of early childhood education. Students build upon the previous certificate, specializing in early childhood education. Learn theory of child development and general ECE information to prepare to enter the field. Students complete 8 credits, resulting in a State Early Childhood Education Short Specialization: General. Students interested in continuing their education would move into the Early Childhood Education Certificate.

#### TECHNICAL SPECIALTY COURSES – INITIAL CERTIFICATE

Completion of the courses listed below equals the State Initial ECE Certificate

ECED& 105	Introduction to Early Childhood Education . . . .	5
ECED& 107	Health, Safety, and Nutrition . . . . .	5
ECED& 120	Practicum: Nurturing Relationships . . . . .	2

#### TECHNICAL SPECIALTY COURSES – SPECIALIZATION

EDUC& 115	Child Development . . . . .	5
EDUC& 130	Guiding Behavior . . . . .	3
<b>TOTAL PROGRAM CREDITS</b>		<b>20</b>



## ECE: State Short Early Childhood Education Certificate – Infant Toddler Care

### Health & Human Services Division

This certificate is the second step in a pathway for students interested in working in the field of early childhood education. Students build upon the previous certificate, specializing in infant/toddler education. Learn theory of child development, focusing on infant and toddler care. Students complete 8 credits, resulting in a State Early Childhood Education Short Specialization: Infant/Toddler. Students interested in continuing their education would move into the Early Childhood Education Certificate.

#### TECHNICAL SPECIALTY COURSES – INITIAL CERTIFICATE

Completion of the courses listed below equals the State Initial ECE Certificate:

ECED& 105	Introduction to Early Childhood Education . . . .	5
ECED& 107	Health, Safety, and Nutrition . . . . .	5
ECED& 120	Practicum: Nurturing Relationships . . . . .	2

#### TECHNICAL SPECIALTY COURSES – SPECIALIZATION

ECED& 132	Infants and Toddlers . . . . .	3
EDUC& 115	Child Development . . . . .	5
TOTAL PROGRAM CREDITS		20

## ECE: State Short Early Childhood Education Certificate – School-Age Care

### Health & Human Services Division

This certificate is the second step in a pathway for students interested in working in the field of early childhood education. Students build upon the previous certificate, specializing in school-aged child care. Learn theory of child development, focusing on school-age children. Students complete 8 credits, resulting in a State Early Childhood Education Short Specialization: School Age Care. Students interested in continuing their education would move into the Early Childhood Education Certificate.

#### TECHNICAL SPECIALTY COURSES – INITIAL CERTIFICATE

Completion of the courses listed below equals the State Initial ECE Certificate:

ECED& 105	Introduction to Early Childhood Education . . . .	5
ECED& 107	Health, Safety, and Nutrition . . . . .	5
ECED& 120	Practicum: Nurturing Relationships . . . . .	2

#### TECHNICAL SPECIALTY COURSES – SPECIALIZATION

EDUC& 115	Child Development . . . . .	5
EDUC& 136	School-Age Care . . . . .	3
TOTAL PROGRAM CREDITS		20

## Elementary Education (K-8)

This pathway meets requirements for the Associate of Arts-Direct Transfer Agreement (AA-DTA) degree with a concentration in Elementary Education (K-8). Completion of this degree opens doors to a variety of careers in para education, special education, English Language Learning, and classroom teaching. It also allows you to transfer into an Education major at a four-year college or university. Students in this pathway should set up a volunteer experience at least three hours per week in an early childhood education classroom or other related educational experience unless they are already working in the field.

Students in this pathway develop skills in child development theory, clarification and application of early care and education strategies, social and political context of education, anti-bias and anti-racist education, oral and written communication, critical thinking and problem solving, systems analysis, collaboration, leadership, and intercultural fluency.



“The hope the professors instill in their students paves the way for us to believe we can turn our dreams into reality.”

– Hodan M.



## HEALTH AND MEDICAL

### Allied Health Associate of Applied Science – Transfer Degree (A.A.S.-T)

Health & Human Services Division

This program provides students with the pre-requisite courses required to apply for admission to a nursing program or advanced allied health program. Advanced allied health programs have additional prerequisites. Please see program information on the website or speak to an advisor. Graduates of the program will be prepared for positions in medical front office, nursing assistant-certified (NAC), or other positions depending on their course of study.

This program prepares students for transfer to the Allied Health BAS degree program at Seattle Central College and may not be fully transferable for other bachelor level programs.

#### PREREQUISITES

Prerequisites are those classes that prove eligibility for entry-level classes by testing or by having satisfied prior course work. Course work earned at other institutions must be unofficially evaluated or approved by a program advisor before registering.

#### TECHNICAL SPECIALTY COURSES

Up to 40 college credits may be block transferred from the student's 40 Allied Health certificate program(s). Examples of eligible Allied Health course prefixes: AHD, AHL, MAA, SURG, NUR, PHA, AMA, AHE, CMA, and EDT. For nursing students, these credits must include an Nursing Assistant – Certified (NA-C) certificate.

If fewer than 40 college credits are block transferred in, the difference may be made up by credits from allied health courses with the above prefixes and/or a maximum of 10 credits of business (BUS) courses.

#### GENERAL EDUCATION

ENGL& 101	English Composition I	5
MATH& 146	Introduction to Statistics	5
	Visual, Literary, and Performing Arts	5
	Recommended courses:	
	HUM 105 – Intercultural Communications (5) or	
	CMST& 210 – Interpersonal Communications (5)	
Individual, Cultures, and Societies		5
	Recommended courses:	
	PSYC& 100 – General Psychology (5)	
	or SOC& 101 – Intro to Sociology (5)	

Lab Science	5
Recommended courses:	
CHEM& 121 – Intro to Chemistry (5)	
or BIOL& 160 – General Biology w/Lab (5)	

#### RELATED INSTRUCTION

See advising for courses that fulfill Related Instruction/ Foundation Science requirement.

TOTAL PROGRAM CREDITS	90
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### Emergency Medical Technician Short-Term Certificate

Health & Human Services Division

This program prepares students to work as Emergency Medical Technicians, according to the King County standards and requirements. Learn the roles and responsibilities of the EMT, patient evaluation and all emergency procedures short of those performed by physicians, and use and maintenance of all equipment and instruments required. Students complete 13 credits, resulting in an Emergency Medical Technician Certificate. Graduates of this program are eligible to take the National Registry Exam to qualify for state certification after meeting the Washington state requirement of employment.

#### PREREQUISITES

Attend a mandatory information session (see calendar), pass the advanced first aid entrance exam with 70% or higher. Additional requirements once accepted into the program: show proof of being at least 18 years of age at the beginning of the course enrollment (proof required).

Provide a copy of a valid driver's license issued in the United States. Note: Graduates will need a valid Washington State driver's license to work in the state.

Provide a copy of high school diploma or GED equivalency or college transcript showing high School completion.

Provide a copy of a clear Washington State Patrol check.

Provide copies of required immunizations:

1. Hepatitis B series or positive titer,
2. A current Tuberculin skin test or alternative health documentation.

Have the physical strength to carry, lift, extricate and perform similar maneuvers in a manner not detrimental to the patient, fellow emergency technicians or self.

#### TECHNICAL SPECIALTY COURSES

Co-requisite: Completion of AHE192 taken concurrently with AHE 190

AHE 190	Emergency Medical Technician	12
AHE 192	Basic Life Support for Healthcare Providers	1
TOTAL PROGRAM CREDITS		13

## Pharmacy Technician Certificate

### Health & Human Services Division

This program prepares students to work as Pharmacy Technicians. Learn basic pharmacy skills (reading prescriptions, order entry, IV medication prep, etc.). Students complete 53 credits, resulting in a Pharmacy Technician Certificate. The program is accredited by the American Society of Health-System Pharmacists (ASHP). This program starts every Fall quarter.

#### PREREQUISITES

- College transcript showing successful completion of ENGL 098 with final placement into ENGL& 101 or placement into ENGL& 101 within last two years of application date
- College transcript showing successful completion of MATH 097 Elementary Algebra or equivalent or placement into MATH 098 Intermediate Algebra within one year of application date
- Higher level ENGL or MATH classes must be taken within the last five years of application date.
- High School Diploma or GED
- Must be 18 years of age
- Additional Information/Requirements:
  - National Background Check
  - Immunizations are required to be placed into externship
  - HIV/AIDS education minimum of 4 hours per WA State Pharmacy Quality Assurance
  - Commission requirements
  - Active WA State Pharmacy Assistant License/Registration

#### TECHNICAL SPECIALTY COURSES

AMA	117	Medical Terminology	5
PHA	115	Orientation to Pharmacy Practice	3
PHA	120	Pharmacy Calculations	3
PHA	130	Over the Counter Drugs	2
PHA	140	Sterile Products and Aseptic Technique I	3
PHA	141	Sterile Products and Aseptic Technique II	3
PHA	146	Communications in Pharmacy Practice	2
PHA	150	Pharmacology I	3
PHA	151	Pharmacology II	2
PHA	160	Pharmacy Technology I	3
PHA	161	Pharmacy Technology II	3
PHA	170	Pharmacy Records Management	5
PHA	180	Healthcare Systems, Insurance and Billing	2
PHA	185	Pharmacy Law and Ethics	3
PHA	190	Pharmacy Technician Externship	13
PHA	191	Job Skills and National Exam Preparation	1

TOTAL PROGRAM CREDITS 56

## Pharmacy Technician Associate of Applied Science Degree (A.A.S.)

### Health & Human Services Division

This program prepares students to work as Pharmacy Technicians. The degree is a sign on increased competency and readiness for career/salary advancement. Learn basic pharmacy skills (reading prescriptions, order entry, IV medication prep, etc.). Students complete 94 credits, resulting in a Pharmacy Technician AAS. The program is accredited by the American Society of Health-System Pharmacists (ASHP). This program starts every Fall quarter.

Completion of Certificate Requirements: 49 credits

#### COMMUNICATION COURSES

CMST Any Approved College Level Communication Course . . . 5

#### TECHNICAL SPECIALTY COURSES

ABD	150	Study Abroad	30
AHI	100	Introduction to Medical Vocabulary	3
PHA	112	Pharmacy Law	2
PHA	115	Orientation to Pharmacy Practice	3
PHA	120	Pharmacy Calculations	3
PHA	130	Over the Counter Drugs	2
PHA	140	Sterile Products and Aseptic Technique I	3
PHA	141	Sterile Products and Aseptic Technique II	3
PHA	145	Pharmacy Ethics	1
PHA	146	Communications in Pharmacy Practice	2
PHA	151	Pharmacology II	2
PHA	160	Pharmacy Technology I	3
PHA	161	Pharmacy Technology II	3
PHA	170	Pharmacy Records Management	5
PHA	190	Pharmacy Technician Externship	13
PHA	191	Job Skills and National Exam Preparation	1

#### ELECTIVES

Elective . . . . . 16  
 Any college electives  
 See Advising for list of approved courses.

#### GENERAL EDUCATION COURSES

BUS 236 Interpersonal Communications for the Workplace . . . . . 5  
 Natural World, the . . . . . 5  
 Following can be substituted:  
 other Approved Course (5) or see Advising for list of approved courses.  
 U.S. Cultures . . . . . 5  
 Following can be substituted: Global Studies course (5)  
 MATH – Any Approved College-level Computation . . . . . 5  
 Following can be substituted: Q Course (5)  
 See Advising for list of approved courses.

TOTAL PROGRAM CREDITS 90

## Prenursing (A.S.-DTA)

This pathway is designed for students who wish to transfer to a Bachelor of Science in Nursing (BSN) at a four-year college or university. The Associate of Science degree with a concentration in Pre-Nursing to BSN is intended for students who want to take their science and general education classes at North to prepare to transfer to a four-year college or university to begin their nursing classes and earn a Bachelor of Science in Nursing (BSN) degree.

Students in this pathway develop skills in applying and communicating fundamental concepts/principles of science to one's daily life, demonstrating the process of scientific inquiry, solving problems analytically, and thinking critically. In addition, students will learn verbal communication, and group communication and collaborations, and awareness of human behavior and thinking that will serve them in both personal and professional capacities. Competencies in these areas consistently rank at the top of employer wish lists. The role of the nurse is more important than ever, as communities are currently in an era of provider shortages. In fact, nursing make up the largest healthcare profession in the United States. They work in a variety of settings, which include clinics, hospitals, long term care facilities, and community settings.

Students completing this track are not eligible to take the National Council Licensure Examination (NCLEX) for Registered Nursing until they complete their BSN program. Students wishing to become a registered nurse directly after completing their associate degree should talk with an advisor about an Associate in Nursing Direct Transfer Degree/Major Related Program (AN DTA.MRP).





## SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH

### Aerospace Engineering (A.S.- Track 2)

This pathway meets requirements for the Associate of Science Track 2 (AS Track 2) degree with a concentration in Aeronautics and Astronautics (Aerospace) Engineering. Completion of this degree prepares you to transfer into Aeronautics and Astronautics (Aerospace) Engineering major at a four-year college or university, which opens doors to a variety of careers in sectors including research and design, business, government, production operations, and industries.

Students in this pathway develop skills in problem solving, critical thinking, verbal communication, analysis and research, computer and technical literacy, group communication and collaboration, interpersonal communication and leadership.

### Bio/Chemical Engineering (A.S.- Track 2)

This pathway meets requirements for the Associate of Science Track 2 (AS Track 2) degree with a concentration in Bio/Chemical Engineering. Completion of this degree opens doors to a variety of careers in sectors including research and design, business, government, and industries in Bio/Chemical Engineering fields.

Students in this pathway develop skills in problem solving, critical thinking, verbal communication, analysis and research, computer and technical literacy, group communication and collaboration, interpersonal communication and leadership.

### Biology (A.S.–Track 1)

This pathway meets requirements for the Associate of Science - Transfer, Track 1 (AS-Track 1) with a concentration in Biology (Full-Time). Students in this program develop skills in applying and communicating fundamental concepts/principles of biology to one's daily life, demonstrating the process of scientific inquiry, and solving problems analytically.

Completion of this program opens doors to a variety of careers in sectors including research, healthcare, education, non-profit, technology and government. It also allows you to transfer at the junior level into a Biology program such as Botany, Zoology, Microbiology, Genetics, Marine Biology, Environmental Science, or a related field at a four-year college or university, or to a Bachelor of Applied Science (BAS) at one of the Seattle Colleges.

### Building Information Modeling (BIM) Short-Term Certificate

#### Business, Engineering & Information Technologies Division

Building Information Modeling technology supports the principles of design and engineering and how the industry has made a paradigm shift to sustainability in whole building design. Students develop skills in building computer-generated models that unify architecture, engineering, construction and sustainability. Students complete 19 credits, resulting in a Building Information Modeling Certificate. Students can continue their education by moving into the Architectural Engineering Drafting AAS.

#### TECHNICAL SPECIALTY COURSES

TDR	100	Basic BIM for Design and Construction . . . . .	5
TDR	101	Intermediate BIM for Design and Construction . .	5
TDR	102	Advanced BIM for Design and Construction . . .	5
TDR	103	Energy Analysis Fr Building Information Modeling . . . . .	4

TOTAL PROGRAM CREDITS 19

### Chemistry (A.S.–Track 1)

This pathway is designed to meet Associate of Science - Transfer, Track 1 (AS-Track 1) degree requirements with a concentration in Chemistry. Students in this program learn about matter and energy down to the molecular level. Courses build a solid foundation in general chemistry and develop students' understanding of the scientific method of experimentation, observation and analysis of results. Students will also gain hands-on experiences in the lab.

Completion of this program opens doors to a variety of academic, industry, and medical careers in research & development, manufacturing, and more across the public and private sectors. It also allows you to transfer into a chemistry or related major at a four-year college or university, or to a Bachelor of Applied Science (BAS) at one of the Seattle Colleges.

### CISCO Certified Network Associate Short-Term Certificate

#### Business, Engineering & Information Technologies Division

The certificate prepares students to work as Network Managers, IT Administrators, or IT Specialists. Learn to troubleshoot hardware and network problems in CISCO environments, install and configure software and upgrades of CISCO environment, and use appropriate resources to resolve network management issues. Students complete 15 credits, resulting in a CISCO Network Associate Certificate. The program provides the training needed to pass the CISCO Certified Entry Network Technician (CCENT) and CISCO Certified Network Associate (CCNA) exams.

**PREREQUISITES**

There are no formal program prerequisites, but students are strongly advised to have skills comparable to EET 131 (IT Essentials I/A+ Certification) and EET 132 (IT Essentials II/Advanced A+ Certification). CISCO 1 must be completed before enrolling in CISCO 2. CISCO 2 must be completed before enrolling in CISCO 3.

**TECHNICAL SPECIALTY COURSES**

IT	142	Network 2 – Interconnecting CISCO Network Device 2 .....	5
IT	144	Network Management – CISCO II.....	5
IT	146	Network Management – CISCO III .....	5
<b>TOTAL PROGRAM CREDITS</b>			<b>15</b>

**Civil and Environmental Engineering (A.S.- Track 2)**

This pathway meets requirements for the Associate of Science Track 2 (AS Track 2) degree with a concentration in Civil and Environmental Engineering. Completion of this degree prepares you to transfer into Civil/Environmental Engineering major at a four-year college or university, which opens doors to a variety of careers in sectors including research and design, business, government, education, and industries.

Students in this pathway develop skills in problem solving, critical thinking, verbal communication, analysis and research, computer and technical literacy, group communication and collaboration, interpersonal communication and leadership.

**Computer Aided Design (CAD) for Design and Construction Short-Term Certificate Business, Engineering & Information Technologies Division**

This certificate prepares students for a growing number of entry-level jobs in engineering, construction, and architectural firms. Course work includes instruction and hands-on training in basic engineering, architectural, and drafting practices. Students complete 14 credits, resulting in a CAD for Construction and Design Certificate. Students can continue their education by moving into the Architectural Engineering Drafting AAS.

**TECHNICAL SPECIALTY COURSES**

TDR	111	Basic CAD Drafting for Construction and Design.....	5
TDR	112	Intermediate CAD Drafting/Construction & Design .....	5
TDR	176	Advanced AutoCAD for Arch & Engineering Drafting .....	4
<b>TOTAL CREDITS</b>			<b>14</b>

**Computer Science (ACS-DTA/MRP)**

This pathway meets requirements for the Associate of Computer Science DTA/MRP. Completion of this degree prepares you to transfer into a computer science major at a four-year college or university, which opens doors to a variety of software development careers in the tech sector including specializations like cybersecurity, machine learning, or artificial intelligence.

Students in this pathway develop skills in critical thinking, problem solving, analytical techniques, and computational tools to solve computer science problems. Students will practice written communication and software design concepts.

**Computer Science Bachelor of Science (BS) Workforce Instruction**

**PREREQUISITES**

Prerequisites are classes that prove eligibility by testing out of a class or having satisfied prior course work. Course work earned at other institutions must be unofficially evaluated or approved by a program advisor or faculty before registering.

Equivalent course(s) can be substituted for courses below:

BUS	210	Business and Economic Statistics.....	5
The Statistics course ( 5 credits ) needed for Quantitative/Symbolic Reasoning (QSR) requirement (10) This course is recommended for Information Science (IS) Pathway.			
CSC	110	Introduction to Computer Programming .....	5
CSC	142	Computer Programming I .....	5
CSC	143	Computer Programming II .....	5
ENGL&	101	English Composition I .....	5
This course can be applied towards fulfillment of Communication Skills requirement (5).			
MATH&	141	Precalculus I.....	5
This course can be applied towards fulfillment of the Pre-Calculus course (5) needed for Quantitative/Symbolic Reasoning (QSR) requirement (10).			
MATH&	146	Introduction to Statistics .....	5
This course can be applied towards fulfillment of the Statistics course (5) needed for Quantitative/Symbolic Reasoning (QSR) requirement (10).			
MATH	211	Elements of Statistical Methods .....	5
This course can be applied towards fulfillment of the Statistics course (5) needed for Quantitative/Symbolic Reasoning (QSR) requirement (10).			

**CORE DEGREE REQUIREMENTS**

AD	325	Data Structure & Algorithms .....	5
AD	350	Database Technology .....	5
AD	400	Project Management in Software Development.....	5
CSB	302	Analysis of Algorithms.....	5
CSB	310	Programming Languages.....	5
CSB	430	Software Design and Implementation.....	5
CSB	440	Computer Science Practicum Internship.....	5

**ELECTIVE OPTION - INFORMATION SCIENCE PATHWAY**

Total Elective Option Credits Required: 25

Select one option to complete from the Elective Options listed

AD	320	Web Application Development	5
AD	420	Cloud Computing - Software as Service	5
AD	450	Datascience Development	5
IBN	330	Data Analytics in Business and Accounting	4
IBN	402	Management of Information Systems	5

**ELECTIVE OPTION - COMPUTER SCIENCE PATHWAY**

Total Elective Option Credits Required: 25

Select one option to complete from the Elective Options listed

AD	320	Web Application Development	5
AD	420	Cloud Computing – Software as Service	5
CSB	330	Computer Architecture & Network	5
CSB	340	Operating Systems	5
CSB	435	Secure Software Development	5

**GENERAL EDUCATION COURSES**

Typically, 15 or more of the following credits must be completed before beginning Computer Science BS degree.

ENGL&	101	English Composition I	5
		Prerequisite Course(s)	
		Visual, Literary, and Performing Arts	10
		Select from any Humanities course.	
		Individual, Cultures, and Societies	10
		Select from any Social Sciences course.	
		Natural World, the	10
		Select from any Natural Word course – one 5 credit lab class is required.	
		Non-lab class may include 5 credits from the following courses:	
		CSC 110 - Introduction to Computer Programming;	
		CSC 142 - Computer Programming I;	
		CSC 143 - Computer Programming II	
		Communication	5
		Select from any Composition, Writing-intensive, or Basic Speaking Skills course.	
		ENGL& 235 - Technical Writing is recommended.	
		Quantitative / Symbolic Reasoning	10
		Prerequisite Course(s)	
		Completion of any Statistics course (5) and any Pre-Calculus course (5)	
		See Advising for list of approved courses.	
		General Education course(s)	10
		Select from any General Education courses suited for Computer Science BS degree.	
		See Advising for list of approved courses.	

**ELECTIVES**

Includes any credits taken toward:

- Computer Science Associate of Science (AS) degree and/or Computer Science prerequisites:
- CSC 110 - Introduction to Computer Programming
- CSC 142 - Computer Programming I
- CSC 143 - Computer Programming II
- See Advising for list of approved courses.

TOTAL PROGRAM CREDITS 180

**Electrical Engineering (A.S.- Track 2)**

This pathway meets requirements for the Associate of Science Track 2 (AS Track 2) degree with a concentration in Electrical Engineering. Completion of this degree prepares you to transfer into Electrical Engineering major at a four-year college or university, which opens doors to a variety of careers in sectors including research and design, business, government, education, and industries.

Students in this pathway develop skills in problem solving, critical thinking, verbal communication, analysis and research, computer and technical literacy, group communication and collaboration, interpersonal communication and leadership.

**Engineering Graphics & Design Technology Associate of Applied Science Degree (A.A.S.)**

**Business, Engineering & Information Technologies Division**

This degree prepares students for the growing number of entry-level jobs in engineering, construction, and architectural firms. Coursework includes instruction and hands-on training in: computer and conventional drafting, construction materials and processes, basic engineering mechanics, and architectural cost estimating. Student complete 93 credits, resulting in an Architectural Engineering Drafting AAS.

**TECHNICAL SPECIALTY COURSES**

TDR	100	Basic BIM for Design and Construction	5
TDR	101	Intermediate BIM for Design and Construction	5
TDR	102	Advanced BIM for Design and Construction	5
TDR	109	Architectural Engineering Lab	5
		1.0 Credits - Total of five (5) credits required	
		Repeated each quarter until total of 5 credits is achieved	
TDR	111	Basic CAD Drafting for Construction and Design	5
TDR	112	Intermediate CAD Drafting/Construction & Design	5
TDR	113	Basic Drafting	5
TDR	124	Materials and Methods of Construction	5
TDR	134	Systems in Buildings	5
TDR	144	Design and Construction Environment	5
TDR	160	Applied Mechanics I	5
TDR	161	Applied Mechanics II	5
TDR	269	Construction Estimating	5

**RELATED INSTRUCTION**

BUS	169	Using Computers in Business	5
		Following can be substituted:	
		CSC 111 – Computers for Math and Science (5)	
BUS	236	Interpersonal Communications for the Workplace	5

TOTAL PROGRAM CREDITS 180

EET	109	Mathematical Applications for Circuit Analysis .....	5
		Following can be substituted: MATH& 141 - Pre-Calculus I (5)	
ENGL&	101	English Composition I .....	5
ENGL&	235	Technical Writing.....	5
U.S. Cultures		.....	5
		Following can be substituted: Global Studies course (5) Select from list of approved courses.	
<b>TOTAL PROGRAM CREDITS</b>			<b>95</b>

## Engineering Graphics & Design Technology Certificate

### Business, Engineering & Information Technologies Division

The certificate prepares students for the growing number of entry-level jobs in engineering, construction, and architectural firms. Coursework includes instruction and hands-on training in: computer and conventional drafting, construction materials and processes, basic engineering mechanics, and architectural cost estimating. Students complete 49 credits, resulting in an Architectural Engineering Drafting Certificate. Students can continue their education by moving into the Architectural Engineering Drafting AAS.

#### PREREQUISITES

Placement into ENGL 097 / ENGL 098 or higher  
Placement into MATH 084 or higher  
Completion of BUS 169 or IT 101

#### TECHNICAL SPECIALTY COURSES

TDR	111	Basic CAD Drafting for Construction and Design .....	5
TDR	112	Intermediate CAD Drafting/Construction & Design .....	5
TDR	113	Basic Drafting .....	5
TDR	124	Materials and Methods of Construction .....	5
TDR	134	Systems in Buildings.....	5
TDR	144	Design and Construction Environment .....	5
TDR	176	Advanced AutoCAD for Arch & Engineering Drafting .....	4

#### RELATED INSTRUCTION

BUS	236	Interpersonal Communications for the Workplace .....	5
EET	109	Mathematical Applications for Circuit Analysis..	5
		Following can be substituted: MATH& 141 - Pre-Calculus I (5) or higher level math course	
ENGL&	101	English Composition I .....	5
<b>TOTAL PROGRAM CREDITS</b>			<b>49</b>

## Environmental Science (A.S.-DTA)

This pathway meets the requirements for the Associate of Science-Direct Transfer Agreement (AS-DTA) degree with an emphasis in Environmental Science. Students in this program develop interdisciplinary skills related to the environment and will incorporate fundamental concepts and principles of environmental science to daily life. Students will utilize the process of scientific inquiry, apply awareness of current affairs to environmental issues, and solve problems using critical thinking.

Completion of this program opens doors to a variety of careers in sectors including research, education, health and safety, non-profit, sustainable development, sustainable business, technology, and government. It also allows students to transfer at the junior level into an Environmental Science program at a four-year college or university or continue on to a Bachelor of Applied Science (BAS) from a Washington state community college.

## Environmental Science (A.S.- Track 1)

This pathway meets the requirements for the Associate of Science - Transfer, Track 1 degree with a concentration in Environmental Science. Completion of this degree opens doors to a variety of careers in sectors including research, education, health and safety, non-profit, sustainable development, sustainable business, technology, and government. It also allows you to transfer at the junior level into an Environmental Science program at a four-year college or university.

Students in this pathway develop interdisciplinary skills related to the environment. Students will incorporate and communicate fundamental concepts and principles of environmental science to daily life. Students will utilize the process of scientific inquiry, apply awareness of current affairs to environmental issues, and solve problems using critical thinking.

## Full Stack Developer Certificate

### Information Technology Programs

#### PREREQUISITES

MATH	081	Basic Math Skills.....	5
		Following can be substituted: higher MATH placement	

#### TECHNICAL SPECIALTY COURSES

BUS	169	Using Computers in Business .....	5
		This course is taken only if following the T-Mobile Project Sequence	
CWE	110	Internship.....	3
IT	102	Introduction to Programming.....	5
IT	111	Internet and Web Authoring Using XHTML ....	5



IT	112	Web Applications . . . . .	5
		This course is NOT taken if following the T-Mobile Project Sequence	
IT	115	Intro to Software Development & Version Control . . . . .	5
IT	125	Using Structured Query Language and SQL Server . . . . .	5
IT	161	Web Authoring 1 . . . . .	5
IT	211	JavaScript and DHTML for Web Development . . . . .	5
IT	212	Data Structures and Algorithms with Java . . . . .	5

**RELATED INSTRUCTION**

BUS	236	Interpersonal Communications for the Workplace . . . . .	5
EET	109	Mathematical Applications for Circuit Analysis . . . . .	5
HUM	105	Intercultural Communication . . . . .	5
<b>TOTAL PROGRAM CREDITS</b>			<b>58</b>

**Geology (A.S.- Track 1)**

This pathway meets requirements for the Associate of Science - Transfer, Track 1 degree with a concentration in Geology. Completion of this degree prepares you to transfer into a Geology major at a four-year college or university, which opens doors to a variety of professional careers in private and government service including subdisciplines like mining, petroleum, engineering, hydrology, geophysics and environmental geology.

Students in this pathway develop skills in oral and written communication, critical thinking and problem solving, systems analysis, research design and planning, digital technology, collaboration, leadership, and intercultural fluency.

**Geology (A.S.- Track 2)**

This pathway meets requirements for the Associate of Science - Transfer, Track 2 degree with a concentration in Geology. Completion of this degree prepares you to transfer into a Geology major at a four-year college or university, which opens doors to a variety of professional careers in private and government service including subdisciplines like mining, petroleum, engineering, hydrology, geophysics and environmental geology.

Students in this pathway develop skills in oral and written communication, critical thinking and problem solving, systems analysis, research design and planning, digital technology, collaboration, leadership, and intercultural fluency.

**IT – Application Development Associate of Applied Science–Transfer Degree (A.A.S.-T)**  
**Business, Engineering & Information Technologies Division**

This degree dually prepares students for both the workplace and to transfer into the Application Development Bachelor of Applied Science (BAS) Degree program. Learn beginning programming, networking, and troubleshooting skills so you can get an entry-level IT job as you pursue your BAS degree. Students complete 90 credits, resulting in a Programming and IT Network Support AAS-T.

**PREREQUISITES**

Note: Advanced placement testing, work experience, and transfer of credits may result in course waivers, credit transfer, and advanced placement.

ENGL&	101	English Composition I . . . . .	5
		Placement into ENGL& 101	
MATH	098	Intermediate Algebra . . . . .	5

**TECHNICAL SPECIALTY COURSES**

CSC	110	Introduction to Computer Programming . . . . .	5
CSC	142	Computer Programming I . . . . .	5
IT	102	Introduction to Programming . . . . .	5
		Following can be substituted: IT 121 – Javascript I	
		The substitution course: IT 121 JavaScript I	
		is a course is taken at Seattle Central.	
IT	111	Internet and Web Authoring Using XHTML . . . . .	5
IT	112	Web Programming with Python . . . . .	5
IT	115	Intro to Software Development & Version Control . . . . .	5
IT	120	Network Essentials – Comptia Network + . . . . .	5
IT	125	Using Structured Query Language and SQL Server . . . . .	5
IT	135	Introduction to Linux . . . . .	5
IT	161	Web Authoring 1 . . . . .	5

**RELATED INSTRUCTION**

ENGL&	101	English Composition I . . . . .	5
HUM	105	Intercultural Communication . . . . .	5
MATH&	146	Introduction to Statistics . . . . .	5
PSYC&	100	General Psychology . . . . .	5
U.S. Cultures		. . . . .	5
		Following can be substituted: Global Studies course	
		Select course from list of approved courses.	
		See Advising for assistance.	
Natural World – Lab Science		. . . . .	5
		Select course from list of approved Natural World	
		Lab Science courses. See Advising for assistance.	

**TECHNICAL ELECTIVES**

Select 10 credits from the courses listed below:

BUS	169	Using Computers in Business . . . . .	5
CSC	143	Computer Programming II . . . . .	5
EET	131	IT Essentials I – A+ Certification . . . . .	5
IT	100	Introduction to Computer Systems and Networks . . . . .	5

IT	162	Web Authoring 2	5
		This course is taken at Seattle Central.	
IT	212	Data Structures and Algorithms with Java	5
		This course is taken at Seattle Central.	
IT	216	Android Application Development 1	5
		This course is taken at Seattle Central.	
IT	217	Android Application Development 2	5
		This course is taken at Seattle Central.	
IT	261	Web App Programming 1	5
		This course is taken at Seattle Central.	
IT	262	Web App Programming 2	5
		This course is taken at Seattle Central.	
<b>TOTAL PROGRAM CREDITS</b>			<b>90</b>

## IT – Application Development Bachelor of Applied Science Degree (B.A.S.)

### Math/Science Division

The Applications Development (AD) BAS degree program prepares students for jobs in entry-level software developing, mobile developing, software developer in test positions, quality engineering positions, software engineer positions and more. The AD program incorporates hands-on learning and consists of four development and practicum tracks, which are web applications, mobile application development, data science and cloud computing - software as a service. The AD program consists of 70 upper division credits and students are encouraged to look into and apply for the program once they are near their associate degree completion or have close to 90 college level credits. This is a two year full-time program or a 3-year part-time program, which will result in a regionally accredited bachelor's degree.

Applicants must have an associate degree (or equivalent credits) from a regionally accredited institution with a minimum cumulative 2.5 GPA and a 2.5 GPA or higher in all IT courses.

#### PREREQUISITES

Equivalent courses may be substituted

ENGL& 101	English Composition I	5
Quantitative/Symbolic Reasoning		5
	QSR course in Statistics or Calculus recommended	
Programming Course		10
	5 credits of Object-Oriented Programming strongly recommended	
	See advising for list of approved courses.	
	Suggested course(s):	
	CSC 110 - Introduction to Computer Programming or CSC 142 - Computer Programming I	
Database Development/Programming in SQL Course		5
	See advising for list of approved courses.	
	Suggested course: IT 125 - Using Structured Query Language and SQL Server	

Web Programming /Javascript	5
	See advising for list of approved courses.
	Suggested Course:
	IT 102 - Introduction to Programming or
	IT 161 - Web Authoring I
Linux	5
	See advising for list of approved courses
	Suggested course: IT 135 - Introduction to Linux

#### TECHNICAL SPECIALTY COURSES

AD 300	Component Software	5
	Following can be substituted:	
	CSC 143 – Computer Programming II (5)	
AD 315	Discrete Mathematics in Computer Programming	5
AD 320	Web Application Development	5
AD 325	Data Structure & Algorithms	5
AD 340	Mobile Application Development	5
AD 350	Database Technology	5
AD 400	Project Management in Software Development	5
AD 410	Web Application Practicum	5
AD 420	Cloud Computing – Software as Service	5
AD 430	Mobile Application Practicum	5
AD 440	Cloud Computing Practicum	5
AD 450	Datascience Development	5
AD 470	Data Science Practicum	5
AD 490	Internship/Capstone Project AD-BAS	5

#### RELATED INSTRUCTION

General Education Prerequisites comprise 10 of 60 credits required. See Advising Center for list of approved courses.

Typically 15 or more of the following credits must be completed before beginning AD-BAS degree

Visual, Literary, and Performing Arts	10
	Humanities or contact the Advising Center for acceptable courses
Individual, Cultures, and Societies	10
	Social sciences or contact the Advising Center for acceptable courses
Natural World, the	10
	Any physical, biological or earth sciences. At least one 5 credit lab class required. or contact the Advising Center for acceptable courses
Communication	5
	5 credits in a Composition, Writing-intensive, or basic speaking skills courses
General Education Elective	15
	Credits may be selected to best suit the needs of the baccalaureate program

#### ELECTIVES

Elective	50
	See Advising Center for list of courses. Includes any credits taken towards the associate degree and/or technology prerequisites.

<b>TOTAL PROGRAM CREDITS</b>	<b>180</b>
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## IT – Network and Server Administration Specialist Associate of Applied Science Degree (A.A.S.)

### Business, Engineering & Information Technologies Division

This degree program prepares students to enter the IT field as IT Managers, Systems Administrators, or IT Specialist. The curriculum is focused on cloud, cybersecurity and CIS administration. Students complete 90 credits, resulting in a Network Server Administration AAS.

#### PREREQUISITES

English placement into ENGL&101

Math placement into MATH 084 or higher MATH course

#### TECHNICAL SPECIALTY COURSES

EET	131	IT Essentials I - A+ Certification . . . . .	5
EET	132	IT Essentials A+ Certification Advanced. . . . .	5
IT	100	Introduction to Computer Systems and Networks . . . . .	5
IT	111	Internet and Web Authoring Using XHTML . . . . .	5
IT	120	Network Essentials - Comptia Network + . . . . .	5
IT	122	Installing and Configuring Windows Server. . . . .	5
IT	124	Network OS 2 - Windows Server. . . . .	5
IT	126	Network OS 3 - Windows Network Infrastructure . . . . .	5
IT	135	Introduction to Linux. . . . .	5
IT	138	Linux for Network Administration . . . . .	5
IT	150	IT Systems Security + . . . . .	5
IT	157	Ethical Hacking. . . . .	5

#### GENERAL EDUCATION COURSES

BUS	236	Interpersonal Communications for the Workplace . . . . .	5
EET	109	Mathematical Applications for Circuit Analysis. . . . .	5
ENGL&	101	English Composition I . . . . .	5
U.S. Cultures		. . . . .	5

Following can be substituted: Global Studies course  
Contact division office for a list of approved courses.

#### ELECTIVES

EET	108	Introduction to Fiber Optics . . . . .	5
IT	115	Intro to Software Development & Version Control. . . . .	5
Technical Electives. . . . .			10
<b>TOTAL PROGRAM CREDITS</b>			<b>90</b>

## IT – Network and Server Administration Specialist Certificate

### Business, Engineering & Information Technologies Division

This certificate is designed for college graduates who want to specialize in cloud, cybersecurity and CIS administration. The curriculum includes information security concepts and best-practices, and industry certification preparation. Students complete 40 credits, resulting in a Network Server Administration Certificate.

#### PREREQUISITES

EET	131	IT Essentials I - A+ Certification . . . . .	5
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Following can be substituted:  
CompTIA A+ Certification for EET 131 & EET 132

#### TECHNICAL SPECIALTY COURSES

IT	100	Introduction to Computer Systems and Networks . . . . .	5
IT	111	Internet and Web Authoring Using XHTML . . . . .	5
IT	120	Network Essentials - Comptia Network + . . . . .	5
IT	124	Network OS 2 - Windows Server. . . . .	5
IT	126	Network OS 3 - Windows Network Infrastructure . . . . .	5
IT	135	Introduction to Linux. . . . .	5

Following can be substituted:  
IT 138 - UNIX for Network Administration (5) or  
IT 140 - Network Management - UNIX (5)

IT	150	IT Systems Security + . . . . .	5
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#### ELECTIVES

BUS	118	Project Management Introduction and Overview . . . . .	5
EET	108	Introduction to Fiber Optics . . . . .	5
EET	132	IT Essentials A+ Certification Advanced. . . . .	5
IT	122	Installing and Configuring Windows Server. . . . .	5
IT	138	Linux for Network Administration . . . . .	5
IT	157	Ethical Hacking. . . . .	5

**TOTAL PROGRAM CREDITS** **40**

## Linux Network and Security Certificate

### Business, Engineering & Information Technologies Division

This program prepares students for careers in system administration, network administration, and information security. Students will gain experience managing and securing the Linux operation system. Students will also learn how Linux-based tools apply to network administration and security testing.

#### PREREQUISITES

Course work earned at other institutions must be unofficially evaluated or approved by a program advisor before registering.

EET 131 IT Essentials I – A+ Certification ..... 5  
 Following can be substituted: Instructor Permission

#### TECHNICAL SPECIALTY COURSES

IT	135	Introduction to Linux.....	5
IT	138	Linux for Network Administration.....	5
IT	150	IT Systems Security + .....	5
IT	157	Ethical Hacking.....	5
TOTAL PROGRAM CREDITS			20

## Math (A.S.-DTA)

This pathway meets requirements for the Associate of Science - Transfer with a concentration in Math. Students in this program will learn how to use mathematical concepts to break down complicated problems into manageable pieces. Students will use creative, exploratory, and lateral thinking in problem-solving as well as strong reasoning and analytical-thinking skills through math courses ranging from basic arithmetic to differential equations.

Completion of this program opens doors to a variety of careers in sectors such as research, finance, accounting, academia and more. It also allows you to transfer at the junior level into a Mathematics program at a four-year college or university, or to a Bachelor of Applied Science (BAS) at one of the Seattle Colleges.

## Mechanical Engineering

This pathway meets requirements for the Associate of Science Track 2 (AS Track 2) degree with a concentration in Mechanical Engineering. Completion of this degree prepares you to transfer into Mechanical Engineering major at a four-year college or university, which opens doors to a variety of careers in sectors including research and design, business, government, education, and industries.

Students in this pathway develop skills in problem solving, critical thinking, verbal communication, analysis and research, computer and technical literacy, group communication and collaboration, interpersonal communication and leadership.

## Physics (A.S.–Track 2)

This pathway meets requirements for the Associate of Science - Transfer, Track 2 degree requirements with a concentration in Physics. Students in this program develop an understanding of physics and skills in experimental design, teamwork, project management, programming, advanced math, technical writing, applying physics to interdisciplinary problems, and effective communication.

Completion of this program prepares students to transfer at the junior level into a Physics program at a four-year college or university which opens doors to a variety of careers in sectors including engineering, computer science, research in the public and private sector, and education. It also prepares students well for graduate coursework in Engineering, Earth and Space Science, Mathematics or a related field at a four-year college or university.

## Web Application Technologies Certificate

### Business, Engineering & Information Technologies Division

This certificate will prepare students for positions in web application support, quality assurance, usability testing and help desk. Learn to build and support simple web-based applications in HTML5 and CSS and configure client and server devices with TCP/IP settings. Students complete 20 credits, resulting in a Web Application Technologies Certificate.

#### TECHNICAL SPECIALTY COURSES

IT	102	Introduction to Programming.....	5
IT	120	Network Essentials – Comptia Network +.....	5
Must have EET 131 – IT Essentials I A+ CERT (may be taken concurrently) or instruction permission			
IT	125	Using Structured Query Language and SQL Server.....	5
Recommended: work or class experience using DBMS			
IT	161	Web Authoring 1 .....	5
TOTAL PROGRAM CREDITS			20



## SKILLED TRADES AND TECHNICAL TRAINING

### Aviation Electronics I: Wire Assembly Certificate

#### Business, Engineering & Information Technologies Division

This pathway meets the requirements for the Certificate in Aviation Electronics I: Wire Assembly. Students in this pathway learn the basic knowledge, skills and abilities to meet minimum requirements for employment as an entry-level wire assembly technician in aerospace-related industries. Learn to perform basic wiring and termination common to avionics.

#### PREREQUISITES

For Placement Testing: contact Testing Center, (206) 527-3674.

To begin program, students must test into the English and Math courses listed below:

BUS	169	Using Computers in Business	5
		Following can be substituted: equivalent computer experience	
ENGL	097	English 097 – Integrated Reading and Writing I	10
		Following can be substituted: ENGL 098 - College Prep Writing IV (5) or higher ENGL course	
MATH	084	Algebra I	5
		Following can be substituted: higher MATH course or have taken equivalent or higher MATH course	

#### TECHNICAL SPECIALTY COURSES

EET	107	Introduction to Aviation Electronics	5
EET	108	Introduction to Fiber Optics	5
EET	109	Mathematical Applications for Circuit Analysis	5
		Following can be substituted: MATH& 141 – Precalculus I (5)	
EET	137	Introduction to Robotics	5
EET	161	Principles of DC Electronics	5
EET	162	A.C. Principles of Electronics	5
TOTAL PROGRAM CREDITS			29-30

### Aviation Electronics II: Electronics Technician Certificate

#### Business, Engineering & Information Technologies Division

This pathway meets the requirements for the Certificate in Aviation Electronics II: Electronics Technician. Students in this pathway learn basic knowledge, skills, and abilities to meet minimum requirements for employment as an entry-level electronics technician in aerospace-related industries. Learn to perform basic wiring and termination common to avionics, and apply technical concepts and terms used in the avionics field.

#### PREREQUISITES

For Placement Testing: contact Testing Center, (206) 527-3674.

To begin program, students must test into the English and Math courses listed below:

BUS	169	Using Computers in Business	5
		Following can be substituted: equivalent computer experience	
ENGL	097	English 097 – Integrated Reading and Writing I	10
		Following can be substituted: ENGL 098 - College Prep Writing IV (5) or higher ENGL course	
MATH	084	Algebra I	5
		Following can be substituted: higher MATH course or have taken equivalent or higher MATH course	

#### TECHNICAL SPECIALTY COURSES

EET	105	Introduction to Technology	2
EET	106	Introduction to Soldering	1
EET	107	Introduction to Aviation Electronics	5
EET	108	Introduction to Fiber Optics	5
EET	109	Mathematical Applications for Circuit Analysis	5
		Following can be substituted: MATH& 141 – PreCalculus I (5)	
EET	112	Fundamentals of Fluid Power	5
EET	131	IT Essentials I – A+ Certification	5
EET	137	Introduction to Robotics	5
EET	161	Principles of DC Electronics	5
EET	162	A.C. Principles of Electronics	5
EET	163	Solid State Electronics	5
EET	170	Digital Electronics & Plcs I	5

#### GENERAL EDUCATION COURSES

BUS	236	Interpersonal Communications for the Workplace	5
		Following can be substituted: HUM 105 – Intercultural Communication (5) or ISP 101 – The Global Society (5) or ISP 110 – Introduction to Global Studies (5) or POLS 112 – Contemporary World (5) or SOC& 101 – Introduction to Sociology (5) The above course or listed substitutes meets the Human Relations requirement. BUS 236 is the preferred course.	

ENGL& 101 English Composition I .....	5
Following can be substituted:	
ENGL& 230 – Technical Writing (3)	
or ENGL& 235 – Technical Writing (5)	

TOTAL PROGRAM CREDITS 60-63

Air Washington is an equal opportunity employer/program. Auxiliary aids and services are available upon request to individuals with disabilities. This workforce solution was funded \$20M (100%) by a grant awarded by the U.S. Department of Labor’s Employment and Training Administration. The solution was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership. This solution is copyrighted by the institution that created it. Internal use, by an organization and/or personal use by an individual for non-commercial purposes is permissible. All other uses require the prior authorization of the copyright owner.

## Avionics Technician Short-Term Certificate

### Business, Engineering & Information Technologies Division

This pathway is intended as a supplement for Aviation Maintenance Technicians. Students must have completed AMT 112 at South Seattle College or have an FAA Airframe License to complete this program. Students in this pathway learn basic knowledge, skills, and abilities to meet minimum requirements for employment as an entry-level avionics technicians in aerospace-related industries. Learn to perform basic wiring and termination common to avionics, and apply technical concepts and terms used in the avionics field.

#### PREREQUISITES

Successful completion of South Seattle College’s AMT 112 – Basic Electricity for Aviation or approved equivalent or FAA Airframe license.

#### TECHNICAL SPECIALTY COURSES

EET 107 Introduction to Aviation Electronics .....	5
EET 108 Introduction to Fiber Optics .....	5
EET 137 Introduction to Robotics .....	5
Following can be substituted:	
EET 170 – Digital Electronics & PLCs I (5)	

TOTAL PROGRAM CREDITS 15

## Building Trades Apprenticeships: Associate Controls Specialist Apprenticeship

This apprenticeship provides a career pathway into facility operations, engineering and controls contracting occupations. Workers in this occupation must understand the design, installation, and operation of mechanical systems, controls systems, low-voltage electrical circuits, motors, and pumps.

Each apprentice enrolls in related instruction (RSI) classes at a Committee approved school, community college or vocational and technical institute for 144 hours per year during the term of apprenticeship. Acceptance into the apprenticeship program requires employment with a program Training Agent employer. You can contribute to your success by applying yourself to achieving the stated competency objectives, approaching challenges with a positive attitude, progressing towards graduation and being a team player.

## Building Trades Apprenticeships: Ironworkers Local 86 Apprenticeship

The Ironworkers Local 86 apprenticeship program is a special opportunity at North Seattle College for you to get hands-on training in a field that will help you land a well-paid job while you are in training. Ironworkers erect the structural framework for high rise buildings, bridges, power plants and towers. They also place reinforcing steel in concrete forms for roadways, foundations and structures. Welding, ornamental, rigging and machinery moving are also a part of this trade.

Apprenticeship combines classroom studies with OJT (on-the-job training) under the supervision of a journey-level craftsman or trade professional. You can earn a living wage with healthcare, retirement, and other benefits while learning building trades skills. After completing the four years of an apprenticeship, you will earn \$42.35 per hour plus national mobility as a journey-level ironworker.

## Electronics Engineering Technology Associate of Applied Science –Transfer Degree (A.A.S.-T)

### Business, Engineering & Information Technologies Division

This pathway meets AAS-T Electronics Engineering Technology degree requirements. The pathway prepares students for admission to a Bachelor of Science (BS) degree program in Electronics Engineering Technology at Central Washington University (CWU) as well as for the workplace. Students in this pathway meet the minimum requirements for employment as an electronic technician, engineering aide, or failure analysis technician and is popular with employers because graduates are skilled in practical engineering applications. Learn to repair, maintain, analyze and troubleshoot electronic systems using standard laboratory equipment and simulation software.

Students intending to complete the BS at CWU should contact the Faculty Coordinator for details prior to starting the program.

#### PREREQUISITES

For Placement testing, contact Testing Center, (206) 527-3674.

To begin program, students must test into the English and Math courses listed below:

BUS	169	Using Computers in Business	5
		Following can be substituted: equivalent computer experience	
ENGL&	101	English Composition I	5
		Following can be substituted: higher ENGL course	
MATH&	141	Precalculus I	5
		Following can be substituted: higher MATH course or successful completion of equivalent class (or higher)	

#### TECHNICAL SPECIALTY COURSES

EET	105	Introduction to Technology	2
EET	108	Introduction to Fiber Optics	5
EET	137	Introduction to Robotics	5
EET	138	Industrial Robotics	5
EET	161	Principles of DC Electronics	5
EET	162	A.C. Principles of Electronics	5
EET	163	Solid State Electronics	5
EET	165	Analog Circuits and Devices	5
EET	170	Digital Electronics & Plcs I	5
EET	171	Digital Electronics & Plcs II	5
PHYS&	221	Engineering Physics I	5
PHYS&	222	Engineering Physics II	5
PHYS&	223	Engineering Physics III	5

#### TECHNICAL ELECTIVES

Technical Electives	5
Any non-required EEL, EET, HVC, TDR, CSC, CHEM, ENGR, NANO, MATH 116 or higher, BUS 210, BUS 229 or IT 111	
See Advising for list of approved courses.	

#### RELATED INSTRUCTION

CMST& 210	Interpersonal Communication	5
ENGL& 101	English Composition I	5
MATH& 142	Precalculus II	5
MATH& 151	Calculus I	5
MATH& 152	Calculus II	5
U.S. Cultures		5
Following can be substituted: Global Studies course		
Human Relations Elective		5
Choose one of the following: BUS 236 preferred HUM 105, ISP 101, ISP 105, ISP 110, POLS 112, SOC& 101		
TOTAL PROGRAM CREDITS		103-107

## Electronics Technology Associate of Applied Science Degree (A.A.S.)

### Business, Engineering & Information Technologies Division

This pathway meets AAS Electronics Technology degree requirements. The program emphasizes a practical, hands-on approach to the field of electronics and prepares students for a career as an electronics technician. Completion of this degree opens doors to a variety of careers in specialties including aerospace, manufacturing, avionics, biomedical, industrial automation and robotics, and telecommunications in the commercial and government sectors.

Students in this pathway learn to analyze and troubleshoot direct current (DC) and alternating current (AC) circuits, solid state and integrated circuit-based analog and digital electronics, programmable logic controllers (PLCs), fluid power systems, robotics, and information technology (IT).

Students have the opportunity to earn FCC licensure and industry certifications in many subjects including A+, fiber optics, robotics, and others.

#### PREREQUISITES

For Placement testing, contact Testing Center, (206) 527-3674.

To begin program, students must test into the English and Math courses listed below:

BUS	169	Using Computers in Business	5
		Following can be substituted: equivalent computer experience	
ENGL	097	English 097 – Integrated Reading and Writing I	10
		Following can be substituted: ENGL 098 - College Prep Writing IV (5) or higher ENGL course	
MATH	084	Algebra I	5
		Following can be substituted: higher MATH course or have taken equivalent or higher MATH course	

**TECHNICAL SPECIALTY COURSES**

EET	105	Introduction to Technology	2
EET	106	Introduction to Soldering	1
EET	107	Introduction to Aviation Electronics	5
Credit Range: 4-5 credits			
EET	108	Introduction to Fiber Optics	5
EET	112	Fundamentals of Fluid Power	5
EET	114	Applied Physics	5
EET	131	IT Essentials I – A+ Certification	5
EET	132	IT Essentials A+ Certification Advanced	5
EET	137	Introduction to Robotics	5
EET	138	Industrial Robotics	5
EET	161	Principles of DC Electronics	5
EET	162	A.C. Principles of Electronics	5
EET	163	Solid State Electronics	5
EET	165	Analog Circuits and Devices	5
EET	170	Digital Electronics & Plcs I	5
EET	171	Digital Electronics & Plcs II	5
EET	203	Programmable Logic Controllers	5
EET	219	Metrology and Measurement Science	3

**RELATED INSTRUCTION**

BUS	112	Multi-Cultural Issues in the American Workplace	5
Following can be substituted: US Cultures course (5) or Global Studies course (5)			
EET	109	Mathematical Applications for Circuit Analysis	5
Following can be substituted: MATH & 141 – Pre-Calculus (5) or higher MATH course			
ENGL&	101	English Composition I	5
While students must test into ENGL 097 to start the degree, they must complete ENGL& 101 to finish.			

**RELATED INSTRUCTION – HUMAN RELATIONS ELECTIVES**

Choose from one of the following:

BUS	236	Interpersonal Communications for the Workplace	5
This is the preferred course.			
HUM	105	Intercultural Communication	5
SOC&	101	Introduction to Sociology	5

**RELATED INSTRUCTION – TECHNICAL ELECTIVES**

Any non-required course(s) from the following departments – EEL, EET, HVC, CSC, CHEM, ENGR or course listed below:

See Advising Center for assistance.

BUS	210	Business and Economic Statistics	5
BUS	229	Project Management Tools Techniques and Control	5
IT	111	Internet and Web Authoring Using XHTML	5
Following can be substituted: higher IT course			
MATH	116	Applications of Math: Mngmnt, Life and Soc Sci.	5
Following can be substituted: higher MATH course			

TOTAL PROGRAM CREDITS 108-111

**Electronics Technology Certificate****Business, Engineering & Information Technologies Division**

This pathway meets the requirements for the Certificate in Electronics Technology. Students in this pathway learn the knowledge, skills, and abilities to operate, maintain and repair of a wide array of electronics-based equipment. Instruction provides a broad foundation in electronics training and emphasizes a hands-on approach, use of sophisticated test equipment, and a solid base of information concerning computer hardware and software for technical applications.

This pathway offers job training directed toward immediate employment and future advancement with companies specializing in manufacturing or servicing all types of electronic equipment.

**PREREQUISITES**

For Placement testing, contact Testing Center, (206) 527-3674.

A minimum of 15 credits of this certificate must be taken in residence at North Seattle College

To begin program, students must test into the English and Math courses listed below:

BUS	169	Using Computers in Business	5
equivalent computer experience			
ENGL	097	English 097: Integrated Reading and Writing I..	10
Following can be substituted: ENGL 098 - College Prep Writing IV or higher ENGL course			
MATH	084	Algebra I	5
Following can be substituted: higher MATH course or have taken equivalent or higher MATH course			

**TECHNICAL SPECIALTY COURSES**

EET	105	Introduction to Technology	2
EET	106	Introduction to Soldering	1
EET	107	Introduction to Aviation Electronics	5
EET	108	Introduction to Fiber Optics	5
EET	131	IT Essentials I - A+ Certification	5
EET	132	IT Essentials A+ Certification Advanced	5
Following can be substituted: EET 135 - Intro to Broadband (5)			
EET	137	Introduction to Robotics	5
EET	161	Principles of DC Electronics	5
EET	162	A.C. Principles of Electronics	5
EET	163	Solid State Electronics	5
EET	165	Analog Circuits and Devices	5
EET	170	Digital Electronics & Plcs I	5

**GENERAL EDUCATION COURSES**

EET	109	Mathematical Applications for Circuit Analysis	5
Following can be substituted: MATH 141 – Pre-Calculus I (5) or higher MATH course			
ENGL&	101	English Composition I	5
Following can be substituted: ENGL& 230 – Technical Writing (3) or ENGL& 235 – Technical Writing (5)			



**GENERAL EDUCATION COURSES –  
HUMAN RELATIONS ELECTIVES**

Choose from one of the following courses:

BUS	236	Interpersonal Communications for the Workplace .....	5
		BUS 236 – Interpersonal Communications is the preferred course	
HUM	105	Intercultural Communication .....	5
POLS	112	Contemporary World .....	5
SOC&	101	Introduction to Sociology .....	5
TOTAL PROGRAM CREDITS			65-68

**Fire Science Associate of Applied  
Science - Transfer Degree (AAS-T)**

**Workforce Instruction**

This two-year program of study prepares students for a career in the fire service as well as for career advancement for incumbent workers. The purpose of the degree is to prepare students for the pre-employment examination and screening processes they may undergo at local fire departments as a firefighter candidate, ready to engage in recruit training. It will also enable current firefighters to qualify for career advancement opportunities.

The curriculum is based on the National Fire Academy Fire and Emergency Services Higher Education (FESHE) model curriculum for fire science. Students will graduate with the academic credentials necessary to enter a two-year community college baccalaureate program, such as the online Homeland Security Emergency Management program or the new Fire Science Leadership Management program at Pierce College.

Instruction will include principles of emergency services and career exploration, building construction, fire behavior and combustion, fire prevention and fire protection systems, principles of fire service administration, legal aspects of emergency services, fire service community relations.

The AHE 190 (Emergency Medical Technician) class is an intensive quarter long class. Commitment to attend all of the sessions is critical for successful course completion. This course teaches students the roles and responsibilities of the Emergency Medical Technician (EMT) according to State and local standards and requirements. Students develop skills in patient evaluation and other emergency medical procedures. Graduates of this program are eligible to take the National Registry Examination (NREMT) to qualify for State certification after meeting the Washington State DOH requirement of employment. There is a rigorous application process for acceptance into the EMT course. An entrance examination must be completed with a passing score of at least 70%. American Heart Association BLS CPR (AHE 192) is a co-requisite and will be taken simultaneously with AHE 190. All required information must be submitted to the

office prior to enrollment for verification, to include proof of immunizations, High School (or equivalent) completion, and Washington State Patrol background investigation.

Note: Advanced placement testing, work experience, and transfer of credits may result in course waivers, credit transfer, and advanced placement.

**PREREQUISITES**

Instructor permission

ENGL	098	Integrated Reading and Writing II .....	10
MATH	098	Intermediate Algebra.....	5

**TECHNICAL SPECIALTY COURSES**

AHE	190	Emergency Medical Technician .....	12
		AHE 192 - BLS for HealthCare Prov is taken simultaneously with AHE 190.	
AHE	192	Basic Life Support for Healthcare Providers ....	1
		AHE 190 - Emergency Medical Technician is taken simultaneously with AHE 192.	
CWE	110	Internship.....	3
		This could include an internship, fire service experience, a project at an ambulance employer, military experience, etc.	
FIRE	101	Principles of Emergency Services .....	5
FIRE	102	Fire Behavior and Construction .....	5
FIRE	103	Building Construction for Fire Protection .....	5
FIRE	104	Principles of Fire and Emergency Services Safety .....	5
FIRE	105	Fire Prevention .....	5
FIRE	106	Legal Aspects of Emergency Services.....	5
FIRE	107	Fire Protection Systems.....	5
FIRE	108	Principles of Fire and Emergency Services Admin.....	5
FIRE	109	Occupational Safety and Health for Emergency Ser.....	5
FIRE	110	Strategy and Tactics .....	5

**RELATED INSTRUCTION**

BUS	236	Interpersonal Communications for the Workplace .....	5
		Following can be substituted: other approved Human Relations course	
ENGL&	101	English Composition I .....	5
		Following can be substituted: other approved Communications course	
HUM	105	Intercultural Communication .....	5
		Following can be substituted: US Cultures course (5) or Global Studies course (5)	
MATH&	146	Introduction to Statistics .....	5
		Following can be substituted: MATH& 107 - Math In Society (5) This meets Quantitative Reasoning requirement.	
Natural World, the		.....	5
		Biology ( BIOL ) or Chemistry Lab (CHEM) courses are recommended .	

TOTAL PROGRAM CREDITS			91
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## Healthcare Technology Management / BioMedical Equipment Technology Associate of Applied Science Degree (AAS)

### Business, Engineering & Information Technologies Division

This pathway meets AAS in Healthcare Technology Management/Biomedical Equipment Technology (HTM/BMET) degree requirements. The program emphasizes a practical, hands-on approach to the field of electronics and provides specialized training needed for jobs installing, calibrating, repairing and maintaining patient monitoring and diagnostic equipment. Coursework includes electronics technology, IT, chemistry, human anatomy and physiology, medical terminology, and project management as well as preparation specific to employment in hospitals, medical equipment manufacturing, and field service engineering. In order to gain work experience critical to job placement in the biomedical field, students in this program complete an externship in a hospital or medical facility, or with an equipment manufacturer or laboratory.

#### PREREQUISITES

For Placement testing, contact Testing Center (206) 527-3674

To begin program, students must test into the English and Math courses listed below:

ENGL	098	Integrated Reading and Writing II . . . . .	10
		Following can be substituted: higher ENGL course	
MATH	084	Algebra I . . . . .	5
		Following can be substituted: higher MATH course or have taken equivalent or higher MATH course	

#### TECHNICAL SPECIALTY COURSES

AMA	117	Terminology . . . . .	5
CHEM&	110	Chemical Concepts w/Lab . . . . .	5
		Following can be substituted: CHEM& 121 - Intro to Chemistry (5)	
EET	105	Introduction to Technology . . . . .	2
EET	106	Introduction to Soldering . . . . .	1
EET	112	Fundamentals of Fluid Power . . . . .	5
EET	114	Applied Physics . . . . .	5
EET	131	IT Essentials I - A+ Certification . . . . .	5
EET	132	IT Essentials A+ Certification Advanced . . . . .	5
EET	161	Principles of DC Electronics . . . . .	5
EET	162	A.C. Principles of Electronics . . . . .	5
EET	163	Solid State Electronics . . . . .	5
EET	165	Analog Circuits and Devices . . . . .	5
EET	170	Digital Electronics & Plcs I . . . . .	5
EET	286	Biomedical Equipment I . . . . .	5
EET	287	Biomedical Equipment II . . . . .	5
EET	297	Biomedical Technician Externship . . . . .	4

#### RELATED INSTRUCTION

BUS	112	Multi-Cultural Issues in the American Workplace . . . . .	5
		Following can be substituted: Global Studies designated course (5) or US Cultures designated course (5)	
BUS	118	Project Management Introduction and Overview . . . . .	5
EET	109	Mathematical Applications for Circuit Analysis . . . . .	5
		Following can be substituted: MATH& 141 - Pre-Calculus (5) or higher MATH course	
ENGL&	101	English Composition I . . . . .	5
Human Relations		course . . . . .	5
		Preferred class is: BUS 236 - Interpersonal Communication (5) or choose from one of the following courses (5): ISP 101 - the Global Society ISP 105 - Intercultural Communication POLS 112 - Contemporary World SOC& 101 - Intro to Sociology	
TOTAL PROGRAM CREDITS			97

## Industrial Automation and Electronic Controls Certificate

### Math / Science Division

This pathway meets requirements for the Certificate in Industrial Automation and Electronic Controls. The program emphasizes a practical, hands-on approach to the field of industrial automation and control as students prepare to work with companies or government organizations that manufacture, sell, service, design or support electrical and electronic systems that control machinery, automation, and/or processes.

Students in this pathway learn to analyze and troubleshoot direct current (DC) and alternating current (AC) circuits, programmable logic controllers (PLCs), industrial motor controls and drives, energy generation and conversion, fluid power systems, robotics, and information technology (IT).

This certificate is fully embedded in the Mechatronics AAS degree. Students interested in building on this certificate in order to meet requirements for the Mechatronics AAS degree complete an additional 38-44 credits; the majority of those credits must be completed at Shoreline Community College.

#### PREREQUISITES

Note: Advanced placement testing, work experience, and transfer of credits may result in course waivers, credit transfer, and advanced placement.

BUS	169	Using Computers in Business . . . . .	5
		Following can be substituted: equivalent computer experience	

ENGL 098 Integrated Reading and Writing II . . . . . 10  
Following can be substituted: higher ENGL course or successful completion of ABE 050

MATH 084 Algebra I . . . . . 5  
Following can be substituted:  
successful completion of ABE 031 or equivalent course

**TECHNICAL SPECIALTY COURSES**

EET 106 Introduction to Soldering . . . . . 1

EET 112 Fundamentals of Fluid Power . . . . . 5  
Following can be substituted: Shoreline Community College course: MFGT 247 - Motive Maintenance

EET 131 IT Essentials I - A+ Certification . . . . . 5

EET 137 Introduction to Robotics . . . . . 5

EET 138 Industrial Robotics . . . . . 5  
Following can be substituted: Shoreline Community College course: MFGT 280 - Robot Certification

EET 160 Introduction to Electricity and Electronics . . . . . 5

EET 161 Principles of DC Electronics . . . . . 5

EET 201 Energy Generation and Conversion . . . . . 5

EET 202 Industrial Motor Controls and Drives . . . . . 5

EET 203 Programmable Logic Controllers . . . . . 5

**RELATED INSTRUCTION**

BUS 236 Interpersonal Communications for the Workplace . . . . . 5

Following can be substituted: Shoreline Community College courses: BUS 104 - Human Relations in Business or BUS 105 - Essentials of Human Relations (2) or approved Human Relations elective (5)  
Total credits can be from 2 - 5 based on course option selected.

EET 109 Mathematical Applications for Circuit Analysis . . . . . 5

Following can be substituted: MATH& 141 - Pre-Calculus I (5) or higher level MATH course

ENGL& 101 English Composition I . . . . . 5  
Following can be substituted: ENGL& 235 - Technical Writing (5) or Shoreline Community College course: BTWERT 215 - Composition, Business Communications

TOTAL PROGRAM CREDITS 58-61

**Industrial Power and Control Associate of Applied Science Degree (A.A.S.)**

**Business, Engineering & Information Technologies Division**

This pathway meets AAS in Industrial Power & Control degree requirements. The program emphasizes a practical, hands-on approach to the field of industrial power and control and prepares students for a career as an electronics technician in this field. Completion of this degree opens doors to a variety of careers in specialties including aerospace, manufacturing, avionics, and industrial automation and robotics in the commercial and government sectors.

Students in this pathway learn to analyze and troubleshoot direct current (DC) and alternating current (AC) circuits, solid state and integrated circuit-based analog and digital electronics, programmable logic controllers (PLCs), industrial motor controls and drives, energy generation and conversion, fluid power systems, robotics, and information technology (IT).

Students have the opportunity to earn industry certifications in many subjects including A+, fiber optics, robotics, and others.

**PREREQUISITES**

For Placement testing, contact Testing Center (206) 527-3674  
To begin program, students must test into the English and Math courses listed below:

BUS 169 Using Computers in Business . . . . . 5  
Following can be substituted:  
equivalent computer experience

ENGL 097 English 097: Integrated Reading and Writing I . . . . . 10  
or ENGL 098 – College Prep Writing IV (5)  
or higher ENGL course

MATH 084 Algebra I . . . . . 5  
or higher MATH course  
or taken an equivalent or higher MATH course

**TECHNICAL SPECIALTY COURSES**

EEL 201 Energy Generation, Conversion and Sustainability 5

EEL 202 Industrial Motor Controls and Drives . . . . . 5

EEL 203 Programmable Logic Controllers . . . . . 5

EET 105 Introduction to Technology . . . . . 2

EET 106 Introduction to Soldering . . . . . 1

EET 108 Introduction to Fiber Optics . . . . . 5

EET 112 Fundamentals of Fluid Power . . . . . 5

EET 114 Applied Physics . . . . . 5

EET 131 IT Essentials I – A+ Certification . . . . . 5

EET 132 IT Essentials A+ Certification Advanced . . . . . 5

EET 137 Introduction to Robotics . . . . . 5

EET 138 Industrial Robotics . . . . . 5

EET 161 Principles of DC Electronics . . . . . 5

EET 162 A.C. Principles of Electronics . . . . . 5

EET 163 Solid State Electronics . . . . . 5

EET 165 Analog Circuits and Devices . . . . . 5

EET 170 Digital Electronics & Plcs I . . . . . 5

EET 219 Metrology and Measurement Science . . . . . 3

**RELATED INSTRUCTION**

BUS 112 Multi-Cultural Issues in the American Workplace . . . . . 5

Following can be substituted:  
Global Studies or US Cultures designated course (5) See Advising Center for approved list.

EET 109 Mathematical Applications for Circuit Analysis . . . . . 5  
Following can be substituted:  
MATH 141 – Pre-Calculus (5) or higher MATH course

ENGL& 101 English Composition I . . . . . 5  
While students must test into ENGL 097 to start the degree, they must complete ENGL& 101 to finish.

Human Relations course ..... 5  
 Following can be substituted:  
 Choose one of the following:  
 BUS 236 – Interpersonal Communications for the Workplace,  
 BUS 237 – Team Skills in the Workplace,  
 CMST 205 – Multicultural Communication,  
 CMST& 210 – Interpersonal Communication,  
 CMST& 230 – Small Group Communication,  
 HUM 105 – Intercultural Communication,  
 POLS 112 – Contemporary World,  
 PSYC 209 – Fundamentals of Psychological Research,  
 PSYC 245/SOC 245 – Social Psychology,  
 PSYC 257/WMN 257 – Psychology of Gender,  
 SOC& 101 – Introduction to Sociology

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TOTAL PROGRAM CREDITS 101

## IT-Controlled Electronic Systems Associate of Applied Science Degree (A.A.S.)

### Business, Engineering & Information Technologies Division

This program prepares student for employment as security systems technician/installers, fire alarm technicians, or electronics systems technicians. Learn to install, maintain, and monitor information technology systems and IT-controlled electronic systems such as security, entertainment, and HVAC systems. Students complete 90 credits, resulting in an IT Controlled Electronics AAS degree.

#### PREREQUISITES

Advanced placement testing, work experience, and transfer of credits may result in course waivers, credit transfer, and advanced placement.

For Placement Testing: contact Testing Center, (206) 527-3674.

To begin program, students must test into the English and Math courses listed below:

BUS	169	Using Computers in Business	5
ENGL&	101	English Composition I	5
IT	101	Software Applications	5
MATH	084	Algebra I	5
MATH	097	Elementary Algebra	5

#### TECHNICAL SPECIALTY COURSES

EET	108	Introduction to Fiber Optics	5
EET	131	IT Essentials I - A+ Certification	5
EET	132	IT Essentials A+ Certification Advanced	5
EET	137	Introduction to Robotics	5
EET	161	Principles of DC Electronics	5
EET	162	A.C. Principles of Electronics	5
EET	163	Solid State Electronics	5
EET	165	Analog Circuits and Devices	5
IT	111	Internet and Web Authoring Using XHTML	5
IT	120	Network Essentials - Comptia Network +	5

IT	122	Installing and Configuring Windows Server	5
IT	124	Network OS 2 - Windows Server	5
IT	135	Introduction to Linux	5
IT	138	Linux for Network Administration	5
IT	150	IT Systems Security +	5

#### RELATED INSTRUCTION – GENERAL EDUCATION

BUS	236	Interpersonal Communications for the Workplace	5
EET	109	Mathematical Applications for Circuit Analysis	5
ENGL&	101	English Composition I	5
U.S. Cultures			5

Following can be substituted: Global Studies

TOTAL PROGRAM CREDITS	90
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## IT-Controlled Electronic Systems Certificate

### Business, Engineering & Information Technologies Division

This certificate is intended for students who already have an associate or bachelor's degree or substantial professional experience in an information-technology-related field. Learn to install, maintain, and monitor information technology systems and IT-controlled electronic systems such as security, entertainment, and HVAC systems. Students complete 35 credits, resulting in an IT Controlled Electronics certificate.

#### PREREQUISITES

Note: Advanced placement testing, work experience, and transfer of credits may result in course waivers, credit transfer, and advanced placement.

BUS	169	Using Computers in Business	5
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Following can be substituted: Instructor permission

#### TECHNICAL SPECIALTY COURSES

Total Required Technical Specialty Course Credits: 30

EET	108	Introduction to Fiber Optics	5
EET	131	IT Essentials I - A+ Certification	5
EET	137	Introduction to Robotics	5
EET	161	Principles of DC Electronics	5
IT	120	Network Essentials - Comptia Network +	5
IT	124	Network OS 2 - Windows Server	5
IT	135	Introduction to Linux	5

#### RELATED INSTRUCTION

BUS	118	Project Management Introduction and Overview	5
BUS	236	Interpersonal Communications for the Workplace	5

TOTAL PROGRAM CREDITS	40
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## Mechatronics Associate of Applied Science Degree (A.A.S.)

### Math/Science Division

This pathway meets AAS in Mechatronics degree requirements. The Mechatronics degree is offered jointly by North Seattle College and Shoreline Community College. Students must complete courses at both campuses to obtain this degree. The program combines knowledge of mechanics, electronics, industrial automation and control systems, and robotics. Completion of this degree opens doors to a variety of careers in specialties including aerospace, manufacturing, industrial automation and control, robotics, and electromechanical systems in the commercial and government sectors.

Subjects emphasized include machining, preventive machine maintenance as applied to mechanical components and systems, analysis and troubleshooting of direct current (DC) and alternating current (AC) circuits, analog and digital electronics, programmable logic controllers (PLCs), information technology (IT), electric motor controls and drives, robotics, and fluid power systems including hydraulics and pneumatics.

The field experience (internship/externship) option is recommended for this degree. Students may substitute two courses from the approved list of options in place of field experience. Students have the opportunity to earn industry certifications in many subjects including A+, fiber optics, and robotics.

#### PREREQUISITES

Note: Advanced placement testing, work experience, and transfer of credits may result in course waivers, credit transfer, and advanced placement.

BUS	169	Using Computers in Business . . . . .	5
		Following can be substituted: equivalent computer experience	
ENGL	098	Integrated Reading and Writing II . . . . .	10
		Following can be substituted: higher level ENGL course or successful completion of ABE 050	
MATH	084	Algebra I . . . . .	5
		Following can be substituted: successful completion of ABE 031 or equivalent or higher level MATH class	

#### TECHNICAL SPECIALTY COURSES

EET	106	Introduction to Soldering . . . . .	1
EET	112	Fundamentals of Fluid Power . . . . .	5
		Following can be substituted: Shoreline Community College course MFGT 247 – Motive Maintenance (5)	
EET	131	IT Essentials I – A+ Certification . . . . .	5
EET	137	Introduction to Robotics . . . . .	5
EET	138	Industrial Robotics . . . . .	5
		Following can be substituted: Shoreline Community College course: MFGT 280 – Robot Certification (5)	

EET	160	Introduction to Electricity and Electronics . . . . .	5
EET	161	Principles of DC Electronics . . . . .	5
EET	201	Energy Generation and Conversion . . . . .	5
EET	202	Industrial Motor Controls and Drives . . . . .	5
EET	203	Programmable Logic Controllers . . . . .	5
EET	291	Electronics Internship . . . . .	6

Following can be substituted:

Shoreline Community College course: MFGT 196 – Advanced Manufacturing Internship or North Seattle College courses: choose two of the following courses:

- EET 108 – Intro to Fiber Optics (5)
- or EET 170 – Digital Electronics & PLCs I (5)
- or EET 162 – A.C. Principals of Electronics (5)
- or EET 114 – Applied Physics (5)

The internship/externship requirement (EET 291 or MFGT 196) is the preferred selection for this degree.

Total credits can be from 4-10 based on course option selected.

MFGT	105	Basic Manufacturing . . . . .	20
		This course can also be taken at Shoreline Community College.	
MFGT	244	Preventative Maintenance . . . . .	3
		This course can also be taken at Shoreline Community College.	
MFGT	245	10 Hour OSHA . . . . .	1
		This course can also be taken at Shoreline Community College.	
MFGT	246	Mechanical Maintenance . . . . .	5
		This course can also be taken at Shoreline Community College.	

#### RELATED INSTRUCTION

BUS	112	Multi-Cultural Issues in the American Workplace . . . . .	5
		Following can be substituted: Shoreline Community College course MCS 105 – Intro to Multiculturalism Studies or approved US Cultures/Global Studies Elective	
BUS	236	Interpersonal Communications for the Workplace . . . . .	5

Following can be substituted:

Shoreline Community College course  
BUS 104 – Human Relations in Business  
or BUS 105 – Essentials of Human Relations  
or approved Human Relations Elective  
Total credits can be from 2-5 based on  
course option selected.

EET	109	Mathematical Applications for Circuit Analysis . . . . .	5
		Following can be substituted: higher level MATH class or MATH& 141 – Pre-Calculus (5)	
ENGL&	101	English Composition I . . . . .	5
		Following can be substituted: ENGL& 235 – Technical Writing (5) or Shoreline Community College course BTWERT 215 – Composition, Business Communications (5)	

TOTAL PROGRAM CREDITS			96-105
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## Sustainable and Conventional Energy & Control Technology Certificate

### Business, Engineering & Information Technologies Division

This pathway meets requirements for the Certificate in Sustainable and Conventional Energy and Control Technology\*. The program emphasizes a practical, hands-on approach to the field of industrial power and control, preparing students for a career as an electronics technician in this field.

Students in this pathway learn to analyze and troubleshoot direct current (DC) and alternating current (AC) circuits, solid state and integrated circuit-based analog and digital electronics, programmable logic controllers (PLCs), industrial motor controls and drives, energy generation and conversion, fluid power systems, robotics, and information technology (IT).

Students interested in building on this certificate in order to meet requirements for the Industrial Power and Control AAS degree complete an additional 28 approved credits.

\*This certificate has a name change pending. The new certificate name will be "Industrial Power & Control" to align with the associated degree and reflect program changes.

#### PREREQUISITES

For Placement Testing: contact Testing Center, (206) 527-3674

A minimum of 15 credits of this certificate must be taken in residence at North Seattle College.

To begin program, students must test into the English and Math courses listed below:

BUS	169	Using Computers in Business	5
		Following can be substituted:	
		IT 101 – Software Applications (5)	
		or equivalent computer experience	
ENGL	097	English 097 – Integrated Reading and Writing I	10
		Following can be substituted: higher ENGL course or ENGL 098 – College Prep Writing IV (5)	
MATH	084	Algebra I	5
		Following can be substituted: higher MATH course or have taken an equivalent or higher MATH course	

#### TECHNICAL SPECIALTY COURSES

EEL	201	Energy Generation, Conversion and Sustainability	5
EEL	202	Industrial Motor Controls and Drives	5
EEL	203	Programmable Logic Controllers	5
EET	105	Introduction to Technology	2
EET	112	Fundamentals of Fluid Power	5
EET	114	Applied Physics	5
EET	137	Introduction to Robotics	5
EET	161	Principles of DC Electronics	5
EET	162	A.C. Principles of Electronics	5
EET	163	Solid State Electronics	5
EET	165	Analog Circuits and Devices	5
EET	170	Digital Electronics & Plcs I	5

#### RELATED INSTRUCTION

BUS	236	Interpersonal Communications for the Workplace	5
		Following can be substituted:	
		HUM 105 – Intercultural Communication (5)	
		or ISP 101 – The Global Society (5)	
		or ISP 110 – Introduction to Global Studies (5)	
		or POLS 112 – Contemporary World (5)	
		or SOC& 101 – Introduction to Sociology (5)	
EET	109	Mathematical Applications for Circuit Analysis	5
		Following can be substituted: higher MATH course or MATH& 141 – Precalculus (5)	
ENGL&	101	English Composition I	5
TOTAL PROGRAM CREDITS			71-73

## Watch Technology Institute Associate of Applied Science Degree (A.A.S.)

### Business, Engineering & Information Technologies Division

The Watch Technology AAS is a full-time, 184-credit program preparing students for careers as Watchmakers and Watch Repairers. Students learn practical and theoretical watchmaking; the watches covered include basic manual-wind, automatic, chronograph, and quartz movements. Students will also learn the basics of micromechanics, manufacturing, casing/assembly, quality control, customer service, and refinishing.

To meet the AAS requirements, students must complete 164 Watch Technology credits plus 20 general education credits (184 credits total). The general education courses cover Business Communications, English Composition, Math, and US/Global Studies. Students can take these general education courses before, after, or during their enrollment in the Watch Technology program. Students with credits from other educational institutions may also submit their transcripts to North Seattle College to determine if the credits will transfer.

In addition to the Watch Technology AAS through North Seattle College, students are eligible to sit for certification testing through the Swiss-American Watchmakers Training Alliance (SAWTA). SAWTA was established by Rolex Watch USA, Inc. to encourage the training of watchmakers in the United States. To receive the SAWTA certificate, students must pass several rounds of intermediate exams and a final exam.

Entrance into the Watch Technology program is competitive; typically more applications are received than classroom spots are available. Applicants are encouraged to apply early by downloading the application form here and starting the process. Students may contact the WTI office for more information.

For students interested in a non-degree option, WTI offers a 164-credit Watch Technology certificate.

**TECHNICAL SPECIALTY COURSES**

HIN	111	Introduction to Watch Technology . . . . .	6
HIN	112	Watch Technology I: Tools, Equipment & Measurement . . . . .	6
HIN	113	Watch Technology I: Practicum . . . . .	10
HIN	121	Watch Technology II: Professional Knowledge . . . . .	6
HIN	122	Watch Technology II: The Watchmakers Lathe . . . . .	6
HIN	123	Watch Technology II: Practicum . . . . .	10
HIN	131	Watch Technology III: Winding and Setting Mechan . . . . .	6
HIN	132	Watch Technology III: Watch Gear Trains . . . . .	6
HIN	133	Watch Technology III: Practicum . . . . .	10
HIN	141	Watch Technology IV: Escapements . . . . .	4
HIN	142	Watch Technology IV: External Parts . . . . .	4
HIN	143	Watch Technology IV: Practicum . . . . .	8
HIN	211	Watch Tech V: Introduction to Precision Timing . . . . .	6
HIN	212	Watch Tech V: Introduction to Electronic Watches . . . . .	6
HIN	213	Watch Tech V: Practicum . . . . .	10
HIN	221	Watch Technology VI: Precision Timing 2 . . . . .	6
HIN	222	Watch Technology VI: Automatic Watches . . . . .	6
HIN	223	Watch Technology VI: Practicum . . . . .	10
HIN	231	Watch Technology VII: Advanced Precision Timing . . . . .	6
HIN	232	Watch Technology VII: Chronographs . . . . .	6
HIN	233	Watch Technology VII: Practicum . . . . .	10
HIN	241	Watch Technology VIII: After-Sales Service . . . . .	4
HIN	242	Watch Technology VIII: Review of Courses . . . . .	4
HIN	243	Watch Technology VIII: Practicum . . . . .	8

**GENERAL EDUCATION COURSES**

Total required General Education credits: 20

BUS	236	Interpersonal Communications for the Workplace . . . . .	5
Following can be substituted: other approved Human Relations Course			
ENGL&	101	English Composition I . . . . .	5
MATH&	107	Math in Society . . . . .	5
U.S. Cultures		. . . . .	5
Following can be substituted: Global Studies courses Select from approved list. See Advising Center.			
<b>TOTAL PROGRAM CREDITS</b>			<b>184</b>

**Watch Technology Institute Certificate**

**Business, Engineering & Information Technologies Division**

The Watch Technology Certificate is a full-time, 164-credit program preparing students for careers as Watchmakers and Watch Repairers. Students learn practical and theoretical watchmaking; the watches covered include basic manual-wind, automatic, chronograph, and quartz movements. Students will also learn the basics of micromechanics, manufacturing, casing/assembly, quality control, customer service, and refinishing.

In addition to the Watch Technology Certificate through North Seattle College, students are eligible to sit for certification testing through the Swiss-American Watchmakers Training Alliance (SAWTA). SAWTA was established by Rolex Watch USA, Inc. to encourage the training of watchmakers in the United States. To receive the SAWTA certificate, students must pass several rounds of intermediate exams and a final exam.

Entrance into the Watch Technology program is competitive; typically more applications are received than classroom spots are available. Applicants are encouraged to apply early by downloading the application form here and starting the process. Students may contact the WTI office for more information.

Students looking to earn an Associate of Applied Science degree (AAS), may opt for the Watch Technology AAS program. The AAS requires the completion of 20 additional general education credits on top of the 164 Watch Technology credits (184 total credits).

**TECHNICAL SPECIALTY COURSES**

HIN	111	Introduction to Watch Technology . . . . .	6
HIN	112	Watch Technology I: Tools, Equipment & Measurement . . . . .	6
HIN	113	Watch Technology I: Practicum . . . . .	10
HIN	121	Watch Technology II: Professional Knowledge . . . . .	6
HIN	122	Watch Technology II: The Watchmakers Lathe . . . . .	6
HIN	123	Watch Technology II: Practicum . . . . .	10
HIN	131	Watch Technology III: Winding and Setting Mechan . . . . .	6
HIN	132	Watch Technology III: Watch Gear Trains . . . . .	6
HIN	133	Watch Technology III: Practicum . . . . .	10
HIN	141	Watch Technology IV: Escapements . . . . .	4
HIN	142	Watch Technology IV: External Parts . . . . .	4
HIN	143	Watch Technology IV: Practicum . . . . .	8
HIN	211	Watch Tech V: Introduction to Precision Timing . . . . .	6
HIN	212	Watch Tech V: Introduction to Electronic Watches . . . . .	6
HIN	213	Watch Tech V: Practicum . . . . .	10
HIN	221	Watch Technology VI: Precision Timing 2 . . . . .	6
HIN	222	Watch Technology VI: Automatic Watches . . . . .	6
HIN	223	Watch Technology VI: Practicum . . . . .	10
HIN	231	Watch Technology VII: Advanced Precision Timing . . . . .	6
HIN	232	Watch Technology VII: Chronographs . . . . .	6
HIN	233	Watch Technology VII: Practicum . . . . .	10
HIN	241	Watch Technology VIII: After-Sales Service . . . . .	4
HIN	242	Watch Technology VIII: Review of Courses . . . . .	4
HIN	243	Watch Technology VIII: Practicum . . . . .	8

<b>TOTAL PROGRAM CREDITS</b>			<b>164</b>
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## SOCIAL SCIENCES, HUMANITIES, AND LANGUAGE

### Anthropology (A.A.)

This two-year program is designed for students who wish to complete an Associate of Arts degree with an emphasis on Anthropology. Students in this program develop skills in data analysis, research design, oral and written communication, group communication and collaboration, and become adept in diversity, equity, and inclusion.

Completion of this program opens doors to a variety of careers in sectors including international relations/law, non-profits, museums/zoos, education, government, health care, tourism, and business. It also allows you to transfer at the junior level into an Anthropology program at a four-year college or university.

### Civic Engagement

This pathway meets requirements for the Associate of Arts-Direct Transfer Agreement (AA-DTA) degree with a concentration in Civic Engagement. The Civic Engagement pathway is designed to help students interested in “working to make a difference in the civic life of our communities and developing the combination of knowledge, skills, values and motivation to make that difference. It means promoting the quality of life in a community, through both political and non-political processes.” (Excerpted from Civic Responsibility and Higher Education, edited by Thomas Ehrlich, published by Oryx Press, 2000, Preface, page vi.) In addition, civic engagement encompasses actions wherein individuals participate in activities of personal and public concern that are both individually life enriching and socially beneficial to the community.

The Civic Engagement pathway helps students broaden their education with a focus on how to connect with communities around social, political, and cultural issues while pursuing a wide variety of degrees. It is particularly well suited for careers in sectors including community-based organization, social services, government, government affairs office, public affairs, non-profit, advocacy organization, public humanities and civic engagement, lobbying, education, media, law, and business. Students in this pathway learn to navigate organizations and systemic structures while developing skills in oral and written communication, critical thinking and problem solving, research design and planning, digital technology, collaboration, leadership, and intercultural fluency.

### Communication Studies (A.A.–DTA)

This two-year program is designed for students who wish to complete an Associate of Arts – Direct Transfer Agreement degree with an emphasis in Communication Studies. Students in this program develop skills in verbal communication, analysis and research, multicultural awareness, computer and technical literacy, audience analysis, group communication and collaboration, interpersonal communication, leadership and facilitation.

Completion of this program allows students to transfer at the junior level into a Communication Studies, Media & Communications, Journalism, or a related program at a four-year college or university. It also opens doors to a variety of careers in sectors including non-profit, business, government, entertainment, and education.

### English, Literature, and Writing Studies (A.A.)

This two-year program is designed for students who wish to complete an Associate of Arts – Direct Transfer Agreement degree with an emphasis in English. Students in this program will develop skills in written communication, information literacy, analysis and research, multicultural awareness, metacognition/critical self-reflection, problem-solving, audience awareness, group communication and collaboration, and interpersonal communication.

Completion of this program allows students to transfer at the junior level into an English, Media & Communications, Journalism or a related field at a four-year college or university. It also opens doors to a variety of careers in sectors including education, media/entertainment, publishing, law, government, non-profit, and business.

### Equity and Social Justice (A.A.)

This two-year program is designed for students who wish to complete an Associate of Arts (AA) degree with an emphasis in Equity and Social Justice. Students in this program engage in an interdisciplinary examination of various dimensions of human diversity – including race, class, gender, sexuality, ability, religion, and more – with a focus on social justice and change. Students will develop skills in oral and written communication, critical thinking and problem solving, systems analysis, research design and planning, digital technology, collaboration, leadership, and intercultural fluency.

Completion of this program allows students to transfer into a social sciences or humanities major at a four-year college or university. Completion of this degree also opens doors to a variety of careers in sectors including social services, government, non-profit, education, media, law, and business.



## Ethnic Studies

Students may create their own Associate in Arts pathway with an emphasis in ethnic studies by choosing from a list of VLPA and ICS courses for electives and for the degree distribution areas. (Students may also want to see the Equity and Social Justice pathway.) American Ethnic Studies at NSC is interdisciplinary and is explored through published research on race and identity from the social sciences (psychology, anthropology, sociology) along with materials from the humanities (art, poetry, literature, film, and music). Completion of this degree opens doors to a variety of careers in sectors including social services, government, non-profit, education, media, law, and business. It also provides a foundation for transfer into a social sciences or humanities discipline. Speak with an advisor if you'd like to develop an ethnic studies-oriented degree program, or see our pathway in Social Justice and Intersectional Studies.

## Gender, Women, and Sexuality Studies (A.A.)

This two-year program is designed for students who wish to complete an Associate of Arts (AA) degree with an emphasis in Gender, Women and Sexuality Studies. Students in this pathway develop skills in critical thinking, writing and verbal communication, analysis and research, cultural competency and muticultural awareness, as well as collaboration, interpersonal communication, and leadership.

Completion of this degree allows students to transfer at the junior level into a Gender and Women Studies or related program at a four-year college or university, as well as opening doors to a variety of careers in sectors including non-profit, business, government, entertainment, and education.

## History (A.A.–DTA)

This two-year program is designed for students who wish to complete an Associate of Arts (AA) degree with an emphasis in History. Students in the program learn how to think historically, hone their written and verbal communication skills, acquire research methods and analytical tools, develop information literacy, and better comprehend how events in the past influence our present.

Completion of this degree allows students to transfer at the junior level into several fields of study at a four-year college or university, including History, American Ethnic Studies, Queer Studies, Archeology, Anthropology and more. Completion of this program also opens doors to a variety of careers in museums, government, research, park service, political activism, nonprofits, policy, and education.

## Humanities and Cultural Studies

Students may create their own Associate in Arts pathway with an emphasis in the humanities and culture by choosing from a list of VLPA and ICS courses for electives and for the degree distribution areas. With your advisor, create a combination of courses that looks at culture through the lens of literature, film, anthropology, political science, ethnic studies, gender studies, philosophy, sociology, history, music, and art.

This introduction to the humanities examines the common issues, ideas, and themes throughout cultures and human history. Students examine issues such as race, gender, and class as they relate to current culture, global movements, and social justice. You'll learn to reason critically, research and communicate effectively, and make search for knowledge through an interdisciplinary lens. Speak with an advisor if you'd like to develop a humanities-oriented degree program, or see our pathway in Social Justice and Intersectional Studies.

## Philosophy (A.A.)

This two-year program is designed for students who wish to complete an Associate of Arts (AA) degree with an emphasis in Philosophy. Students in this program develop skills in problem solving, analytical thinking, communication, information management, writing, reading and interpretation of text.

Completion of this degree allows students to transfer at the junior level into a Philosophy program at a four-year college or university, as well as opening doors to a variety of careers in sectors including non-profit, business, government, entertainment, and education.

## Political Science (A.A.)

This two-year program is designed for students who wish to complete an Associate of Arts (AA) degree with an emphasis in Political Science. Students in this pathway develop skills in critical analysis, research, multicultural awareness, communication, information literacy, audience analysis, networking, and leadership. Students will build foundational knowledge of political institutions, policy, American systems, globalization, and political theory.

Completion of this degree allows students to transfer at the junior level to a Political Science, Economics, Media & Communications, or a related program at a four-year college or university with core Political Science classes completed. Completion of this degree also opens doors to a variety of careers in fields including public service, government, interest groups, sustainability, businesses, social media, and education.

## Psychology (A.A.–DTA)

This two-year program is designed for students who wish to complete an Associate of Arts–Direct Transfer Agreement (AA–DTA) degree with an emphasis in Psychology. Students in this program develop an awareness of human behavior and thinking that will serve them in both personal and professional capacities. Students will also develop skill in critical thinking, research, interpersonal awareness, group communication and collaboration, problem solving, information-finding, and time management.

Completion of this degree allows students to transfer at the junior level to a Psychology program at a four-year college or university, as well as opening doors to entry level employment in many sectors including non-profit, social work, healthcare, education, business, and government.

## Sociology (A.A.)

This two-year program is designed for students who wish to complete an Associate of Arts (AA) degree with an emphasis in Sociology. Students in this program think from a systems perspective, broaden their worldview, and become thoughtful citizens of the world. Students develop skills in analysis and research, multicultural awareness, computer and technical literacy, group communication and collaboration, interpersonal communication, institutional analysis, critical thinking, reading and writing.

Completion of this degree prepares students with foundational courses to transfer to a four-year college to earn a bachelor's degree in sociology or a related field, as well as opening doors to a variety of careers in sectors including non-profit, business, government, marketing, advertising, social justice, and education.

## World Languages (A.A.)

This two-year program is designed for students who wish to complete an Associate of Arts–Direct Transfer Agreement (AA–DTA) degree with an emphasis in World Languages/Linguistics. Students in this program develop skills in verbal communication, analysis and research, multicultural awareness, group communication and collaboration, interpersonal communication and language acquisition. Students will also develop basic computer skills such as typing and using a computer in different languages, Excel, Word, and PowerPoint.

Completion of this degree allows students to transfer at the junior level to a Linguistics or specific World Languages program at a four-year college or university. Completion of this degree also opens doors to a variety of careers in sectors including non-profit, healthcare, international business, government, entertainment, legal and education.

“The Peer Mentor Program, which seeks to connect students to campus resources while simultaneously allowing mentors to connect to the campus, is something I will always remember. The relationships and memories I formed with all of the staff and departments (Advising, Library, Student Life, etc.) will stay with me as I continue on to higher education.”

– Semayat Y.

# Seattle Central College

## Welcome

What's the Seattle Central experience like? It's small classes, engaging instructors, challenging programs, and a diverse student body set in a vibrant urban neighborhood in the heart of Seattle. It's about starting your four-year degree, learning marketable skills, and making connections. Most of all, it's about becoming a better, more capable you.

Each year, more than 15,500 students choose Seattle Central College to help them meet their educational goals. Seattle Central is proud to be one of the most diverse educational institutions in Washington state. We attract people from all walks of life who seek education to better their lives, representing a multitude of ages, races, nationalities, ethnicities, and backgrounds, which creates a rich learning environment.

Seattle Central's main campus on Capitol Hill is easily reached by public transportation, with light rail connecting the campus to other parts of the city, including the University of Washington. Our urban location offers countless choices for shopping, dining, and entertainment. The college offers a range of programs, certificates, and degrees—including selected bachelor's degrees—serving the career goals of students and the needs of employers in culinary arts, apparel design, visual arts, information technology, maritime, health care, and social and human services. All programs provide real-world, hands-on training from instructors who stay current with industry trends.

Seattle Central also offers classes at three nearby specialized training centers. The Health Education Center at Pacific Tower on Beacon Hill features the latest in medical technology to prepare students to work in the health care industry. Seattle Maritime Academy trains students to work in the maritime industry at an impressive facility on the working waterfront in Ballard. The Wood Technology Center, in the Central District, provides high quality technical instruction in woodworking and the building trades.

Whatever your educational goals, Seattle Central can help. Unlike many colleges, we have an open admissions policy. If you want to succeed in college, we have a place for you. Visit [seattlecentral.edu/future](http://seattlecentral.edu/future) or call (206) 934-3898.



## Getting Started at Central

<b>Admissions</b>	<b>(206) 934-5450</b>
<b>International Students</b>	<b>(206) 934-3893</b>
<b>Financial Aid</b>	<b>(206) 934-3844</b>
<b>Information Center</b>	<b>(206) 934-3800</b>
<b>Registration</b>	<b>(206) 934-6918</b>

## Mission

As an open-access learning institution, Seattle Colleges prepares each student for success in life and work, fostering a diverse, engaged, and dynamic community.

## Vision

Seattle Colleges is recognized as an exemplary learning institution that transforms lives, promotes equity, and enriches the community.

## Core Themes

- Responsive Teaching and Learning
- Catalyst for Opportunities and Success
- Diversity in Action
- Communities Engagement

“ Seattle Central College was my home away from home! The professors were kind and always made me feel included. ”

– Balsem J.

## Specialized Training Centers

### Health Education Center

1200 12th Ave S, HEC 202 Seattle, WA 98144  
(206) 934-4347

[healthcare.seattlecentral.edu/health-education-center](https://healthcare.seattlecentral.edu/health-education-center)

Seattle Central's Health Education Center offers a variety of intensive, hands-on training programs that prepare students for successful health care careers. Occupying five floors of the historic Pacific Tower on Beacon Hill, the center contains facilities that include modern labs equipped with the latest health care technology, providing a real-world training environment. With day, evening, and hybrid classes, students have the flexibility to enroll in certificate, associate degree, and bachelor's degree programs in Dental Hygiene, Respiratory Care, Nursing, Surgical Technology, Health Care Services Management, and more.

### Facts at a Glance\*

#### 2021–2022 ANNUAL PROFILES

Annual Attendance	10,178
<b>Special Enrollments</b>	
Distance Education	9,474
Running Start	644
International Students	677
Worker Retraining	280
<b>Students</b>	
Average Age	28
Ethnic Diversity	57%
Male/Female	35%/52%
With Bachelor or Higher Degrees	6%
Full-time/Part-time Attendance	42%/58%
<b>Programs</b>	
College Transfer	47%
Career and Technical	26%
Basic Education	11%
Other	16%
<b>Course Funding Sources</b>	
State-funded	70%
Contract-supported	19%
Student-supported	15%

\* Source: Seattle College District Database

### Seattle Maritime Academy

4455 Shilshole Ave NW, Seattle, WA 98107  
(206) 934-2647  
[maritime.seattlecentral.edu](https://maritime.seattlecentral.edu)

Seattle Maritime Academy's focus is as a Professional Technical school helping supply the industry with confident and competent middle-rate mariners to fill vital roles across all sectors of the maritime industry, from ferries to fishing vessels, tugboats to tankers. The academy supports the Pacific Northwest in preparing students for in-demand, living-wage jobs. Its leading-edge facility—featuring simulator labs, technical classrooms, a computer lab, and collaborative workspace—is located on the working waterfront of the Lake Washington Ship Canal in Seattle's Ballard neighborhood. There, the academy offers certificate programs in Marine Deck Technology and Marine Engineering Technology as well as community education training in a variety of marine-related subjects. Seattle Maritime Academy is a U.S. Coast Guard-approved training program that satisfies federal maritime requirements. It also provides professional development, customized training, and skill-building classes to private-sector companies, government agencies, military units, and unions.

### Wood Technology Center

2310 South Lane, Seattle, WA 98144  
(206) 934-5460  
[woodtech.seattlecentral.edu](https://woodtech.seattlecentral.edu)

Seattle Central has a long history of providing high quality technical instruction in woodworking and the building trades. In 2012, the Wood Technology Center opened its new campus in the heart of Seattle's Central District. This state-of-the-art training facility is the largest of its kind in the Pacific Northwest. Programs include carpentry, boatbuilding and repair, residential construction, and pre-apprenticeship construction training—all with core training in safety, skills, tools, and materials. Students can earn associate degrees or a series of skill-specific certificates.



# Student Services

## Advising Center

(206) 934-4068

[seattlecentral.edu/advising](http://seattlecentral.edu/advising)

### The Advising and Career Services

Our programs assist students with planning their academic interests and career goals.

### Our Mission Statement

Seattle Central Advising and Career Services support students as they navigate their college experience. We focus on our students' holistic development through an ongoing and intentional educational partnership that fosters pathways that help them become equity-minded citizens.

Additionally, we facilitate the development of academic, professional, and social skills necessary for students to empower themselves and their community.

### Our Vision

Our goal is to serve as agents of support, to guide and connect students with campus and community resources that help them achieve their academic, personal, and professional pursuits.

### Our Programs

- **The Academic Advising Center** - Assists students with pre-program advisement, choosing classes, creating education plans, navigating college resources, and preparing for graduation.
- **College Transfer and Study Abroad Center** - Assists students in making the transition from Seattle Central to four-year universities. This includes school and major of study research, application information and deadlines, and general guidance on the transfer process.
- **Career Exploration Center** - Helps students identify and choose an area of study through class planning, career assessments, and academic resources. Our team also provides career advising, empowering students by building effective job readiness skills.
- **Service-learning** - An opportunity for students to earn credits by combining community involvement with academic instruction. Student Learning is linked to specific classes as either a requirement or an option.
- **Cooperative Education (Co-op)** - Students may earn class credit for their jobs or paid/unpaid internships. This service is offered to students enrolled in college transfer or workforce education programs.
- **Seattle Promise** - Provides the first two years (or up to 90 credits) of tuition, additional financial support for books, transportation, housing, etc. to those in financial need, and personal guidance to succeed in college. All Seattle Public High Schools graduates are eligible regardless of grade point average (GPA), income, ability, or country of birth.

## Class Schedule Quarterly

(206) 934-3800

[mycentral.seattlecolleges.edu](http://mycentral.seattlecolleges.edu)

Seattle Central produces a quarterly class schedule that lists specific courses offered that quarter. It is available online approximately six weeks before the start of each quarter. To view the online class schedule, visit Seattle Central's home page and click on "class schedule."

## Computer Center

(206) 934-4194

[seattlecentral.edu/it-services/computerlabs](http://seattlecentral.edu/it-services/computerlabs)

The Computer Center is open to all Seattle Central students and has PC and Apple computers with student network software and internet connectivity. Printing is available at minimal cost. Current Seattle Central enrollment is required. A student ID number is required for access, and a student ID card is needed for equipment checkout. Visit the Computer Center in Room BE3148 for more information.

## Counseling Services

(206) 934-5407

[seattlecentral.edu/campus-life/student-support-and-services/counseling](http://seattlecentral.edu/campus-life/student-support-and-services/counseling)

Seattle Central's Counselors work with students enrolled at Seattle Central College to explore and pursue their educational and career goals, as well as achieve personal growth. As faculty professionals with clinical experience and advanced degrees in counseling/guidance, education, psychology, and social work we recognize that pursuing education presents opportunities as well as challenges. Seattle Central Counselors are committed to supporting students to access opportunities, meet challenges, and take best advantage of their personal educational experience.

### Mission

Our mission is to promote a holistic approach to the intellectual and social-emotional development of students towards equity, diversity, and inclusion through counseling and teaching.

### Vision

The Counseling Center emphasizes:

1. Commitment to student success
2. Student resiliency, growth, and healing
3. Cultivating partnerships with the campus community through outreach and consultation services
4. Building a sense of community through culturally responsive counseling

## Values

In support of Seattle Central College's values of equity, diversity, and inclusion, we at the Counseling Center honor the intersecting identities and characteristics that make us unique individuals. We recognize and acknowledge the impact of oppression, power, and privilege on students' social-emotional development. We strive to create a trusting environment and a space where people feel safe. Our commitment to our campus community is to embrace and celebrate diversity in all its richness. We offer the following services to all currently enrolled students:

### Personal Counseling

Personal counseling helps address issues that can make it difficult for students to succeed in college. These may include stress, grief, anxiety, depression, problems with self-esteem or relationships, culture shock, and other life concerns. Referrals may be made for long-term counseling or therapy.

### Career Counseling

Career counseling helps students explore career paths that best fit their skills, needs, personality, and interests. Counselors use career assessment tools to help students gain a better understanding of their strengths and interests.

### Academic Counseling

Academic counseling helps students cope with issues related to classes, adjusting to college culture, understanding college processes and other issues. Referrals may be made to campus support services such as tutoring.

### Crisis Intervention

While at school, students may occasionally encounter extremely challenging situations in their personal lives. Counseling staff are available to address these immediate problems and, if necessary, refer them to additional support services.

## Disability Services

### Accessibility Resource Center, BE1103

(206) 934-4183

ARC.Central@seattlecolleges.edu

#### Services Offered

Testing accommodations, assistive technology, sign language interpreting, alternate format, and other services as appropriate. During remote operations the ARC office will continue to process intakes for services, arrange testing accommodations, and any other services needed based on request.

*See page 62 for specific details and additional information.*

## Current ARC Students

Renewing letters of accommodation for spring: complete the Letter of Accommodation request form on the ARC website.

Requesting interpreters for spring: email SignLangReq.Central@seattlecolleges.edu (Include your class schedule). Appointments can be made by contacting the office at ARC.Central@seattlecolleges.edu.

## New or Prospective Students

For any questions: please contact the ARC office via email at ARC.Central@seattlecolleges.edu or voicemail at (206) 934-4183.

Requesting accommodations: please email ARC.Central@seattlecolleges.edu to request an intake appointment

Accessibility Resource Center (ARC) provides equal access to students with documented disabilities and acts in compliance with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act.

*See page 62 for specific details and additional information on eligibility and policies.*

## International Programs, BE1113

(206) 934-3893

Email: IntlCentral@seattlecolleges.edu  
intl.seattlecolleges.edu

This office provides comprehensive support for students on non-resident visas studying at Central. Key functions of the office include advising on immigration and instructional programs, housing, medical insurance, or personal concerns that may be impacting student success. Field trips and other student activities that help students adjust to life in Seattle and promote intercultural communication and an enhanced experience of American culture are also provided.

*See page 8 for additional International Programs and Services, including international student admissions. Study Abroad opportunities are outlined at intl.seattlecolleges.edu/go-abroad.*

## Library, BE2101

Main: (206) 934-4050

Seattlecentral.edu/library

library.central@seattlecolleges.edu

Health Education Center Library (206) 934-4041

Wood Technology Center Library (206) 934-2972

## Mission

The Library provides services and information that students need to flourish academically, personally, and in community. We welcome diverse voices, approaches, and perspectives to build the knowledge that will make our communities stronger and wiser.

## Resources

Library and information resources to support students in all areas of study. Collections include print and online books and periodicals, online research databases, reserve textbooks, and streaming video and music. Students can also access individual and group study space, network computers, printers, photocopiers, scanners, and media equipment.

## Services

Research help, online tutorials, and research classes, provided in-person, and via email, phone, 24/7 chat, and video meeting.

## Multicultural Services

(206) 934-4085

Multicultural Services is committed to creating an institutional climate and practice that supports Seattle Central's diverse student populations in achieving their academic goals. The office, located in BE 1103, develops innovative services, collaborates with other college departments and divisions on campuswide initiatives, presents professional development activities on multiculturalism and diversity, and disseminates information on diversity resources for students, faculty, and staff. Multicultural Services advances institutional responsiveness to the needs of students of diverse cultural backgrounds through such efforts as the Annual Students of Color Conference, which supports critical thinking, leadership skills, and social justice activism.

## Running Start

(206)934-3820

[runningstart.central@seattlecolleges.edu](mailto:runningstart.central@seattlecolleges.edu)

Running Start is a program that allows 11th and 12th grade students to take college courses at Washington's 34 community and technical colleges. Students earn both high school and college credits for these courses.

Running Start students and their families do not pay tuition. They are responsible for mandatory fees, books, and transportation. Students receive both high school and college credit for these classes, which accelerates their progress through the education system.

## Mission Statement

The mission of Running Start is to provide student services support to qualified high school students who are registered in college courses at Seattle Central while following all Washington State Running Start laws and college policies and guidelines. We are able to serve our students and the college through:

- Promoting academic success through advising and counseling sessions.

- Promoting a successful transition from high school to college.
- Offering college transfer and career advising and counseling.
- Promoting Running Start through outreach to area high schools.
- Supporting accessibility and equity of the Running Start Program for eligible students.

## Senior Adult Education

Washington state residents 60 years or older may register for up to two courses for audit or credit for a fee of \$5 per class. Seniors register on a space-available basis beginning the second week of the quarter but prior to the 10th day of the quarter. Students should attend class the first week of the quarter with instructor permission while waiting to find out if space is available. If the instructor allows the student to attend, the student should pick up an enrollment form from the registration or information center to obtain instructor's signature to enroll. Students are responsible for any additional charges, such as ID card, lab fees, activity fee, transportation fee, books, or supplies. When seniors enroll for more than two courses, they pay for the additional credits at regular tuition rates. Credits taken using the senior citizen waiver cannot be used toward degree completion.

## Student Academic Services/Tutoring

### Learning Support Network - Tutoring Services

[seattlecentral.edu/campus-life/student-support-and-services/learning-support-and-tutoring](http://seattlecentral.edu/campus-life/student-support-and-services/learning-support-and-tutoring)

[LSNTutoring.Central@seattlecolleges.edu](mailto:LSNTutoring.Central@seattlecolleges.edu)

The Learning Support Network (LSN), including the BE and SAM Learning Centers, Bruce McKenna Writing Center and satellite tutoring services, strives to enhance student success by providing high quality academic support that is inclusive, equitable, responsive and innovative. We employ knowledgeable peer and professional tutors who support college transfer, professional/technical and developmental courses. Our locations offer in-person and online one-on-one tutoring by appointment or drop-in, as well as workshops, group study sessions, access to computers and more. The overall goal of the Learning Support Network is to enable students to persist and succeed in their studies and become independent, life-long learners.

**BE Learning Center, BE2102****(206) 934-0972**

Tutoring in a variety of subjects, including humanities and social sciences, foreign languages, business, accounting, economics, statistics, Behavioral Sciences, and pre-college English for international students. The Center also provides quiet spaces and computer stations for studying independently. Satellite locations provide tutoring in Culinary Arts and Apparel Design.

**SAM (Science & Math) Learning Center, SAM 100****(206) 934-6919**

Tutoring in biology, chemistry and organic chemistry, computer science, engineering, mathematics (pre-college and college level), physics, information technology, and Business Technology Management. The Center also offers quiet spaces and computer stations, for studying independently.

**Bruce McKenna Writing Center, BE2102****(206) 934-0972**

Individual and group tutoring sessions for writers in transitional courses (ENGL 098) and above. Students receive assistance with essays, research papers, personal statements, and scholarship and transfer application essays. The Center provides a non-directive approach to supporting students with interpreting assignments, brainstorming, outlining, revising, developing thesis statements, citing sources, building bibliographies, and general content, structure and flow. Tutors can also help with grammar and usage, but do not provide editing or comprehensive corrections.

**TRiO Student Academic Assistance****(206) 934-3852****[seattlecentral.edu/trio](http://seattlecentral.edu/trio)**

The mission of Seattle Central College's federally funded TRIO-Student Success Services (SSS) program is to promote retention, graduation, and college transfer of underserved students through the delivery of individualized services to empower personal, academic, and professional growth. Seattle Central has two TRIO-SSS programs: Classic and STEM (Science, Technology, Engineering, Math).

The Seattle Central TRIO-SSS team focuses on academic persistence and provides individualized services to facilitate personal, academic and professional growth. Some of the services provided include:

- Develop an education and transfer plan
- Help with applying for financial aid and scholarships
- Free tutors in English, Math, and other academic subjects
- Help with college admissions and personal statements
- Student success strategy coaching and workshops
- Career exploration
- Community building

**Students We Serve**

- Students who are the first in their family to earn a Bachelor's degree, low-income or have a documented disability.
- Students who are enrolled in an academic transfer degree program (Associate of Science or Associate of Arts) and;
- Students who show a need for academic assistance and are highly motivated to graduate and pursue a bachelor's degree.

**Student Support Programs****Broadway Campus BE3215****[studentsupport@seattlecolleges.edu](mailto:studentsupport@seattlecolleges.edu)**

Student Support Programs (SSP) is a justice-orientated and equity-driven space that recognizes academic success is tied to addressing students' holistic needs. SSP offers a range of programs and services that address basic needs, systemic barriers, and institutional challenges which can provide meaningful support for students.

**Childcare Assistance Program**

Childcare Assistance Program offers funding, information, and referral resources to students desiring childcare assistance while attending school.

**Emergency Funding**

Emergency funds offer one-time financial help to currently registered students experiencing an immediate or emergent financial hardship that will hinder their ability to persist in education at Seattle Central.

**Re-Entry Support Programs**

Re-Entry Support Programs provides a welcoming, supportive, and responsive learning environment for all currently and formerly incarcerated students.

**STARS (Students Transitioning and Reaching Success)**

Seattle Central's STARS Program guides students who have been in a foster care program or are/were unaccompanied homeless youth by offering funding, academic guidance, career counseling, and referral resources to ensure students' holistic needs are being met. STARS guides students toward services designed to support them in achieving their academic goals.



## Veteran Support Services

As a veteran, member of active duty military personnel or dependent, you may qualify for a variety of resources to help you pay for your education as well as other services that may help you to achieve your educational goals.

## Food and Stability Resources

Seattle Central is in partnership with Jewish Family Services and Operation Sack Lunch, to provide students with access to food and stability resources that includes, children's supplies, and toiletry items. We also host regularly scheduled community meals. Students are encouraged to inquire about resources and income supports they may be eligible for in our area.

## Testing Office

(206) 934-6344  
[seattlecentral.edu/testing](http://seattlecentral.edu/testing)

Most students seeking a degree or certificate or enrolling in most English or mathematics classes must take placement tests prior to registration. English and Math tests are available only online and help the student and advisor select appropriate classes. This office also offers ASL (American Sign Language) placement tests, ESL placement tests, GED exams, and exam proctoring services for other institutions. Testing schedules and detailed descriptions are available online or by phone.

## The Umoja Scholars Program

(206) 934-3139  
[umojacommunity@seattlecolleges.edu](mailto:umojacommunity@seattlecolleges.edu)

The Umoja Scholars Program is an affiliate of the global Umoja Community. Umoja is a Kiswahili word meaning Unity. The Umoja Scholars Program is a supportive learning community and critical resource dedicated to enhancing the cultural and educational experiences of Black, African American, and other students. We believe that when the voices and histories of students are deliberately and intentionally recognized and honored, the opportunity for self-efficacy emerges and a foundation is formed for academic success. The Umoja Scholars Program at Seattle Central College actively supports and promotes student success through ethnocentric curriculum and pedagogy responsive to the legacy of the African and African American Diasporas and experiences of students.

## Veterans Affairs

(206) 934-4491  
[seattlecentral.edu/veterans](http://seattlecentral.edu/veterans)

For information about using VA benefits to attend Central or how to qualify for a veterans tuition discount, visit the website or contact the School Certifying Official (SCO) in BE 1104C.

For a complete description of the educational benefits for veterans and their dependents, as well as assistance for students interested in pursuing careers in the military, visit the U.S. Veterans Affairs website at [va.gov](http://va.gov).

*See page 50 for more information about financial assistance for veterans and military personnel.*

## Workforce Services

(206) 934-3854  
[seattlecentral.edu/workforce](http://seattlecentral.edu/workforce)

Workforce Services assists students in identifying and achieving their educational and career goals, with a special emphasis on support for low-income students, students on TANF or Basic Food, and students receiving unemployment benefits.

Basic Food Employment and Training (BFET), Opportunity Grant, WorkFirst, and Worker Retraining provide financial assistance for tuition, books, and supplies for eligible students. Visit [startnextquarter.org](http://startnextquarter.org) to help determine preliminary eligibility.

Educational planning with professional staff helps students access education and success through individual plans and campus and community resources.

Both current students and those wanting information and assistance in attending Seattle Central can contact Workforce Services.



## Campus Life

### Art Gallery

**M. Rosetta Hunter Art Gallery**  
 2116 in the Atrium  
 (206) 934-4379  
[gallery.seattlecentral.edu](http://gallery.seattlecentral.edu)

The Art Gallery, located in the Atrium, is an educational exhibition space that enhances Seattle Central's academic goals and contributes to the cultural enrichment of the institution. It hosts exhibits and activities that reflect and serve our multicultural population. The gallery presents approximately nine exhibits throughout the academic year and one show during the summer. Many feature the work of Seattle Central students and graduates.

Please check [gallery.seattlecentral.edu](http://gallery.seattlecentral.edu) for current hours of operation.

### Bookstore

(206) 934-4148  
[bkstr.com/seattlecentralstore/home](http://bkstr.com/seattlecentralstore/home)

The Bookstore, located in SAC 250 across the street from the main college building on Broadway, carries required and recommended textbooks for courses. Textbooks and supplies can also be ordered online at [bkstr.com/seattlecentralstore/home](http://bkstr.com/seattlecentralstore/home). The Bookstore offers a wide array of rental and digital titles as well as new and used textbooks. Rentals can save you up to 50 percent of the cost, and e-textbooks can be as much as 80 percent less than a new textbook. The Bookstore offers a textbook buyback service year-round, with a special buyback for students with proper ID during final exam week each quarter. It also carries school supplies, clothing, gifts, and snacks. For hours of operation and current information, visit the website or [facebook.com/seattlecentralbooks](https://facebook.com/seattlecentralbooks).

### Copy Center

(206) 934-5419  
**Online ordering:** [seattlecentral.edu/copycenter/index.php](http://seattlecentral.edu/copycenter/index.php)

The Copy Center in BE 3105A provides copying service for students, faculty, and staff. In addition to copying services, self-service copiers are available. Supplies such as blue books, scantrons, envelopes, transparencies, and course packets are for sale here. Fax service available within the U.S.

### Erickson Theatre

**1524 Harvard Ave. (between Pike & Pine on Capitol Hill)**

The Erickson Theatre is the home of the SCC Drama Department, teaching drama and technical theatre classes as well as being used for campus and community special events.

### Food Services

(206) 934-5424  
[culinary.seattlecentral.edu/restaurants](http://culinary.seattlecentral.edu/restaurants)  
**Open to the public.**

**The Buzz Pastry Case** serves Café Vita espresso drinks, coffee, and tea to go. They offer a variety of pastries, cakes, cookies, desserts, chocolates, and rustic artisan breads, all prepared by students of the Specialty Desserts and Breads program. Grab and go sandwiches, salads, pasta, soups, and parfaits are also available. The Buzz is open Tuesday – Friday from 7:30 a.m. – 2:00 p.m., with select hours on Mondays.

During Fall, Winter, and Spring Quarters, students from the Culinary Arts program prepare and serve a variety of specialty menus at **Square One Bistro** and **One World Restaurant**. Guests who dine at our student-run restaurants give students the opportunity to acquire the necessary experience to be successful out in industry. The restaurants are open to the public Tuesday through Friday from 11:15 a.m. to 1:00 p.m.

**Square One Bistro** features contemporary, casual dining with fresh seasonal salads, soups, entrees, and baked goods, as well as handmade pasta and artisanal pizzas from the Woodstone oven. **One World Restaurant** offers seasonally focused ever-changing menus with global influences, featuring quality local and sustainably produced ingredients.

Current menus: [culinary.seattlecentral.edu/restaurants](http://culinary.seattlecentral.edu/restaurants)

Restaurants reservations or a private event: (206) 934-5424

Restaurants close for several weeks during the year when students are in finals or on break in summer. Check the website for current status and hours.

### Public Safety

(206) 934-5442 **Public Safety Department**  
 BE 1108

Seattle Central College Public Safety Department is committed to providing a safe environment for the college community, including students, staff, faculty, and visitors. The department takes a community approach to campus security and safety prevention. It is important that everyone speaks up. If you see something suspicious, tell someone.

- For all on-campus emergencies, call 911. When calling 911 for assistance, clearly state the type of emergency: police, fire, or medical. Clearly state your name, location, telephone number, building, and room number. Describe the emergency and follow the dispatcher's instructions. Do not hang up until told to do so by the 911 dispatcher. When safe, please call Public Safety at (206) 934-5442.
- For on-campus security and safety concerns, call Public Safety at (206) 934-5442 or stop by Room BE 1108.

*See page 59 for more information on personal safety.*

## Recreation & Fitness

### Charles H. Mitchell Student Activity Center (MAC)

(206) 934-6315

[seattlecentral.edu/wp/mac](http://seattlecentral.edu/wp/mac)

**Please check website for updated hours of operation**

Located across the street from the BE building at 1718 Broadway The Mitchell Activity Center offers a wide range of recreational and fitness activities. The facility includes a basketball gym, a running track, indoor squash and racquetball courts, a well-equipped game room, a weight room, pool and ping-pong tables, and cardiovascular workout equipment. Drop-in fitness classes, recreational tournaments, and events for students are also offered. Membership for faculty/staff and alumni is available.

## Student Leadership Division

(206) 934-6924 SAC 350 (above the bookstore)

[seattlecentral.edu/student-leadership](http://seattlecentral.edu/student-leadership)

Student Leadership supports student learning and success through leadership development and involvement opportunities on campus. Students can develop and practice organizational and leadership skills in a nurturing learning environment, enhancing personal, social, and professional development.

### Committee Involvement

Students serve the college and gain experience through participation on committees that address specific campus issues, mobilize energy toward organizing events and activities, or provide policy recommendations to the administration. Information is available at the Student Leadership Office.

### Leadership Institute

Training sessions are open to all students. Facilitated by various Central staff and Seattle community members, sessions cover essential leadership topics, such as time management, individual core values, and listening skills.

### Student Development Transcript

The Student Development Transcript (SDT) provides an official record of students' involvement in clubs, boards, committees, and other extracurricular activities and accomplishments at Central, which can enhance applications for transfer to four-year institutions, for scholarships, and for employment.

## Associated Student Council (ASC)

(206) 934-4057 SAC 356

The ASC, the official student government of Central, is responsible for representing student interests to the college administration. ASC organizes a broad range of student committees, addresses issues, and promotes services that support student interests. The ASC includes six student executives, chosen each spring by a student vote, and up to three associates who work on specific projects.

## College Activities Board

(206) 934-6335 SAC 355

The College Activities Board (CAB) enriches campus life through multicultural events and activities that celebrate diversity, involvement, and collaboration, ranging from parties, dances, and fairs to comedy shows, poetry nights, speakers on cutting-edge social issues. CAB consists of student leaders who learn all aspects of event planning and are excited to help students make their event ideas into reality.

## Student Organizations Hub (SOH)

(206) 934-4028 SAC 357

Student Organizations Hub (SOH) supports club and organization life at Seattle Central. We help student clubs and organizations with funding access, resources, leadership practice, and training. SOH is committed to providing spaces for students who want to find a sense of belonging as well as empower them to lead their communities.

## Website & Publications Team

(206) 934-0943 BE 4108

The Student Website and Publications (SWAP) Team is responsible for presenting the voice of students on campus through online publications, such as the *The Seattle Collegian*, that feature the creative, artistic, and intellectual work of Seattle Central students, including fair, accurate, and inclusive reporting and analysis of activities and events on campus.

## Phi Theta Kappa

(206) 934-2928

Phi Theta Kappa is the International Academic Honor Society of the two-year college. The members of Seattle Central chapter, Alpha Chi Zeta, promote Phi Theta Kappa's mission to recognize and encourage the academic achievement of two-year college students and to provide opportunities for individual growth and development.

## Transportation & Parking

Seattle Central Transportation Services

BE 1143

(206) 934-6932 (Parking)

[seattlecentral.edu/transportation](http://seattlecentral.edu/transportation)

### Alternative Transportation

Seattle Central encourages alternate forms of transportation, like mass transit, biking, carpooling, and walking. Bike racks/lockers are available on campus. Central's main campus is well served by Metro. Students registered for 10 or more credits are eligible to purchase a discounted ORCA transit pass issued by the college. The ORCA pass may be used to ride Sound Transit and Community, Everett, Kitsap, Metro, and Pierce transit systems. For additional information, contact our office or visit our website.

### Public Parking

A very limited supply of parking permits for Central's parking garage is available for purchase by students who live more than five miles away. Thirty days before the quarter starts, individual permits may be purchased online at [seattlecolleges.edu/parkingpermits](http://seattlecolleges.edu/parkingpermits).



# Learning Outcomes

## General Education

Seattle Central students will achieve personal and professional goals in diverse and multicultural settings because they are able to:

### **THINK: Analyze, create, and reflect to address and appreciate challenges and opportunities**

- Gather, interpret, and evaluate information
- Identify problems and issues
- Formulate hypotheses
- Generate and implement creative strategies
- Create and appreciate aesthetic work
- Evaluate their thinking process

### **COLLABORATE: Work effectively with others to learn, complete tasks, and pursue common goals**

- Identify problems and create action plans
- Apply understanding and knowledge of group process
- Pursue and critically evaluate different social and cultural perspectives
- Manage conflict productively
- Engage in community and civic life

### **COMMUNICATE: Exchange ideas and information through intentional listening, speaking, signing, reading, writing, or presenting**

- Determine the purpose and context for communicating
- Organize and present information purposefully
- Seek feedback and revise to enhance effectiveness
- Attend to conventions of communication to minimize barriers
- Consider perspectives, experiences, and cultural differences to develop understanding

### **CONNECT: Apply knowledge and skills to solve problems**

- Select and use theoretical models, quantitative and qualitative techniques, information sources, and technology tools
- Identify and solve problems using logical strategies and evaluate results
- Gather data from various reliable sources and assess the validity and relevancy
- Critically evaluate solutions using research-based evidence
- Use technology and apply to a wide range of practices, fields, and industries

### **CONTINUE LEARNING: Self-evaluate and act to improve knowledge and skills**

- Analyze own performance and revise to improve
- Transfer learning by applying it in other contexts
- Increase knowledge by identifying gaps and acting to fill them
- Seek mentors and share knowledge with others
- Provide and receive feedback

## Associate of Arts Degree Learning Outcomes

1. Communication Skills (reading, oral or signed, written, other forms of expression): Explain meaning of written work, presentations, arts, and media in different contexts and present oral, signed, written, or other forms of expression to increase knowledge, foster understanding, or promote change in an audience.
2. Critical Thinking, Inquiry and Analysis, and Problem-Solving: Explore issues, ideas, phenomena, and artifacts to define and articulate problems or to formulate hypotheses. Analyze evidence to formulate an opinion, identify strategies, develop and implement solutions, evaluate outcomes, and/or draw conclusions.
3. Global Learning and Intercultural Knowledge and Competence: Critically analyze complex, interdependent national and global systems, and their legacies and implications, regarding the distribution of power. Reflect on how one's position in these systems affects both local and global communities. Apply a set of cognitive, affective, and behavioral skills that support effective and appropriate interaction in a variety of cultural contexts.
4. Quantitative Literacy Reason and solve quantitative problems in a wide array of contexts and use quantitative evidence to develop and communicate sound arguments.
5. Creative Thinking: Synthesize existing ideas, images, or expertise in original ways.
6. Information Literacy: Identify, locate, and evaluate needed information in a complex and changing environment. Effectively and responsibly use that information to develop ideas, address issues, and solve problems.
7. Technology Literacy: Effectively and critically evaluate, navigate, and use a range of digital technologies.
8. Integrative Learning: Connect disciplinary and divergent ideas across contexts by synthesizing and transferring integrative learning principles to complex situations within and/or beyond the classroom.

9. **Collaboration:** Work effectively with others to learn, complete tasks, and pursue common goals that shape, influence, and benefit the individual and/or society.
10. **Ethical Reasoning:** Examine, assess, and articulate core beliefs and values, and apply that knowledge to analyze and evaluate complex ethical situations from various perspectives.
11. **Civic Engagement:** Promote the quality of life in the civic community through actions that enrich individual life and benefit the community.
12. **Foundations and Skills for Lifelong Learning:** Transfer previous learning to new situations, reflect on learning experiences, and initiate steps to apply effective learning strategies to improve and expand knowledge, skills, and competence.

## Associate of Science Degree Learning Outcomes

Seattle Central College students completing the A.S. degree should:

- Have college-level knowledge and skills in critical thinking, quantitative analysis, and written composition
- Have college-level mastery of information literacy and be technologically literate
- Demonstrate effective oral and written communication, teamwork, and collaboration in scientific, mathematical, and other settings
- Have the ability to design and conduct experiments as well as to analyze and interpret data
- Understand methods of inquiry specific to traditional and contemporary areas of knowledge in mathematics and the natural and physical sciences
- Understand the interdisciplinary and multicultural nature of knowledge
- Demonstrate academic honesty and ethical behavior
- Be able to appreciate and apply their knowledge of science in the outside world



## Areas of Study



### ARTS, DESIGN, AND GRAPHICS

#### 2D Fine Arts (A.A.-DTA)

This two-year pathway is designed to give students a solid foundation in 2D visual art with a focus on craft, concept, and critical analysis in one or more of several areas of study including drawing, painting, digital art, photography and more. While in the program, students have many opportunities to gain professional experience as working artists including showcasing and selling art, installing, exhibiting, and documenting work, and submitting to literary and arts publications.

This AA-DTA program prepares students to complete their education at a four-year college or university with a Bachelor of Art (BA) with Studio Art or Art History concentration, a Bachelor of Fine Art (BFA) or Master of Fine Art (MFA) in Visual Art, and/or entering the creative economy with a dynamic portfolio of finished works.

#### Apparel Design & Development Associate of Applied Science Degree (A.A.S.)

##### Business, Information Technologies & Creative Arts Division

Central's School of Apparel Design & Development is the most technically oriented design program in the region, with a track record for training the region's best fashion design talent. The comprehensive curriculum is aligned to current apparel industry trends to offer relevant technical and creative skills to prepare students to succeed in a competitive industry. Students earn an Associate of Applied Science degree upon completion of 93 credits of course work over six quarters.

##### PREREQUISITES

APPRL 096	AD&D Skill Development 1	2
APPRL 098	AD&D Skill Development 2	2
APPRL 100	AD&D Skill Development 3	2

##### TECHNICAL SPECIALTY COURSES

APPRL 101	Construction 1 - Professional Techniques	4
APPRL 102	Construction 2 - Professional Techniques	4
APPRL 103	Construction 3 - Professional Techniques	4
APPRL 111	Patternmaking 1 - Flat Pattern and Drafting	4
APPRL 112	Patternmaking 2 - Draping	4
APPRL 113	Patternmaking 3 - Design by Flat Patternmaking	4
APPRL 114	Patternmaking 4 - Pattern Alteration for Fit	2
	'Related Instruction' course	
APPRL 130	Apparel Manufacturing	2
	'Related Instruction' course	
APPRL 131	Business Practices in Fashion	3
	'Related Instruction' course	
APPRL 138	Fashion History	3
APPRL 141	Design 1 - Principles of Design	2

APPRL 142	Design 2 - Fabric Science and Textiles	2
APPRL 143	Design 3 - Color and Palettes	2
APPRL 151	Computer Applications for Apparel Design 1	3
	'Related Instruction' course	
APPRL 152	Computer Applications for Apparel Design 2	3
	'Related Instruction' course	
APPRL 197	Work Experience in Apparel Design	5
	Credit range: 1 - 5   Total required credits: 5	
	'Related Instruction' course	
	Work experience credits are accumulated throughout the 2-year curriculum prior to the sixth quarter	
APPRL 201	Ready-To-Wear Construction	4
APPRL 202	Active Sportswear Construction	4
APPRL 211	Pattern Design for Ready-To-Wear	4
APPRL 212	Pattern Design for Active Sportswear	4
APPRL 221	Pattern Grading	4
APPRL 222	Computerized Pattern Grading	4
	'Related Instruction' course	
APPRL 230	Portfolio and Resume Development	4
	'Related Instruction' course	
APPRL 241	Design 4 - Print and Pattern	4
APPRL 242	Design 5 - Line Design	4
	'Related Instruction' course	
APPRL 270	Final Line Design and Development	8
TOTAL PROGRAM CREDITS		95

#### Art History (A.A.-DTA)

This two-year pathway is designed for students who wish to obtain an Associate of Arts - Direct Transfer Agreement degree with a concentration in Art History. Completion of this pathway provides a visual and historical analysis of objects made throughout time. In lectures, discussions, and online content, students discover the broader context that surround works of art, design, and architecture, providing an understanding of why these objects were made, what they represent, and how they can tell us stories of humanity.

Completion of this program is designed to prepare students for transferring into an Art History major at a four-year college or university and satisfy Art History requirements for students entering a Studio Art major.

#### Drama (A.A.-DTA)

This two-year pathway is designed for students that wish to obtain an Associate of Arts - Direct Transfer Agreement degree with a concentration in drama. The courses in this pathway focus on the general study of dramatic works and their performance. Students will study major works of dramatic literature, dramatic styles and types, musical theater, schools of dance, and the principles of organizing and producing full live or filmed productions.

Completion of this program is designed to prepare students for further education in Drama at a four-year college or university.

## Graphic Design Associate of Applied Science Degree (A.A.S.)

### Business, Information Technologies & Creative Arts Division

Graduates of the Graphic Design program get to work when they leave us. We concentrate on skills for immediate entry into the job market. Our curriculum is strong on graphic design fundamentals, yet explores and adapts to emerging communication technologies. We pride ourselves in keeping our curriculum current with changes and developments on an annual basis.

Conceptual design and technical skill combine to produce a competitive portfolio. Instructors with industry experience lead students in consecutive integrated tracks of print design and interaction design, which includes but is not limited to, Web Design, UI/UX, Mobile Apps, and Motion. Problem solving, strategy development, and powerful use of typography and visuals achieve our communication solutions. Classes are organized in collegial work groups mirroring a professional studio environment. Design theory and practice, along with production using current computer software, prepare students for a graphic design career in print and interactive media.

#### TECHNICAL SPECIALTY COURSES

DES	110	History of Graphic Design.....	3.5
DES	121	Typography I.....	3.5
DES	122	Typography II.....	3.5
DES	131	Graphic Design I.....	3.5
DES	132	Graphic Design II.....	3.5
DES	145	Graphic Production I.....	3.5
DES	146	Graphic Production II.....	3.5
DES	147	Graphic Production III.....	3.5
DES	151	Interactive I.....	3.5
DES	152	Interactive II.....	3.5
DES	153	Interactive III.....	3.5
DES	160	Design Thinking and Storytelling for Design..	3.5
DES	197	Work Experience-Graphic Design.....	3
		Credit range: 2 - 5	
		Total required work experience credits for DES 197: 3	
DES	230	Graphic Design III.....	4
DES	231	Graphic Design IV.....	4
DES	232	Graphic Design V.....	4
DES	233	Graphic Design VI.....	4
DES	234	Graphic Design VII.....	4
DES	235	Graphic Design VIII.....	4
DES	236	Graphic Design IX.....	4
DES	251	Interactive IV.....	4
DES	252	Interactive V.....	4
DES	253	Interactive VI.....	4

DES	260	Portfolio Prep.....	4
DES	270	Environmental Graphics I.....	5
DES	280	Special Projects I.....	4
DES	281	Special Projects II.....	4
DES	282	Special Projects III.....	4

#### RELATED INSTRUCTION

NME	110	New Media I.....	6
NME	120	New Media II.....	6
NME	130	New Media III.....	6
TOTAL PROGRAM CREDITS			123

## Music (A.A.-DTA)

This two-year pathway is designed for students who wish to obtain an Associate of Arts - Direct Transfer Agreement degree with a concentration in Music. In this pathway, students complete the general education requirements for the degree while studying music theory, history, and performance. Students will grow as musicians through private instruction and many vocal and instrumental performance opportunities, including large and small ensembles, solo recitals, workshops with professional artists, and regional and national competitions.

This program prepares students to pursue further studies in music or a related field at a four-year college or university, as well as teaching valuable skills that are desirable to employers in a variety of music-related fields, including sound design, composing, recording production and more.

## Technical Theater for Social Justice (A.A.-DTA)

This two-year pathway is designed for students who wish to obtain an Associate of Arts - Direct Transfer Agreement degree with an emphasis in Technical Theater for Social Justice. Students receive education in technical theatre and film elements including costumes and properties fabrication, stage lighting, electrics, projections, audio engineering, and scenic carpentry and painting, while studying topics such as contemporary moral problems, principles of environmental sustainability, and applied social and cultural change. Through apprenticeships and skills-building, students who complete the degree can begin working behind the scenes in the entertainment industry while helping move the industry towards more equity, diversity, and inclusion.



## Visual Media Associate of Applied Science Degree (A.A.S.)

### Business, Information Technologies & Creative Arts Division

Examine concepts, ask questions, solve creative problems and push the boundaries of traditional media using the power of still and motion imagery. Expand your knowledge both individually and in small teams to craft creative solutions from aesthetic conception to final application. The Visual Media program is a rigorous 2-year curriculum providing the framework for a strong portfolio and guidance for career preparation, whether as an entrepreneur or as a visual communications professional.

The Visual Media program immerses you in the foundations of digital storytelling using modern photography and video technology. Nurture your development of essential skills in lighting and composition for digital capture, both in studio and on location; post-production editing; and through developed critical thinking and professional communication skills.

As part of the Seattle Central Creative Academy, the Visual Media program provides an unmatched environment in your pursuit of visual media competency, with modern cooperative learning spaces and supportive faculty. Explore a range of disciplines, while connecting with industry professionals through portfolio reviews, guest lectures and work-based opportunities.



### TECHNICAL SPECIALTY COURSES

VME 110	Professional Practices I	3.5
VME 120	Lighting Techniques I	3.5
VME 121	Lighting Techniques II	3.5
VME 131	Conceptual Solutions I	3.5
VME 145	Digital Imaging I	3.5
VME 146	Digital Imaging II	3.5
VME 147	Digital Imaging III	3.5
VME 150	Visual Media I	3.5
VME 151	Visual Media II	3.5
VME 153	Visual Media III	3.5
VME 160	Studio Techniques I	3.5
VME 170	Audio Production I	3.5
VME 197	Work Experience - Visual Media	3
VME 220	Digital Imaging V	4
VME 232	Conceptual Solutions II	4
VME 233	Conceptual Solutions III	4
VME 245	Audio Production I	4
VME 250	Visual Media IV	4
VME 251	Visual Media V	4
VME 252	Visual Media VI	4
VME 261	Studio Techniques II	4
VME 262	Studio Techniques III	4
VME 270	Professional Business Practices: Visual Media	4
VME 276	Portfolio Show	4
VME 280	Special Projects I	4
VME 281	Special Projects II	4
VME 282	Special Projects III	4
VME 286	Portfolio	4

### RELATED INSTRUCTION

NME 110	New Media I	6
NME 120	New Media II	6
NME 130	New Media III	6

TOTAL PROGRAM CREDITS

123





## BUSINESS AND ACCOUNTING

CENTRAL

128

Business and Accounting

### Business (A.B.-DTA)

The Associate in Business - Direct Transfer Agreement (A.B.-DTA) is designed to satisfy lower division general education and business requirements at Washington's public four-year colleges and universities. Students will take specific coursework in Economics, Accounting, Business Law, Statistics, and Mathematics as part of the Associate in Business degree.

Students also develop skills in business plan development, feasibility analysis, critical thinking, oral and written communication, teamwork and collaboration, leadership, risk taking, troubleshooting and problem solving with technology, professionalism, intercultural competence, and career exploration. The Associate in Business degree includes all the pre-requisite courses for transfer in a Business or Accounting major.

### Advanced Facebook Digital Marketing Certificate

**Business, Information Technologies & Creative Arts Division**

Completion of Facebook Digital Marketing Short-Term Certificate: 15 credits

#### TECHNICAL SPECIALTY COURSES

Course(s) listed here are those comprising the Facebook Digital Marketing Short-Term Certificate

BTM	220	Social Media Marketing.....	5
BTM	222	Digital Marketing Foundations.....	5
BTM	224	Marketing Analytics & Performance Optimization.....	5

#### TECHNICAL SPECIALTY COURSES - ADVANCED

BTM	221	Digital Branding & Advertising.....	5
BTM	223	Email Marketing.....	5

TOTAL PROGRAM CREDITS 25

### Business Technology Management Associate of Applied Science Degree (AAS)

**Business, Information Technologies & Creative Arts Division**

The Business Technology Management program(formerly Business Information Technology) prepares students for employment in a wide range of industry specialties requiring information technologies, effective communications, customer relations, and organizational management. The integrated, cross-disciplinary curriculum emphasizes business project-based learning, information literacy, diversity, and professionalism.

Completion of Business Technology Management 4-Qtr Certificate: 46 credits

#### TECHNICAL SPECIALTY COURSES

Course(s) listed here are those comprising the Business Technology Management - 4 Qtr Certificate

BTM	100	Orientation and Career Exploration .....	2
BTM	111	Business Applications I .....	5
BTM	112	Business Applications II -Data Analysis w/Excel .....	5
BTM	113	Business Applications III .....	5
BTM	118	Applied Business Math II.....	5
BTM	119	Business Communications II .....	5
BTM	120	Customer Relations Management.....	5
BTM	236	Supervision Management .....	5
BTM	250	Records Information Management.....	5
BUS	197	Work Experience-Business Occupations.....	4

#### TECHNICAL SPECIALTY COURSES - AAS

BTM	222	Digital Marketing Foundations.....	5
BTM	228	Small Business Management.....	5
BTM	231	Applied Accounting I.....	5
BTM	237	Human Resource Management .....	5
BTM	245	Business Process Management.....	5
BTM	260	Project Management .....	5
BTM	278	Organizational Behavior.....	5

#### ELECTIVES

Elective	.....	10
	See Advising for list of approved courses.	

TOTAL PROGRAM CREDITS 91

## Business Technology Management Associate of Applied Science–Transfer Degree (A.A.S.-T)

### Business, Information Technologies & Creative Arts Division

The Business Technology Management program prepares students for employment in a wide range of industry specialties requiring information technologies, effective communications, customer relations, and organizational management. The integrated, cross-disciplinary curriculum emphasizes business project-based learning, information literacy, diversity, and professionalism.

Completion of Business Technology Management 4-QTR Certificate: 46 credits

#### TECHNICAL SPECIALTY COURSES

Course(s) listed here are those comprising the Business Technology Management - 4 Qtr Certificate

BTM	100	Orientation and Career Exploration	2
BTM	111	Business Applications I	5
BTM	112	Business Applications II -Data Analysis w/Excel	5
BTM	113	Business Applications III	5
BTM	118	Applied Business Math II	5
BTM	119	Business Communications II	5
BTM	120	Customer Relations Management	5
BTM	236	Supervision Management	5
BTM	250	Records Information Management	5
BUS	197	Work Experience-Business Occupations	4

#### BTM ELECTIVES

Elective	25
Any BTM course - see Advising for list of approved courses	

#### GENERAL EDUCATION COURSES

General Education course(s)	20
See Advising for list of approved courses.	

TOTAL PROGRAM CREDITS 91



## Business Technology Management Certificate: Four Quarters

### Business, Information Technologies & Creative Arts Division

The Business Technology Management program prepares students for employment in a wide range of industry specialties requiring information technologies, effective communications, customer relations, and organizational management. The integrated, cross-disciplinary curriculum emphasizes business project-based learning, information literacy, diversity, and professionalism.

#### TECHNICAL SPECIALTY COURSES

BTM	100	Orientation and Career Exploration	2
BTM	111	Business Applications I	5
BTM	112	Business Applications II – Data Analysis w/Excel	5
BTM	113	Business Applications III	5
BTM	118	Applied Business Math II	5
BTM	119	Business Communications II	5
BTM	120	Customer Relations Management	5
BTM	236	Supervision Management	5
BTM	250	Records Information Management	5
BUS	197	Work Experience-Business Occupations	4
TOTAL PROGRAM CREDITS			46

## Business Technology Management Certificate

### Business, Information Technologies & Creative Arts Division

The Business Technology Management (formerly Business Information Technology) program prepares students for employment in a wide range of industry specialties requiring information technologies, effective communications, customer relations, and organizational management. The integrated, cross-disciplinary curriculum emphasizes business project-based learning, information literacy, diversity, and professionalism.

#### PREREQUISITES

\*MATH 081, ENGL 096 or test out may substitute for prerequisite courses listed.

Students who enroll in all 11 credits, will be advised to take a specific HDC course to support learning.

BTM	098	Computing Essentials	3
BTM	108	Applied Business Math I	3
BTM	109	Business Communications I	5

**TECHNICAL SPECIALTY COURSES**

All courses require BTM 098 or test out

BTM	100	Orientation and Career Exploration	2
BTM	111	Business Applications I	5
BTM	112	Business Applications II -Data Analysis w/Excel	5
BTM	113	Business Applications III	5
BTM	118	Applied Business Math II	5
Following can be substituted:			
BTM 108 - Applied Business Math I (5) or MATH 081 - Basic Math Skills (5) or test out required only			
BTM	119	Business Communications II	5
Following can be substituted:			
BTM 109 - Business Communications I (5) or ENGL 096 - College Prep Writing III (5) or test out required only			
BTM	120	Customer Relations Management	5
BTM	122	Professional Development	5
BTM	197	Work Experience: Buiness Technology Management	5
Total required credits: 3-5			
BTM	250	Records Information Management	5
TOTAL PROGRAM CREDITS			41-47

**Entrepreneurship Certificate**

**Business, Information Technologies & Creative Arts Division**

The Entrepreneurship Certificate targets students who are interested in applying the ideas and fundamentals (skill sets) of successful entrepreneurs to a variety of organization structures. These include starting a new business, working for an early stage start-up, or implementing a new initiative in an existing organization (e.g. corporate, government, non-profit).

**TECHNICAL SPECIALTY COURSES**

BTM	222	Digital Marketing Foundations	5
BTM	226	Small Business Startup	3
BTM	228	Small Business Management	5
BTM	231	Applied Accounting I	5
TOTAL PROGRAM CREDITS			20

**Facebook Digital Marketing Short-Term Certificate**

**Business, Information Technologies & Creative Arts Division**

**TECHNICAL SPECIALTY COURSES**

BTM	220	Social Media Marketing	5
BTM	222	Digital Marketing Foundations	5
BTM	224	Marketing Analytics & Performance Optimization	5
TOTAL PROGRAM CREDITS			15

**Small Business Accounting Short-Term Certificate**

**Business, Information Technologies & Creative Arts Division**

The Small Business Accounting Certificate emphasizes practical accounting and bookkeeping skills that will prepare the student for entry level positions related to small business accounting and to support the accounting needs of the small business entrepreneur. The completion of the three course series will also prepare students for the Certified Bookkeeper exam.

Program Certificate Outcomes:

- Apply industry standard accounting cycle and budgets
- Prepare financial statements with knowledge of commercial accounting software
- Implement internal procedures and accurate records to address rules and regulations related to taxes, audits, regulatory laws

**TECHNICAL SPECIALTY COURSES**

BTM	231	Applied Accounting I	5
BTM	232	Applied Accounting II	5
BTM	233	Applied Accounting III	5
TOTAL PROGRAM CREDITS			15



## CULINARY, HOSPITALITY, AND WINE

### Culinary Arts Associate of Applied Science Degree (A.A.S.)

#### Seattle Culinary Academy Hospitality & Culinary Arts Division

The Culinary Arts program is a six-quarter (certificate) or seven-quarter (A.A.S. degree) course of study. The curriculum builds on classical techniques by integrating the modern cooking styles and methods of a variety of international cuisines, as well as seasonal Northwest cooking. Our focus is on sustainable principles and practices in order to teach our students about their impact on and responsibility for the environment and society. This education is enhanced by our campus greenhouse and Skagit Valley farm curricula.

Students learn to prepare appetizers, soups, sauces, salads, entrées, vegetables and starches, breads, pastries and desserts. They also learn to identify and fabricate meat, poultry and fish. In addition to cooking and pastry techniques, the program covers sanitation, nutrition, management, purchasing, costing, menu development, as well as food and wine pairing.

Seattle Central's Culinary Arts program meets the needs of those new to food preparation as well as those who have industry experience and wish to develop a broader range of skills. Many of our students have a degree in another field and wish to make a career change.

Students may enter the program Fall, Winter or Spring Quarters. The Associate of Applied Science (A.A.S.) degree may be granted with the completion of 16 additional elective credits. A cumulative GPA of 2.0 or higher in all core and related instructional courses is required to attain a Culinary Arts Certificate and/or A.A.S. degree.

The Seattle Culinary Academy's certificate programs are accredited by the American Culinary Federation Education Foundation's Accrediting Commission and have received exemplary status.

#### PREREQUISITES

College-level math with a 2.0 minimum grade or placement into Math 087/91

College-level English composition with 2.0 minimum grade or placement into English 101.

#### TECHNICAL SPECIALTY COURSES

BAK	105	Restaurant Baking: Theory	1.5
BAK	115	Restaurant Baking: Practicum	1
CUL	101	Food Theory I	6
CUL	102	Food Theory II	5
CUL	103	Food Theory III	4
CUL	104	Food Theory IV	6
CUL	111	Introduction to Professional Cooking: Practicum	6
CUL	112	Quantity Cooking: Practicum	8
CUL	113	Restaurant Cooking: Practicum	8
CUL	114	International Cooking: Practicum	8
CUL	151	Sustainable Food Systems Practices I	1
CUL	152	Sustainable Food Systems Practices II	1
CUL	205	Advanced Culinary Theory	1
CUL	215	Advanced Culinary Practices	4.5
CUL	251	Buffet Catering & Garde Manger: Theory	4
CUL	257	Meat Fabrication and Charcuterie Practicum	2
HOS	101	Customer Service Practicum I	1
HOS	102	Customer Service Practicum II	1
HOS	103	Customer Service Practicum III	1
HOS	104	Customer Service Practicum IV	1
HOS	108	Dining Room and Kitchen Management	4
HOS	110	Principles of Sanitation	3
HOS	111	Introduction to Customer Service: Theory	1
HOS	112	Spreadsheet for Hospitality	1
HOS	123	Food Costing Principles and Application	1
HOS	124	Computerized Menu Planning	2
HOS	127	Career Planning and Human Resources Management	2
HOS	201	Functions of Management	2

#### RELATED INSTRUCTION

BIOL	103	Nutrition for Food Service Professionals	3
TOTAL PROGRAM CREDITS			90

### Culinary Arts Associate of Applied Science – Transfer Degree (A.A.S.-T)

#### Seattle Culinary Academy Hospitality & Culinary Arts Division

The Culinary Arts program is a six-quarter (certificate) or seven-quarter (A.A.S. degree) course of study. The curriculum builds on classical techniques by integrating the modern cooking styles and methods of a variety of international cuisines, as well as seasonal Northwest cooking. Our focus is on sustainable principles and practices in order to teach our students about their impact on and responsibility for the environment and society. This education is enhanced by our campus greenhouse and Skagit Valley farm curricula.

Students learn to prepare appetizers, soups, sauces, salads, entrées, vegetables and starches, breads, pastries and desserts. They also learn to identify and fabricate meat, poultry and fish. In addition to cooking and pastry techniques, the program covers sanitation, nutrition, management, purchasing, costing, menu development, as well as food and wine pairing.

Seattle Central’s Culinary Arts program meets the needs of those new to food preparation as well as those who have industry experience and wish to develop a broader range of skills. Many of our students have a degree in another field and wish to make a career change.

The Seattle Culinary Academy’s certificate programs are accredited by the American Culinary Federation Education Foundation’s Accrediting Commission and have received exemplary status.

**TECHNICAL SPECIALTY COURSES**

BAK	105	Restaurant Baking: Theory	1.5
BAK	115	Restaurant Baking: Practicum	1
BAK	116	Fine Dining Baking: Practicum	1
BAK	117	Introduction to Cheese Making	1
BIOL	103	Nutrition for Food Service Professionals	3
CUL	101	Food Theory I	6
CUL	102	Food Theory II	5
CUL	103	Food Theory III	4
CUL	104	Food Theory IV	6
CUL	111	Introduction to Professional Cooking: Practicum	6
CUL	112	Quantity Cooking: Practicum	8
CUL	113	Restaurant Cooking: Practicum	8
CUL	114	International Cooking: Practicum	8
CUL	120	Introduction to Wine	1
CUL	151	Sustainable Food Systems Practices I	1
CUL	152	Sustainable Food Systems Practices II	1
CUL	153	Sustainable Food Systems Practices III	1
CUL	205	Advanced Culinary Theory	1
CUL	215	Advanced Culinary Practices	4.5
CUL	251	Buffet Catering & Garde Manger: Theory	4
CUL	255	Buffet Cater/Garde Manger:Practicum	8
HOS	101	Customer Service Practicum I	1
HOS	102	Customer Service Practicum II	1
HOS	103	Customer Service Practicum III	1
HOS	104	Customer Service Practicum IV	1
HOS	108	Dining Room and Kitchen Management	4
HOS	110	Principles of Sanitation	3
HOS	111	Introduction to Customer Service:Theory	1
HOS	122	Purchasing and Inventory: Theory	1
HOS	123	Food Costing Principles and Application	1
HOS	124	Computerized Menu Planning	2
HOS	201	Functions of Management	2
MIC	102	Using Computers I	1

**RELATED INSTRUCTION**

Total of 20 credits derived from all three Related Instruction areas.  
ENGL& 101 English Composition I 5

**RELATED INSTRUCTION - QUANTITATIVE SKILLS**

College-level Math with MATH 098 prereq.  
Choose 5 credits (1 course) from the following:  
MATH& 107 MATH in Society 5  
MATH& 146 Introduction to Statistics 5

**RELATED INSTRUCTION - SCIENCE,SOCIAL OR HUMAN**

Choose 10 credits (2 courses) from the following:  
ANTH& 206 Cultural Anthropology 5  
ANTH 275 Medical Anthropology 5  
BIOL& 160 General Biology w/Lab 5  
CHEM& 121 Introduction to Chemistry 5  
CMST& 101 Introduction to Communication 5  
HUM 105 Intercultural Communication 5  
NTR 150 Human Nutrition 5  
PSYC& 100 General Psychology 5  
TOTAL PROGRAM CREDITS 119

**Culinary Arts: Specialty Desserts & Breads Associate of Applied Science Degree (A.A.S.)**

**Seattle Culinary AcademyHospitality & Culinary Arts Division**

Specialty Desserts & Breads program features comprehensive “hands on” and step-by-step training to prepare students to be professional bakers or pastry chefs.

Learn to create rustic artisan breads and doughs, plated desserts, decorative cakes, and mouthwatering pastries. Explore European specialties such as tarts, mousses, truffles, and petit fours. Discover the fine art of wedding cakes and cake decorating. Learn chocolate work with demonstrations on pulled and blown sugar, intricate decoration, and show-pieces. Classroom theory instruction includes “hands-on” experience in how to serve breads and desserts for two on-campus restaurants and in our pastry shop.

Sustainable practices are integrated throughout the program, especially in food preservation and cheese production courses. Learn the value of buying seasonally and locally storing the bounties of the summer harvest and purchasing milk from local dairies.

The Specialty Desserts & Breads certificate is accredited by the American Culinary Federation Education Foundation’s Accrediting Commission and received exemplary status.

Specialty Desserts & Breads is a five-quarter certificate program. Students may enter the program Fall, Winter or Spring Quarters. The Associate of Applied Science (A.A.S.) degree can be earned with the completion of 16 additional elective credits. A cumulative GPA of 2.0 or higher in all core and related instructional courses is required to attain a Culinary Arts Certificate and/or A.A.S. degree.

Completion of Certificate Requirements: 75 credits

**PREREQUISITES**

College level math with a 2.0 minimum grade or placement into Math 087/91, College level English composition with 2.0 minimum grade or placement into English 101.

**TECHNICAL SPECIALTY COURSES**

BAK	101	Intro to Desserts & Breads: Theory	4
BAK	102	Bread and Food Preservation	3
BAK	103	Science and Practice of Baking with Chocolate	4
BAK	111	Introduction to Desserts & Breads: Practicum	6
BAK	112	Beginning Desserts and Breads: Practicum	8
BAK	113	Intermediate Desserts and Breads: Practicum	8
BAK	117	Introduction to Cheese Making	1
CUL	106	Introduction to Culinary Arts: Theory	1.5
CUL	116	Introduction to Culinary Arts: Practicum	1
CUL	151	Sustainable Food Systems Practices I	1
CUL	152	Sustainable Food Systems Practices II	1
HOS	110	Principles of Sanitation	3
HOS	123	Food Costing Principles and Application	1
HOS	201	Functions of Management	2

**RELATED INSTRUCTION**

BIOL	103	Nutrition for Food Service Professionals	3
Elective			15
Total Unrestrictive Electives - 15 credits			
See Advising for list of approved courses.			

TOTAL PROGRAM CREDITS	90
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## Culinary Arts: Specialty Desserts & Breads Associate of Applied Science – Transfer Degree (A.A.S.-T)

**Seattle Culinary Academy Hospitality & Culinary Arts Division**

Specialty Desserts & Breads program features comprehensive “hands on” and step-by-step training to prepare students to be professional bakers or pastry chefs.

Learn to create rustic artisan breads and doughs, plated desserts, decorative cakes, and mouthwatering pastries. Explore European specialties such as tarts, mousses, truffles, and petit fours. Discover the fine art of wedding cakes and cake decorating. Learn chocolate work with demonstrations on pulled and blown sugar, intricate decoration, and show-pieces. Classroom theory instruction includes “hands-on” experience in how to serve breads and desserts for two on-campus restaurants and in our pastry shop.

Sustainable practices are integrated throughout the program, especially in food preservation and cheese production courses. Learn the value of buying seasonally and locally storing the bounties of the summer harvest and purchasing milk from local dairies.

The Specialty Desserts & Breads certificate is accredited by the American Culinary Federation Education Foundation’s Accrediting Commission and received exemplary status.

Specialty Desserts & Breads is a five-quarter certificate program. Students may enter the program Fall, Winter or Spring Quarters. The Associate of Applied Science (A.A.S.) degree or Associate of Applied Science - T Degree (A.A.S.-T) can also be earned.

**TECHNICAL SPECIALTY COURSES**

BAK	101	Intro to Desserts & Breads: Theory	4
BAK	102	Bread and Food Preservation	3
BAK	103	Science and Practice of Baking with Chocolate	4
BAK	111	Introduction to Desserts & Breads: Practicum	6
BAK	112	Beginning Desserts and Breads: Practicum	8
BAK	113	Intermediate Desserts and Breads: Practicum	8
BAK	124	Adv. Buffet Desserts/Wedding Cakes/ Preservation	8
BAK	125	Advanced Desserts and Breads: Practicum	8
BAK	126	Advanced Whole Grain Baking Theory	3
BIOL	103	Nutrition for Food Service Professionals	3
CUL	106	Introduction to Culinary Arts: Theory	1.5
CUL	116	Introduction to Culinary Arts: Practicum	1
CUL	120	Introduction to Wine	1
CUL	151	Sustainable Food Systems Practices I	1
CUL	152	Sustainable Food Systems Practices II	1
CUL	153	Sustainable Food Systems Practices III	1
HOS	101	Customer Service Practicum I	1
HOS	102	Customer Service Practicum II	1
HOS	110	Principles of Sanitation	3
HOS	122	Purchasing and Inventory: Theory	1
HOS	123	Food Costing Principles and Application	1
HOS	201	Functions of Management	2
MIC	102	Using Computers I	1

**RELATED INSTRUCTION**

Total of 20 credits from all three related instruction areas

ENGL&	101	English Composition I	5
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**RELATED INSTRUCTION - QUANTITATIVE SKILLS**

College-level Math with MATH 098 prereq.

Choose 1 course listed below:

MATH&	107	MATH in Society	5
MATH&	146	Introduction to Statistics	5

**RELATED INSTRUCTION - SCIENCE, SOCIAL OR HUMAN**

Choose 2 from the following:

ANTH&	206	Cultural Anthropology	5
BIOL&	160	General Biology w/Lab	5
CHEM&	121	Introduction to Chemistry	5
CMST&	101	Introduction to Communication	5
HUM	105	Intercultural Communication	5
NTR	150	Human Nutrition	5
PSYC&	100	General Psychology	5

TOTAL PROGRAM CREDITS	94.5
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## Culinary Arts: Specialty Desserts & Breads Certificate

### Seattle Culinary Academy Hospitality & Culinary Arts Division

Specialty Desserts & Breads program features comprehensive “hands on” and step-by-step training to prepare students to be professional bakers or pastry chefs.

Learn to create rustic artisan breads and doughs, plated desserts, decorative cakes, and mouthwatering pastries. Explore European specialties such as tarts, mousses, truffles, and petit fours. Discover the fine art of wedding cakes and cake decorating. Learn chocolate work with demonstrations on pulled and blown sugar, intricate decoration, and show-pieces. Classroom theory instruction includes “hands-on” experience in how to serve breads and desserts for two on-campus restaurants and in our pastry shop.

Sustainable practices are integrated throughout the program, especially in food preservation and cheese production courses. Learn the value of buying seasonally and locally storing the bounties of the summer harvest and purchasing milk from local dairies.

The Specialty Desserts & Breads certificate is accredited by the American Culinary Federation Education Foundation’s Accrediting Commission and received exemplary status.

Specialty Desserts & Breads is a five-quarter certificate program. Students may enter the program Fall, Winter or Spring Quarters. The Associate of Applied Science (A.A.S.) degree can be earned with the completion of 16 additional elective credits. A cumulative GPA of 2.0 or higher in all core and related instructional courses is required to attain a Culinary Arts Certificate and/or A.A.S. degree.

“ There are so many things that I will remember from my time at Seattle Colleges, but what I will cherish most are the friendships and memories that I have made. From late nights studying to exploring new places and trying new things. I am grateful for the opportunities that Seattle Colleges provided me to grow and learn, and for the people who made the journey so special. ”

– Kiah H.

### TECHNICAL SPECIALTY COURSES

BAK	101	Intro to Desserts & Breads: Theory.....	4
BAK	102	Bread and Food Preservation .....	3
BAK	103	Science and Practice of Baking with Chocolate.....	4
BAK	108	Baking Theory III: Grains and Sugars.....	3
BAK	111	Introduction to Desserts & Breads: Practicum..	6
BAK	112	Beginning Desserts and Breads: Practicum ....	8
BAK	113	Intermediate Desserts and Breads: Practicum..	8
BAK	117	Introduction to Cheese Making .....	1
BAK	118	Bakery Lab II: Advanced Techniques & Leadership.....	8
BAK	127	C.O.D. Capstone .....	1
BAK	130	Confections Lab I: Chocolate and Décor .....	2.5
CUL	106	Introduction to Culinary Arts: Theory.....	1.5
CUL	116	Introduction to Culinary Arts: Practicum.....	1
CUL	151	Sustainable Food Systems Practices I.....	1
CUL	152	Sustainable Food Systems Practices II .....	1
HOS	110	Principles of Sanitation .....	3
HOS	113	Menu Plan / Food Cost Ana .....	2
HOS	123	Food Costing Principles and Application .....	1
HOS	127	Career Planning and Human Resources Management .....	2
HOS	138	Barista Theory I: Operations and Management..	1
HOS	139	Barista Lab I: Practical Applications.....	1
HOS	201	Functions of Management.....	2

### RELATED INSTRUCTION

BIOL	103	Nutrition for Food Service Professionals .....	3
<b>TOTAL PROGRAM CREDITS</b>			<b>75</b>







## EDUCATION AND HUMAN SERVICES

### Applied Behavioral Science Bachelor of Applied Science Degree (B.A.S.)

#### Applied Behavioral Science Department

The Bachelor degree in Applied Behavioral Science creates a continuing educational and professional pathway for students with the Associate of Applied Science degree. It is designed specifically for people in the human services professions such as:

- Social services
- Early childhood education/child welfare
- Chemical dependency counseling
- Family support services
- Public/community health
- Prevention and early intervention
- Interpreting/translation services

With the baccalaureate option, students are able to move from short-term certificates and related degrees to further foundational and specialized coursework, creating access to multiple high demand jobs within many areas of applied behavioral sciences.

#### PREREQUISITES

Meet a minimum GPA requirement of 2.5.

Have completed a two year degree (such as an AAS, AAS-T, ATA, AAA) in Social and Human Services, Child and Family Studies, Interpreter Training, or a related human services degree.

Be eligible for Math 098 (Intermediate Algebra).

#### TECHNICAL SPECIALTY COURSES

ABS	206	Writing in the Human Services	5
ABS	310	Professionalism and Ethical Practice	5
ABS	320	Applied Social Psychology	5
ABS	330	Information Literacy and Program Assessment	5
ABS	340	Applied Environmental Science	5
ABS	350	Quantitative Principles in Research & Assessment	5
ABS	360	Public Policy Analysis	5
ABS	410	Economic-Political Systems: Public Implications	5
ABS	415	Cross-Cultural Competency in Human Services	5
ABS	430	Sociology of Families	5
ABS	495	Senior Capstone Project	5
ABS	497	Advanced Field Placement I	5
ABS	498	Advanced Field Placement II	5

#### GENERAL EDUCATION

Minimum GPA requirement of 2.0

ENGL&	101	English Composition I	5
ENGL&	102	Composition II	5
PSYC&	100	General Psychology	5
SOC&	101	Introduction to Sociology	5
Following can be substituted:			
		PSYC& 200 - Lifespan Psychology	
Lab Science			5
College Level MATH course			5
recommended: MATH& 107, MATH 136, or MATH& 146			

#### HUMAN SERVICES CORE

SHS	100	Introduction to Human Services	5
SHS	103	Social Welfare Policy	5
SHS	106	Principles of Interviewing and Counseling	5
SHS	108	Group Dynamics & Counseling	5
SHS	197	Field Placement: Social and Human Services	3
SHS	198	Field Placement: Social and Human Services	3
SHS	210	Intro to Diversity in Human Services Practice	3

#### ELECTIVES

SHS	121	Introduction to Care Navigation	5
SHS	205	Crisis Intervention and Management	3
SHS	209	Grief and Loss in Social and Human Services	5
SHS	230	Suicide Risk Assessment	3
SHS	235	Drug Addiction and Society	5
SHS	255	Mental Health and Co-Occurring Disorders	5
SHS	270	Ethics in Human Services and Chemical Dependency	3
SHS	280	Chemical Dependency Case Management	3
Elective			18
See Advising for list of approved courses.			

TOTAL PROGRAM CREDITS 180

### Chemical Dependency Specialist Certificate

#### Social & Human Services & Child & Family Studies

The Chemical Dependency Specialist Program provides training for students interested in working with those affected by addiction to alcohol and other drugs. The program meets Washington State educational requirements for Chemical Dependency Professional certification. State requirements include a minimum A.A.S. degree and 45 credits of chemical dependency specific curriculum (WAC 246-811-030). Additional Washington State Department of Health requirements must be satisfied to obtain certification. Consult the division counselor and/or the Washington State Department of Health before enrolling.

Students with a higher level of formal education may also obtain the 45 credits of chemical dependency curriculum through the Chemical Dependency Specialist Program. A Washington State background check may be required for Field Practicum. A 2.0 is required in all Chemical Dependency certificate courses.

**TECHNICAL SPECIALTY COURSES**

SHS 106 Principles of Interviewing and Counseling . . . . 5  
 SHS 108 Group Dynamics & Counseling . . . . . 5  
 This course meets current minimum state requirements for registration as Chemical Dependency Counselors with the Department of Health.

SHS 150 HIV/AIDS Brief Risk Intervention. . . . . 1  
 This course meets current minimum state requirements for registration as Chemical Dependency Counselors with the Department of Health.

SHS 210 Intro to Diversity in Human Services Practice . . 3  
 This course meets current minimum state requirements for registration as Chemical Dependency Counselors with the Department of Health.

SHS 230 Suicide Risk Assessment . . . . . 3  
 SHS 231 Pharmacology of Addictions . . . . . 5  
 This course meets current minimum state requirements for registration as Chemical Dependency Counselors with the Department of Health.

SHS 232 Addiction, Adolescents and Family Systems . . . 5  
 This course meets current minimum state requirements for registration as Chemical Dependency Counselors with the Department of Health.

SHS 233 Chemical Dependency Counseling . . . . . 5  
 This course meets current minimum state requirements for registration as Chemical Dependency Counselors with the Department of Health.

SHS 235 Drug Addiction and Society . . . . . 5  
 This course meets current minimum state requirements for registration as Chemical Dependency Counselors with the Department of Health.

SHS 255 Mental Health and Co-Occuring Disorders . . . . 5  
 SHS 270 Ethics in Human Services and  
 Chemical Dependency . . . . . 3  
 This course meets current minimum state requirements for registration as Chemical Dependency Counselors with the Department of Health.

SHS 280 Chemical Dependency Case Management . . . . 3  
 This course meets current minimum state requirements for registration as Chemical Dependency Counselors with the Department of Health.

**GENERAL EDUCATION COURSES**

PSYC& 200 Lifespan Psychology . . . . . 5  
 TOTAL PROGRAM CREDITS 52

NOTE: Eligibility for graduation requires a minimum 2.0 GPA in all required technical specialty and related instruction courses.

Certification as a Chemical Dependency Professional with Washington State also requires an associate degree or its academic equivalent in any area, and 2,500 clock hours of supervised clinical work.

**Education Associate of Applied Science – Transfer Degree (A.A.S.-T)**

**Health and Human Services Division**

Graduates of the AAS-T in Education will be prepared to enter the education field as a para-educator, while also have the credentials to enroll in a baccalaureate program aimed at teacher certification. Graduates will be culturally responsive, while practicing relationship-centered pedagogy and promoting critical community discourse, system functions and integration points to provide actionable data.

**GENERAL EDUCATION COURSES**

ENGL& 101 English Composition I . . . . . 5  
 ENGL& 102 Composition II . . . . . 5  
 MATH& 107 MATH in Society . . . . . 5  
 Following can be substituted:  
 college level transferable MATH

**VISUAL, LITERARY, AND PERFORMING ARTS (VLPA)**

Visual, Literary, and Performing Arts . . . . . 10  
 Recommended course(s):  
 ART 101 - Introduction to Design (5)  
 and  
 HUM105 - Intercultural Communication (5)  
 CMST& course . . . . . 5  
 Recommended course(s):  
 CMST& 220 - Public Speaking (5)

**INDIVIDUALS, CULTURES AND SOCIETY (ICS)**

AME 201 Diversity and Social Justice . . . . . 5  
 PSYC& 100 General Psychology . . . . . 5  
 SOC 240 Sociology of Education . . . . . 5

**NATURAL WORD (NW)**

Natural World, the . . . . . 10  
 Recommended Course(s):  
 ANTH 275 - Medical Anthropology (5)  
 and  
 ENVS& 101 - Intro to Environmental  
 Science w/Lab (5)  
 Natural World - Lab Science . . . . . 5  
 Recommended Course(s):  
 BIOL& 100 - Survey of Biology w/Lab (5)

**ELECTIVES**

ECED& 160 Curriculum Development . . . . . 5  
 EDUC& 115 Child Development . . . . . 5  
 EDUC& 130 Guiding Behavior . . . . . 3  
 EDUC& 202 Introduction to Education . . . . . 5  
 EDUC& 205 Introduction to Education with  
 Field Experience . . . . . 5  
 HDC 101 Orientation to College Success . . . . . 2  
 Note: AA-DTA/AAS-T suggested path includes  
 1 additional credit of HDC 101 for total of 3 credits

TOTAL PROGRAM CREDITS 90-91

## Housing & Social Services Provider I Short-Term Certificate

### Social & Human Services & Child & Family Studies

This two part, 25 credit stackable certificate program provides basic and foundational concepts and skills to current providers in the housing and social service sector.

#### TECHNICAL SPECIALTY COURSES

ENGL	105	Applied Composition.....	3
HDC	101	Orientation to College Success.....	2
		Credit range: 1 - 3	
		Total required credits: 1 - 2	
SHS	100	Introduction to Human Services .....	5
SHS	101	SHS, Chemical Dependency, and Academics...	2
TOTAL PROGRAM CREDITS			12-13

Can be applied toward an AAS-T in Social and Human Services

## Housing & Social Services Provider II Short-Term Certificate

### Social & Human Services & Child & Family Studies

This two part, 25 credit stackable certificate program provides basic and foundational concepts and skills to current providers in the housing and social service sector.

#### TECHNICAL SPECIALTY COURSES

SHS	103	Social Welfare Policy.....	5
SHS	106	Principles of Interviewing and Counseling.....	5
SHS	210	Intro to Diversity in Human Services Practice ..	3
TOTAL PROGRAM CREDITS			13

Can be applied toward an AAS-T in Social and Human Services

## Housing & Social Services Provider III Short-Term Certificate

### Social & Human Services & Child & Family Studies

This two-part, 25 credit stackable certificate program provides basic and foundational concepts and skills to current providers in the housing and social service sector.

It is designed as a pathway to the Bachelors in Applied Behavioral Sciences program.

#### TECHNICAL SPECIALTY COURSES

SHS	108	Group Dynamics & Counseling.....	5
SHS	230	Suicide Risk Assessment .....	3
SHS	235	Drug Addiction and Society.....	5
TOTAL PROGRAM CREDITS			13

Can be applied toward an AAS-T in Social and Human Services

## Housing & Social Services Provider IV Short-Term Certificate

### Social & Human Services & Child & Family Studies

This two-part, 25 credit stackable certificate program provides basic and foundational concepts and skills to current providers in the housing and social service sector.

It is designed as a pathway to the Bachelors in Applied Behavioral Sciences program.

#### TECHNICAL SPECIALTY COURSES

ABS	206	Writing in the Human Services.....	3
SHS	130	Foundations of Gerontology.....	5
SHS	270	Ethics in Human Services and Chemical Dependency .....	3

TOTAL PROGRAM CREDITS 12

Can be applied toward an AAS-T in Social and Human Services

## Social & Human Services Associate of Applied Science –Transfer Degree (A.A.S.-T)

### Social & Human Services & Child & Family Studies

The six-quarter Social and Human Services AAS-T Degree Program provides education for students who want to enter the helping professions. Students may choose a generalist or chemical dependency track. Students acquire knowledge and skills through an outcomes-based curriculum that supports critical analysis, problem solving, professional development, and experiential learning. In the last third of the program, students enroll in a community-based field practicum completing 330 hours of supervised learning.

#### HUMAN SERVICES CORE

SHS	100	Introduction to Human Services .....	5
SHS	103	Social Welfare Policy.....	5
SHS	106	Principles of Interviewing and Counseling.....	5
SHS	108	Group Dynamics & Counseling.....	5
SHS	121	Introduction to Care Navigation .....	5
SHS	205	Crisis Intervention and Management.....	3
SHS	209	Grief and Loss in Social and Human Services...	5
SHS	210	Intro to Diversity in Human Services Practice ..	3
SHS	230	Suicide Risk Assessment .....	3
SHS	235	Drug Addiction and Society.....	5
SHS	255	Mental Health and Co-Occurring Disorders.....	5
SHS	270	Ethics in Human Services and Chemical Dependency .....	3
SHS	280	Chemical Dependency Case Management .....	3

**GENERAL EDUCATION**

ENGL& 101	English Composition I .....	5
ENGL& 102	Composition II .....	5
MATH& 146	Introduction to Statistics .....	5
Following can be substituted:		
MATH 091 - Descriptive Statistics with Algebra I (5) or		
MATH 092 - Descriptive Statistics with Algebra II (5) or		
MATH 136 - Inferential Statistics (5)		
PSYC& 100	General Psychology .....	5
PSYC& 200	Lifespan Psychology.....	5
Following can be substituted:		
SOC& 101 - Introduction to Sociology (5)		

**FIELD PRACTICUM**

SHS 197	Field Placement: Social and Human Services... 3
SHS 198	Field Placement: Social and Human Services... 3
<b>TOTAL PROGRAM CREDITS</b> 90	

**Social Work (A.A.-DTA)**

This two-year pathway is designed for students who wish to complete an Associate of Arts – Direct Transfer degree with an emphasis in Social Work. Students in this pathway will focus on a mix of sociology and psychology courses. This is a flexible major that will allow students to tailor their course work to their interests.

Completion of this program is designed to prepare students for transferring into a Social Work major at a four-year college or university and satisfy prerequisite requirements for students entering a Social Work major.





## HEALTH AND MEDICAL

### Allied Health Associate of Applied Science – Transfer Degree (A.A.S.-T)

#### Allied Health, Business, Languages & Cultures Division

The Associate of Applied Science degree in Allied Health was conceived as a bridge between a transfer degree and vocational certificates. The degree is designed to prepare students to enter the workplace in an Allied Health career with advanced college level skills in math, science and humanities. Graduates are also eligible to transfer into one of Central's B.A.S. degrees or to another college or university. The goal of this degree is to provide vertical career mobility for students with an Allied Health vocational training certificate or to provide technical skills to those who have general education credits. Those with this degree can enter other Allied Health associate level programs. It provides a link between vocational education and higher education at the baccalaureate level.

Certificate Students (e.g. dental assisting, nursing assistant, medical assistant, and similar programs) will typically have from 30 to 45 credits in a specialty or certificate major. They must have completed Math 107 or 146, Psychology 201, English & 101, basic computer skills, and a competency assessment prior to being accepted into the Allied Health associate program. To complete their associate degree in Allied Health, they must complete college distribution requirements and additional credits. Some of these courses may have prerequisites, so check with an advisor.

Students who do not come from a certificate program, must complete college distribution requirements and choose 30 credits from Allied Health/Global Health electives plus other electives to make up 90 credits. Check with your advisor for appropriate electives from Allied Health, Global Health or B.A.S. courses. A student who chooses a career path in public health may alter the curriculum to suit entrance requirements into the UW School of Public Health.

Note: Degree requires the completion of at least 90 applicable credits, including transferred-in credits, with a minimum cumulative CPA of 2.0.

All courses applied must be numbered 100 or above. Students must have earned a certificate of at least 10 credits from a regionally accredited institution in an allied health field or be enrolled in the respiratory care or dental hygiene programs. At least 15 credits must be earned from Seattle Central College.

#### ALLIED HEALTH COURSES

Up to 60 college credits total may be block transferred from the student's certificate in one or more of the CIP code programs from the approved list. If more than 30 credits are transferred in, the remainder will be used to fulfill the "Related Electives" requirement.

At least 10 college credits in this section must be from a certificate in an allied health field from a regionally accredited institution or the student must be currently enrolled in the dental hygiene or respiratory care programs.

If fewer than 30 college credits are block transferred in, the difference may be made up with credits from the following related courses:

AHE	126	Essential Skills in Healthcare	2
AHE	128	Introduction to Healthcare Practice	4
AHE	129	Introduction to Healthcare Applied Practice	1
AHE	150	HIV/AIDS Education	0.5
AHE	151	Standard Precautions/ First Aid	1
AHE	152	Health Care Provider CPR	1
AHE	165	Medical Terminology I	3
AHE	168	Medical Terminology	5
AHE	209	Introduction to Respiratory Care	2
ANTH	135	Introduction to Environmental Anthropology	5
ANTH	275	Medical Anthropology	5
BIOL	128	Survey of Human Anatomy & Physiology	5
BIOL&	241	Human Anatomy and Physiology 1	5
BIOL&	242	Human Anatomy and Physiology 2	5
CMST	240	Introduction to Health Communication	5
HEA	125	Health and Wellness	5
HEA	150	Health and Human Sexuality	5
HEA	160	Human Wellness and Fitness	5
HEA	225	Global Health	5
HEA	226	Advanced Global Health Seminar	2
HEA	228	Water Gender and Global Health	5
PEC	181	Wellness Management	3
SHS	150	HIV/AIDS Brief Risk Intervention	1
		Respiratory Care (RCP) course	5
		This option is only for those students currently enrolled in the Respiratory Care program.	
		Dental Hygiene (DHY) course	5
		This option is only for those students currently enrolled in the Dental Hygiene program.	

#### GENERAL EDUCATION COURSES

20 credits of specific required courses, plus 10 additional credits chosen from the courses tagged as fulfilling the AA degree "Areas of Knowledge" requirements (VLPA, ICS, or NW) in the online course schedule

ENGL&	101	English Composition I	5
HUM	105	Intercultural Communication	5
		Following can be substituted:	
		CMST 205 – Multicultural Communication (5)	
MATH&	146	Introduction to Statistics	5
		Following can be substituted:	
		MATH 136 – Inferential Statistics (5)	

Visual, Literary, and Performing Arts ..... 5  
 Following can be substituted:  
 Individuals, Cultures and Societies course (5)  
 or Natural World course (5)

Individual, Cultures, and Societies ..... 5  
 Following can be substituted:  
 Natural World course (5) or Visual, Literary,  
 and Performance Arts course (5)

Lab Science ..... 5  
 Lab science course is taken from either Biology (BIOL) or Chem-  
 istry (CHEM) courses.

**RELATED INSTRUCTION**

This section can be fulfilled by any combination of the following:

- Allied Health certificate credits if more than 30 credits were transferred in from the student’s certificate
- up to 15 credits of the following courses listed below with prefix of ACCT or BTM

ACCT& 201	Principles of Accounting I.....	5
ACCT& 202	Principles of Accounting II.....	5
ACCT& 203	Principles of Accounting III.....	5
BTM 108	Applied Business Math I.....	3
BTM 109	Business Communications I.....	5
BTM 118	Applied Business Math II.....	5
BTM 119	Business Communications II.....	5
BTM 120	Customer Relations Management.....	5
BTM 231	Applied Accounting I.....	5
BTM 232	Applied Accounting II.....	5
BTM 233	Applied Accounting III.....	5
BTM 236	Supervision Management.....	5
BTM 237	Human Resource Management.....	5
BTM 245	Business Process Management.....	5
BTM 260	Project Management.....	5
BTM 278	Organizational Behavior.....	5
Respiratory Care (RCP) course.....		5
	This option is only for those students currently enrolled in the Respiratory Care program.	
Dental Hygiene (DHY) course.....		5
	This option is only for those students currently enrolled in the Dental Hygiene program.	
AA degree – Area of Knowledge requirement course.....		30
	Select from any Area of Knowledge; Visual, Literary, and Performing Arts; Individuals, Cultures, and Societies; The Natural World	

Note: No more than 10 credits of studio/performing arts VLPA classes will count toward AAS-T degree

TOTAL PROGRAM CREDITS		90
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## Allied Health: Community Health and Education Bachelor of Applied Science Degree (B.A.S.)

### Allied Health Division

Developed for healthcare professionals with associate degrees, this program can be a great next step. This degree helps to provide a path for a medical assistant, dental assistant, pharmacy technician, dispensing optician, surgical technician, or other allied health professional to advance in his or her career and educational opportunities.

This bachelor degree track opens the door for you to work as a Health Educator or Community Health Professional in a variety of settings, including:

- Nonprofit health organizations
- Government agencies
- Hospitals
- Medical clinics
- Colleges

### PREREQUISITES

An allied health background, demonstrated in one of the following ways:

- A certificate of at least 10 credits in an allied health field from a regionally accredited institution, or
- An AAS-T/AAS degree in an allied health field from a regionally accredited institution, or
- A state-issued credential in an allied health field (valid within the past 5 years), or
- At least 1 year of full-time healthcare work experience (or the equivalent) within the past 5 years

An associate degree from a regionally accredited college or university with at least a 2.5 overall GPA

- Acceptable degrees include the following: AAS-T or AAS degree in an allied health field, AA, AS, AR, BA, or BS degree

Completion of ENGL& 101 with at least a 2.0

Math eligibility demonstrated in one of the following ways:

- Completion of MATH& 146 or another approved statistics class with a grade of at least 2.0 in the past 5 years, or
- Current eligibility for MATH& 146 or MATH 136

### TECHNICAL SPECIALTY COURSES

The following courses must be completed with a grade of at least 2.0:

AHE 330	Information Literacy for Health Sciences.....	5
AHE 401	Principles of Research.....	5
CHED 301	Principles of Community Health.....	5
CHED 310	Health Communication.....	5
CHED 311	Social Determinants of Health.....	5
CHED 312	Health Behavioral Change Theoretical Foundations.....	5

CHEd	322	Program Planning and Evaluation . . . . .	5
CHEd	341	Community Health Needs Assessment & Improvement . . . . .	5
CHEM	476	Community Health and Education Capstone I . . . . .	1
CHEM	477	Community Health and Education Capstone II . . . . .	1
CHEM	478	Community Health and Education Capstone III . . . . .	3

### GENERAL EDUCATION COURSES

The following courses must be completed with a grade of at least 2.0:

ENGL&	101	English Composition I . . . . .	5
ENGL&	102	Composition II . . . . .	5
HUM	105	Intercultural Communication . . . . .	5
Following can be substituted:			
CMST 205 – Multicultural Communication (5)			
MATH&	146	Introduction to Statistics . . . . .	5
Following can be substituted:			
MATH 136 – Inferential Statistics (5) or PSYC 217 – Intro to Probability & Statistics for Psychology (5) or BUS 210 – Business & Economic Statistics (5) or equivalent statistics course			
Lab Science		. . . . .	5
Taken from any BIOL or CHEM courses			
Humanities course . . . . .			5
Visual, Literary, and Performing Arts requirement			
Natural Science course . . . . .			5
The Natural World requirement			
Social Science course . . . . .			10
Individuals, Cultures, and Societies requirement			
Humanities, Social Science or Natural Science course . . . . .			15
Including Math or Computer Science course			

### ELECTIVES

The following courses must all be at the 100-level or above and be completed with a grade of at least 2.0.

Total required elective credits (75) can be a combination of the following:

- Allied Health credits (block if transferred) (0-75)
- Associate degree block transfer credits (if applicable) (0-75)
- Other approved academic electives (0-75)  
No more than 15 credits of studio/performance VLPA credits will count toward the BAS degree
- Other upper-division AHE, CHEM, HSM, or ABS classes (0-75)

TOTAL PROGRAM CREDITS 180

The Community Health and Education BAS degree track can help you meet the requirements to apply to UW School of Medicine's MEDEX Northwest Physicians Assistant training program. For more information, please email [AlliedHealthBAS.Central@seattlecolleges.edu](mailto:AlliedHealthBAS.Central@seattlecolleges.edu).

## Allied Health: Dental Hygiene Bachelor of Applied Science Degree (B.A.S.)

### Allied Health Division

Dental hygienists are an integral part of the dental team in providing patient care. They perform a variety of tasks including cleaning teeth, taking x-rays, administering local anesthetics, placing and contouring dental fillings and educating patients about oral hygiene. Note: The educational environment contains multiple latex products and exposure to potential blood borne pathogens. Current infection control standards are taught in the program.

The Dental Hygiene track is approved by the American Dental Association Commission on Dental Accreditation. Upon graduation, students will qualify to take all national and regional examinations required to be licensed as a Registered Dental Hygienist (RDH) in Washington State. Graduates are eligible to take the Dental Hygiene National Board and all Western Regional Examining Board (WREB) components and apply for a license as a registered dental hygienist.

Students will earn a total of 195 credits during the full-time program, which includes working in the school's dental clinic.

### GENERAL EDUCATION COURSES (AAS-T)

These are prerequisite courses

BIOL&	160	General Biology W/ . . . . .	5
Following can be substituted:			
BIOL& 211 - Cell Biology (5)			
BIOL&	241	Human Anatomy and Physiology 1 . . . . .	5
BIOL&	242	Human Anatomy and Physiology 2 . . . . .	5
BIOL&	260	Microbiology . . . . .	5
CHEM&	121	Introduction to Chemistry . . . . .	5
CHEM&	122	Introduction to Organic Chemistry . . . . .	5
Following can be substituted:			
CHEM&131 - BioChemistry (5)			
ENGL&	101	English Composition I . . . . .	5
ENGL&	102	Composition II . . . . .	5
HUM	105	Intercultural Communication . . . . .	5
MATH&	146	Introduction to Statistics . . . . .	5
NUTR&	101	Nutrition . . . . .	5
PSYC&	100	General Psychology . . . . .	5
Humanities Electives . . . . . 5			

### TECHNICAL SPECIALTY COURSES (AAS-T)

Upon completion of the courses listed below and prerequisite courses (95 credits total), Allied Health Associate of Applied Science-T Degree (A.A.S.-T) can be awarded

AHE	128	Introduction to Healthcare Practice . . . . .	4
AHE	129	Introduction to Healthcare Applied Practice . . . . .	1
DHY	250	Oral Biology . . . . .	2
DHY	251	Human Pathophysiology . . . . .	3
DHY	252	Fundamentals of Dental Hygiene I . . . . .	3
DHY	253	Clinical Dental Hygiene I . . . . .	3
DHY	254	Health Promotion . . . . .	2

DHY	255	Dental Radiology I	2
DHY	256	Dental Radiology I Practice	2
DHY	257	Head and Neck Anatomy	2
DHY	258	Dental Anatomy & Morphology (Didactic)	2
DHY	259	Dental Anatomy & Morphology (Lab)	1
DHY	260	Emergency Management	1
DHY	261	Preventive Dentistry	2

**TECHNICAL SPECIALTY COURSES (BAS)**

The following courses required for Bachelor of Applied Science Degree (B.A.S.):

AHE	401	Principles of Research	5
DHY	300	Clinical Dental Hygiene II	4
DHY	301	Clinical Dental Hygiene III	4
DHY	302	Clinical Dental Hygiene IV	8
DHY	303	Fundamentals of Dental Hygiene II	3
DHY	304	Fundamentals of Dental Hygiene III	2
DHY	305	Fundamentals of Dental Hygiene IV	2
DHY	306	Restorative Practice & Materials I (Didactic)	2
DHY	307	Restorative Practice & Materials I (Lab)	1
DHY	308	Restorative Practice & Materials Theory II	2
DHY	309	Restorative Practice & Materials II	1
DHY	310	Advanced Restorative Practice I	2
DHY	311	Pain Control Anesthesia	2
DHY	312	Pain Control Anesthesia Practice	2
DHY	313	Periodontology I	3
DHY	314	Dental Radiology II	2
DHY	315	Dental Radiology II Practice	1
DHY	318	Oral Pathology	2
DHY	323	Pharmacology	3
DHY	391	Community Dental Health I	1
DHY	400	Advanced Practicum in Dental Hygiene I	8
DHY	401	Advanced Practicum in Dental Hygiene II	8
DHY	402	Advanced Practicum in Dental Hygiene III	8
DHY	404	Principles of Dental Hygiene Practice I	3
DHY	405	Principles of Dental Hygiene Practice II	2
DHY	406	Principles of Dental Hygiene Practice III	1
DHY	407	Strategies of Capstone Project	1
DHY	408	Capstone	1
DHY	409	Ethics and Jurisprudence	2
DHY	410	Advanced Restorative Practice II	2
DHY	411	Advanced Restorative Practice III	2
DHY	412	Advanced Restorative Practice IV	2
DHY	413	Periodontology II	2
DHY	414	Selective Populations	1
DHY	415	Selective Populations Practice	1
DHY	416	Professional Issues	1
DHY	419	Community Dental Health II	2
DHY	420	Community Dental Health III	1
TOTAL PROGRAM CREDITS			195

Total required credits for BAS degree (195) includes prerequisite credits (65 credits total).

Allied Health AAS-T degree awarded at completion of 95 credits (total includes prerequisite credits)

NOTE: Eligibility for graduation requires a 2.5 GPA in Related Instruction courses and Technical Specialty courses.

## Allied Health: Healthcare Service Management Bachelor of Applied Science Degree (B.A.S.)

### Allied Health Division

Are you an experienced healthcare professional with an associate degree interested in healthcare administration? Seattle Central's Bachelor of Applied Science (BAS) in Allied Health – Healthcare Services Management program will help you develop the knowledge and skills needed to advance in this in-demand profession.

With this degree, you will be qualified for positions such as healthcare services manager and healthcare administrator. Additionally, this program will prepare you to play critical roles in planning, coordinating and supervising service delivery in a variety of healthcare settings, including:

- Hospitals
- Medical care facilities
- Nursing homes
- Healthcare organizations
- and other health facilities

### PREREQUISITES

A minimum of one (1) year full-time healthcare work experience (or the equivalent) within the last five (5) years

An associate degree from a regionally accredited college or university with at least a 2.5 overall GPA

- Acceptable degrees include the following: AAS-T or AAS degree in an allied health field or an approved business field, AA, AS, AB, BA, or BS degree

Completion of ENGL& 101 with at least a 2.0

Math eligibility demonstrated in one of the following ways:

- Completion of MATH& 146 or another approved statistics class with a grade of at least 2.0 in the past 5 years, or
- Current eligibility for MATH& 146 or MATH 136

### TECHNICAL SPECIALTY COURSES

The following courses must be completed with a grade of at least 2.0:

ACCT	303	Accounting for Healthcare Management	5
AHE	301	Principles of Healthcare Delivery	5
AHE	330	Information Literacy for Health Sciences	5
AHE	401	Principles of Research	5
AHE	426	Leadership and Team Building/Organizational	5
HSM	322	Human Resources	5
HSM	325	Financial Management in Healthcare	5
HSM	451	Healthcare Outcomes and Quality Management	5
HSM	476	Healthcare Services Management Capstone I	1
HSM	477	Healthcare Services Management Capstone II	1
HSM	478	Healthcare Services Management Capstone III	3



**GENERAL EDUCATION**

The following courses must be completed with a grade of at least 2.0:

ENGL& 101	English Composition I	5
ENGL& 102	Composition II	5
HUM 105	Intercultural Communication	5
	Following can be substituted:	
	CMST 205 – Multicultural Communication (5)	
MATH& 146	Introduction to Statistics	5
	Following can be substituted:	
	MATH 136 – Inferential Statistics (5) or PSYC 217 – Intro to Probability & Statistics for Psychology (5) or BUS 210 – Business & Economic Statistics (5) or equivalent statistics course	
Lab Science	.....	5
	Taken from any BIOL or CHEM courses	
Humanities course	.....	5
	Visual, Literary, and Performing Arts requirement	
Natural Science course	.....	5
	The Natural World requirement	
Social Science course	.....	10
	Individuals, Cultures, and Societies requirement	
Humanities, Social Science, or Natural Science course	.....	15
	Including Math or Computer Science course	

**ELECTIVES**

The following courses must all be at the 100-level or above and be completed with a grade of at least 2.0.

Total required elective credits (75) can be a combination of the following:

- Allied Health credits (block if transferred) (0-75)
- Approved business credits (block if transferred) (0-75)
- Associate degree block transfer credits (if applicable) (0-75)
- Other approved academic electives (0-75)  
No more than 15 credits of studio/performance VLPA credits will count toward the BAS degree
- Other upper-division CHED, AHE, HSM, or ABS classes (0-75)

TOTAL PROGRAM CREDITS 180

**Allied Health: Respiratory Care Bachelor of Applied Science Degree (B.A.S.)**

**Allied Health Division**

Respiratory Care is an allied health specialty in the treatment and management of patients with cardiopulmonary disorders. The seven-quarter program includes the study of the therapeutic use of medical gases, medications, aerosols, lung drainage, ventilatory support, cardiopulmonary resuscitation, airway management, respiratory disease management and diagnostic testing. Under the direction of the physician, the respiratory care practitioner works with other health professionals to deliver effective health care. The program offers an Associate of Applied Science (A.A.S.) degree and is fully accredited by the Committee on Accreditation for Respiratory Care.

Note: Because the A.A.S. degree may not transfer, students wishing to transfer to a four-year institution should take college transfer English and science courses and see an advisor.

Graduates are eligible for licensure as Respiratory Care Practitioners in Washington state, and are also eligible and prepared for the National Board Registered Therapist credentialing exams. The required seven hours of HIV/AIDS education is included. New classes begin Fall Quarter only. For advanced placement consideration, contact the division office for specific requirements.

Note: Program courses are under frequent review to maintain industry relevancy. Please check with division for current program guidelines.

**PREREQUISITES**

Prerequisite credits (60 total) are included in the total credits required for degree

BIOL& 160	General Biology W/ Lab	5
BIOL& 241	Human Anatomy and Physiology 1	5
BIOL& 242	Human Anatomy and Physiology 2	5
BIOL& 260	Microbiology	5
CHEM& 121	Introduction to Chemistry	5
CHEM& 122	Introduction to Organic Chemistry	5
	Following can be substituted:	
	CHEM 131 - Intro to Organic Chemistry and Biochemistry (5)	
ENGL& 101	English Composition I	5
ENGL& 102	Composition II	5
HUM 105	Intercultural Communication	5
	Following can be substituted:	
	CMST 205 Multicultural Communication (5)	
MATH& 146	Introduction to Statistics	5
	Following can be substituted:	
	MATH 136 - Inferential Statistics (5)	
PSYC& 100	General Psychology	5
	Following can be substituted:	
	PSYC&200 - Lifespan Psychology (5)	
Humanities Electives	.....	5
	See Advising Center for approved courses.	

**TECHNICAL SPECIALTY COURSES**

Upon completion of the courses listed below and prerequisites courses (90 credits total), Allied Health Associate of Applied Science-T Degree (A.A.S.-T) can be awarded

AHE 107	Introduction to Healthcare Leadership	3
AHE 128	Introduction to Healthcare Practice	4
AHE 129	Introduction to Healthcare Applied Practice	1
AHE 168	Medical Terminology	5
AHE 202	Respiratory Care Orientation	1
AHE 209	Introduction to Respiratory Care	2
AHE 213	Respiratory Care Clinical Assessment	2
AHE 215	Basic Pharmacology	2
AHE 217	Cardiopulmonary Anatomy and Physiology	5
AHE 218	Basic Therapeutic Approaches	4
AHE 219	Basic Therapeutic Approaches Equipment and Techn	1

**TECHNICAL SPECIALTY COURSES**

The following courses required for Bachelor of Applied Science Degree (B.A.S.):

AHE	330	Information Literacy for Health Sciences.....	5
AHE	401	Principles of Research .....	5
CHED	304	Principles of Higher Education in Allied Health .....	5
RCP	320	Acute Care Clinical I .....	4
RCP	323	Pathophysiology for Respiratory Care .....	2
RCP	328	Advanced Therapeutic Approaches .....	4
RCP	329	Advanced Therapeutic Approaches Equipment and Techniques .....	1
RCP	330	Acute Care Clinical II .....	5
RCP	338	Fundamentals of Mechanical .....	4
RCP	339	Mechanical Ventilation Equipment and Techniques .....	1
RCP	340	Adult Critical Care Clinical I .....	4
RCP	347	Cardiology for Respiratory Care .....	2
RCP	348	Advanced Mechanical Ventilation.....	2
RCP	349	Adv Mechanical Ventilation Equipment and Technique .....	1
RCP	450	Adult Critical Care Clinical II .....	6
RCP	451	Neonatal/Pediatric Pathophysiology .....	2
RCP	455	Advanced Pharmacology (Respiratory Care) ...	2
RCP	458	Neonatal/Pediatric Respiratory Care.....	4
RCP	459	Neonatal/Pediatric Equipment and Techniques .....	1
RCP	460	Neonatal/Pediatric Clinical.....	6
RCP	463	Advanced Pathophysiology for Respiratory Care.....	2
RCP	464	Pulmonary Rehabilitation and Home Care .....	2
RCP	467	Advanced Cardiopulmonary Physiology.....	2
RCP	468	Adv Cardiopulmonary Diagnostics .....	3
RCP	469	Diagnostic Equipment and Techniques.....	1
RCP	470	Adult Critical Care Clinical III .....	6
RCP	472	Advanced Practitioner Exam Review .....	1
RCP	476	Advanced Patient Assessment .....	3
RCP	479	Senior Capstone Project .....	4
TOTAL PROGRAM CREDITS			180

Total required credits for BAS degree (180 credits) includes prerequisite credits (60 credits total).

(Allied Health AAS-T degree awarded at completion of 90 credits – includes prerequisite credits)

Note: Eligibility for graduation requires a minimum 2.0 GPA in all technical specialty and related instruction courses, including prerequisite courses.

The Respiratory Care BAS degree track can help you meet the requirements to apply to UW School of Medicine's MEDEX Northwest Physicians Assistant training program. For more information, please email AlliedHealthBAS.Central@seattlecolleges.edu.

## Care Navigation and Coordination Short-Term Certificate

The Care Navigation and Coordination program is designed to prepare students to assist clients and patients in navigating the social services and healthcare systems, and to be strong members of teams providing coordinated, client and patient-centered care. Students will learn about factors affecting patients such as chronic disease, behavioral health, wellness and patient activation and engagement as well as communication strategies such as patient/client coaching, motivational interviewing, and health literacy.

**TECHNICAL SPECIALTY COURSES**

SHS	121	Introduction to Care Navigation .....	5
SHS	122	Care Navigation: Systems of Care.....	5
TOTAL PROGRAM CREDITS			10

## Dental Assistant Certificate

**Allied Health**

The Dental Assistant Certificate of Completion program has been granted full accreditation by the American Dental Association. This program prepares students for entry level employment within the dental industry. Students are taught chairside dental assisting through lecture, hands-on experience and 275 hours of mandatory clinical experience in the workplace.

Coursework includes anatomy and physiology, medical terminology, clinical procedures, and specialty dental courses that prepare the student for employment following completion of the program.

**TECHNICAL SPECIALTY COURSES**

AHE	126	Essential Skills in Healthcare .....	2
DAST	110	Introduction to Dental Assisting .....	1
DAST	111	Foundations of Dental Assisting .....	6
DAST	112	Pre-Clinical Chairside Assisting.....	4
DAST	113	Dental Practice Management .....	1
DAST	114	Preventive Dentistry.....	2
DAST	121	Fundamentals of Chairside Procedures I.....	4
DAST	122	Clinical Chairside Procedures I .....	7
DAST	123	Dental Assisting Law and Ethics.....	2
DAST	124	Fundamentals of Dental Imaging .....	2
DAST	125	Dental Imaging Laboratory .....	2
DAST	131	Fundamentals of Chairside Procedures II .....	3
DAST	132	Clinical Chairside Procedures II.....	10
DAST	133	Professional Preparations.....	2
DAST	140	Experiential Dental Assisting.....	12
TOTAL PROGRAM CREDITS			60

## Expanded Function Dental Auxiliary Short-Term Certificate

### Allied Health Division

The Expanded Function Dental Auxiliary (EFDA) are used primarily in Community Health Clinics to increase the delivery of restorations, allowing dentists to increase their productivity in delivering these services to the community. Currently, registered dental hygiene practitioners are licensed to perform these restorative duties; however, they are underutilized in this capacity because traditional periodontal care is in high demand. Only about 30% of registered dental hygienists are performing restorative functions.

#### TECHNICAL SPECIALTY COURSES

EFDA	100	Procedures I.....	1
EFDA	101	Restorative Lab I.....	3
EFDA	110	Dental Coronal Anatomy.....	2
EFDA	111	Dental Materials and Technique.....	2
EFDA	200	Procedures II.....	1
EFDA	201	Restorative Clinic II.....	4
EFDA	202	WRED Preparation.....	1
EFDA	212	Ethics and Jurisprudence.....	1
TOTAL PROGRAM CREDITS			15

## Leadership in Healthcare Short-Term Certificate

### Health and Human Services Division

This 10-credit certificate introduces students to the major concepts of leadership in healthcare organizations.

#### TECHNICAL SPECIALTY COURSES

AHE	426	Leadership and Team Building/Organizational..	5
HSM	322	Human Resources.....	5
TOTAL PROGRAM CREDITS			10

## Medical Assisting Certificate

### Allied Health

Medical Assistants are allied health professionals who perform a wide range of roles in physicians' offices, clinics and other health care settings. They are proficient in many clinical and administrative tasks and are vital members of the health care delivery team. The Medical Assistant Certificate of Completion program teaches the business and clinical skills to become a Medical Assistant. This fully accredited program provides the mechanism for graduates to take the National Board Examination to become a nationally Certified Medical Assistant. Emphasis is on both front and back office.

Front office skills include patient relations, medical insurance, finances, coding, anatomy and physiology, medical terminology, interpersonal communication skills, administrative procedures, skill development in computer usage and transcription. Back office skills include clinical skills such as medical and surgical asepsis, charting, patient prep, procedure set-ups, prioritizing, medication calculation and administration, EKG, diagnostic imaging theory, and lab skills such as hematology, urinalysis, basic microbiology and phlebotomy.

The program is accredited by the Commission on Accreditation of Allied Health Education Programs (caahep.org) on recommendation of the Curriculum Review Board of the American Association of Medical Assistants Endowments (AAMAE).

#### TECHNICAL SPECIALTY COURSES

CMA	101	Introduction to Medical Assisting.....	5
CMA	102	Fundamentals of Administrative Medical Assisting.....	4
CMA	103	Fundamentals of Clinical Medical Assisting....	8
CMA	104	Billing and Coding Procedures.....	5
CMA	105	Phlebotomy and Laboratory Procedures.....	8
CMA	106	Administrative and Clinical Practice/Review...	7
CMA	107	Medication Administration & Pharmacology...	8
CMA	108	Medical Assisting Practicum.....	12
TOTAL PROGRAM CREDITS			57

## Medical Assisting Apprenticeship Certificate

### Allied Health

The MA Certificate is a collection of courses that consist of the Related Supplemental Instruction of the Medical Assisting Apprenticeship.

#### TECHNICAL SPECIALTY COURSES

CMAA	131	Introduction to Medical Assisting.....	3
CMAA	132	Fundamentals of Administrative Medical Assisting.....	2
CMAA	133	Clinic Medical Assisting.....	2
CMAA	134	Billing and Coding Procedures.....	2
CMAA	135	Laboratory Procedures.....	4
CMAA	136	Administrative and Clinic Practice Review....	3
CMAA	137	Pharmacology.....	4
TOTAL PROGRAM CREDITS			21

## Nursing: Nursing Assistant Short-Term Certificate

### Health and Human Services Division

This course provides instruction and hands on experience in basic nursing care skills including First Aid, CPR, and HIV/AIDS and supervised clinical training in a long-term care facility. Instruction will also be provided in student success and career transition skills. After successful completion of the Nursing Assistant Program, students are eligible to sit for the State of Washington NAC exam for certification as a Nurse Assistant.

#### TECHNICAL SPECIALTY COURSES

AHE 111	Nursing Assistant Certified.....	12
<b>TOTAL PROGRAM CREDITS</b>		<b>12</b>

## Nursing: R.N. Associate Degree Associate of Applied Science –Transfer Degree (A.A.S.-T)

### Nursing

The associate degree nursing program prepares students to become Registered Nurses. It is approved by the Washington State Board of Nursing and accredited by the National League for Nursing Accrediting Commission. The program includes general education courses, nursing theory, lab and clinical practice. New students are accepted into the six-quarter program each fall. See website for application deadlines and admission procedures. Graduates are awarded an Associate of Applied Science-T (A.A.S.-T) degree and are eligible to take the National Council of State Boards of Nursing Examination NCLEX-RN and apply for a license as a registered nurse in Washington State.

Any required non-nursing course may be completed before entering the nursing program. For more information, contact the division office.

#### PREREQUISITES

It is strongly suggested students complete related instruction support courses prior to entrance to the program. If not, the courses must be completed in the quarter or sequence listed.

Note: A 2.5 GPA is required in each nursing, science and related instruction course in the program.

Must be eligible for MATH&107 – Math in Society.

BIOL& 241	Human Anatomy and Physiology 1.....	5
BIOL& 241 and 242 MUST be taken within 3 years prior to entrance to the program.		
BIOL& 242	Human Anatomy and Physiology 2.....	5
BIOL& 241 and 242 MUST be taken within 3 years prior to entrance to the program.		

BIOL& 260	Microbiology.....	5
CHEM& 121	Introduction to Chemistry.....	5

Following can be substituted:

One year of high school Chemistry in the last 3 years

ENGL& 101	English Composition I.....	5
PSYC& 100	General Psychology.....	5

#### ADVANCED PLACEMENT

Students who have taken nursing education courses within the past three years and who meet the prerequisite and grade requirements stated above may be considered for advanced placement. After evaluation of transcripts, advanced placement students will be accepted on a first-come, first-served, space-available basis.

Washington State Licensed Practical Nurses who have satisfied the prerequisites and first-year support courses may enter the second year of the nursing program after successful completion of the one-quarter transition courses, NUR 106 (LPN-RN Transition) and NUR 120 (LPN-RN Transition: Assessments & Intervention).

Note: Eligibility for graduation requires a minimum 2.5 GPA in all required technical specialty and related instruction courses.

#### TECHNICAL SPECIALTY COURSES

NUR 101	Nursing I: Fundamentals of Nursing.....	5
NUR 102	Nursing II: Medical Surgical Nursing.....	3
NUR 103	Nursing III: Medical Surgical Nursing.....	4
NUR 111	Nursing Practice I.....	3
NUR 112	Nursing Practice II.....	3
NUR 113	Nursing Practice III.....	4
NUR 122	Psychosocial Nursing I.....	2
NUR 123	Pharmacology for Nursing.....	4
NUR 185	Gerontology for Nurses.....	2
NUR 201	Nursing IVA: Psychosocial Nursing II.....	2
NUR 206	Nursing IVB: Medical Surgical Nursing.....	3
NUR 207	Nursing V: Medical Surgical Nursing.....	4
NUR 208	Nursing VI: Developing Family Nursing.....	6
NUR 211	Nursing Practice IVA.....	3
NUR 216	Nursing Practice IVB.....	3
NUR 217	Nursing Practice V.....	5
NUR 218	Nursing Practice VI.....	3
NUR 220	Health Promotions and Managing Care.....	2
NUR 230	Transition to Professional Nursing Role.....	2

#### GENERAL EDUCATION NURSING SUPPORT COURSES

MATH& 107	Math in Society.....	5
NTR 150	Human Nutrition.....	5
PSYC& 200	Lifespan Psychology.....	5

<b>TOTAL PROGRAM CREDITS</b>		<b>108</b>
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## Nutrition Science (A.A.-DTA)

This two-year pathway is designed for students who wish to complete an Associate of Arts - Direct Transfer Agreement degree with a concentration in Nutrition Science. Students in this program will study how nutrients and food components influence growth, metabolism, health, disease and includes human behavior as it relates to food choices.

This program prepares graduates for entry-level positions in traditional health settings such as hospitals, private medical offices, and public health agencies, as well as integrative health and wellness organizations and companies. It can also prepare graduates to transfer at the junior level into a food science, nutrition science, or related program at a four-year college or university.

## Public Health–Global Health (A.A.)

This two-year program is designed for students who wish to complete an Associate of Arts degree with an emphasis on Public Health. Students in this program will study methods of preserving health on a large scale through education, prevention, and community initiatives that range from local to global. Completion of this program prepares students to transfer to a public health, health administration, or a related field at a four-year college or university, as well as opening doors to careers that concentrate on human health, illnesses, disease prevention and the environment.

## Sterile Processing Short-Term Certificate

### Allied Health Division

With this certification, you will be qualified to become a certified Central Supply & Instrument Technician. Medical staff depend on Central Supply & Instrument Technicians to provide them with the correct tools in order to administer the highest levels of patient care. They work in hospitals and clinics, sterilizing and packaging surgical instruments and maintaining supply inventories.

Prereq: Permission.

### TECHNICAL SPECIALTY COURSES

AHE	140	Central Supply/Instrument Technician	10
AHE	152	Health Care Provider CPR	1
SPS	141	Sterile Processing Services 141	9
TOTAL PROGRAM CREDITS			20

## Surgical Technology Associate of Applied Science–Transfer Degree (A.A.S.-T)

### Allied Health, Business, Languages & Cultures Division

This three-quarter program prepares students to share in the responsibility of the operating room team in the care of the patient requiring surgery. A surgical technologist is an allied health professional who works closely with surgeons, anesthesiologists, registered nurses and other surgical personnel delivering health care and assuming appropriate responsibilities before, during and after surgery. The technologist is at all times under the supervision of the physician and/or registered nurse.

Instruction covers the basic sciences, anatomy and physiology, medical terminology, surgical functions in the operating room, surgical instrumentation and equipment, and aseptic techniques. The program is nationally accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). Clinical practice takes place in various health care facilities throughout Washington state. Graduation requirements include a minimum 2.0 GPA in each surgical technology course and related instruction and must be completed in the designated quarter to proceed to the next quarter. Entry is during the Fall Quarter only. Surgical Technology also offers a short-term certificate: Central Supply Instrument Technician.

### PROGRAM ENTRANCE REQUIREMENTS

High School Diploma or GED equivalent in the U.S.

Eligibility for Math 085

All prerequisites must be completed with a 2.5 GPA for each course before a student can enter the program or be placed on the waiting list. Entrance into the program or waiting list is on a first come first served basis.

### TECHNICAL SPECIALTY COURSES

AHE	140	Central Supply/Instrument Technician	10
AHE	152	Health Care Provider CPR	1
SURG	111	Surgical Lab	6
SURG	113	Surgical Theory I	10
SURG	115	Clinical Orientation	2
SURG	121	Surgical Specialty/Professional Prep	6
SURG	123	Surgical Theory II	8
SURG	125	Clinical Practice I	4
SURG	133	Surgical Theory III	8
SURG	135	Clinical Practice II	10

### GENERAL EDUCATION COURSES

AHE	168	Medical Terminology	5
BIOL	128	Survey of Human Anatomy & Physiology	5
ENGL&	101	English Composition I	5
HUM	105	Intercultural Communication	5
MATH&	146	Introduction to Statistics	5
PHYS&	100	Physics for Non-Science Majors	5

Following can be substituted:

PHYS&200- Lifespan Psychology

TOTAL PROGRAM CREDITS

95

## Surgical Technology Certificate

### Allied Health, Business, Languages & Cultures Division

This three-quarter program prepares students to share in the responsibility of the operating room team in the care of the patient requiring surgery. A surgical technologist is an allied health professional who works closely with surgeons, anesthesiologists, registered nurses and other surgical personnel delivering health care and assuming appropriate responsibilities before, during and after surgery. The technologist is at all times under the supervision of the physician and/or registered nurse.

Instruction covers the basic sciences, anatomy and physiology, medical terminology, surgical functions in the operating room, surgical instrumentation and equipment, and aseptic techniques. The program is nationally accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). Clinical practice takes place in various health care facilities throughout Washington state. Graduation requirements include a minimum 2.0 GPA in each surgical technology course and related instruction and must be completed in the designated quarter to proceed to the next quarter. Entry is during the Fall Quarter only. Surgical Technology also offers a short-term certificate: Central Supply Instrument Technician.

### PROGRAM ENTRANCE REQUIREMENTS

High School Diploma or GED equivalent in the U.S.

Eligibility for MATH 085

All prerequisites must be completed with a 2.5 GPA for each course before a student can enter the program or be placed on the waiting list. Entrance into the program or waiting list is on a first come first served basis.

### TECHNICAL SPECIALTY COURSES

AHE	140	Central Supply/Instrument Technician	10
AHE	152	Health Care Provider CPR	1
SURG	111	Surgical Lab	6
SURG	113	Surgical Theory I	10
SURG	115	Clinical Orientation	2
SURG	121	Surgical Specialty/Professional Prep	6
SURG	123	Surgical Theory II	8
SURG	125	Clinical Practice I	4
SURG	133	Surgical Theory III	8
SURG	135	Clinical Practice II	10

### GENERAL EDUCATION COURSES

AHE	168	Medical Terminology	5
Students intending on earning the AAS Degree must take AHE 168.			
BIOL	128	Survey of Human Anatomy & Physiology	5
ENGL&	101	English Composition I	5
PSYC&	100	General Psychology	5
Following can be substituted: PSYC& 200 - Lifespan Psychology (5)			

TOTAL PROGRAM CREDITS

85





## SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH

### Aerospace Engineering A.S. Transfer, Track 2

This pathway is designed for students who wish to complete an Associate of Science - Track 2 degree with a concentration in Engineering. Students in this program will study the application of mathematics, science, and practical experience to invent, innovate, design, build, maintain, research, and improve products that impact people's lives. This program provides options to study engineering applications across many fields, such as astronautical and aeronautical engineering, with courses in the natural sciences, computer science, math, engineering and more.

Completion of this program prepares students to transfer at the junior level to an engineering or related field of study at a four-year college or university, as well as opening doors to a wide variety of engineering-related careers.

### Bio/Chemical Engineering A.S. Transfer, Track 2

This pathway is designed for students who wish to complete an Associate of Science - Track 2 degree with a concentration in Engineering. Students in this program will study the application of mathematics, science, and practical experience to invent, innovate, design, build, maintain, research, and improve products that impact people's lives. This program provides options to study engineering applications across many fields, with courses in the natural sciences, computer science, math, engineering and more.

Completion of this program prepares students to transfer at the junior level to an engineering or related field of study at a four-year college or university, as well as opening doors to a wide variety of engineering-related careers.



### Biology (A.S. Track 1)

This two-year pathway is designed for students who wish to complete an Associate of Science - Track 1 degree with a concentration in Biology. Students in this pathway develop skills in applying and communicating fundamental concepts/principles of biology to one's daily life, demonstrating the process of scientific inquiry, and solving problems analytically.

Completion of this program opens doors to a variety of careers in sectors including research, healthcare, education, non-profit, technology and government. It also allows you to transfer at the junior level into a biology program such as Botany, Zoology, Microbiology, Genetics, Marine Biology, Environmental Science, or a related field at a four-year college or university, or to a Bachelor of Applied Science (BAS) at one of the Seattle Colleges.

### Chemistry (A.S. Track 1)

This two-year pathway is designed for students who wish to complete an Associate of Science - Track 1 with a concentration in Chemistry. Students in this pathway learn about matter and energy down to the molecular level. Courses build a solid foundation in general chemistry and develop students' understanding of the scientific method of experimentation, observation, and analysis of results. Students will also gain hands-on experience in the lab.

Completion of this program opens doors to a variety of academic, industry, and medical careers in research & development, manufacturing, and more across the public and private sectors. It also allows students to transfer into a chemistry or related major at a four-year college or university, or to a Bachelor of Applied Science (BAS) at one of the Seattle Colleges.

### CISCO Certified Network Professional (CCNP) Short-Term Certificate

#### Business, Information Technologies & Creative Arts Division

Students work through the CISCO CCNP curriculum to earn a college certificate and be CISCO certification ready. Applying CISCO coursework to industry, this certificate validates the ability to plan, implement, and verify local and wide-area enterprise networks. This foundational CCNP curriculum prepares administrators for additional variants that support advanced troubleshooting, provisioning for the cloud, advanced security, and voice, wireless and video solutions. The CCNP Routing and Switching certification is appropriate for those with a CCNA and/or a year of networking experience.

Program Certificate Outcomes:

- Plan and manage multiple projects, both individually and as a team member
- Explain and implement network industry standards such as: the OSI model; Routing protocols, Address Resolution, and Reverse Address Resolution Protocols; IP Addresses and Sub netting; and MAC addressing
- Apply industry standard techniques for troubleshooting, collecting, analyzing, and optimizing data within an enterprise network infrastructure.

**TECHNICAL SPECIALTY COURSES**

NTI	340	Software Defined Networking 1.....	5
NTI	350	Software Defined Networking 2.....	5
NTI	360	Software Defined Networking 3.....	5
<b>TOTAL PROGRAM CREDITS</b>			<b>15</b>

**CISCO Specialist II Short-Term Certificate**

**Information Technology Programs**

A short term, intensive CISCO Certified Network Administrator (CCNA or ICND 2) certificate in network infrastructure, Linux Administration and Network Security skills for entry level workers or established workers seeking updated skills

**PREREQUISITES**

Must meet all college requirements and Eligibility for ENG 101 and MAT 081. Prerequisites completed with minimum 2.0 or better GPA in each course and completion of CISCO Specialist I Short Term Certificate with 2.0 or better or related CompTIA certification and prior work experience.

ENGL&	101	English Composition I.....	5
ITC	140	Introduction to Computer Hardware.....	5
MATH	084	Algebra I.....	5
NET	120	Network Essentials – Comptia Network +.....	5

**TECHNICAL SPECIALTY COURSES**

ITC	151	Introduction to Security for Computing.....	5
ITC	299	Independent Study.....	5
NET	138	UNIX for Network Administration.....	5
NET	146	Network Management – CISCO III.....	5
<b>TOTAL PROGRAM CREDITS</b>			<b>16-18</b>

**Civil & Environmental Engineering  
A.S. Transfer, Track 2 (PHST2AS)**

This pathway is designed for students who wish to complete an Associate of Science - Track 2 degree with a concentration in Engineering. Students in this program will study the application of mathematics, science, and practical experience to invent, innovate, design, build, maintain, research, and improve products that impact people’s lives. This program provides options to study engineering applications across many fields, with courses in the natural sciences, computer science, math, engineering and more.

Completion of this program prepares students to transfer at the junior level to an engineering or related field of study at a four-year college or university, as well as opening doors to a wide variety of engineering-related careers.

**Cloud Specialist Short-Term Certificate**

**Business, Information Technologies & Creative Arts Division**

This certificate is designed to provide core knowledge in Internet (cloud) technologies. Four areas of emphasis include: Solution architectures, risk and governance, mobility and applications, and service management. Cloud computing at Seattle Central focuses on new Internet-only business models and the re-ordering of traditional client server local area networking technologies in a highly distributed, mobile world. Entry into the certificate requires Linux and Windows experience. The Enterprise Virtualization and Cloud Management Capstone course requires the highest skill set.

Program Certificate Outcomes:

- Plan and manage multiple projects, both individually and as a team member
- Assess, develop, and maintain network security systems using ethical best practices and standardized tools.
- Design, implement, and manage hybrid-distributed environments.

**TECHNICAL SPECIALTY COURSES**

NTI	430	Big Data and Collaboration Management.....	5
NTI	440	Devops and Enterprise Admin for the Cloud (Sre).....	5
NTI	460	Devops Practicum, BAS IT Networking.....	5
<b>TOTAL PROGRAM CREDITS</b>			<b>15</b>

**Computer Science (A.S.Track 2)**

This two-year pathway is designed for students who wish to complete an Associate of Science - Track 2 degree with a concentration in Computer Science. The pathway focuses on the study of theory, experimentation, and engineering that form the basis for the design and use of computers. Students will study a variety of subjects including programming languages, such as Python and Java, software programming, developing new software applications, and network and systems administration.

Completion of this program prepares students to transfer at the junior level to a Computer Science or related field at a four-year college or university, as well as opening doors to a variety of careers such as software engineering, web design, computer programming and more.



## Earth Sciences (A.S.Track 1)

This two-year pathway is designed for students who wish to complete an Associate of Science - Track 2 degree with a concentration on Earth Sciences. Earth sciences is the study of the solid Earth, its waters, and the air that envelops it. Included are the geologic, hydrologic, and atmospheric sciences. The Associate of Science with a concentration in Earth Sciences enables students to obtain a broad understanding of earth sciences as a background for interests such as science journalism, environmental law, science education, and environmental policy.

Completion of this program prepares students to transfer at the junior level to an Earth Sciences or related field of study at a four-year college or university, as well as opening doors to a wide variety of related careers.

## Electrical Engineering A.S. Transfer, Track 2 (PHST2AS)

This pathway is designed for students who wish to complete an Associate of Science - Track 2 degree with a concentration in Engineering. Students in this program will study the application of mathematics, science, and practical experience to invent, innovate, design, build, maintain, research, and improve products that impact people's lives. This program provides options to study engineering applications across many fields, with courses in the natural sciences, computer science, math, engineering and more.

Completion of this program prepares students to transfer at the junior level to an engineering or related field of study at a four-year college or university, as well as opening doors to a wide variety of engineering-related careers.

## Environmental Health (A.S.Track 1)

This program is designed for students who wish to complete an Associate of Science - Track 1 degree with a concentration in Environmental Health. It also allows students to transfer at the junior level into an Environmental Science program at a four-year college or university or complete a Bachelor of Applied Science (BAS) from a Washington state community college.

This versatile STEM degree paves the way for careers with highly competitive salaries. Many graduates go directly to work, starting careers as environmental health specialists, workplace safety managers, public health consultants and policy advisers.

Completion of this program prepares students to transfer at the junior level to an Environmental Health program at a four-year college or university, as well as opening doors to a wide variety of related careers.

## Environmental Science (A.S.Track 1)

This two-year pathway is designed for students who wish to complete an Associate of Science - Track 1 degree with a concentration in Environmental Science. Students in this program develop interdisciplinary skills related to the environment and will incorporate fundamental concepts and principles of environmental science into daily life. Students will utilize the process of scientific inquiry, apply awareness of current affairs to environmental issues, and solve problems using critical thinking.

Completion of this program opens doors to a variety of careers in sectors including research, education, health and safety, non-profit, sustainable development, sustainable business, technology, and government. It also allows students to transfer at the junior level into an Environmental Science program at a four-year college or university or complete a Bachelor of Applied Science (BAS) from a Washington state community college.

## Environmental Studies (A.S.Track 1)

This two-year pathway is designed for students who wish to complete an Associate of Science - Track 1 degree with a concentration in Environmental Studies. Environmental studies students receive a foundation in the natural sciences but focus more of their studies on the social sciences, policy studies, environmental design, and the humanities. This program provides a broadly integrated understanding that includes, among others, the business, economic, social, and political facets of environmental challenges with a focus on policy, law, and sociality aspect of these challenges.

Completion of this program prepares students to transfer at the junior level to an environmental studies program or related field at a four-year college or university. This program also prepares students for careers in the non-profit sector, government agencies, environmental planning, sustainability advising, green business, environmental education, environmental journalism, and related areas.

## Geology (A.S.-Track 1)

This two-year pathway is designed for students who wish to complete an Associate of Science - Track 1 degree with a concentration on Geology. Students in this program will learn about earth processes, plate tectonics, and the origin and evolution of the earth. This pathway will provide students with a foundation of Geology, Mathematics, Environmental Science, and Physics.

Completion of this program prepares students to transfer at the junior level to a Geology or related field of study at a four-year college or university, as well as opening doors to a wide variety of related careers.

## Industrial Engineering / Material Science A.S. Transfer, Track 2 (PHST2AS)

This pathway is designed for students who wish to complete an Associate of Science - Track 2 degree with a concentration in Industrial Engineering / Material Science. Students in this program will study the application of mathematics, science, and practical experience to invent, innovate, design, build, maintain, research, and improve products that impact people's lives. This program provides options to study engineering applications across many fields, with courses in the natural sciences, computer science, math, engineering and more.

Completion of this program prepares students to transfer at the junior level to an engineering or related field of study at a four-year college or university, as well as opening doors to a wide variety of engineering-related careers.

## Information Technology: Application Development Certificate

### Information Technology Programs

#### TECHNICAL SPECIALTY COURSES

BTM	100	Orientation and Career Exploration	2
BTM	112	Business Applications II – Data Analysis w/Excel	5
BTM	119	Business Communications II	5
BTM	197	Work Experience: Business Technology Management	5
BTM	260	Project Management	5
IT	115	Intro to Software Development & Version Control	5
IT	116	Programming and Web Page Concepts	5
IT	120	Database Development	5
IT	121	JavaScript 1	5
IT	122	JavaScript 2	5
IT	211	Object Oriented Programming with JAVA	5
IT	289	Web Career Strategies	2

TOTAL PROGRAM CREDITS 54

## Information Technology: CISCO Specialist I Certificate

### Information Technology Programs

The Information Technology three- to seven-quarter certificate and Associate of Applied Science-T degree (A.A.S.-T) programs prepare students for an industry with a growing need for skilled technicians. IT offers certificates and/or degrees in six areas: Applications Support, Database Administration and Development, Mobile Product Development, Network Design and Administration, Programming, Web Design, and Web Development.

Graduates can expect to find employment as help desk analysts, programmers, web designers and developers, software support specialists, application developers, network designers and administrators, database designers and administrators and IT security specialists. Short-term certificates or industry certifications are offered in Computer Support Technician, CISCO Specialist I, II, III, Microsoft Specialist I, II, III, and Mobile Product Development.

#### PREREQUISITES

Each course listed below be completed with a 2.0 GPA or better.

ENGL&	101	English Composition I	5
IT	130	Network Essentials	5
IT	141	Intro to Hardware Comptia A+	5
MATH	084	Algebra I	5

#### TECHNICAL SPECIALTY COURSES

BUS	140	Customer Relations	5
IT	231	Linux Operating System	5
IT	241	CISCO 1	5
IT	242	CISCO 2	5

TOTAL PROGRAM CREDITS 20

## Information Technology: Computer Network Support Certificate

### Information Technology Programs

#### TECHNICAL SPECIALTY COURSES

BTM	100	Orientation and Career Exploration	2
BTM	112	Business Applications II – Data Analysis w/Excel	5
BTM	113	Business Applications III	5
BTM	119	Business Communications II	5
BTM	197	Work Experience: Business Technology Management	5
BTM	260	Project Management	5
BTM	275	Computer User Support	5
IT	130	Network Essentials	5
IT	141	Intro to Hardware Comptia A+	5
IT	142	Introduction to Operating Systems	5

TOTAL PROGRAM CREDITS 47

## Information Technology: Data Analytics and Database Certificate

### Information Technology Programs

The Information Technology three- to seven-quarter certificate and Associate of Applied Science-T degree (A.A.S.-T) programs prepare students for an industry with a growing need for skilled technicians. IT offers certificates and/or degrees in six areas: Applications Support, Database Administration and Development, Mobile Product Development, Network Design and Administration, Programming, Web Design, and Web Development.

Graduates can expect to find employment as help desk analysts, programmers, web designers and developers, software support specialists, application developers, network designers and administrators, database designers and administrators and IT security specialists. Short-term certificates or industry certifications are offered in Computer Support Technician, CISCO Specialist I, II, III, Microsoft Specialist I, II, III, and Mobile Product Development.

#### PREREQUISITES

Eligibility for ENGL& 101 and College Math

Students must maintain a 2.0 grade or higher in all coursework.

#### TECHNICAL SPECIALTY COURSES

BTM	112	Business Applications II -Data Analysis w/Excel . . . . .	5
BTM	113	Business Applications III . . . . .	5
IT	100	Information Technology Fundamentals . . . . .	5
IT	111	Programming Fundamentals . . . . .	5
IT	112	Web Programming with Python. . . . .	5
IT	120	Database Development . . . . .	5
IT	125	Intro to Data Analytics . . . . .	5
IT	161	Web Authoring 1 . . . . .	5
IT	221	SQL. . . . .	5
IT	222	Designing Database Solutions . . . . .	5
IT	228	Capstone Project . . . . .	5

#### RELATED INSTRUCTION

IT	229	Software Development Career Strategies. . . . .	2
		Following can be substituted:	
		IT 289 - Web Career Strategies (2)	
MATH&	146	Introduction to Statistics . . . . .	5
TOTAL PROGRAM CREDITS			62

## Information Technology: Healthcare Information Technology Certificate

### Information Technology Programs

#### TECHNICAL SPECIALTY COURSES

AHE	126	Essential Skills in Healthcare . . . . .	2
BTM	111	Business Applications I . . . . .	5
IT	100	Information Technology Fundamentals . . . . .	5
IT	130	Network Essentials . . . . .	5
IT	141	Intro to Hardware Comptia A+ . . . . .	5
IT	142	Introduction to Operating Systems. . . . .	5

#### RELATED INSTRUCTION

CMST&	101	Introduction to Communication . . . . .	5
ENGL&	101	English Composition I . . . . .	5
HUM	105	Intercultural Communication . . . . .	5
TOTAL PROGRAM CREDITS			45

## Information Technology: Network Design and Administration Associate of Applied Science –Transfer Degree (A.A.S.-T)

### Information Technology Programs

The Information Technology three- to seven-quarter certificate and Associate of Applied Science-T degree (A.A.S.-T) programs prepare students for an industry with a growing need for skilled technicians. IT offers certificates and/or degrees in six areas: Applications Support, Database Administration and Development, Mobile Product Development, Network Design and Administration, Programming, Web Design, and Web Development. Graduates can expect to find employment as help desk analysts, programmers, web designers and developers, software support specialists, application developers, network designers and administrators, database designers and administrators and IT security specialists. Short-term certificates or industry certifications are offered in Computer Support Technician, CISCO Specialist I, II, III, Microsoft Specialist I, II, III, and Mobile Product Development. Completion of Certificate Requirements: 68 credits

#### PREREQUISITES

Prerequisites do not count toward credits required for this certificate.

Eligibility for ENGL& 101 and College Math

IT	100	Information Technology Fundamentals . . . . .	5
		Following can be substituted:	
		BTM 111 – Business Applications I or previous computer experience and MS Office	

#### TECHNICAL SPECIALTY CLASSES

CIS	197	Work Experience-Computer Information Systems. . . . .	3
Credit range: 3-5			
Total required work experience credits for CIS 197: 3			
IT	130	Network Essentials . . . . .	5
IT	131	Network OS 1 Install Config Windows Server. . . . .	5
IT	132	Network Operating Systems 2 – Server . . . . .	5
IT	133	Network OS 3 Windows Network Infrastructure . . . . .	5
IT	135	TCP/IP . . . . .	5
IT	141	Intro to Hardware Comptia A+ . . . . .	5
IT	231	Linux Operating System . . . . .	5
IT	232	UNIX for Network Administration . . . . .	5
IT	241	CISCO 1 . . . . .	5
IT	242	CISCO 2 . . . . .	5
IT	243	CISCO 3 . . . . .	5
IT	250	Intro to Security for Computing . . . . .	5
IT	257	Enterprise Applications. . . . .	5

#### RELATED INSTRUCTION

CSC	110	Introduction to Computer Programming . . . . .	5
		Following can be substituted:	
		Other Natural Science course	
ENGL&	101	English Composition I . . . . .	5
ENGL&	102	Composition II . . . . .	5

	Following can be substituted: other Communications course	
HUM	105 Intercultural Communication .....	5
	Following can be substituted: Other Humanities course	
MATH	136 Inferential Statistics .....	5
	Following can be substituted: MATH& 146 – Introduction to Statistics	
PSYC&	100 General Psychology .....	5
	Following can be substituted: other Social Science course	
<b>TOTAL PROGRAM CREDITS</b>		<b>98</b>

## Information Technology: Network Design and Administration Certificate

### Information Technology Programs

The Information Technology three- to seven-quarter certificate and Associate of Applied Science-T degree (A.A.S.-T) programs prepare students for an industry with a growing need for skilled technicians. IT offers certificates and/or degrees in six areas: Applications Support, Database Administration and Development, Mobile Product Development, Network Design and Administration, Programming, Web Design, and Web Development. Graduates can expect to find employment as help desk analysts, programmers, web designers and developers, software support specialists, application developers, network designers and administrators, database designers and administrators and IT security specialists. Short-term certificates or industry certifications are offered in Computer Support Technician, CISCO Specialist I, II, III, Microsoft Specialist I, II, III, and Mobile Product Development.

#### PREREQUISITES

Prerequisites do not count toward credits required for this certificate.

Eligibility for ENGL& 101 and College Math

IT	100 Information Technology Fundamentals .....	5
	Following can be substituted: BTM 111 – Business Applications I or Previous computer experience and MS Office	

#### TECHNICAL SPECIALTY CLASSES

CIS	197 Work Experience-Computer Information Systems.....	3
	Credit range: 3-5 Total required work experience credits for CIS 197: 3	
IT	130 Network Essentials .....	5
IT	131 Network OS 1 Install Config Windows Server... 5	
IT	132 Network Operating Systems 2 – Server .....	5
IT	133 Network OS 3 Windows Network Infrastructure. 5	
IT	135 TCP/IP .....	5
IT	141 Intro to Hardware Comptia A+ .....	5
IT	231 Linux Operating System .....	5
IT	232 UNIX for Network Administration .....	5
IT	241 CISCO 1 .....	5
IT	242 CISCO 2 .....	5
IT	243 CISCO 3 .....	5

IT	250 Intro to Security for Computing .....	5
IT	257 Enterprise Applications.....	5
<b>TOTAL PROGRAM CREDITS</b>		<b>68</b>

## Information Technology: Network Design and Administration – CISCO Certificate

### Information Technology Programs

#### PREREQUISITES

Prerequisites do not count toward credits required for this certificate.

ENGL	106 Technical Writing.....	3
IT	100 Information Technology Fundamentals .....	5
	Following can be substituted: BTM 111 – Business Applications I or Previous computer experience and MS Office	
IT	130 Network Essentials .....	5
IT	141 Intro to Hardware Comptia A+ .....	5
MATH	119 Mathematics Behind Information Technology . 3	

#### TECHNICAL SPECIALTY COURSES

IT	131 Network OS 1 Install Config Windows Server... 5	
IT	132 Network Operating Systems 2 – Server .....	5
IT	133 Network OS 3 Windows Network Infrastructure 5	
IT	135 TCP/IP .....	5
IT	231 Linux Operating System .....	5
IT	241 CISCO 1 .....	5
IT	242 CISCO 2 .....	5
IT	243 CISCO 3 .....	5
<b>TOTAL PROGRAM CREDITS</b>		<b>40</b>

## Information Technology: Networking Bachelor of Applied Science Degree (B.A.S.)

### Information Technology Programs

The BAS in IT Networking (BAS-ITN) will help students prepare for network related jobs in IT, including computer and network administrators and network systems and security analysts. The degree will help meet the growing regional demand for employees with advanced certifications or skills, including: CISCO Certified Network Professionals (CCNP); industry certifications in Microsoft SQL and SharePoint; supplemental skills in PERL; and fluency in advanced programming languages, mobile application security, and cloud-based hybrid environments. Along with these specific skills and certifications, general education in the curriculum will prepare graduates by developing the ability to communicate and build working relationships, solve problems, and plan and structure tasks while allocating time and resources effectively.

Associate of Applied Science-T Degree (A.A.S.-T) in Networking (98 credits)

**PREREQUISITES**

Full-time applicants to the BAS-ITN Program must possess a minimum of an AAS-T degree in Networking from any one of the many options at regional two-year institutions, or from other regionally accredited institutions. Additionally, applicants must have a cumulative grade point average (GPA) of at least 2.0, and a 2.5 or higher GPA in Networking related coursework.

Prior to acceptance into the BAS-ITN, applicants will have completed the following coursework:

Networking Introduction . . . . .	5
(such as: NET 120)	
CISCO I, II, III (CCNA) . . . . .	15
(such as: NET 142, NET 144, NET 146)	
Unix and Security . . . . .	15
(such as: ITC 136, ITC 151)	
General Education* . . . . .	30
&#183; 10 credits of English (e.g. ENGL& 101 and ENGL& 102);	
&#183; 5 credits of Visual, Literary, and Performing Arts [VLPA]	
(e.g. HUM 105);	
&#183; 5 credits of Quantitative/Symbolic Reasoning [Q/SR]	
(e.g. MATH& 146);	
&#183; 5 credits of Individual, Cultures, and Societies [ICS]	
(e.g. PSYC& 100);	
&#183; 5 credits of Natural World [NW](e.g. CSC courses)	

\*A total of 60 will be required for the BAS degree. It is suggested that 30 credits be earned prior to BAS enrollment.

**TECHNICAL SPECIALTY COURSES**

The following short-term certificates (15 credits each) can be awarded upon completion of the courses noted.

- Linux ( NTI 300, NTI 310, and NTI 320 )
  - Cisco Certified Network Professional [CCNP] (NTI 340, NTI 350, and NTI 360)
  - Cloud Specialist ( NTI 430, NTI 440, and NTI 470 )
- |     |     |  |   |
|-----|-----|--|---|
| NTI | 300 | Linux and Enterprise Scripting Technologies. . .           | 5 |
| NTI | 310 | Linux Application . . . . .                                | 5 |
| NTI | 320 | Monitoring and Trending of Enterprise Networks. . . . .    | 5 |
| NTI | 340 | Software Defined Networking 1. . . . .                     | 5 |
| NTI | 350 | Software Defined Networking 2. . . . .                     | 5 |
| NTI | 360 | Software Defined Networking 3. . . . .                     | 5 |
| NTI | 400 | Identity & Information/Content Security. . . . .           | 5 |
| NTI | 410 | Network Security for the Enterprise . . . . .              | 5 |
| NTI | 430 | Big Data and Collaboration Management . . . . .            | 5 |
| NIT | 440 | Devops and Enterprise Admin for the Cloud. . . . .         | 5 |
| NTI | 460 | Devops Practicum, BAS IT Networking. . . . .               | 5 |
| NTI | 470 | Internship / Capstone Project, BAS IT Networking . . . . . | 5 |

**GENERAL EDUCATION**

CSC	110	Introduction to Computer Programming . . . . .	5
		Following can be substituted: higher CSC course (5)	

ECON&	201	Micro Economics . . . . .	5
		Following can be substituted:	
		ECON& 202 - Macro Economics (5)	
PHIL&	106	Introduction to Logic . . . . .	5
POLS&	203	International Relations . . . . .	5
SOC	330	Information Literacy in IT . . . . .	5
Lab Science		. . . . .	5
<b>TOTAL PROGRAM CREDITS</b>			<b>180</b>

**Information Technology: Programming and IT Support Associate of Applied Science –Transfer Degree (A.A.S.-T)**

**Information Technology Programs**

Graduates of the Programming and IT Support Program provide technical support for business systems applications, assisting in one or all areas of applications programming that includes testing, design, and analysis. Employees assist in the maintenance, deployment, and problem solving associated with servers and networking devices. They coordinate and optimize departmental business application systems and the components that integrate with all internal systems, along with assisting with the creation and maintenance of technical documents used for planning and support of local servers and networks.

Graduates of the Programming and IT Support program deploy new or upgraded technologies as defined in approved projects. They work as part of a team and possess superior communication, interpersonal and customer service skills with a variety of departments to identify security needs, data requirements, system functions and integration points to provide actionable data.

Completion of either Computer Network Support or Software Development and Testing Certificate - 47 credits OR Application Development Certificate - 49 credits

**OPTION A: COMPUTER NETWORK SUPPORT**

BTM	100	Orientation and Career Exploration . . . . .	2
BTM	112	Business Applications II -Data Analysis w/Excel . . . . .	5
BTM	113	Business Applications III . . . . .	5
BTM	119	Business Communications II . . . . .	5
BTM	197	Work Experience: Business Technology Management . . . . .	5
BTM	260	Project Management . . . . .	5
BTM	275	Computer User Support . . . . .	5
IT	130	Network Essentials . . . . .	5
IT	141	Intro to Hardware Comptia A+ . . . . .	5
IT	142	Introduction to Operating Systems. . . . .	5

**OPTION B: SOFTWARE DEVELOPMENT AND TESTING**

BTM	100	Orientation and Career Exploration	2
BTM	112	Business Applications II -Data Analysis w/Excel	5
BTM	113	Business Applications III	5
BTM	119	Business Communications II	5
BTM	197	Work Experience: Buiness Technology Management	5
BTM	260	Project Management	5
IT	115	Intro to Software Development &Version Control	5
IT	116	Programming and Web Page Concepts	5
IT	121	JavaScript 1	5
IT	211	Object Oriented Programming with Java	5

**OPTION C: APPLICATION DEVELOPMENT**

BTM	100	Orientation and Career Exploration	2
BTM	112	Business Applications II -Data Analysis w/Excel	5
BTM	119	Business Communications II	5
BTM	197	Work Experience: Buiness Technology Management	5
BTM	260	Project Management	5
IT	115	Intro to Software Development &Version Control	5
IT	116	Programming and Web Page Concepts	5
IT	120	Database Development	5
IT	121	JavaScript 1	5
IT	122	JavaScript 2	5
IT	211	Object Oriented Programming with Java	5
IT	289	Web Career Strategies	2

**OPTION D: HEALTHCARE INFORMATION TECHNOLOGY**

AHE	126	Essential Skills in Healthcare	2
BTM	111	Business Applications I	5
CMST&	101	Introduction to Communication	5
ENGL&	101	English Composition I	5
HUM	105	Intercultural Communication	5
IT	100	Information Technology Fundamentals	5
IT	130	Network Essentials	5
IT	141	Intro to Hardware Comptia A+	5
IT	142	Introduction to Operating Systems	5

**TECHNICAL SPECIALTY COURSES**

Courses and total credits required are dependent on which option has been taken:

- Option A: Computer Network Support: 15 credits
- Option B: Software Development and Testing: 15 credits
- Option C: Application Development: 10 credits
- Option D: Healthcare Information Technology: 30 credits

AHE	107	Introduction to Healthcare Leadership	3
			This course IS REQUIRED ONLY if taking Option D: Healthcare Information Technology
BTM	275	Computer User Support	5
			This course IS REQUIRED ONLY if taking Option D: Healthcare Information Technology

IT	111	Programming Fundamentals	5
			This course IS REQUIRED ONLY if taking one of the following options: Option A: Computer Network Support Certificate Option D: Healthcare Information Technology
IT	115	Intro to Software Development &Version Control	5
			This course IS REQUIRED ONLY if taking one of the following options: Option A: Computer Network Support Certificate Option D: Healthcare Information Technology
IT	125	Intro to Data Analytics	5
			This course IS REQUIRED ONLY if taking Option D: Healthcare Information Technology
IT	130	Network Essentials	5
			This course IS REQUIRED ONLY if taking Option B: Software Development and Testing Certificate
IT	231	Linux Operating System	5
			This course IS NOT REQUIRED IF taking Option D: Healthcare Information Technology
IT	250	Intro to Security for Computing	5
			This course IS NOT REQUIRED IF taking Option A: Computer Network Support Certificate

**GENERAL EDUCATION COURSES**

All courses listed are required unless noted

CMST&	220	Public Speaking	5
			This course is not required if taking Option D: Healthcare Information Technology
ENGL&	101	English Composition I	5
			This course is not required if taking Option D: Healthcare Information Technology
ENGL&	102	Composition II	5
HUM	105	Intercultural Communication	5
			This course is not required if taking Option D: Healthcare Information Technology
MATH&	146	Introduction to Statistics	5
			Science or Social Science Elective
			See advising for list of approved courses.

TOTAL PROGRAM CREDITS 90-94

This program provides a pathway into Seattle Central's IT Networking BAS Degree.

**Information Technology: Software Development Associate of Applied Science - Transfer Degree (AAS-T) Information Technology Programs**

The Information Technology three- to seven-quarter certificate and Associate of Applied Science–T degree (A.A.S.-T) programs prepare students for an industry with a growing need for skilled technicians. IT offers certificates and/ or degrees in six areas: Applications Support, Database Administration and Development,

Mobile Product Development, Network Design and Administration, Programming, Web Design, and Web Development. Graduates can expect to find employment as help desk analysts, programmers, web designers and developers, software support specialists, application developers, network designers and administrators, database designers and administrators and IT security specialists. Short-term certificates or industry certifications are offered in Computer Support Technician, Cisco Specialist I, II, III, Microsoft Specialist I, II, III, and Mobile Product Development.

**PREREQUISITES**

Eligibility for ENGL&101 and College Math  
Students must maintain a 2.0 grade or higher in all coursework.

**TECHNICAL SPECIALTY COURSES**

BTM	113	Business Applications III	5
IT	100	Information Technology Fundamentals	5
IT	111	Programming Fundamentals	5
IT	115	Intro to Software Development & Version Control	5
IT	120	Database Development	5
IT	121	JavaScript 1	5
IT	122	JavaScript 2	5
IT	161	Web Authoring 1	5
IT	211	Object Oriented Programming with Java	5
IT	212	Data Structures and Algorithms with Java	5
IT	217	Android Application Development 2	5
IT	228	Capstone Project	5
IT	229	Software Development Career Strategies	2

**RELATED INSTRUCTION**

ENGL&	101	English Composition I	5
ENGL&	102	Composition II	5
MATH	136	Inferential Statistics	5
Following can be substituted:			
MATH& 146 - Introduction to Stats (5)			
Visual, Literary, and Performing Arts			5
Suggested course:			
HUM 105 Intercultural Communication			
Individual, Cultures, and Societies			5
Natural World, the			5
<b>TOTAL PROGRAM CREDITS</b>			<b>92</b>

**Information Technology: Software Development Certificate**

**Information Technology Programs**

The Information Technology three- to seven-quarter certificate and Associate of Applied Science-T degree (A.A.S.-T) programs prepare students for an industry with a growing need for skilled technicians. IT offers certificates and/or degrees in six areas: Applications Support, Database Administration and Development, Mobile Product Development, Network

Design and Administration, Programming, Web Design, and Web Development. Graduates can expect to find employment as help desk analysts, programmers, web designers and developers, software support specialists, application developers, network designers and administrators, database designers and administrators and IT security specialists. Short-term certificates or industry certifications are offered in Computer Support Technician, CISCO Specialist I, II, III, Microsoft Specialist I, II, III, and Mobile Product Development.

**PREREQUISITES**

Eligibility for ENGL&101 and College Math  
Students must maintain a 2.0 grade or higher in all coursework.

**TECHNICAL SPECIALTY COURSES**

BTM	113	Business Applications III	5
IT	100	Information Technology Fundamentals	5
IT	111	Programming Fundamentals	5
IT	115	Intro to Software Development & Version Control	5
IT	120	Database Development	5
IT	121	JavaScript 1	5
IT	122	JavaScript 2	5
IT	161	Web Authoring 1	5
IT	211	Object Oriented Programming with Java	5
IT	212	Data Structures and Algorithms with Java	5
IT	217	Android Application Development 2	5
IT	228	Capstone Project	5
IT	229	Software Development Career Strategies	2
<b>TOTAL PROGRAM CREDITS</b>			<b>62</b>

**Information Technology: Software Development and Testing Certificate**

**Information Technology Programs**

**TECHNICAL SPECIALTY COURSES**

BTM	100	Orientation and Career Exploration	2
BTM	112	Business Applications II – Data Analysis w/Excel	5
BTM	113	Business Applications III	5
BTM	119	Business Communications II	5
BTM	197	Work Experience: Business Technology Management	5
BTM	260	Project Management	5
IT	115	Intro to Software Development & Version Control	5
IT	116	Programming and Web Page Concepts	5
IT	121	JavaScript 1	5
IT	211	Object Oriented Programming with Java	5
<b>TOTAL PROGRAM CREDITS</b>			<b>47</b>

## Information Technology: Web Design Associate of Applied Science–Transfer Degree (A.A.S.-T)

### Information Technology Programs

The Information Technology three- to seven-quarter certificate and Associate of Applied Science-T degree (A.A.S.-T) programs prepare students for an industry with a growing need for skilled technicians. IT offers certificates and/or degrees in six areas: Applications Support, Database Administration and Development, Mobile Product Development, Network Design and Administration, Programming, Web Design, and Web Development. Graduates can expect to find employment as help desk analysts, programmers, web designers and developers, software support specialists, application developers, network designers and administrators, database designers and administrators and IT security specialists. Short-term certificates or industry certifications are offered in Computer Support Technician, CISCO Specialist I, II, III, Microsoft Specialist I, II, III, and Mobile Product Development.

### PREREQUISITES

Eligibility for ENGL&101 and College Math  
Students must maintain a 2.0 grade or higher in all coursework.

### TECHNICAL SPECIALTY COURSES

IT	100	Information Technology Fundamentals	5
IT	120	Database Development	5
IT	121	JavaScript 1	5
IT	161	Web Authoring 1	5
IT	162	Web Authoring 2	5
IT	164	Typography for the Web	4
IT	165	Graphics for the Web	4
IT	166	Writing for the Web	3
IT	172	User Interface & Experience Design for the Web	5
IT	174	Usability Research Methods for the Web	5
IT	261	Web App Programming 1	5
IT	270	Content Management Systems with Wordpress	5
IT	286	Advanced Web Design Project	5
IT	289	Web Career Strategies	2

### RELATED INSTRUCTION

ENGL&	101	English Composition I	5
ENGL&	102	Composition II	5
MATH	136	Inferential Statistics	5
Following can be substituted:			
MATH& 146 - Introduction to Statistics (5)			
Visual, Literary, and Performing Arts			5
Suggested Course: HUM 105 Intercultural Communication			
Individual, Cultures, and Societies			5
Natural World, the			5
TOTAL PROGRAM CREDITS			91

## Information Technology: Web Design Certificate

### Information Technology Programs

The Information Technology three- to seven-quarter certificate and Associate of Applied Science-T degree (A.A.S.-T) programs prepare students for an industry with a growing need for skilled technicians. IT offers certificates and/or degrees in six areas: Applications Support, Database Administration and Development, Mobile Product Development, Network Design and Administration, Programming, Web Design, and Web Development. Graduates can expect to find employment as help desk analysts, programmers, web designers and developers, software support specialists, application developers, network designers and administrators, database designers and administrators and IT security specialists. Short-term certificates or industry certifications are offered in Computer Support Technician, CISCO Specialist I, II, III, Microsoft Specialist I, II, III, and Mobile Product Development.

### PREREQUISITES

Eligibility for ENGL& 101 and College Math  
Students must maintain a 2.0 grade or higher in all coursework.

### TECHNICAL SPECIALTY COURSES

IT	100	Information Technology Fundamentals	5
IT	120	Database Development	5
IT	121	JavaScript 1	5
IT	161	Web Authoring 1	5
IT	162	Web Authoring 2	5
IT	164	Typography for the Web	4
IT	165	Graphics for the Web	4
IT	166	Writing for the Web	3
IT	172	User Interface & Experience Design for the Web	5
IT	174	Usability Research Methods for the Web	5
IT	261	Web App Programming 1	5
IT	270	Content Management Systems with Wordpress	5
IT	286	Advanced Web Design Project	5
IT	289	Web Career Strategies	2
TOTAL PROGRAM CREDITS			61

## Information Technology: Web Development Associate of Applied Science–Transfer Degree (A.A.S.-T)

### Information Technology Programs

The Information Technology three- to seven-quarter certificate and Associate of Applied Science-T degree (A.A.S.-T) programs prepare students for an industry with a growing need for skilled technicians. IT offers certificates and/or degrees in six areas: Applications Support, Database Administration and Development, Mobile Product Development, Network Design and Administration, Programming, Web Design, and Web Development.



Graduates can expect to find employment as help desk analysts, programmers, web designers and developers, software support specialists, application developers, network designers and administrators, database designers and administrators and IT security specialists. Short-term certificates or industry certifications are offered in Computer Support Technician, CISCO Specialist I, II, III, Microsoft Specialist I, II, III, and Mobile Product Development.

**PREREQUISITES**

Eligibility for ENGL& 101 and College Math  
Students must maintain a 2.0 grade or higher in all coursework.

**TECHNICAL SPECIALTY COURSES**

BTM	113	Business Applications III	5
IT	100	Information Technology Fundamentals	5
IT	111	Programming Fundamentals	5
IT	112	Web Programming with Python	5
IT	115	Intro to Software Development & Version Control	5
IT	120	Database Development	5
IT	121	JavaScript 1	5
IT	122	JavaScript 2	5
IT	161	Web Authoring 1	5
IT	174	Usability Research Methods for the Web	5
IT	229	Software Development Career Strategies	2
Following can be substituted:			
IT 289 - Web Career Strategies (2)			
IT	261	Web App Programming 1	5
IT	262	Web Application Programming 2	5

**RELATED INSTRUCTION**

ENGL&	101	English Composition I	5
ENGL&	102	Composition II	5
MATH	136	Inferential Statistics	5
Following can be substituted:			
MATH& 146 - Introduction to Statistics			
Visual, Literary, and Performing Arts			
Suggested Course: HUM 105 Intercultural Communication			
Individual, Cultures, and Societies			
Natural World, the			
TOTAL PROGRAM CREDITS			92

**Information Technology: Web Development Certificate**

**Information Technology Programs**

The Information Technology three- to seven-quarter certificate and Associate of Applied Science-T degree (A.A.S.-T) programs prepare students for an industry with a growing need for skilled technicians. IT offers certificates and/or degrees in six areas: Applications Support, Database Administration and Development, Mobile Product Development, Network Design and Administration, Programming, Web Design, and Web Development.

Graduates can expect to find employment as help desk analysts, programmers, web designers and developers, software support specialists, application developers, network designers and administrators, database designers and administrators and IT security specialists. Short-term certificates or industry certifications are offered in Computer Support Technician, CISCO Specialist I, II, III, Microsoft Specialist I, II, III, and Mobile Product Development.

**PREREQUISITES**

Eligibility for ENGL& 101 and College Math  
Students must maintain a 2.0 grade or higher in all coursework.

**TECHNICAL SPECIALTY COURSES**

BTM	113	Business Applications III	5
IT	100	Information Technology Fundamentals	5
IT	111	Programming Fundamentals	5
IT	112	Web Programming with Python	5
IT	115	Intro to Software Development & Version Control	5
IT	120	Database Development	5
IT	121	JavaScript 1	5
IT	122	JavaScript 2	5
IT	161	Web Authoring 1	5
IT	174	Usability Research Methods for the Web	5
IT	229	Software Development Career Strategies	2
Following can be substituted:			
IT 289 - Web Career Strategies (2)			
IT	261	Web App Programming 1	5
IT	262	Web Application Programming 2	5
TOTAL PROGRAM CREDITS			62

**Information Technology: XR Development Associate of Applied Science - Transfer Degree (AAS-T)**

**Information Technology Programs**

Training to become an XR Developer. XR is an umbrella term (standing for Extended Reality) – it encompasses virtual reality, augmented reality, and mixed reality. The AAS-T will have several industry recognized credentials embedded within it, developed by our key employer partner and leader in the industry, Unity Technologies. The program will include onramps for dual credit high school students and adult learners. In the coming year, we will also be seeking approved of a BAS degree in XR Development, to build upon this AAS-T.

**TECHNICAL SPECIALTY COURSES**

IT	134	Intro to Software Development and Versioning	5
IT	181	Introduction to Immersive Media A	5
IT	182	Introduction to Immersive Media B	5
IT	185	Intro to Inclusive Project Development	5
IT	186	Intro to Realtime Interactive Programming	5

IT	270	Content Management Systems with Wordpress .....	5
IT	272	Virtual Reality Development .....	5
IT	274	Augmented Reality Development .....	5
IT	276	Realtime Interactive Programming 1 .....	5

**ELECTIVES**

Choose ten (10) credits from the following list

ART	210	Digital & Graphic Art - Photoshop + Illustrator .....	5
CSC	142	Computer Programming I .....	5
CSC	143	Computer Programming II .....	5
IT	115	Intro to Software Development & Version Control .....	5
IT	212	Data Structures and Algorithms with Java .....	5
IT	216	Android Application Development 1 .....	5
IT	217	Android Application Development 2 .....	5
IT	261	Web App Programming 1 .....	5
IT	262	Web Application Programming 2 .....	5

**GENERAL EDUCATION COURSES**

ENGL&	101	English Composition I .....	5
HUM	105	Intercultural Communication .....	5
MATH&	107	MATH in Society .....	5
PHIL&	120	Symbolic Logic .....	5
PSYC&	100	General Psychology .....	5
		Global Studies .....	5
		Lab Science .....	5

Suggested Course: Physics

TOTAL PROGRAM CREDITS 90

**Linux Certificate Short-Term Certificate****Business, Information Technologies & Creative Arts Division**

This three-class series of courses prepare individuals with previous Linux administration skills for implementation in enterprise computing environments, past the equivalency of Linux+ certification. Students examine and demonstrate auto-configuration, file systems, partitioning, logical volumes, firewalling, LAN/WAN support applications, Enterprise Applications, like web, mobility, email, storage, cloud virtualization, database, and troubleshooting. Students will also implement third-party applications and mixed server environments, including integration with Microsoft and Apple products.

Program Certificate Outcomes:

- Plan and manage multiple projects, both individually and as a team member
- Apply industry standard techniques for collecting, analyzing, and optimizing data within an enterprise network infrastructure.
- Assess, develop, and maintain network security systems using ethical best practices and standardized tools.

**TECHNICAL SPECIALTY COURSES**

NTI	300	Linux and Enterprise Scripting Technologies... 5	
NTI	310	Linux Application .....	5
NTI	320	Monitoring and Trending of Enterprise Networks .....	5

TOTAL PROGRAM CREDITS 15

**Math (A.S.Track 2)**

This two-year pathway is designed for students who wish to complete an Associate of Science - Track 2 degree with a concentration in Mathematics. Students in this program will learn how to use mathematical concepts to break down complicated problems into manageable pieces. Students will use creative, exploratory, and lateral thinking in problem-solving as well as strong reasoning and analytical-thinking skills through math courses ranging from basic arithmetic to differential equations.

Completion of this program opens doors to a variety of careers in sectors such as research, finance, accounting, academia and more. It also allows you to transfer at the junior level into a Mathematics program at a four-year college or university, or to a Bachelor of Applied Science (BAS) at one of the Seattle Colleges.

**Mechanical Engineering  
A.S. Transfer, Track 2 (PHST2AS)**

This pathway is designed for students who wish to complete an Associate of Science - Track 2 degree with a concentration in Engineering. Students in this program will study the application of mathematics, science, and practical experience to invent, innovate, design, build, maintain, research, and improve products that impact people's lives. This program provides options to study engineering applications across many fields, with courses in the natural sciences, computer science, math, engineering and more.

Completion of this program prepares students to transfer at the junior level to an engineering or related field of study at a four-year college or university, as well as opening doors to a wide variety of engineering-related careers.

**Physics (A.S.Track 2)**

This two-year pathway is designed for students who wish to complete an Associate of Science - Track 2 degree with a concentration in Physics. Students in this program develop an to a four-year college to earn a bachelor's degree in Sustainability, Food Science, Food Processing, or other related fields. Those who earn a certificate may hone their skills in natural resource management, food technology, environmental science, conservation, and management.



## SKILLED TRADES AND TECHNICAL TRAINING

### Maritime: Marine Deck Technology Certificate

Seattle Maritime Academy  
4455 Shilshole Ave NW, Seattle

The Marine Deck Technology program combines practical shipboard experience and requisite courses in nautical science with additional courses in computation, communication and human relations. Emphasis is placed on the theory, design, operation and maintenance of deck equipment and applied navigation skills. Students go to sea once a week during the second and third quarters aboard the college's training vessels. The academic program is followed by a 30-day at-sea internship on a large commercial vessel.

SMA offers the Marine Deck Technology curriculum as a 63.5 credit program, culminating in a certificate in Marine Deck Technology. Each graduate who successfully completes the program receives eight months of sea service credit toward a license as Master of Inland Steam or Motor Vessels of Not More Than 100 Gross Tons, or eight months of sea service credit toward a license as Mate of Near Coastal Steam or Motor Vessels of Not More Than 200 Gross Tons. This sea service credit is two-thirds of the total required sea service for the license. On completion, the student also receives eight months of sea service credit toward an Able Seaman-Special endorsement or one-third of the required sea service credit for any other Able Seaman endorsement. Combining the eight months of sea service from the academic program with the two months of actual sea service on SMA's training vessels and the internship gives each graduate 10 months of sea service toward AB-Special. Graduates satisfy both the written and practical examination requirements for both the Able Seaman and the Lifeboatman endorsements. The MDT certificate program also qualifies each graduate for an STCW "ratings forming part of a navigational watch" endorsement.



#### TECHNICAL SPECIALTY COURSES

MGO	101	Principles of Marine Mechanics	2
MGO	103	Survival Craft	3
MGO	111	Seamanship	3
MGO	112	Marlinspike	2
MGO	120	Vessel Maintenance	2
MGO	123	Basic Piloting and Navigation	3
MGO	124	Basic Vessel Handling	2
MGO	133	Seamanship Practicum	6
MGO	137	Electronic Navigation AIDS	2
MGO	140	Nautical Rules of the Road	3
MGO	166	Navigation Practicum	6
MGO	200	At Sea Internship	5
Credit range: 4 - 5			
MTS	201	Naval Architecture	2
MTS	202	Stability	2
MTS	210	Marine Meteorology	2
MTS	223	Advanced Piloting and Navigation	3
MTS	284	Shipboard Pollution Prevention	2
MTS	294	License Seminar	2

#### RELATED INSTRUCTION

ENGL	105	Applied Composition	3
MGO	105	Leadership and Management	3
MGO	119	Marine Mathematics	3

TOTAL PROGRAM CREDITS 63.5

#### COMMUNITY SERVICE / INDUSTRY SUPPORT COURSES

- Basic Electricity for Small Boats & Recreational Boaters
- Basic Seamanship & Deck Skills
- Celestial Navigation
- Coastal Navigation
- Diesel Engine Maintenance & Operation
- Electronic Navigation
- Marine Safety & Survival
- Vessel Hanging

#### CERTIFICATION PREPARATORY COURSES

- Lifeboatman
- Master 100 Ton
- Master 200/500/1600 Ton
- Mate 200/500/1600 Ton
- Refrigeration Technician (testing)
- Standard First Aid & CPR



## Maritime: Marine Engineering Technology Certificate

Seattle Maritime Academy  
4455 Shilshole Ave NW, Seattle

The Marine Engineering Technology program combines practical shipboard experience and required courses in engineering with additional courses in computation, communication, and human relations. Emphasis is placed on the theory, design, operation, and maintenance of marine propulsion plants and equipment. Students go to sea once a week during the second and third quarters aboard the college's training vessels. The academic program is followed by a 30- to 90-day-at-sea internship on a large commercial vessel.

SMA offers the Marine Engineering Technology curriculum as a 72.5 credit program, culminating in a certificate in Marine Engineering Technology from Seattle Central. Students will also be eligible for a U.S. Merchant Mariners document endorsed with any and/or all of the following engine room (QMED) ratings: Electrician; Oiler; Pumpman; Refrigeration Engineer; and/or Junior Engineer. If the student's at-sea internship was on a vessel with steam propulsion, he/she will also be eligible for a "fireman/ watertender" QMED rating. The MET certificate program also qualifies each graduate for an STCW "ratings forming part of an engineering watch" endorsement.

### TECHNICAL SPECIALTY COURSES

MGO 101	Principles of Marine Mechanics	2
MGO 103	Survival Craft	3
MGO 111	Seamanship	3
MGO 127	Fundamentals of Marine Electricity	4
MGO 147	Marine Engineering Practicum	6
MGO 177	Advanced Engineering Practicum	6
MGO 200	At Sea Internship	5
MTS 212	Auxiliary Machinery and Ship Design	4
MTS 217	Diesel Engine Maintenance and Operation	4
MTS 221	Applied Marine Electricity	4
MTS 228	Marine Hydraulics	5
MTS 233	Marine Refrigeration	5
MTS 257	Advanced Diesel Engines	4
MTS 263	Propulsion Systems	3
MTS 284	Shipboard Pollution Prevention	2
MTS 285	Marine Boilers	3
MTS 294	License Seminar	2

### RELATED INSTRUCTION

ENGL 105	Applied Composition	3
MGO 105	Leadership and Management	3
MGO 119	Marine Mathematics	3
TOTAL PROGRAM CREDITS		72.5

## Pre-Apprenticeship Construction Training (P.A.C.T.) Certificate

### Vocational Programs

The Pre-Apprenticeship Construction Training program is designed to assist adults, to gain the skills needed to make them successful competitors for entry-level jobs in construction trade apprenticeship programs. Participants study and apply subjects and skills that are relevant to the work-sites of many occupations, and tour many apprenticeship schools and construction job sites. Students learn basic carpentry skills and terminology, shop math, and effective and safe operation of power tools and demonstrate their competency. Students learn and receive certification in forklift operation, road flagging, OSHA 10 safety, and first aid/CPR. There is additional emphasis on learning skills and adopting attitudes that lead to becoming a positive and productive member of any worksite team/organization. The focus is on building habits for success, including time management, understanding non-verbal communication, taking the initiative, group/ team communication, and line/ staff/team organization.

Note: Forklift and flagging certification classes are open to the public and are offered at least once per quarter.

### TECHNICAL SPECIALTY COURSES

MTA 161	Construction Job Readins	5.5
MTA 163	Blueprint Reading	3.5
MTA 164	Industrial 1st Aid/CPR	0.5
MTA 165	Road Flagging	0.5
	Continuing Education course for P.A.C.T.	
MTA 167	Const Trades Training I	3
MTA 172	Forklift Operation & Crt	1
	Continuing Education course for P.A.C.T.	
MTA 174	Tools/Material Id/Handl.	2
MTA 177	Fitness and Nutrition I	2
MTA 179	OSHA 10 Safety	1

### RELATED INSTRUCTION

MATH 110	Applied Math for Technicians	3
TOTAL PROGRAM CREDITS		22



## Wood Technology: Boat Building and Repair Associate of Applied Science Degree (A.A.S.)

2310 South Lane

The Marine Technology program at Seattle Central College will train students for a career in the boatbuilding and repair-refit industries. The program teaches entry-level skills in the building and repair of wood and fiberglass hull and vessel components, outboard and inboard engines, testing, maintaining, and repairing electrical systems, and the installation of marine pumps in new or retrofit vessels. Instruction also includes the techniques of working with fiberglass and related chemicals.

### TECHNICAL SPECIALTY COURSES

WTC	110	Introduction to Professional Woodworking ...	18
WTC	131	Introduction to Composite Boatbuilding .....	14
WTC	132	Introduction to Marine Electrical Systems .....	4
WTC	133	Wooden Boat Joinery and Repair .....	10
WTC	134	Introduction to Marine Mechanical Systems ...	8
WTC	135	Advanced Composites .....	14
WTC	136	Marine Electrical II .....	4

### RELATED INSTRUCTION

ENGL	105	Applied Composition .....	3
MATH	110	Applied Math for Technicians .....	3
PSYC	240	Psychology of Human Relations .....	3
WTC	203	Introduction to Vectorworks .....	3

### ELECTIVES

Total Required Credits: 10

Choose from one of the following courses:

WTC	137	Internship .....	10
		Credit range: 1 - 10	
		Total required credits: 7 - 10	
WTC	138	Advanced Wooden Boat Joinery and Repair ..	10
		Credit range: 1 - 18	
		Total required credits: 10	

Course Taken at Another College .....	3
Marine Electronics - Skagit Valley College	
Course Taken at Another College .....	32
Welding Intensive - South Seattle College	

TOTAL PROGRAM CREDITS 94-116

## Wood Technology: Carpentry Associate of Applied Science Degree (AAS)

2310 South Lane

The Carpentry program prepares students for employment in residential and light commercial construction trades. Students have the option to earn quarterly short term certificates or the Carpentry Program Associate of Applied Science (A.A.S.) degree. The carpentry one-quarter certificates can build to a full carpentry degree.

### TECHNICAL SPECIALTY COURSES

WTC	110	Introduction to Professional Woodworking ...	18
WTC	141	Residential Remodel and Preservation Carpentry .....	18
WTC	142	Introduction to Carpentry and Blueprint Reading .....	4
WTC	143	Building Site System Site Selection to Layout ..	5
WTC	144	Foundation System Forms to Concrete Finishes .	9
WTC	145	Framing Systems Floor to Ceiling .....	9
WTC	146	Roof System Framing to Roofing Installation ...	5
WTC	147	Stair System Rough Framing to Finished Stairwell .....	4
WTC	148	Exterior Finishes Building Enclosure Finish Trim .....	9
WTC	149	Interior Finishes Door Installation to Trim .....	9

### RELATED INSTRUCTION

ENGL	105	Applied Composition .....	3
MATH	110	Applied Math for Technicians .....	3
PSYC	240	Psychology of Human Relations .....	3
WTC	203	Introduction to Vectorworks .....	3

TOTAL PROGRAM CREDITS 102

## Wood Technology: Carpentry Certificate

2310 South Lane

The Carpentry program prepares students for employment in residential and light commercial construction trades. Students have the option to earn quarterly short term certificates or the Carpentry Program Associate of Applied Science (A.A.S.) degree. The carpentry one-quarter certificates can build to a full carpentry degree.

### TECHNICAL SPECIALTY COURSES

WCO	110	Introduction to Professional Woodworking ...	18
WCO	140	Carpentry .....	18
		Concrete Forms & Footings, Floor Systems, & Job Safety	
WCO	140	Carpentry .....	18
		General Frame Construction, Roof Framing, Staging, Working at Heights	
WCO	140	Carpentry .....	18
		Finish work, Setting Windows & Doors, Machine Safety	
WCO	140	Carpentry .....	18
		Selected Class Projects (Optional - Instructor permission required)	

### RELATED INSTRUCTION

ENGL	105	Applied Composition .....	3
MATH	110	Applied Math for Technicians .....	3
MIC	103	Computer Applications for Builders .....	3
PSYC	240	Psychology of Human Relations .....	3
WCO	120	Construction & Marine Industrial First Aid .....	1

TOTAL PROGRAM CREDITS 85



## SOCIAL SCIENCES, HUMANITIES, AND LANGUAGE

### Anthropology (A.A.-DTA)

This two-year pathway is designed for students who wish to complete an Associate of Arts - Direct Transfer Agreement degree with a concentration in Anthropology. Students in this pathway develop skills in data analysis, research design, oral and written communication, group communication and collaboration, and become adept in diversity, equity, and inclusion.

Completion of this program allows students to transfer at the junior level into an Anthropology program at a four-year college or university. It also opens doors to a variety of careers in sectors including international relations/law, non-profits, museums/zoos, education, government, health care, tourism, and business.

### Communication Studies (A.A.-DTA)

This two-year pathway is designed for students who wish to complete an Associate of Arts - Direct Transfer Agreement degree with a concentration in Communication Studies. Students in this program develop skills in verbal communication, analysis and research, multicultural awareness, computer and technical literacy, audience analysis, group communication and collaboration, interpersonal communication, leadership, and facilitation.

Completion of this program allows students to transfer at the junior level into a Communication Studies, Media & Communications, Journalism, or a related program at a four-year college or university. It also opens doors to a variety of careers in sectors including non-profit, business, government, entertainment, and education.

### English, Literature, and Writing Studies (A.A.-DTA)

This two-year pathway is designed for students who wish to complete an Associate of Arts - Direct Transfer Agreement degree with a focus on English. Students in this pathway will develop skills in written communication, information literacy, analysis and research, multicultural awareness, meta-cognition/critical self-reflection, problem-solving, audience awareness, group communication and collaboration, and interpersonal communication.

Completion of this program allows students to transfer at the junior level into an English, Media & Communications, Journalism or a related field at a four-year college or university. It also opens doors to a variety of careers in sectors including education, media/entertainment, publishing, law, government, non-profit, and business.

### Equity and Social Justice (A.A.-DTA)

This two-year pathway is designed for students who wish to complete an Associate of Arts - Direct Transfer Agreement (A.A.-DTA) degree with an emphasis in Equity and Social Justice. Students in this program engage in an interdisciplinary examination of various dimensions of human diversity – including race, class, gender, sexuality, ability, religion, and more – with a focus on social justice and change. Students will develop skills in oral and written communication, critical thinking and problem solving, systems analysis, research design and planning, digital technology, collaboration, leadership, and intercultural fluency.

Completion of this program allows students to transfer into a social sciences or humanities major at a four-year college or university. Completion of this degree also opens doors to a variety of careers in sectors including social services, government, non-profit, education, media, law, and business.

### Ethnic Studies (A.A.-DTA)

This two-year pathway is designed for students who wish to complete an Associate of Arts-Direct Transfer Agreement degree with a concentration in Ethnic Studies. Students will take courses that are interdisciplinary and multicultural. Courses may focus on historical and contemporary societies. Students will develop skills in oral and written communication, critical thinking and problem solving, systems analysis, collaboration, and intercultural fluency.

Completion of this program allows students into an ethnic studies program at a four-year college or university. Completion of this degree also opens doors to a variety of careers in sectors including non-profit, healthcare, government, law, education, and more.

### Gender, Women, and Sexuality Studies (A.A.-DTA)

This two-year pathway is designed for students who wish to complete an Associate of Arts - Direct Transfer Agreement degree with a concentration in Gender, Women and Sexuality Studies. Students in this pathway develop skills in critical thinking, writing and verbal communication, analysis and research, cultural competency, and multicultural awareness, as well as collaboration, interpersonal communication, and leadership.

Completion of this program allows students to transfer at the junior level into a Gender and Women Studies or related program at a four-year college or university, as well as opening doors to a variety of careers in sectors including non-profit, business, government, entertainment, and education.

## Global Studies (A.A.-DTA)

This two-year program is designed for students who wish to complete an Associate of Arts - Direct Transfer Agreement degree with an emphasis on Global Studies. This program integrates the study of politics, economics, and the arts with analyses of cultural practices, beliefs, and social systems. Students learn to appreciate and understand world cultures, focus on themes of global significance, and develop an interdisciplinary approach to international issues.

Completion of this program prepares students to transfer at the junior level into a global/international studies program at a four-year college or university. It also opens doors into a variety of careers including translation, education, and work with government and non-profit/non-governmental organizations.

## History (A.A.-DTA)

This two-year pathway is designed for students who wish to complete an Associate of Arts - Direct Transfer Agreement degree with a concentration in History. Students in the program learn how to think historically, hone their written and verbal communication skills, acquire research methods and analytical tools, develop information literacy, and better comprehend how events in the past influence our present.

Completion of this program allows students to transfer at the junior level into several fields of study at a four-year college or university, including History, American Ethnic Studies, Queer Studies, Archeology, Anthropology and more. Completion of this program also opens doors to a variety of careers in museums, government, research, park service, political activism, nonprofits, policy, and education.

## Humanities (A.A.-DTA)

This two-year pathway is designed for students who wish to complete an Associate of Arts - Direct Transfer Agreement degree with a concentration in Humanities & Cultural Studies. Students pursuing this degree combine the study of language, film and media studies, popular culture, literature, multicultural and diversity studies, and philosophy. Students will analyze issues such as race, gender, and class in relation to popular culture, global movements, and social justice, and gain the ability to reason critically, research and communicate effectively.

Completion of this program allows students to transfer at the junior level into several fields of study such as comparative literature, cinema, communications, film studies, comparative history of ideas, English, women/gender/sexuality studies or a related field at a four-year college or university.

## Philosophy (A.A.-DTA)

This two-year pathway is designed for students who wish to complete an Associate of Arts - Direct Transfer Agreement degree with a concentration in Philosophy. Students in this program develop skills in problem solving, analytical thinking, communication, information management, writing, reading and interpretation of text.

Completion of this program allows students to transfer at the junior level into a Philosophy program at a four-year college or university, as well as opening doors to a variety of careers in sectors including non-profit, business, government, entertainment, and education.

## Political Science (A.A.-DTA)

This two-year program is designed for students who wish to complete an Associate of Arts - Direct Transfer Agreement degree with a concentration in Political Science. Students in this pathway develop skills in critical analysis, research, multicultural awareness, communication, information literacy, audience analysis, networking, and leadership. Students will build foundational knowledge of political institutions, policy, American systems, globalization, and political theory.

Completion of this program allows students to transfer at the junior level to a Political Science, Economics, Media & Communications, or a related program at a four-year college or university with core Political Science classes completed. Completion of this degree also opens doors to a variety of careers in fields including public service, government, interest groups, sustainability, businesses, social media, and education.

## Psychology (A.A.-DTA)

This two-year pathway is designed for students who wish to complete an Associate of Arts -Direct Transfer Agreement degree with a concentration in Psychology. Students in this program develop an awareness of human behavior and thinking that will serve them in both personal and professional capacities. Students will also develop skills in critical thinking, research, interpersonal awareness, group communication and collaboration, problem solving, information-finding, and time management.

Completion of this program allows students to transfer at the junior level to a Psychology program at a four-year college or university, as well as opening doors to entry level employment in many sectors including non-profit, social work, healthcare, education, business, and government.

## Social Sciences (A.A.-DTA)

This two-year pathway is designed for students who wish to complete an Associate of Arts – Direct Transfer Agreement degree with a concentration in Social Sciences. Students taking courses in Social Sciences develop skills that are valuable for many 4-year university programs, graduate level programs, as well as various job sectors. Students practice qualitative and quantitative research methods, analytical thinking, critical thinking, and written and oral communication. With additional degrees, students may enter fields such as Law, Social Work, Health, Urban Planning, International Relations, Education, and more.

Completion of this program prepares students with foundational courses to transfer to a four-year college to earn a bachelor's degree in Liberal Arts or other fields, as well as opening doors to a variety of careers including non-profit, business, government, marketing, advertising, social justice, and more.

## Sociology (A.A.-DTA)

This two-year pathway is designed for students who wish to complete an Associate of Arts - Direct Transfer Agreement degree with a concentration in Sociology. Students in this program think from a systems perspective, broaden their worldview, and become thoughtful citizens of the world. Students develop skills in analysis and research, multicultural awareness, computer and technical literacy, group communication and collaboration, interpersonal communication, institutional analysis, critical thinking, reading, and writing.

Completion of this program prepares students with foundational courses to transfer to a four-year college to earn a bachelor's degree in sociology or a related field, as well as opening doors to a variety of careers in sectors including non-profit, business, government, marketing, advertising, social justice, and education.

“ This is the place where I learned I could accomplish anything! ”

– Michael M.

## Technical Theater for Social Justice (A.A.-DTA)

This two-year pathway is designed for students who wish to complete an Associate of Arts – Direct Transfer degree with an emphasis in Technical Theater for Social Justice. You will receive training in technical theatre and film elements including costumes and properties fabrication, stage lighting, electrics, projections, audio engineering, and scenic carpentry and painting. You will also work alongside Union professionals on Intiman's mainstage productions, while studying equity and social justice at the college.

Completion of this program prepares students to transfer to a four-year college to earn a bachelor's degree, or directly apply for IATSE union membership and enter the industry.

## World Languages (A.A.-DTA)

This two-year pathway is designed for students who wish to complete an Associate of Arts-Direct Transfer Agreement degree with a concentration in World Languages/Linguistics. Students in this program develop skills in verbal communication, analysis and research, multicultural awareness, group communication and collaboration, interpersonal communication, and language acquisition. Students will also develop basic computer skills such as typing and using a computer in different languages, Excel, Word, and PowerPoint.

Completion of this program allows students to transfer at the junior level to a Linguistics or specific World Languages program at a four-year college or university. Completion of this degree also opens doors to a variety of careers in sectors including non-profit, healthcare, international business, government, entertainment, legal and education.





# South Seattle College

## Welcome

Welcome to South Seattle College. South has educational opportunities to meet a wide variety of interests and needs, whether on the main campus in West Seattle, through online courses, or at one of the satellite specialty training centers. Real-world experience is emphasized through team-learning projects and portfolio development or through internships and classes that engage students in the learning process.

The main campus is located on 87 wooded acres in West Seattle, overlooking downtown Seattle and Elliott Bay. The six-acre college arboretum is adjacent to the site of the developing Seattle Chinese Garden.

Students can choose from a wide variety of educational opportunities, like career training apprenticeships and certificates; associate degrees, including academic transfer options; high school completion and learning English and basic skills; and even bachelor's degrees. Two Bachelor of Applied Science (BAS) degrees are offered:

- Hospitality Management
- Sustainable Building Science Technology.

South takes pride in celebrating a diverse campus that includes a wide mix of students from regions all over the globe, and our faculty and staff are committed to student success and to helping them turn their academic dreams into reality. As a student, you'll find yourself part of a close-knit community dedicated to making you feel welcome, inspired, and ready to take on the world.

“It was my first time studying here in the U.S. and I can definitely say that I had the best experience I could ever have. Although I only took online classes, the quality of education is awesome. I might not have met the people behind this wonderful school, but the instructors, tutors, advisors, and people working in registration and financial aid gave me the help and support I needed. I just want to thank South Seattle College for a great experience.”

– Ma. Keith R.



## Getting Started at South

<b>Admissions</b>	<b>(206) 934-7943</b>
<b>Financial Aid</b>	<b>(206) 934-5317</b>
<b>Registration</b>	<b>(206) 934-7938</b>
<b>TDD</b>	<b>(206) 934-5845</b>

**[southseattle.edu](http://southseattle.edu)**

## Mission

As an open-access learning institution, Seattle Colleges prepares each student for success in life and work, fostering a diverse, engaged, and dynamic community.

## Vision

Seattle Colleges is recognized as an exemplary learning institution that transforms lives, promotes equity, and enriches the community.

## Core Themes

- Student Achievement
- Teaching and Learning
- College Culture and Climate
- Community Engagement and Partnerships

## Specialized Training Centers

### Georgetown Campus of South Seattle College

**Apprenticeship & Education Center**  
**Washington State Labor, Education and Research Center**  
**Corporate & Customized Training Center**  
**6737 Corson Avenue S**  
**(206) 934-5350 | [georgetown.southseattle.edu](http://georgetown.southseattle.edu)**

South Seattle College’s Georgetown campus is known as the area’s premier workforce education and training center. The Apprenticeship & Education Center is the largest apprenticeship training facility on the West Coast serving over 3,000 apprentices and journey-level workers in more than 50 trades. Georgetown also houses Corporate & Customized Training to meet the education and training needs of the business community.

The Washington State Labor, Education, and Research Center at Georgetown works with unions, community-based organizations and within colleges to provide training and workshops to help working women and men develop the skills, confidence, and knowledge to be leaders at work and in their communities. The BAS in Sustainable Building Science Technology prepares industry professionals to apply expertise and systems knowledge to support highly technical building operations.

A winner of U.S. Department of Labor grant rounds, the Georgetown campus is well-positioned to deliver training and services to people experiencing long-term unemployment, those ready to transition into new careers, and local employers.

### NewHolly Learning Center

**7058 32nd Ave S, Seattle, WA 98118**  
**Second floor of the Learners Building**  
**(206) 934-6642 | [southseattle.edu/programs/newholly-learning-center](http://southseattle.edu/programs/newholly-learning-center)**

NewHolly is a community with the mission to foster the success of youth, adults, and families. In implementing this mission, South Seattle College, along with community partners, values and promotes services that build on strengths, diversity and multiculturalism, public-private collaboration, an open and engaged community, and a commitment to innovation. South Seattle College offers English as a Second Language (ESL) and a corrections training program at NewHolly.

## Harbor Island Training Center

**1731 13th Ave. SW**  
**(206) 934-5394**  
**[southseattle.edu/harbor-island-training-center](http://southseattle.edu/harbor-island-training-center)**

Harbor Island Training Center is a public-private partnership established on-site at Vigor Industrial Shipyards on Harbor Island to train maritime welders for the regional shipbuilding and repair community. This “classroom-in-a-shipyard” is designed to meet the needs of maritime companies in Puget Sound with instructors who are industry professionals teaching the necessary skills students need to become highly employable shipyard welders.

## Facts at a Glance\*

### 2021–2022 ANNUAL PROFILES

Annual Attendance	8,892
<b>Special Enrollments</b>	
Distance Education	4,365
Running Start	426
International Students	179
Worker Retraining	201
<b>Students**</b>	
Average Age	30
Ethnic Diversity	43%
Male/Female	61%/32%
With Bachelor or Higher Degrees	9%
Full-time/Part-time Attendance	35%/65%

### Programs

College Transfer	26%
Career and Technical	58%
Basic Education	10%
Other	6%

### Course Funding Sources

State-funded	89%
Contract-supported	11%
Student-supported	1%

\* Source: Seattle College District Database

## Student Services

### Advising Center

(206) 934-5387

[southseattle.edu/advising](https://southseattle.edu/advising)

The Advising Center assists students to define and meet their educational goals while providing effective referrals to other support services. Services provided by advisors include academic advising and educational planning, college transfer degree information, Professional Technical degree information, assistance with petitions for waivers and/or exceptions, assistance with academic difficulty, transfer planning, monitoring degree progress, and graduation applications. Advisors serve new students and students enrolled in college transfer, professional technical career training, high school diploma (ages 21+), General Education Development (GED®), English as a Second Language (ESL), and undecided students.

### Counseling Services

(206) 934-6409

[southseattle.edu/counseling](https://southseattle.edu/counseling)

Counselors are faculty members who help students and prospective students establish and achieve educational, career, and personal goals based on a comprehensive assessment of their personalities, interests, skills, values, and other resources. South Seattle College has three full-time counselors who hold master's degrees in counseling.

### WorkSource Career Services

(206) 934-5304

[southseattle.edu/worksource/](https://southseattle.edu/worksource/)

**Student & Alum Job Board:** [seattlecolleges.edu/handshake](https://seattlecolleges.edu/handshake)

The WorkSource/Career Services Center offers a full spectrum of employment services to students, alums, and community members, using an innovative "Embedded Career Services" approach that partners with faculty to help students obtain employment upon program completion.

The WorkSource/Career Services Center has self-service labs with multiple computers, career exploration tools, and knowledgeable staff to assist in navigating the internet to apply for positions and research employers.

Individuals may schedule one-on-one appointments with embedded career specialists or WIOA staff members and community partners and participate in workshops focused on creating resumes and interviewing successfully.

### Financial Aid

(206) 934-5317

[southseattle.edu/financial-aid](https://southseattle.edu/financial-aid)

Financial Aid is money provided to help you meet your educational expenses (tuition, books, and some living expenses). Here you'll find how to apply for aid, what financial aid programs are available (federal, state, and institutional), and how to manage your aid. All students should apply for financial aid. WA Grant is one of the most generous financial aid programs in the country. Recent high school graduates and working-age adults from many low- and middle-income families can qualify to receive free money toward career training, college, and apprenticeships.

### Class Schedule – Quarterly

(206) 934.7938

[southseattle.edu/students](https://southseattle.edu/students)

South Seattle produces a quarterly class schedule that lists specific courses offered that quarter. It is available online approximately six weeks before the start of each quarter. To view the online class schedule, visit South Seattle's student home page and click on "class schedule."

### Center for Equity, Inclusion, and Diversity

(206) 934-6831

[southseattle.edu/student-life/](https://southseattle.edu/student-life/)

[center-equity-inclusion-and-diversity](https://southseattle.edu/student-life/center-equity-inclusion-and-diversity)

The Center for Equity, Inclusion, and Diversity empowers student leaders to explore, celebrate, and educate the campus community about the diversity among us. We offer an inclusive and reflective space, multicultural programming, and support services that encourage positive interaction, academic persistence, and growth among students, faculty, and staff.

“The kindness and support that the faculty have shown me over the last three years will be what I remember most about South Seattle College.”

– Denise M.

## Disability Support Services Access Services

(206) 934-5137 (voice)

TTY 1-800-833-6384 or 711 for Washington State relay service  
[southseattle.edu/access-services](https://southseattle.edu/access-services)

Access Services (AS) coordinates services and arranges academic adjustments for students with disabilities at South Seattle College. The AS Office provides accommodations to ensure physical and programmatic access to college services, programs, and activities.

To receive services, students complete an intake appointment with the AS Office and provide documentation of disability. Individualized academic adjustments will then be determined.

Please note that some services may require six weeks or more to arrange. Contact the AS Office as early as possible in your educational planning to avoid delays in service.

This office also offers consultation and resources to faculty in providing academic adjustments to meet the needs of students with disabilities. Accessible technology is available for student use on campus.

*Please see page 62 for specific details and additional information on eligibility and policies.*

## Information Technology Services (ITS)

(206) 934-5844

[itservices.seattlecolleges.edu/](https://itservices.seattlecolleges.edu/)

The college provides a high-speed network linking Windows-based workstations to the internet via a fiber-optic system. At our main campus, we have 27 instructional computer/lab classrooms and three open labs. Our remote sites, Georgetown and NewHolly, have two computer classrooms at each site. Each machine is equipped with a large variety of production software available for student use. Open computer labs are available for use by any student who pays the computer lab fee. A quarterly lab fee is charged at registration, and a student must have a valid Student ID number in order to log on to computers on campus.

“ I’ll remember discovering my purpose, finding my tribe, and the amazing educators that led me to success on my journey! ”

– Joanna D.

## International Programs, WW121

(206) 934-5360

Email: [IntlSouth@seattlecolleges.edu](mailto:IntlSouth@seattlecolleges.edu)  
[intl.seattlecolleges.edu](https://intl.seattlecolleges.edu)

This office provides comprehensive support services for students on non-resident visas studying at South. Key functions of the office include advising on immigration and instructional programs, housing, medical insurance, or personal concerns that may be impacting student success. Field trips and other student activities that help students adjust to life in Seattle and promote intercultural communication and an enhanced experience of American culture are also provided.

*See page 8 for additional International Programs and Services serving the Seattle Colleges, including international student admissions. Study Abroad opportunities are outlined at [intl.seattlecolleges.edu/go-abroad](https://intl.seattlecolleges.edu/go-abroad).*

## Library

(206) 934-6408

[libguides.southseattle.edu/home/](https://libguides.southseattle.edu/home/)

The library supports the college’s mission by providing students, faculty, staff, and the community with the services, information, resources, and equipment necessary to accomplish the college’s academic and institutional goals. The library acquires and maintains relevant collections in a variety of formats and offers services to promote their use and foster information literacy skills in patrons.

The library also plays an active role in the instructional program by offering course-related library instruction and by consulting with faculty about collection development and services. Goals include service excellence through timely, competent, and cheerful service; a comfortable physical environment; and responsiveness to the changing needs of patrons.

The library collection includes over 60,000 print books, reference volumes, and periodicals, as well as more than two dozen databases with access to thousands of periodicals, books, and other sources.



## Opportunity Grant Scholarship

(206) 934-6742

[southseattle.edu/opportunity-grant-scholarship](https://southseattle.edu/opportunity-grant-scholarship)

The goal of the Opportunity Grant Scholarship (OGS) is to assist low-income adults in reaching the educational tipping point and beyond in high-wage, high-demand professional technical careers by providing financial and student support services. Reaching the tipping point allows students to complete 45 credits, receive a credential, and increase job skills and knowledge through career pathways. Students are encouraged to visit the OGS website for further information and the application form.

## Student Assessment Services

(206) 934-6767

[southseattle.edu/student-assessment-services](https://southseattle.edu/student-assessment-services)

Student Assessment Services, as part of its assessment functions, administers placement tests, GED examinations, and various other instruments for students and our community. See the college website for the assessment calendar, links to practice sites, information about the tests, and more. Location: Room 76, Robert Smith Building.

## Running Start

(206) 934-5387

[RunningStart.South@seattlecolleges.edu](mailto:RunningStart.South@seattlecolleges.edu)  
[southseattle.edu/running-start](https://southseattle.edu/running-start)

Running Start allows qualified high school juniors and seniors to register for college-level courses while remaining enrolled at their local high school. Full to partial tuition is paid for by the state; students pay mandatory fees, buy their own books, and provide their own transportation.

To qualify, students must take a placement test and be ready for college-level coursework as a dual enrollment program, students receive both high school and college credit, thus accelerating their progress through the education system. Running Start is a good option for high school students who are ready to start college early.

## Student Assessment Services

(206) 934-6767

[southseattle.edu/student-assessment-services](https://southseattle.edu/student-assessment-services)

Student Assessment Services administers placement tests and other various placement tools for prospective and current students. See the college website for placement options, tools and levels. Location: Robert Smith Building, Room 45 (Enrollment Services)

## Student Success Programs

### AANAPISI

**Asian American Native American Pacific Islander Serving Institution Program**

(206) 934-5221

[southseattle.edu/aanapisi](https://southseattle.edu/aanapisi)

South is one of the first institutions to be designated as an Asian American Native American Pacific Islander Serving Institution (AANAPISI).

The AANAPISI Center is a great place to study and to receive services, including:

- Academic advising
- Professional development on understanding and working with AAPI students
- Deferrals to appropriate campus and community services
- Support from AAPI student groups, such as the Pacific Islander student club
- Study groups
- Tutoring services

### TRiO – Student Success Services

(206) 934-6434

[southseattle.edu/trio/student-success-services](https://southseattle.edu/trio/student-success-services)

Student Success Services promotes student retention by providing students with resources that help them progress in college, graduate, and transfer to four-year universities.

Key features include:

- Educating students about how the college system works and how to improve their academic performance and problem-solving skills
- Creating a welcoming environment where students feel a sense of belonging in the college setting
- Adapting college educational policies and services in response to wide-ranging and changing student development needs

The program's primary components are CLIC (Collaborative Learning and Instruction Center), transfer and scholarship assistance, and information regarding financial aid, economic literacy, and referrals to resources.

Student Success Services is funded through the U.S. Department of Education's Title IV TRiO grants. The program works with first-generation college students, low-income students, and physically and/or learning-disabled students, as outlined in the Department of Education guidelines. Students are encouraged to participate in the program throughout their attendance at South until they graduate or transfer.

## Transfer Resources

(206) 934-5202

[southseattle.edu/transfer-resources](https://southseattle.edu/transfer-resources)

Transfer resources are available to all students wanting to transfer to a four-year college or university to earn a bachelor's degree. Students are guided through the transfer process as they learn about admission guidelines, preparing for their major, writing personal statements, and other important topics. Transfer events, workshops, and fairs are hosted on campus throughout the academic year to connect students directly with representatives from the four-year schools.

## Tutoring Services (Educational Support Services)

### Tutoring Center

(206) 934-6650

[southseattle.edu/tutoring](https://southseattle.edu/tutoring)

Tutoring centers at South Seattle College are committed to the success of South's diverse student population. Within a warm, welcoming and friendly environment, the specialized centers (Business & Accounting, Geek Hauz, MAST, Study Skills, Writing, and WELL) offer helpful and flexible academic support to all students free of charge. Tutoring is provided in-person and online for drop-in, and via appointment for all students enrolled at South.

South Seattle College is a member of the Northwest E-Tutoring Consortium and offers free online tutoring in all subject areas. Students who can't meet with tutors during our normal operating hours are invited to explore the e-tutoring service. Anyone registered at South may use this service to receive online tutoring in writing, math, accounting, biology, and numerous other academic subjects. More information available online at: [southseattle.edu/tutoring/e-tutoring](https://southseattle.edu/tutoring/e-tutoring).

### Business & Accounting Center

(206) 934-6650

[southseattle.edu/tutoring/business-accounting](https://southseattle.edu/tutoring/business-accounting)

Helps with students enrolled in Business, Accounting and Economics courses.

### GEEK HAUZ: Computer Learning Center

Online tutoring only

(206) 934-6650

[southseattle.edu/tutoring/geek-hauz](https://southseattle.edu/tutoring/geek-hauz)

Geek Hauz is available for students enrolled in computer technology courses and students who need help troubleshooting their computer problems, as well as all Year Up enrolled students.

### MAST: The Math and Science Tutoring Center

Library Building - LIB 203

(206) 934-5359

[southseattle.edu/tutoring/mast](https://southseattle.edu/tutoring/mast)

Drop-in help is available for coursework to include, transitional studies, college-level math, chemistry, physics, biology, statistics, and CSC courses.

### Study Skills Tutoring

Robert Smith Building - RSB 16

(206) 934-6650

[southseattle.edu/tutoring/studyskills](https://southseattle.edu/tutoring/studyskills)

Free training in skills students can use in order to learn well and get good grades. Interested students can schedule an appointment through Starfish.

### Writing Center

Robert Smith Building - RSB 16

(206) 934-6650

[southseattle.edu/tutoring/writing-center](https://southseattle.edu/tutoring/writing-center)

The Writing Center tutors assists all South students with any step of the writing process from brainstorming to paragraph development and organization to editing.

### WELL: Writing and English Language Lab

Robert Smith Building - RSB 16

(206) 934-6650

[southseattle.edu/tutoring/well](https://southseattle.edu/tutoring/well)

The Writing and English Learning Lab helps with writing and general language support to South's global community of English language learners. For ESL, IEP, High School 21+, GED, College Prep, I-BEST/Career Training, Pivot Point, or any Professional Technical Career Training courses.

## Veterans Affairs

(206) 934-5811

[southseattle.edu/veterans-affairs-benefits](https://southseattle.edu/veterans-affairs-benefits)

The Veterans Affairs Office at South Seattle serves as a liaison between military veterans, dependents, reservists/guardsmen, and disabled veterans (military service-connected disabilities) and the Department of Veterans Affairs. The office also approves state tuition waivers for eligible veterans and their dependents and is the primary contact for assistance with completing the necessary paperwork required to obtain veteran educational benefits and for guidance on VA regulations regarding educational benefits.

*See page 50 for more information about financial assistance for veterans and military personnel.*

## Welcome Center

206-934-7943

[southwelcomecenter@seattlecolleges.edu](mailto:southwelcomecenter@seattlecolleges.edu)

[southseattle.edu/welcome-center](https://southseattle.edu/welcome-center)

Welcome Center (New Student Services, Outreach, and TRIO Educational Opportunity Center)

Welcome Center is a space where New Student Services, Outreach, and TRIO EOC co-locate to provide support to prospective students for support with enrolling at South. Services offered by Staff include:

- Campus tours
- 1:1 Enrollment Coaching Appointments for support with the enrollment process at South
- Completing the admission application
- Exploring degree and certificate pathways
- Understanding funding options (FAFSA, WASFA, Workforce)
- Navigating Veteran student enrollment

Note-TRIO EOC provides educational resource guidance for South King County residents and is 100% Department of Education funded.

## WorkForce/BFET Programs

(206) 934-5835

[southseattle.edu/workforce-education](https://southseattle.edu/workforce-education)

The Workforce Education Office can help you enter or re-enter the workforce through career training, financial aid assistance, job placement assistance, and academic planning. These services are designed to help you achieve your personal and professional goals. Workforce Education's various tuition assistance programs include dislocated workers, low-income adults, and recipients of Temporary Assistance for Needy Families (TANF) and/or federally issued basic food benefits (SNAP). If you qualify, you may be eligible for help with required tuition, fees, books, and transportation. Academic planning and job-placement assistance is also available to qualifying students.



# Campus Life

## Art Gallery

(206) 934-5337

[southseattle.edu/student-life/art-gallery](https://southseattle.edu/student-life/art-gallery)

The mission of the art gallery is to promote understanding and the appreciation of the arts within the South Seattle College campus and in the surrounding communities. The art gallery mounts exhibitions that contribute to education and cultural enrichment while engaging the college community in learning opportunities and supporting cultural and artistic diversity.

## Bookstore

(206) 934-5338

[bkstr.com/southseattlestore/home](https://bkstr.com/southseattlestore/home)

The Bookstore carries new, used, rental, and digital textbooks, as well as school supplies, clothing, gifts, food, beverages, and greeting cards. Textbooks and other supplies may be purchased online for store pickup or direct shipping. The Bookstore also offers cash for books. The best time to sell is finals week of each quarter.

## Food Services

[southseattle.edu/food-dining](https://southseattle.edu/food-dining)

A variety of meal and snack selections is available in the campus cafeteria/food court, ranging from complete hot meals or quick food items to custom-made sandwiches, beverages, snacks, and takeout items. Both breakfast and lunch items are available.

In addition, Culinary Arts students prepare and serve award-winning cuisine in two dining rooms, also located in the Food Science Building. The Café Alki offers a modern fast-casual experience. The Alhadeff Grill, with more upscale dining, offers a full menu. The dining rooms are open for lunch weekdays during the instructional quarter. Reservations are encouraged at Alhadeff Grill.

Student Life also operates a food pantry, the bookstore has snacks and drinks for sale, and vending machines are located in several campus locations.

## Housing

(206) 934-5332

On-campus housing is not available. However, a bulletin board located in the Jerry Brockey Student Center lists various accommodations available in the local area. Check out the bulletin board for housing needs, or phone with room or apartment rental availability. Flyers can be posted in the Brockey Student Center, Room 135.

## Recreation & Intramurals

### Campus Recreation

(206) 934-6670

[southseattle.edu/student-life/campus-recreation](https://southseattle.edu/student-life/campus-recreation)

Campus Recreation at South includes the Games Room, Fitness Center, outdoor sports court facilities, recreational activities, and intramural sports. The staff, through facilities and services, provides health, wellness, nutritional, and personal growth programs that complement overall learning outcomes and promote student retention and success.

The Games Room offers gaming systems, billiards tables, table tennis, and board games, as well as sports equipment for checkout with a student ID.

Campus Recreation also offers excursions to professional sports games, hiking, kayaking, and team sports on a clubs/intramurals level. Recreational clubs and sports clubs can be formed through our campus recreation department. Contact the recreation coordinator or visit the Game Room Office in the Brockey Student Center, Room 152.

### Fitness Center

(206) 934-6471

[southseattle.edu/student-life/fitness-center](https://southseattle.edu/student-life/fitness-center)

The Fitness Center provides the campus community with an opportunity to promote a healthy lifestyle at this weight-lifting and training facility. Cardio equipment (treadmill, elliptical, stepmill, arc trainer, bike, and rowing machine), resistance equipment (cable weight machines and free weights), lockers, and showers are available. Student ID is required. The Fitness Center is located in the Multi-Purpose Building/Fitness Center.

Check the website for updated hours.

## Campus Safety & Security

**Main Campus: (206) 934-0911**

**Georgetown Campus: (206) 354-6185**

[southseattle.edu/safety-security-emergency-prep](https://southseattle.edu/safety-security-emergency-prep)

Student well-being and safety are of the utmost importance. It is vital that students follow strict safety procedures with equipment in all classes, especially technical-vocational classes. In the event of an on-campus accident or injury, the incident should be reported to the Security Office so an accident report can be completed. Students should immediately call 911 for serious injuries. Instructors must be notified if the accident occurs during class.

*For further information on personal safety, see page 59.*



## Student Clubs

(206) 934-5330

[southseattle.edu/student-life/student-clubs](https://southseattle.edu/student-life/student-clubs)

By getting involved in clubs, students participate in team-building exercises, participate in the campus community, and strengthen their organizational and leadership skills. Students also have the opportunity to organize new student clubs at South. For more information and a list of current student clubs, please contact the club center coordinator or visit the Student Life Office in Brockey Center.

## Student Government

(206) 934-6752

[southseattle.edu/student-life/student-leadership/united-student-association](https://southseattle.edu/student-life/student-leadership/united-student-association)

The United Student Association (USA) is the official governing body for students at South. Student officers are elected each spring to represent student interests. The USA meets weekly. For more information about how to get involved and/or how to become a paid student representative, contact the USA president or vice president. Office mailboxes are located in the Student Life Office, Room 119.

## Student Life Office

(206) 934-5332

[southseattle.edu/student-life](https://southseattle.edu/student-life)

The Office of Student Life in Room 135 of the Brockey Student Center oversees several areas in order to support and assist students in making their experience at South Seattle a successful one, including Phi Theta Kappa Honor Society, student activities, lost and found, student clubs, United Student Association (USA), student development transcript, and a student lounge with free coffee and tea.



## Transportation and Parking

Transportation Coordinator

(206) 934-5157

[southseattle.edu/parking-transportation](https://southseattle.edu/parking-transportation)

### Bus Service

(206) 553-3000 (Metro rider information)

Due to space limitations and environmental concerns, carpooling and bus transportation are strongly encouraged. Students registered for 10 or more credits are eligible to purchase a discounted ORCA transit pass issued by the college at the Cashier's Office. The ORCA pass may be used to ride Community, Everett, Kitsap, Metro, Pierce, and Sound Transit. For inquiries about other transportation options and benefits, contact the campus transportation coordinator.

### Parking Services

(206) 934-5157

[southseattle.edu/parking-transportation](https://southseattle.edu/parking-transportation)

Parking on campus is available to registered students with the purchase of a student parking permit. Permits are available for purchase 30 days prior to the start of the quarter at [seattlecolleges.edu/ParkingPermit](https://seattlecolleges.edu/ParkingPermit) or in person, at the Cashier's Office.

Carpool parking is also available. Please see the Cashier's Office or Transportation Office for details. Parking rules and Washington state motor vehicle laws are enforced. The campus speed limit is 15 mph. Daily parking is available for purchase at a parking machine located in the South or North parking lot. Visitor parking is available in the Visitor lot, located in front of the Robert Smith Building, for short-term parking.

## Veterans Student Center

(206) 934-5308

[southseattle.edu/veteran-affairs-benefits/veterans-student-center/](https://southseattle.edu/veteran-affairs-benefits/veterans-student-center/)

The Veterans Student Center is committed to ensuring that military, veterans, and their families successfully make the transition from the military environment to campus life and are assisted in their progress toward the completion of their educational goals. The Veterans Student Center provides services and activities and coordinates with other campus departments, such as Academic Advising and Counseling, Educational Support Services, and Veteran Affairs.

## Affiliate Organizations

### Foundation Scholarships

#### South Seattle College Foundation

206) 930-7927

[southseattle.edu/foundation-support](https://southseattle.edu/foundation-support)

#### Seattle Colleges Foundation

(206) 934-4100

[southseattle.edu/foundation-support](https://southseattle.edu/foundation-support)

The South Seattle College Foundation, a nonprofit 501(c)(3) tax-exempt organization, promotes and supports educational programs and training pursuits.

The Seattle Colleges Foundation serves the philanthropic needs for each college as well as the Seattle Colleges District as a whole.

Foundation scholarships are awarded multiple times each year.



# Learning Outcomes

## General Education Learning Outcomes

Student Learning Outcomes are also known as General Education Requirements. These are the knowledge and abilities every student should have upon graduating with a certificate or degree from South Seattle College. While each academic or technical program has its own specific outcomes, these outcomes are the core curriculum for the college.

### Communication

- Read and listen actively to learn and communicate
- Speak and write effectively for personal, academic, and career purposes

### Computation

- Use arithmetic and other basic mathematical operations as required by program of study
- Apply quantitative skills for personal, academic, and career purposes

### Human Relations

- Use social skills to work in groups effectively
- Have knowledge of the diverse cultures represented in our multicultural society

### Critical Thinking & Problem-Solving

- Think critically in evaluating information, solving problems, and making decisions

### Technology

- Select and use appropriate technological tools for personal, academic, and career tasks



### Personal Responsibility

- Uphold the highest standards of academic honesty and integrity
- Respect the rights of others in the classroom, online, and in all other school activities.
- Attend class regularly, complete assignments on time, and effectively participate in classroom and online discussions, group work, and other class-related projects and activities.
- Abide by appropriate safety rules in laboratories, shops, and classrooms

### Information Literacy

- Have knowledge about legal and ethical issues related to the use of information
- Use information effectively and ethically for a specific purpose.

## Associate of Science Degree Learning Outcomes

**Students who successfully complete this program will show:**

- An ability to apply knowledge of mathematics and science to complex problems
- An ability to design and conduct experiments, as well as to analyze and interpret data
- An ability to think critically in evaluating information, solving problems, and making decisions
- An ability to function on diverse, multidisciplinary teams
- An ability to access and evaluate information from a variety of sources, including the Internet
- An understanding of professional and ethical responsibility
- An ability to communicate effectively with written, oral, and visual means
- The broad education necessary to understand the impact of scientific and engineering solutions in a global and societal context
- A recognition of the need for and an ability to engage in lifelong learning
- An ability to use modern scientific and engineering techniques, skills, and technology necessary for scientific and engineering practice

## Areas of Study



### ARTS, DESIGN, AND GRAPHICS

#### Painting & Drawing (2D Fine Arts)

This two-year program is designed for students that wish to obtain an Associate of Arts (AA) degree with an emphasis in painting & drawing. Students pursuing this degree develop a foundational knowledge of creating visual forms of expression and communication in two-dimensional media, as well as developing artistic skills and techniques through faculty instruction and hands-on studio work in drawing, painting and more.

Completion of this degree is designed to prepare students for further education at a four-year college or university in fine arts, studio arts, art history, interdisciplinary arts, design or a related field.

#### Ceramics & Sculpture (3D Fine Arts)

This two-year program is designed for students that wish to obtain an Associate of Arts (AA) degree with an emphasis in 3D fine Art in mediums such as ceramics and sculpture. Students pursuing this degree will grow their passion and appreciation for art, while completing the foundational courses required to transfer at the junior level to a four-year university, college or art school.

As a student in this program, you will develop artistic skills and techniques through faculty instruction and hands-on studio work creating functional ceramics and/or sculpture while strengthening a foundational knowledge of 3D composition that is critical to developing representational, spatial and model awareness.

Completion of this degree is designed to prepare students for further education at a four-year college or university in fine arts, art history, design or a related field.

#### Digital Art and Photography (A.A.)

This two-year program is designed for students that wish to obtain an Associate of Arts (AA) degree with a specialization in Digital Art and Digital Photography. Students in this pathway will leave with fluency in Adobe software such as Photoshop, Illustrator, InDesign, Premier, and After Effects. Students will gain skills in photo editing, compositional strategies, and formal design elements. Students will also demonstrate collaborative attitude, skills, and knowledge in Digital Art and Digital Photography, and will learn how to effectively critique and document work through a contemporary lens.

Completion of this degree is designed to prepare students for further education at a four-year college or university in the visual arts such as a Bachelor of Arts degree in Studio Art or Art History, Bachelor of Fine Arts degree or Master of Fine Arts in Visual Art.

#### Music (A.A.)

This two-year program is designed for students that wish to obtain an Associate of Arts (AA) degree with a specialization in Music. In this program, students complete the general education requirements for a bachelor's degree while studying music theory, history and performance. Students will grow as musicians through private instruction and many vocal and instrumental performance opportunities, including large and small ensembles, solo recitals, workshops with professional artists, and regional and national competitions.

This program prepares students to pursue further studies in music or a related field at a four-year college or university, as well as teaching valuable skills that are desirable to employers in a variety of music-related fields, including sound design, composing, recording production and more.



## BUSINESS AND ACCOUNTING

### Accounting Associate of Applied Science Degree (A.A.S.)

#### Technical Education

This program provides a foundation for management trainee positions. Students receive background in accounting, communications skills, law and finance; students gain an understanding of today's business world and business technology. Check with the department for short-term certificate offerings such as Medical Office Assistant.

#### PREREQUISITES

Must enter program with 25 wpm keyboarding skill – if not met, BUS 104 – Keyboarding must be taken in the first quarter

#### TECHNICAL SPECIALTY COURSES

ACCT	110	Introduction to Accounting/Bookkeeping I	5
ACCT	120	Introduction to Accounting/Bookkeeping II	5
ACCT&	203	Principles of Accounting III	5
ACCT	214	Accounting Systems	5
ACCT	257	Business Tax Accounting	5
BUS	104	Keyboarding	3
		If 25 wpm keyboarding speed prerequisite isn't met – BUS 104 must be taken first quarter	
BUS	115	Computational Skillbuilding	2
BUS	175	Applied Business Statistics: Decision-Making App	5
		Following can be substituted: BUS 210 – Business & Economic Statistics (5)	
BUS	177	Spreadsheets	5
BUS&	201	Business Law	5
		Following can be substituted: POLS& 200 – Intro to Law (5)	
BUS	216	Professional Development	5
		Following can be substituted: ACCT 197 – Work Experience – Accounting (3-5)	
BUS	235	Oral Communications in Business	5
		Following can be substituted: CMST& 101 – Introduction to Communication (5)	

#### RELATED INSTRUCTION

BUS&	101	Introduction to Business	5
BUS	116	Business Math/Spreadsheets	5
BUS	131	Integrated Communications I	5
BUS	169	Using Computers in Business	5
BUS	230	Business Communications	5
ECON&	201	Micro Economics	5
		Following can be substituted: ECON& 202 – Macro Economics (5)	
PSYC&	100	General Psychology	5
		Following can be substituted: PSYC 240 – Psychology of Human Relations (3)	

#### RELATED INSTRUCTION – ELECTIVE

Select two of the following:

BUS	170	Information Technology I	5
CTN	120	Databases I	5
SMG	100	Leadership and Supervision	3
SMG	103	Supervising a Diverse Workforce	3
SMG	120	Hiring Personnel	3

TOTAL PROGRAM CREDITS

94-99

### Accounting Associate of Applied Science –Transfer Degree (A.A.S.-T)

#### Technical Education

This program provides a foundation for management trainee positions. Students receive background in accounting, communications skills, law and finance; students gain an understanding of today's business world and business technology. Check with the department for short-term certificate offerings such as Medical Office Assistant.

#### TECHNICAL SPECIALTY COURSES

ACCT	110	Introduction to Accounting/Bookkeeping I	5
		Following can be substituted: ACCT& 201 – Principles of Accounting (5)	
ACCT	120	Introduction to Accounting/Bookkeeping II	5
		Following can be substituted: ACCT& 202 – Principles of Accounting (5)	
ACCT&	203	Principles of Accounting III	5
ACCT	214	Accounting Systems	5
ACCT	257	Business Tax Accounting	5
BUS	104	Keyboarding	3
BUS	115	Computational Skillbuilding	2
BUS	175	Applied Business Statistics: Decision-Making App	5
		Following can be substituted: BUS 210 – Business & Economic Statistics (5) or MATH 109 – Elementary Statistics (5)	
BUS	177	Spreadsheets	5
BUS	200	Law and Society	5
		Following can be substituted: BUS& 201 – Business Law (5)	
BUS	216	Professional Development	5
		Following can be substituted: ACCT 197 – Work Experience – Accounting (5)	
BUS	235	Oral Communications in Business	5
		Following can be substituted: CMST& 101 – Intro to Communication (5)	

#### RELATED INSTRUCTION

BUS&	101	Introduction to Business	5
BUS	169	Using Computers in Business	5
ECON&	201	Micro Economics	5
		Following can be substituted: ECON& 202 – Macro Economics (5)	
ENGL&	101	English Composition I	5
ENGL&	102	Composition II	5

MATH	102	College Algebra	5
PSYC&	100	General Psychology	5

**RELATED INSTRUCTION: ELECTIVE**

Select two of the following:

BUS	170	Information Technology I	5
CTN	120	Databases I	5
SMG	100	Leadership and Supervision	3
SMG	103	Supervising a Diverse Workforce	3
SMG	120	Hiring Personnel	3

TOTAL PROGRAM CREDITS			96-99
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**Accounting Certificate: One-Year**

**Technical Education**

This program provides a foundation for management trainee positions. Students receive background in accounting, communications skills, law and finance; students gain an understanding of today’s business world and business technology. Check with the department for short-term certificate offerings such as Medical Office Assistant.

**PREREQUISITES**

Must enter program with 25 wpm keyboarding skill – if not met, BUS 104 – Keyboarding must be taken in the first quarter

**TECHNICAL SPECIALTY COURSES**

ACCT	110	Introduction to Accounting/Bookkeeping I	5
ACCT	120	Introduction to Accounting/Bookkeeping II	5
ACCT	214	Accounting Systems	5
ACCT	257	Business Tax Accounting	5
BUS	104	Keyboarding	3
If 25 wpm keyboarding speed prerequisite isn’t met – BUS 104 must be taken first quarter			
BUS	115	Computational Skillbuilding	2
BUS	177	Spreadsheets	5

**RELATED INSTRUCTION**

BUS&	101	Introduction to Business	5
BUS	116	Business Math/Spreadsheets	5
BUS	131	Integrated Communications I	5
BUS	169	Using Computers in Business	5
BUS	230	Business Communications	5
PSYC&	100	General Psychology	5

Following can be substituted:  
PSYC 240 – Psychology of Human Relations (3)

TOTAL PROGRAM CREDITS			58-60
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**Business Information Technology Associate of Applied Science Degree (A.A.S.)**

**Technical Education**

This program prepares students for employment as specialists in information processing and office administrative assistant positions requiring computer literacy in word processing, spreadsheet and database business applications.

Completion of Certificate Requirements: 45-47 credits

**TECHNICAL SPECIALTY COURSES**

ACCT	110	Introduction to Accounting/Bookkeeping I	5
ACCT	214	Accounting Systems	5
BUS	113	Diversity Issues in Business	3
BUS	116	Business Math/Spreadsheets	5
BUS	131	Integrated Communications I	5
BUS	140	Customer Relations	5
BUS	169	Using Computers in Business	5
BUS	170	Information Technology I	5
BUS	175	Applied Business Statistics: Decision-Making App	5

Following can be substituted:

BUS 210 – Business & Economic Statistics (5)  
MATH 109 – Elementary Statistics (5)

BUS	177	Spreadsheets	5
BUS	179	Word Processing	5
BUS	182	Information and Database Management	5
BUS	197	Work Experience-Business Occupations	5
BUS	216	Professional Development	5
BUS	230	Business Communications	5
BUS	235	Oral Communications in Business	5

**RELATED INSTRUCTION**

BUS&	101	Introduction to Business	5
BUS&	201	Business Law	5

Following can be substituted:

BUS 200 – Law and Society (5)

PSYC	240	Psychology of Human Relations	3
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Following can be substituted:

PSYC& 100 – General Psychology (5)

**ELECTIVE COURSES**

A minimum of 5 credits in the following areas

■ Visual, Literary, & Performing Arts	
■ Individuals, Cultures, & Societies	
Visual, Literary, and Performing Arts	5
Individual, Cultures, and Societies	5

TOTAL PROGRAM CREDITS		98-100
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## Business Information Technology Associate of Applied Science –Transfer Degree (A.A.S.-T)

### Technical Education

This program prepares students for employment as specialists in information processing and office administrative assistant positions requiring computer literacy in word processing, spreadsheet and database business applications.

### PREREQUISITES

Enter program with 25 wpm keyboarding skills or either one of the following

BUS	104	Keyboarding	3
BUS	106	Keyboarding/Skillbuilding	3

### TECHNICAL SPECIALTY COURSES

ACCT	110	Introduction to Accounting/Bookkeeping I	5
ACCT	214	Accounting Systems	5
BUS&	101	Introduction to Business	5
BUS	113	Diversity Issues in Business	3
BUS	140	Customer Relations	5
BUS	169	Using Computers in Business	5
BUS	170	Information Technology I	5
BUS	175	Applied Business Statistics: Decision-Making App	5

Following can be substituted:

BUS 210 – Business and Economic Statistics (5) MATH			
109 – Elementary Statistics (5)			
BUS	177	Spreadsheets	5
BUS	179	Word Processing	5
BUS	182	Information and Database Management	5
BUS	197	Work Experience-Business Occupations	5
Credit range: 1-15/Total required credits: 5			
BUS&	201	Business Law	5
Following can be substituted:			
BUS 200 – Law and Society (5)			
BUS	216	Professional Development	5
BUS	235	Oral Communications in Business	5

### RELATED INSTRUCTION

ENGL&	101	English Composition I	5
ENGL&	102	Composition II	5
MATH	102	College Algebra	5
PSYC&	100	General Psychology	5

### ELECTIVES

Choose 5 credits from one of the following areas:

Visual, Literary, and Performing Arts	5
Individual, Cultures, and Societies	5

TOTAL PROGRAM CREDITS 100-102

## Business Information Technology (Business Operations and Project Management Support) Certificate

### Technical Education

This program prepares students for employment as specialists in information processing and office administrative assistant positions requiring computer literacy in word processing, spreadsheet and database business applications.

### TECHNICAL SPECIALTY COURSES

BUS	113	Diversity Issues in Business	3
BUS	116	Business Math/Spreadsheets	5
BUS	131	Integrated Communications I	5
BUS	140	Customer Relations	5
BUS	166	Career Development III	2
BUS	169	Using Computers in Business	5
BUS	177	Spreadsheets	5
BUS	197	Work Experience-Business Occupations	5
BUS	299	Special Topics/Business	2
SMG	210	Project Management	3

TOTAL PROGRAM CREDITS 40

## Economics (A.A.)

This pathway is designed to meet Associate of Arts degree requirements with a concentration in Economics. This pre-major pathway prepares you to transfer at the junior level to a four-year college to earn a bachelor's degree in economics, accounting, or another business-related field. In this pathway, you'll study how people's choices to satisfy their wants affect the consumption, production and trade of scarce resources. You'll study topics such as inflation, taxes, pricing, employment, poverty and capitalism. You'll also gain a theoretical framework to explain choices and behavior that can also be successfully applied to other areas of study, including politics, law, history, and education.

## Office Assistant Short-Term Certificate

### Business Information Technology

The Office Assistant Certificate is the first in a series of short term training certificates within the Business Information Technology department. This certificate prepares students for entry-level jobs as member services representatives, customer relations associates, office assistants and front desk agents.

#### TECHNICAL SPECIALTY COURSES

BUS	113	Diversity Issues in Business .....	3
BUS	131	Integrated Communications I .....	5
BUS	140	Customer Relations .....	5
BUS	164	Career Development I .....	2
BUS	169	Using Computers in Business .....	5
TOTAL PROGRAM CREDITS			19

## Supervision & Management Associate of Applied Science Degree (A.A.S.)

### Technical Education

Designed for middle managers seeking to sharpen their skills or attain a promotion, the Supervision and Management program is also open to employees who are interested in advancing to management.

Levels of recognition are provided during progressive phases of the program, including a Certificate in Personnel Management (upon completion of six specific courses), a Certificate in Nonprofit Leadership (upon completion of six specific courses), a Certificate of Achievement (upon completion of a minimum of 55 credits), and an A.A.S. degree (upon completion of the required course of study). The Supervision and Management program is articulated to four-year institutions.

Completion of Certificate Requirements: 55 credits

#### TECHNICAL SPECIALTY COURSES

SMG	100	Leadership and Supervision .....	3
SMG	103	Supervising a Diverse Workforce .....	3
SMG	110	Financial Management .....	3
SMG	120	Hiring Personnel .....	3
SMG	197	Internship or Cooperative Education Experience .....	5
SMG	210	Project Management .....	3
SMG	217	Organizational Behavior .....	3
SMG	220	Personnel Performance Management .....	3
SMG	222	Management and Labor Relations .....	3
SMG	265	Marketing Management .....	3

#### RELATED INSTRUCTION

BUS&	101	Introduction to Business .....	5
BUS	110	Business Mathematics .....	5
BUS	131	Integrated Communications I .....	5
BUS	169	Using Computers in Business .....	5
BUS&	201	Business Law .....	5
BUS	230	Business Communications .....	5
BUS	235	Oral Communications in Business .....	5
PSYC	240	Psychology of Human Relations .....	3
SMG	197	Internship or Cooperative Education Experience .....	5

Credit range: 1-15

Total required internship/co-op experience credits: 5

#### RELATED INSTRUCTION ELECTIVES

Total required credits: 15

Choose minimum of 15 credits from the following areas:

- Accounting
- Computer Science and Technology
- Economics, Trainer Education (OTE)
- College Transfer Track

TOTAL PROGRAM CREDITS

90-95

## Supervision & Management Associate of Applied Science–Transfer Degree (A.A.S.-T)

### Technical Education

Designed for middle managers seeking to sharpen their skills or attain a promotion, the Supervision and Management program is also open to employees who are interested in advancing to management.

Levels of recognition are provided during progressive phases of the program, including a Certificate in Personnel Management (upon completion of six specific courses), a Certificate in Nonprofit Leadership (upon completion of six specific courses), a Certificate of Achievement (upon completion of a minimum of 55 credits), and an A.A.S. degree (upon completion of the required course of study). The Supervision and Management program is articulated to four-year institutions.

#### TECHNICAL SPECIALTY COURSES

BUS&	101	Introduction to Business .....	5
BUS	169	Using Computers in Business .....	5
Following can be substituted:			
CSC 100 – Beginning Computers (5)			
BUS&	201	Business Law .....	5
BUS	230	Business Communications .....	5
BUS	235	Oral Communications in Business .....	5
SMG	100	Leadership and Supervision .....	3
SMG	103	Supervising a Diverse Workforce .....	3
SMG	110	Financial Management .....	3
SMG	120	Hiring Personnel .....	3



SMG	197	Internship or Cooperative Education Experience	5
Credit range: 1-15			
Total required internship/co-op experience credits: 6-8			
SMG	210	Project Management	3
SMG	217	Organizational Behavior	3
SMG	220	Personnel Performance Management	3
SMG	222	Management and Labor Relations	3
SMG	265	Marketing Management	3

**RELATED INSTRUCTION**

ENGL&	101	English Composition I	5
MATH	102	College Algebra	5
PSYC&	100	General Psychology	5

**RELATED INSTRUCTION ELECTIVES**

Total required credits: 17-20

Choose a concentration from the following:  
(minimum of 17-20 credits)

- Accounting
- Computer Science and Technology
- Economics, Trainer Education (OTE)
- College Transfer Track

TOTAL PROGRAM CREDITS			90-95
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**Supervision & Management Certificate**

**Technical Education**

Designed for middle managers seeking to sharpen their skills or attain a promotion, the Supervision and Management program is also open to employees who are interested in advancing to management.

Levels of recognition are provided during progressive phases of the program, including a Certificate in Personnel Management (upon completion of six specific courses), a Certificate in Nonprofit Leadership (upon completion of six specific courses), a Certificate of Achievement (upon completion of a minimum of 55 credits), and an A.A.S. degree (upon completion of the required course of study). The Supervision and Management program is articulated to four-year institutions.

**TECHNICAL SPECIALTY COURSES**

SMG	100	Leadership and Supervision	3
SMG	103	Supervising a Diverse Workforce	3
SMG	110	Financial Management	3
SMG	120	Hiring Personnel	3
SMG	197	Internship or Cooperative Education Experience	5
Credit range: 1-15/Total required internship credits: 5			
SMG	210	Project Management	3
SMG	217	Organizational Behavior	3
SMG	220	Personnel Performance Management	3
SMG	222	Management and Labor Relations	3
SMG	265	Marketing Management	3

**RELATED INSTRUCTION**

BUS	110	Business Mathematics	5
Following can be substituted:			
BUS 116 – Business Mathematics/Spreadsheet (5)			
BUS	131	Integrated Communications I	5
Following can be substituted:			
ENGL& 101 – English Composition I (5)			
BUS	169	Using Computers in Business	5
ability to type 25 wpm			
BUS	230	Business Communications	5
Following can be substituted:			
ENGL& 102 – Composition II (5)			
PSYC	240	Psychology of Human Relations	3
TOTAL PROGRAM CREDITS			55

“What I will remember most from my time at Seattle Colleges are the wonderful advisors, program leaders, staff, classmates, and professors who have always been there for me and my kids with their understanding, encouragement, motivation, help, support, belief, and trust. Because of them, I am here today. Thank you to all of you! This is an amazing community!”  
– Amy Y.



## CULINARY, HOSPITALITY, AND WINE

### Culinary Arts: Banquets & Catering Associate of Applied Science Degree (A.A.S.)

#### Culinary Arts Department

Restaurant industry leaders recognize that the Culinary Arts program at South Seattle College provides outstanding culinary arts training. The program is a member of the prestigious International Association of Culinary Professionals and offers internships and training at partner institutions in Spain, Italy, Ireland, China and France. The department works closely with the hospitality industry to develop innovative, realistic programs that provide students with skills needed for successful employment.

Culinary Arts students learn the food production skills necessary to operate multifaceted food service operations on campus. A Food Court features a cafeteria with classic and contemporary menus, a short order grill, grab-and-go items, and a delicatessen. Two waited-service dining rooms, Café Alki and Alhadeff Grill, feature cooked-to-order menus with preparation typical of upscale restaurants in the Northwest. Food management classes train students in inventory control, operations analysis, purchasing, production, supervision, and personnel management. Students prepare for careers in dining room service, food production, and supervision for hotel, restaurant, catering and institutional food service operations.

The Culinary Arts and Pastry and Baking Arts programs require all uniforms, tools, and books which will be used throughout the program to be purchased by the first day of class. Please check with the Culinary Arts Office for a complete list of uniform and tool kit options, prices, and for a list of required texts.

Completion of Certificate Requirements: 119 credits

#### REQUIREMENTS

To earn an A.A.S degree, students must maintain a minimum cumulative grade point average of 2.0.

#### TECHNICAL SPECIALTY COURSES

FSD	100	Health and Sanitation . . . . .	3
FSD	101	Orientation to Culinary Arts. . . . .	1
FSD	160	Culinary Fundamentals . . . . .	5
FSD	165	Fundamentals of Classical Techniques. . . . .	15
FSD	170	Theory 2 – Advanced Culinary Fundamentals. . . . .	5
FSD	175	Advanced Classical Techniques . . . . .	15
FSD	180	Garde Manger and Menu Development . . . . .	5
FSD	185	Restaurant Production 1 . . . . .	15

FSD	190	Cost Controls. . . . .	5
FSD	195	Restaurant Production 2. . . . .	15
FSD	200	Theory 5 – Management Techniques . . . . .	5
FSD	215	Banquets and Catering . . . . .	15
HOS	203	Commercial Food Nutrition . . . . .	3

#### RELATED INSTRUCTION

ENGL	105	Applied Composition. . . . .	3
ENGL	106	Technical Writing. . . . .	3
MATH	110	Applied Math for Technicians . . . . .	3
PSYC	240	Psychology of Human Relations. . . . .	3

#### ELECTIVES – GENERAL EDUCATION

A minimum of ten (10) elective credits from at least two of the following categories:

Visual, Literary, and Performing Arts . . . . .	5
Individual, Cultures, and Societies . . . . .	5
Science & Mathematics . . . . .	5
Business & Office . . . . .	5
<b>TOTAL PROGRAM CREDITS</b>	<b>129</b>

### Culinary Arts: Banquets & Catering Associate of Applied Science –Transfer Degree (A.A.S.-T)

#### Culinary Arts Department

Restaurant industry leaders recognize that the Culinary Arts program at South Seattle College provides outstanding culinary arts training. The program is a member of the prestigious International Association of Culinary Professionals and offers internships and training at partner institutions in Spain, Italy, Ireland, China and France. The department works closely with the hospitality industry to develop innovative, realistic programs that provide students with skills needed for successful employment.

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The Culinary Arts and Pastry and Baking Arts programs require all uniforms, tools, and books which will be used throughout the program to be purchased by the first day of class. Please check with the Culinary Arts Office for a complete list of uniform and tool kit options, prices, and for a list of required texts.

**REQUIREMENTS**

To earn an A.A.S.-T degree, students must maintain a minimum cumulative grade point average of 2.0.

**TECHNICAL SPECIALTY**

FSD	100	Health and Sanitation	3
FSD	101	Orientation to Culinary Arts	1
FSD	160	Culinary Fundamentals	5
FSD	165	Fundamentals of Classical Techniques	15
FSD	170	Theory 2 – Advanced Culinary Fundamentals	5
FSD	175	Advanced Classical Techniques	15
FSD	180	Garde Manger and Menu Development	5
FSD	185	Restaurant Production 1	15
FSD	190	Cost Controls	5
FSD	195	Restaurant Production 2	15
FSD	200	Theory 5 – Management Techniques	5
FSD	215	Banquets and Catering	15
HOS	203	Commercial Food Nutrition	3

**RELATED INSTRUCTION**

ENGL&	101	English Composition I	5
ENGL&	102	Composition II	5
MATH	102	College Algebra	5
PSYC&	100	General Psychology	5

**ELECTIVES**

A minimum of ten (10) elective credits from at least two of the following categories:

Visual, Literary, and Performing Arts	5
Science & Mathematics	5
Business & Office	5

TOTAL PROGRAM CREDITS 137

## Culinary Arts: Banquets & Catering Certificate

### Culinary Arts Department

Restaurant industry leaders recognize that the Culinary Arts program at South Seattle College provides outstanding culinary arts training. The program is a member of the prestigious International Association of Culinary Professionals and offers internships and training at partner institutions in Spain, Italy, Ireland, China and France. The department works closely with the hospitality industry to develop innovative, realistic programs that provide students with skills needed for successful employment.

Culinary Arts students learn the food production skills necessary to operate multifaceted food service operations on campus. A Food Court features a cafeteria with classic and contemporary menus, a short order grill, grab-and-go items, and a delicatessen. Two waited-service dining rooms, Café Alki and Alhadeff Grill, feature cooked-to-order menus with preparation typical of upscale restaurants in the Northwest. Food management classes train students in inventory control, operations analysis, purchasing, production, supervision, and personnel management. Students prepare

for careers in dining room service, food production, and supervision for hotel, restaurant, catering and institutional food service operations.

The Culinary Arts and Pastry and Baking Arts programs require all uniforms, tools, and books which will be used throughout the program to be purchased by the first day of class. Please check with the Culinary Arts Office for a complete list of uniform and tool kit options, prices, and for a list of required texts.

**TECHNICAL SPECIALTY COURSES**

FSD	100	Health and Sanitation	3
FSD	101	Orientation to Culinary Arts	1
FSD	160	Culinary Fundamentals	5
FSD	165	Fundamentals of Classical Techniques	15
FSD	170	Theory 2 – Advanced Culinary Fundamentals	5
FSD	175	Advanced Classical Techniques	15
FSD	180	Garde Manger and Menu Development	5
FSD	185	Restaurant Production 1	15
FSD	190	Cost Controls	5
FSD	195	Restaurant Production 2	15
FSD	200	Theory 5 – Management Techniques	5
FSD	215	Banquets and Catering	15
HOS	203	Commercial Food Nutrition	3

**RELATED INSTRUCTION**

ENGL	105	Applied Composition	3
ENGL	106	Technical Writing	3
MATH	110	Applied Math for Technicians	3
PSYC	240	Psychology of Human Relations	3

TOTAL PROGRAM CREDITS 119

## Culinary Arts: Pastry & Baking Arts Associate of Applied Science Degree (A.A.S.)

### Culinary Arts Department

The Pastry and Specialty Baking program covers basic and advanced skills in pastry and specialty baking and decorating.

It includes cakes and Danish; French and Swiss pastries; fancy desserts; confections; tortes; fillings; specialty breads; decorating; and sugar and chocolate work. Graduates are prepared for pastry positions in hotels, fine restaurants, clubs, and a variety of positions in retail and wholesale bakeries.

Completion of Culinary Arts: Pastry & Baking Arts certificate requirements: 130 credits

**REQUIREMENTS**

To earn an A.A.S degree in Pastry and Baking Arts, students must:

- maintain a minimum cumulative grade point average of 2.0.
- complete selected Culinary Arts certificate requirements (130 credits)

**TECHNICAL SPECIALTY COURSES**

FSD	100	Health and Sanitation	3
HOS	203	Commercial Food Nutrition	3
PST	101	Pastry and Baking Orientation	5
PST	102	Introduction to Baking Management	5
PST	103	Decoration Theory 1	4
PST	104	Decoration Theory 2	4
PST	105	Decoration Theory 3	4
PST	111	Baking 1	15
PST	112	Pastry 1	15
PST	113	Baking 2	15
PST	211	Pastry 2	15
PST	212	Pastry 3	15
PST	213	Pastry 4	15

**RELATED INSTRUCTION**

ENGL	105	Applied Composition	3
ENGL	106	Technical Writing	3
MATH	110	Applied Math for Technicians	3
PSYC	240	Psychology of Human Relations	3

**ELECTIVES – GENERAL EDUCATION**

A minimum of ten (10) elective credits from at least two of the following categories:

Visual, Literary, and Performing Arts	5
Individual, Cultures, and Societies	5
Science & Mathematics	5
Business & Office	5
<b>TOTAL PROGRAM CREDITS</b>	<b>140</b>

**Culinary Arts: Pastry & Baking Arts Associate of Applied Science –Transfer Degree (A.A.S.-T)**

**Culinary Arts Department**

The Pastry and Specialty Baking program covers basic and advanced skills in pastry and specialty baking and decorating. It includes cakes and Danish; French and Swiss pastries; fancy desserts; confections; tortes; fillings; specialty breads; decorating; and sugar and chocolate work. Graduates are prepared for pastry positions in hotels, fine restaurants, clubs, and a variety of positions in retail and wholesale bakeries.

**REQUIREMENTS**

To earn an A.A.S.-T degree in Pastry and Baking Arts, students must maintain a minimum cumulative grade point average of 2.0.

**TECHNICAL SPECIALTY**

FSD	100	Health and Sanitation	3
HOS	203	Commercial Food Nutrition	3
PST	101	Pastry and Baking Orientation	5
PST	102	Introduction to Baking Management	5

PST	103	Decoration Theory 1	4
PST	104	Decoration Theory 2	4
PST	105	Decoration Theory 3	4
PST	111	Baking 1	15
PST	112	Pastry 1	15
PST	113	Baking 2	15
PST	211	Pastry 2	15
PST	212	Pastry 3	15
PST	213	Pastry 4	15

**RELATED INSTRUCTION**

ENGL&	101	English Composition I	5
ENGL&	102	Composition II	5
MATH	102	College Algebra	5
PSYC&	100	General Psychology	5

**ELECTIVES**

Select 10 credits from the following courses:

Visual, Literary, and Performing Arts	5
Individual, Cultures, and Societies	5
Science & Mathematics	5
Business & Office	5
<b>TOTAL PROGRAM CREDITS</b>	<b>148</b>

**Culinary Arts: Pastry & Baking Arts Certificate**

**Culinary Arts Department**

The Pastry and Specialty Baking program covers basic and advanced skills in pastry and specialty baking and decorating. It includes cakes and Danish; French and Swiss pastries; fancy desserts; confections; tortes; fillings; specialty breads; decorating; and sugar and chocolate work. Graduates are prepared for pastry positions in hotels, fine restaurants, clubs, and a variety of positions in retail and wholesale bakeries.

**TECHNICAL SPECIALTY COURSES**

FSD	100	Health and Sanitation	3
HOS	203	Commercial Food Nutrition	3
PST	101	Pastry and Baking Orientation	5
PST	102	Introduction to Baking Management	5
PST	103	Decoration Theory 1	4
PST	104	Decoration Theory 2	4
PST	105	Decoration Theory 3	4
PST	111	Baking 1	15
PST	112	Pastry 1	15
PST	113	Baking 2	15
PST	211	Pastry 2	15
PST	212	Pastry 3	15
PST	213	Pastry 4	15

**RELATED INSTRUCTION**

ENGL	105	Applied Composition	3
ENGL	106	Technical Writing	3
MATH	110	Applied Math for Technicians	3
PSYC	240	Psychology of Human Relations	3

<b>TOTAL PROGRAM CREDITS</b>	<b>130</b>
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## Culinary Arts: Restaurant Production Associate of Applied Science Degree (A.A.S.)

### Culinary Arts Department

The Restaurant Production Associate of Applied Science (AAS) degree assists students in learning the food production skills necessary to operate multifaceted food service operations. Food management classes also train students in inventory control, operations analysis, purchasing, production, supervision, and personnel management.

Students hone their craft through operating South's Food Court (featuring classic and contemporary menus, a short order grill, grab-and-go items and a delicatessen) and Alhadeff Grill, a waited-service dining room featuring cooked-to-order menus with preparation typical of upscale restaurants in the Pacific Northwest.

The department works closely with the hospitality industry to develop innovative, realistic programs that provide students with skills needed for successful employment.

This degree is for those who are focused on learning a skills needed for immediate employment in the culinary industry.

#### PROGRAM PREREQUISITE

Students must meet with an advisor for entry into this program. A placement test is required to ensure language and computational skills are sufficient for program success.

#### REQUIREMENTS

To earn an A.A.S degree, students must maintain a minimum cumulative grade point average of 2.0.

#### TECHNICAL SPECIALTY COURSES

FSD	100	Health and Sanitation	3
FSD	165	Fundamentals of Classical Techniques	15
FSD	175	Advanced Classical Techniques	15
FSD	185	Restaurant Production 1	15
FSD	195	Restaurant Production 2	15
FSD	205	Leadership Practicum	15
FSD	210	Intro Sustainable Food Systems	5

#### RELATED INSTRUCTION

BUS	116	Business Math/Spreadsheets	5
ENGL	107	Applied Composition	5
NUTR&	101	Nutrition	5
PSYC	240	Psychology of Human Relations	3
		Following can be substituted:	
		BUS 113 – Diversity Issues in Business	

TOTAL PROGRAM CREDITS 101

## Culinary Arts: Restaurant Production Associate of Applied Science –Transfer Degree (A.A.S.-T)

### Culinary Arts Department

The Restaurant Production Associate of Applied Science Transfer (AAS-T) degree assists students in learning the food production skills necessary to operate multifaceted food service operations. Food management classes also train students in inventory control, operations analysis, purchasing, production, supervision, and personnel management.

Students hone their craft through operating South's Food Court (featuring classic and contemporary menus, a short order grill, grab-and-go items and a delicatessen) and Alhadeff Grill, a waited-service dining room featuring cooked-to-order menus with preparation typical of upscale restaurants in the Pacific Northwest.

The department works closely with the hospitality industry to develop innovative, realistic programs that provide students with skills needed for successful employment.

This degree is designed for students to learn technical skills for employment, but who may also want to transfer to a Bachelor of Applied Science (BAS) degree program or a four-year institution.

#### PROGRAM PREREQUISITE

Students must meet with an advisor for entry into this program. A placement test is required to ensure language and computational skills are sufficient for program success.

#### REQUIREMENTS

To earn an A.A.S.-T degree, students must maintain a minimum cumulative grade point average of 2.0.

#### TECHNICAL SPECIALTY

FSD	100	Health and Sanitation	3
FSD	165	Fundamentals of Classical Techniques	15
FSD	175	Advanced Classical Techniques	15
FSD	185	Restaurant Production 1	15
FSD	195	Restaurant Production 2	15
FSD	205	Leadership Practicum	15
FSD	210	Intro Sustainable Food Systems	5

#### RELATED INSTRUCTION

ENGL&	101	English Composition I	5
MATH&	107	Math in Society	5
NUTR&	101	Nutrition	5
PSYC&	100	General Psychology	5

TOTAL PROGRAM CREDITS 103

## Culinary Arts: Restaurant Production Certificate

### Culinary Arts Department

The Restaurant Production Certificate program assists students in learning the food production skills necessary to operate multifaceted food service operations. Food management classes also train students in inventory control, operations analysis, purchasing, production, supervision, and personnel management.

Students hone their craft through operating South’s Food Court (featuring classic and contemporary menus, a short order grill, grab-and-go items and a delicatessen) and Alhadeff Grill, a waited-service dining room featuring cooked-to-order menus with preparation typical of upscale restaurants in the Pacific Northwest.

The department works closely with the hospitality industry to develop innovative, realistic programs that provide students with skills needed for successful employment.

#### PROGRAM PREREQUISITE

Students must meet with an advisor for entry into this program. A placement test is required to ensure language and computational skills are sufficient for program success.

#### TECHNICAL SPECIALTY COURSES

FSD	100	Health and Sanitation	3
FSD	165	Fundamentals of Classical Techniques	15
FSD	175	Advanced Classical Techniques	15
FSD	185	Restaurant Production 1	15
FSD	210	Intro Sustainable Food Systems	5

#### RELATED INSTRUCTION

BUS	116	Business Math/Spreadsheets	5
ENGL	107	Applied Composition	5
PSYC	240	Psychology of Human Relations	3
Following can be substituted:			
BUS 113 – Diversity Issues in Business (3)			

TOTAL PROGRAM CREDITS 66

“Being part of South Seattle Culinary College has exposed me to a community of like-minded individuals who share a passion for food. The friendships and connections formed with fellow students have created lasting memories and will provide a supportive network within the culinary industry.”

– Stanley G.

## Hospitality Management Bachelor of Applied Science Degree (BAS)

### Technical Education

The Bachelor of Applied Science (B.A.S.) in Hospitality Management at South Seattle College prepares those students who have completed a two-year technical degree or approved associate degree with a broad skill set of competencies in the hospitality industry.

Students take upper-division classes to prepare for management, marketing, human resource, and technical positions in all facets of the hospitality industry, including tourism, hotel operation, restaurant management, catering, cruise ship-casino operations, and travel. Students will have opportunities to gain occupational competencies through internships and networking with industry leaders.

This program is unique in its focus to provide applied management training to students in the region’s largest hospitality industry.

AA degree or higher from a regionally accredited college or university.

#### TECHNICAL SPECIALTY COURSES

HMG	301	Introduction to Hospitality	3
HMG	302	Hospitality Management	5
HMG	303	Hospitality Marketing	5
HMG	310	Hospitality Computer Applications	3
HMG	311	Lodging Operations	3
HMG	312	Legal Issues in Hospitality	3
HMG	313	Entrepreneurship	3
HMG	314	Diversity and Culture in Travel and Tourism	5
HMG	401	Cost Controls	5
HMG	402	Hospitality Accounting	5
HMG	411	Human Resource Management	3
HMG	412	Service Operations Management	5
HMG	420	Ethical Leadership	3
HMG	489	Professional Career Development	1
HMG	490	Internship Lecture	3
HMG	491	Hospitality Management Capstone	5

#### BASIC REQUIREMENTS

ENGL&	101	English Composition I	5
Visual, Literary, and Performing Arts			10
Individual, Cultures, and Societies			5
Mathematics			5

Following can be substituted: Select from one of the following courses or higher level MATH course:

- MATH& 107\* - Math in Society (5)
- MATH 116\* - App Math in Mgt Life SS (5)
- MATH& 141\* - PreCalculus I (5)

\* Indicates Quantitative & Symbolic Reasoning (QSR)

**GENERAL EDUCATION COURSES**

ENGL& 102	Composition II	5
	Natural World, the	5
	Communication	5
	any communications or writing course	
	Recommended course: CMST& 220 - Public Speaking	
	General Education Elective	10
	Students should consider taking either of the following if they need statistics:	
	BUS 210 - Bus & Econ Statistic (5)	
	MATH& 146 - Introduction to Stats (5)	
	Lab Science	5
	See Advising for list of approved courses.	
	Economics	5
	Select from one of the following:	
	ECON& 201 - Micro Economics (5)	
	ECON& 202 - Macro Economics (5)	
<b>TOTAL PROGRAM CREDITS</b>		<b>180</b>

## Meatcutter Associate of Applied Science –Transfer Degree (A.A.S.-T)

**Georgetown Campus**

The Meatcutter program allows individuals completing approved apprenticeship programs to earn an AAS-T degree. To earn the degree, candidates must have certification from their JATC that they have completed an apprenticeship program of at least credits 50 credits: 4000 hours structured On-The Job-Training (OJT) and 300 hours related supplemental instruction courses. In addition, the program requires a minimum of 20 credits of general education (Transfer level) requirements (communications, quantitative reasoning, English composition, and social science) and 30 credits of professional-technical courses in nutrition, culinary, and business. These courses may be taken at any time during the apprenticeship program prior to or after the certification from the JATC. Students must complete a total of 90 credits of instruction to receive the AAS-T Degree.

**TECHNICAL SPECIALTY COURSES**

HAR	141	Introduction to Principles of Meatcutting	5.5
HAR	142	Principles of Meatcutting II	5
HAR	143	Principles of Meatcutting III	5
HAR	151	Meatcutting IV	5.5
HAR	152	Meatcutting V	4
HAR	153	Principles of Meatcutting VI	3.5

**GENERAL EDUCATION COURSES**

	Written Composition – Transfer Level 100+	5
	Communication – Transfer Level 100+	5
	Quantitative Reasoning – Transfer Level 100+	5
	Social Science – Transfer Level 100+	5

**RELATED INSTRUCTION**

BUS&	101	Introduction to Business	5
		Following can be substituted:	
		BUS 114 – Intro to Marketing (5)	
FSD	160	Culinary Fundamentals	5
FSD	170	Theory 2 – Advanced Culinary Fundamentals	5
		Following can be substituted:	
		FSD 180 – Theory 3 – Garde Manger (5)	
	Nutrition – Transfer Level 100+		5

**ON-THE-JOB TRAINING (OJT)**

Total of 20 credits (4000 hours) in structured on-the-job training is required.

<b>TOTAL PROGRAM CREDITS</b>	<b>90</b>
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## Wine Industry: Food & Wine Pairing Associate of Applied Science Degree (A.A.S.)

**Culinary Arts Department**

The program provides introductory and professional development classes relating to the wine industry, including certificates, Associate of Arts and Associate of Arts-T degrees in these areas: Wine Making (learning to produce quality wines and develop an individual style of wine); Wine Marketing and Sales; and Food and Wine Pairing (the intricacies of bridging food and wine). The program prepares individuals for careers in the wine industry, and provides advanced skill training for those already employed in the industry.

**PROGRAM PREREQUISITE**

Must be 21 years or order to apply.

**TECHNICAL SPECIALTY COURSES**

WIN	101	Introduction to Enology & Viticulture	4
WIN	121	Introduction to Viticulture	3
WIN	123	Sensory Evaluation	4
WIN	131	Introduction to Washington Wines	4
WIN	132	Wine History: Ancient Times to the Enlightenment	3
WIN	133	Introduction to Wines of the World	4
WIN	151	Introduction to Food and Wine Pairing	4
WIN	152	Advanced Food and Wine Pairing	4
WIN	153	Food and Wine Pairing – Varietals I	4
WIN	154	Food and Wine Pairing – Varietals II	4
WIN	155	Food and Wine Pairing – Varietals III	4
WIN	156	Food and Wine Pairing – Fortified Wines	2
WIN	157	Food and Wine Pairing – Desserts	2
WIN	197	Internship in Wine Technology	3

**REQUIRED COURSES**

ACCT	110	Introduction to Accounting/Bookkeeping I . . . . .	5
Following can be substituted:			
ACCT& 201 – Principals of Accounting I (5)			
BUS&	101	Introduction to Business . . . . .	5
BUS&	201	Business Law . . . . .	5
Following can be substituted:			
POLS& 200 – Intro to Law (5)			
BUS	235	Oral Communications in Business . . . . .	5
Following can be substituted:			
CMST& 210 – Interpersonal Communication (5) or			
CMST& 220 – Public Speaking (5)			
SMG	210	Project Management . . . . .	3

**REQUIRED COURSES – ELECTIVE**

Take 15 credits from the following courses:

BUS	140	Customer Relations . . . . .	5
BUS	169	Using Computers in Business . . . . .	5
BUS	170	Information Technology I . . . . .	5
BUS	177	Spreadsheets . . . . .	5
BUS	182	Information and Database Management . . . . .	5
CTN	160	Web Production I . . . . .	5

**RELATED INSTRUCTION**

BUS	116	Business Math/Spreadsheets . . . . .	5
ENGL	105	Applied Composition . . . . .	3
PSYC	240	Psychology of Human Relations . . . . .	3

**GENERAL EDUCATION ELECTIVES**

Visual, Literary, and Performing Arts . . . . .			10
A minimum of 10 credits from two (2) courses in the above area			

TOTAL PROGRAM CREDITS 104

For more information on the wine industry program, visit South Seattle's Wine Studies page at: [southseattle.edu/programs/proftech/wine](https://southseattle.edu/programs/proftech/wine).

## Wine Industry: Food & Wine Pairing Associate of Applied Science –Transfer Degree (A.A.S.-T)

**Culinary Arts Department**

The program provides introductory and professional development classes relating to the wine industry, including certificates, Associate of Arts and Associate of Arts-T degrees in these areas: Wine Making (learning to produce quality wines and develop an individual style of wine); Wine Marketing and Sales; and Food and Wine Pairing (the intricacies of bridging food and wine). The program prepares individuals for careers in the wine industry, and provides advanced skill training for those already employed in the industry.

**PROGRAM PREREQUISITE**

Must be 21 years or older to apply.

**TECHNICAL SPECIALTY COURSES**

WIN	101	Introduction to Enology & Viticulture . . . . .	4
WIN	121	Introduction to Viticulture . . . . .	3
WIN	123	Sensory Evaluation . . . . .	4
WIN	131	Introduction to Washington Wines . . . . .	4
WIN	132	Wine History: Ancient Times to the Enlightenment . . . . .	3
WIN	133	Introduction to Wines of the World . . . . .	4
WIN	151	Introduction to Food and Wine Pairing . . . . .	4
WIN	152	Advanced Food and Wine Pairing . . . . .	4
WIN	153	Food and Wine Pairing – Varietals I . . . . .	4
WIN	154	Food and Wine Pairing – Varietals II . . . . .	4
WIN	155	Food and Wine Pairing – Varietals III . . . . .	4
WIN	156	Food and Wine Pairing – Fortified Wines . . . . .	2
WIN	157	Food and Wine Pairing – Desserts . . . . .	2
WIN	197	Internship in Wine Technology . . . . .	5
Total Required Credits:			3

**REQUIRED COURSES**

ACCT	110	Introduction to Accounting/Bookkeeping I . . . . .	5
Following can be substituted:			
ACCT& 201 – Principals of Accounting I (5)			
BUS&	101	Introduction to Business . . . . .	5
BUS&	201	Business Law . . . . .	5
Following can be substituted:			
POLS& 200 – Intro to Law (5)			
BUS	235	Oral Communications in Business . . . . .	5
Following can be substituted:			
CMST& 210 – Interpersonal Communication (5) or			
CMST& 220 – Public Speaking (5)			
SMG	210	Project Management . . . . .	3

**REQUIRED COURSES – ELECTIVE**

Take 15 credits from the following courses:

BUS	140	Customer Relations . . . . .	5
BUS	169	Using Computers in Business . . . . .	5
BUS	170	Information Technology I . . . . .	5
BUS	177	Spreadsheets . . . . .	5
BUS	182	Information and Database Management . . . . .	5
CTN	160	Web Production I . . . . .	5

**RELATED INSTRUCTION**

ENGL&	101	English Composition I . . . . .	5
MATH	102	College Algebra . . . . .	5
PSYC&	100	General Psychology . . . . .	5

**GENERAL EDUCATION ELECTIVES**

Visual, Literary, and Performing Arts . . . . .			10
A minimum of 10 credits from two (2) courses in the above area			

TOTAL PROGRAM CREDITS 108

For more information on the wine industry program, visit South Seattle's Wine Studies page at: [southseattle.edu/programs/proftech/wine](https://southseattle.edu/programs/proftech/wine).



## Wine Industry: Food & Wine Pairing Certificate

### Culinary Arts Department

The Food & Wine Pairing Certificate program specializes in the concepts of bridging the intricacies of food and wine. Discover what constitutes a successful pairing; study what foods are compatible with various wine varietals; learn how to prepare a menu appropriate to your wine selections.

Students in this program utilize their training by preparing food and managing on-campus events. Students also learn good service techniques and wine terminology. These classes are intended for novices as well as for professionals who are expanding their level of knowledge and skills.

#### PROGRAM PREREQUISITE

Must be 21 years or older to apply.

#### TECHNICAL SPECIALTY COURSES

WIN	101	Introduction to Enology & Viticulture	4
WIN	121	Introduction to Viticulture	3
WIN	123	Sensory Evaluation	4
WIN	131	Introduction to Washington Wines	4
WIN	133	Introduction to Wines of the World	4
WIN	151	Introduction to Food and Wine Pairing	4
WIN	152	Advanced Food and Wine Pairing	4
WIN	160	Sommelier Service and Beverage Management	4

#### TECHNICAL SPECIALTY ELECTIVES

Select 9 credits from any WIN course not already taken.

WIN course	3
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#### RELATED INSTRUCTION

ENGL	107	Applied Composition	5
MATH	110	Applied Math for Technicians	3
PSYC	240	Psychology of Human Relations	3

TOTAL PROGRAM CREDITS 46

For more information on the wine industry program, visit South Seattle's Wine Studies page at: [southseattle.edu/programs/proftech/wine](http://southseattle.edu/programs/proftech/wine).

“During my time here at South, I have thoroughly enjoyed getting to know all of my classmates and teachers. With the small class sizes, we were given the chance to form real relationships and create lifetime friendships. I'm sad to go, but excited to see where all of my classmates end up.”

– Chloe B.

## Wine Industry: Marketing and Sales of Food & Wine Associate of Applied Science Degree (A.A.S.)

### Culinary Arts Department

With the Marketing & Sales of Food & Wine Associate of Applied Science (AAS) degree, you will learn the necessary information to become a certified sommelier (wine history and origin expertise along with matching wines to foods) and what it takes to effectively market and promote wine and food. The program prepares students for a career involving selling wine to wholesalers, retailers, restaurants, and to the public as a winery or hospitality industry entrepreneur or employee.

Students study marketing techniques, including packaging, pricing and branding of wines; explore the demographics of wine sales and marketing of brands throughout the world; and learn about compliance and government regulations.

Students gain practical experience by working in retail sales, packaging, advertising and promotion of wine and food in our on-campus tasting room. Emphasis is placed on merchandising, marketing of products, labeling, online sales, inventory, government compliance, social media, and wine club. Additionally, students work at our interactive wine release events, and are given opportunities to work at many industry events throughout Seattle and Washington State.

#### PROGRAM PREREQUISITE

Must be 21 years or older to apply.

Students must meet with an advisor for entry into this program. A placement test is required to ensure language and computational skills are sufficient for program success.

#### TECHNICAL SPECIALTY COURSES

WIN	101	Introduction to Enology & Viticulture	4
WIN	123	Sensory Evaluation	4
WIN	130	Wine Tourism	4
WIN	131	Introduction to Washington Wines	4
WIN	132	Wine History: Ancient Times to the Enlightenment	3
WIN	133	Introduction to Wines of the World	4
WIN	140	Tasting Room Management	4
WIN	141	Wine Marketing and Sales	4
WIN	142	Wine Business -Winery Operations	4
WIN	143	Wine Business-Distribution Network and Suppliers	4
WIN	145	Wine Business – Entrepreneurship and Innovation	4
WIN	150	Winery Compliance: Taxes and Legal Issues	2
WIN	151	Introduction to Food and Wine Pairing	4
WIN	152	Advanced Food and Wine Pairing	4
WIN	160	Sommelier Service and Beverage Management	4
WIN	170	Food & Wine Pairing: Other Ferments	4
WIN	233	Advanced Wines of the World – France & Spain	4

WIN	235	Advanced Wines of the World: New World . . . .	3
WIN	257	Advanced Food and Wine Pairing Dessert . . . .	4

**RELATED INSTRUCTION**

BUS	116	Business Math/Spreadsheets . . . . .	5
ENGL	107	Applied Composition . . . . .	5
PSYC	240	Psychology of Human Relations . . . . .	3
Following can be substituted:			
BUS 113 – Diversity Issues in Business (3)			
Visual, Literary, and Performing Arts . . . . .	5		
Following can be substituted:			
Individuals, Cultures, and Societies (5) or			
The Natural World (5)			

TOTAL PROGRAM CREDITS 92

For more information on the wine industry program, visit South Seattle’s Wine Studies page at: [southseattle.edu/programs/wine-studies](http://southseattle.edu/programs/wine-studies).

**Wine Industry: Marketing and Sales of Food & Wine Associate of Applied Science – Transfer Degree (A.A.S.-T)**

**Culinary Arts Department**

With the Marketing & Sales of Food & Wine Associate of Applied Science Transfer (AAS-T) degree, you will learn the necessary information to become a certified sommelier (wine history and origin expertise along with matching wines to foods) and what it takes to effectively market and promote wine and food. The program prepares students for a career involving selling wine to wholesalers, retailers, restaurants, and to the public as a winery or hospitality industry entrepreneur or employee.

Students study marketing techniques, including packaging, pricing and branding of wines; explore the demographics of wine sales and marketing of brands throughout the world; and learn about compliance and government regulations.

Students gain practical experience by working in retail sales, packaging, advertising and promotion of wine and food in our on-campus tasting room. Emphasis is placed on merchandising, marketing of products, labeling, online sales, inventory, government compliance, social media, and wine club. Additionally, students work at our interactive wine release events, and are given opportunities to work at many industry events throughout Seattle and Washington State.

**PROGRAM PREREQUISITE**

Must be 21 years or older to apply.

Students must meet with an advisor for entry into this program. A placement test is required to ensure language and computational skills are sufficient for program success.

**TECHNICAL SPECIALTY COURSES**

WIN	101	Introduction to Enology & Viticulture . . . . .	4
WIN	123	Sensory Evaluation . . . . .	4
WIN	130	Wine Tourism . . . . .	4
WIN	131	Introduction to Washington Wines . . . . .	4
WIN	132	Wine History: Ancient Times to the Enlightenment . . . . .	3
WIN	133	Introduction to Wines of the World . . . . .	4
WIN	140	Tasting Room Management . . . . .	4
WIN	141	Wine Marketing and Sales . . . . .	4
WIN	142	Wine Business – Winery Operations . . . . .	4
WIN	143	Wine Business-Distribution Network and Suppliers . . . . .	4
WIN	145	Wine Business – Entrepreneurship and Innovation . . . . .	4
WIN	150	Winery Compliance: Taxes and Legal Issues . . . . .	2
WIN	151	Introduction to Food and Wine Pairing . . . . .	4
WIN	152	Advanced Food and Wine Pairing . . . . .	4
WIN	160	Sommelier Service and Beverage Management . . . . .	4
WIN	170	Food & Wine Pairing: Other Ferments . . . . .	4
WIN	233	Advanced Wines of the World – France & Spain . . . . .	4
WIN	235	Advanced Wines of the World: New World . . . . .	3
WIN	257	Advanced Food and Wine Pairing Dessert . . . . .	4

**RELATED INSTRUCTION**

ENGL&	101	English Composition I . . . . .	5
MATH&	107	Math in Society . . . . .	5
PSYC&	100	General Psychology . . . . .	5
Visual, Literary, and Performing Arts . . . . .	5		
Following can be substituted:			
Individuals, Cultures, and Societies (5) or			
The Natural World (5)			

TOTAL PROGRAM CREDITS 94

For more information on the wine industry program, visit South Seattle’s Wine Studies page at: [southseattle.edu/programs/wine-studies](http://southseattle.edu/programs/wine-studies).

## Wine Industry: Marketing and Sales of Food & Wine Certificate

### Culinary Arts Department

The Marketing and Sales of Food & Wine Certificate program prepares students for a career involving selling wine to wholesalers, retailers, restaurants and the public. Students study marketing techniques, including packaging, pricing and branding of wines; explore the demographics of wine sales and marketing of brands throughout the world; and learn about compliance and government regulations.

Students gain practical experience by working in retail sales, packaging, advertising and promotion of wine in our on-campus tasting room. Emphasis is placed on merchandising, marketing of products, labeling, online sales, inventory, government compliance, social media, and wine club. Additionally, students work at our interactive wine release events, and are given opportunities to work at many industry events throughout Seattle and Washington State.

#### PROGRAM PREREQUISITE

Must be 21 years or order to apply.

Students must meet with an advisor for entry into this program. A placement test is required to ensure language and computational skills are sufficient for program success.

#### TECHNICAL SPECIALTY COURSES

WIN	101	Introduction to Enology & Viticulture.....	4
WIN	123	Sensory Evaluation.....	4
WIN	132	Wine History: Ancient Times to the Enlightenment.....	3
WIN	133	Introduction to Wines of the World.....	4
WIN	141	Wine Marketing and Sales.....	4
WIN	142	Wine Business – Winery Operations.....	4
WIN	151	Introduction to Food and Wine Pairing.....	4
WIN	160	Sommelier Service and Beverage Management.....	4
WIN	257	Advanced Food and Wine Pairing Dessert.....	4

#### RELATED INSTRUCTION

BUS	116	Business Math/Spreadsheets.....	5
ENGL	107	Applied Composition.....	5
PSYC	240	Psychology of Human Relations.....	3
Following can be substituted:			
BUS 113 – Diversity Issues in Business (3)			

TOTAL PROGRAM CREDITS 49

For more information on the wine industry program, visit South Seattle's Wine Studies page at: [southseattle.edu/programs/wine-studies](http://southseattle.edu/programs/wine-studies).

## Wine Industry: Wine Business Entrepreneurship Short-Term Certificate

### Culinary Arts Department

This certificate prepares students for a career in a wine related business through understanding the components of successful related business practices and decisions faced by entrepreneurs. Concepts of financial management and business plan development, compliance and government regulations, branding, marketing, and advertising processes and techniques, and the importing, exporting, and distribution and selling of wines throughout the world.

This program prepares students for employment in careers such as Direct Sales Manager, Wine Distributor Sales, Sales Representative Wholesale, Marketing Coordinator, Compliance Manager, Wine Steward Retail, Wine Merchandiser, Tasting Room Manager, Marketing and Office Management.

#### TECHNICAL SPECIALTY COURSES

WIN	133	Introduction to Wines of the World.....	4
WIN	141	Wine Marketing and Sales.....	4
WIN	142	Wine Business -Winery Operations.....	4
WIN	143	Wine Business-Distribution Network and Suppliers.....	4
WIN	145	Wine Business – Entrepreneurship and Innovation.....	4

TOTAL PROGRAM CREDITS 17

## Wine Industry: Wine Production Associate of Applied Science Degree (A.A.S.)

### Culinary Arts Department

The Wine Production Associate of Applied Science (AAS) Degree program teaches the basic knowledge and skills necessary to produce quality wines. Students study wine production from vine to bottle, including up-to-date winery practices and day-to-day operations. They learn the chemistry of wine and how it can be used to affect winemaking decisions. They also learn how viticulture practices affect wine quality. In addition to classroom learning, students get hands-on experience by participating in a full year of winery operations in our state-of-the-art commercial teaching winery.

Grapes are donated by renowned growers throughout Washington State. Students pick, sort, ferment and see the grapes through to the finished product.

#### PROGRAM PREREQUISITE

Must be 21 years or order to apply.

Students must meet with an advisor for entry into this program. A placement test is required to ensure language and computational skills are sufficient for program success.

**TECHNICAL SPECIALTY COURSES**

HDM	171	Lift Truck Operator	2
WIN	101	Introduction to Enology & Viticulture	4
WIN	103	Elements of Wine Production	4
WIN	104	Elements of Wine Production II	4
WIN	105	Elements of Wine Production III	4
WIN	107	Winery Production I	1
WIN	108	Winery Production II	1
WIN	109	Winery Production III	1
WIN	112	Wine Science	5
WIN	122	Wine Chemistry and Microbiology	4
WIN	123	Sensory Evaluation	4
WIN	131	Introduction to Washington Wines	4
WIN	133	Introduction to Wines of the World	4
WIN	140	Tasting Room Management	4
WIN	141	Wine Marketing and Sales	4
WIN	142	Wine Business -Winery Operations	4
WIN	143	Wine Business-Distribution Network and Suppliers	4
WIN	145	Wine Business – Entrepreneurship and Innovation	4
WIN	150	Winery Compliance: Taxes and Legal Issues	2

**RELATED INSTRUCTION**

ENGL	107	Applied Composition	5	
MATH	102	College Algebra	5	
Following can be substituted: equivalent or higher level MATH course				
PSYC	240	Psychology of Human Relations	3	
Following can be substituted: BUS 113 – Diversity Issues in Business (3)				
Visual, Literary, and Performing Arts				5
Following can be substituted: Individuals, Cultures, and Societies (5) or Natural World (5)				

TOTAL PROGRAM CREDITS	92
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For more information on the wine industry program, visit South Seattle's Wine Studies page at: [southseattle.edu/programs/wine-studies](https://southseattle.edu/programs/wine-studies).

## Wine Industry: Wine Production Associate of Applied Science – Transfer Degree (A.A.S.-T)

**Culinary Arts Department**

The Wine Production Associate of Applied Science Transfer (AAS-T) Degree program teaches the basic knowledge and skills necessary to produce quality wines. Students study wine production from vine to bottle, including up-to-date winery practices and day-to-day operations. They learn the chemistry of wine and how it can be used to affect winemaking decisions. They also learn how viticulture practices affect wine quality. In addition to classroom learning, students get hands-on experience by participating in a full year of winery operations in our state-of-the-art commercial teaching winery.

Grapes are donated by renowned growers throughout Washington State. Students pick, sort, ferment and see the grapes through to the finished product.

This degree is designed for students to learn technical skills for employment, but who may also want to transfer to a Bachelor of Applied Science (BAS) degree program or a four-year institution.

**PROGRAM PREREQUISITE**

Must be 21 years or order to apply.

Students must meet with an advisor for entry into this program. A placement test is required to ensure language and computational skills are sufficient for program success.

**TECHNICAL SPECIALTY COURSES**

HDM	171	Lift Truck Operator	2
WIN	101	Introduction to Enology & Viticulture	4
WIN	103	Elements of Wine Production	4
WIN	104	Elements of Wine Production II	4
WIN	105	Elements of Wine Production III	4
WIN	107	Winery Production I	1
WIN	108	Winery Production II	1
WIN	109	Winery Production III	1
WIN	112	Wine Science	5
WIN	122	Wine Chemistry and Microbiology	4
WIN	123	Sensory Evaluation	4
WIN	131	Introduction to Washington Wines	4
WIN	133	Introduction to Wines of the World	4
WIN	140	Tasting Room Management	4
WIN	141	Wine Marketing and Sales	4
WIN	142	Wine Business – Winery Operations	4
WIN	143	Wine Business – Distribution Network and Suppliers	4
WIN	145	Wine Business – Entrepreneurship and Innovation	4
WIN	150	Winery Compliance: Taxes and Legal Issues	2

**RELATED INSTRUCTION**

ENGL& 101	English Composition I	5
MATH 102	College Algebra	5
PSYC& 100	General Psychology	5
Visual, Literary, and Performing Arts		5
Following can be substituted:		
Individuals, Cultures, and Societies (5) or		
The Natural World (5)		

TOTAL PROGRAM CREDITS 94

For more information on the wine industry program, visit South Seattle's Wine Studies page at: [southseattle.edu/programs/wine-studies](http://southseattle.edu/programs/wine-studies).

**Wine Industry: Wine Production Certificate**

**Culinary Arts Department**

The Wine Production Certificate program teaches the basic knowledge and skills necessary to produce quality wines. Students study wine production from vine to bottle, including up-to-date winery practices and day-to-day operations. They learn the chemistry of wine and how it can be used to affect winemaking decisions. They also learn how viticulture practices affect wine quality. In addition to classroom learning, students get hands-on experience by participating in a full year of winery operations in our state-of-the-art commercial teaching winery.

Grapes are donated by renowned growers throughout Washington State. Students pick, sort, ferment, and see the grapes through to the finished product.

**PROGRAM PREREQUISITE**

Must be 21 years or older to apply.

Students must meet with an advisor for entry into this program. A placement test is required to ensure language and computational skills are sufficient for program success.

**TECHNICAL SPECIALTY COURSES**

HDM 171	Lift Truck Operator	2
WIN 101	Introduction to Enology & Viticulture	4
WIN 103	Elements of Wine Production	4
WIN 104	Elements of Wine Production II	4
WIN 105	Elements of Wine Production III	4
WIN 112	Wine Science	5
WIN 122	Wine Chemistry and Microbiology	4
WIN 123	Sensory Evaluation	4
WIN 142	Wine Business – Winery Operations	4

**RELATED INSTRUCTION**

ENGL 107	Applied Composition	5
MATH 102	College Algebra	5
PSYC 240	Psychology of Human Relations	3
Following can be substituted:		
BUS 113 – Diversity of Issues in Business (3)		

TOTAL PROGRAM CREDITS 48

For more information on the wine industry program, visit South Seattle's Wine Studies page at: [southseattle.edu/programs/wine-studies](http://southseattle.edu/programs/wine-studies).





## EDUCATION AND HUMAN SERVICES

### Professional Technical Education and Instructional Design Bachelor of Applied Science Degree (BAS)

#### Technical Education

The Bachelor of Applied Science (BAS) degree in Professional Technical Teacher Education & Instructional Design (called “Teach Tech” for short) is a 90-credit program that offers industry professionals a pathway to becoming a skilled technical education/workforce teacher.

The program is intended for students who (1) have completed a two-year associate of applied science-transfer (AAS-T) degree or another approved associate-transfer degree and; (2) have at least two years of industry specific work experience. The program emphasizes upper-division coursework that focuses on the complexities of the adult learner, the role of community colleges in society, and issues of equity. Students will learn how to shift their focus from teaching purely for content mastery to student-centered learning and leadership.

AAS-T degree with minimum of 25 generalized credits

#### PREREQUISITES

Courses taken a part of transfer degree can be used to meet requirements below:

ENGL& 101	English Composition I	5
	Can be used to meet Electives requirement.	
MATH& 107	Math in Society	5
	Following can be substituted: higher level MATH course	
	Can be used to meet Electives requirement.	
PSYC& 100	General Psychology	5
	Can be used to meet Electives requirement.	
Visual, Literary, and Performing Arts		5
	Can be used to meet Electives requirement.	
Natural World, the		5
	Can be used to meet Electives requirement.	
General Education course(s)		25

“ I’ll remember the learning environment, cream of the crop teachers, programs, and mentors. ”

– John G.

#### TECHNICAL SPECIALTY COURSES

PTE 301	Workforce Instructional Methods and Materials	3
PTE 302	Course Development Design	3
PTE 310	Managing the Learning Environment	3
PTE 311	Technology in Learning	3
PTE 313	Online Teaching Methods	3
PTE 314	Professional Portfolio	3
PTE 315	Workforce Experience Practicum	10
PTE 345	Adult Learning	5
PTE 401	Student Support and Guidance	3
PTE 402	Assessment of Learning Performance	3
PTE 420	Legal Issues and Ethics in Education	3
PTE 460	Diversity and Globalism in Education	3
PTE 468	Program Management and Recruitment	3
PTE 489	Professional Development Certification	1
PTE 490	Teaching Internship	10
	The 10 internships credits are taken over course of four quarters, beginning in second quarter of study	
	Quarter 2 (1) / Quarter 3 (1) / Quarter 4 (3)	
	Quarter 5 (5)	
PTE 495	Capstone	3

#### GENERAL EDUCATION COURSES

CMST& 220	Public Speaking	5
ENGL& 102	Composition II	5
Visual, Literary, and Performing Arts		5
Individual, Cultures, and Societies		10
General Education Elective		10
	Credits from AAS-T degree can be used to fulfill this requirement.	
Lab Science		5
	See Advising for list of approved courses.	
General Education course(s)		20
	Credits from AAS-T degree can be used to fulfill this requirement.	

#### ELECTIVES

ENGL& 101	English Composition I	5
	Credits from AAS-T degree can be used to fulfill this course.	
MATH& 107	Math in Society	5
	Credits from AAS-T degree can be used to fulfill this course.	
PSYC& 100	General Psychology	5
	Credits from AAS-T degree can be used to fulfill this course.	
Visual, Literary, and Performing Arts		5
	Credits from AAS-T degree can be used to fulfill this course.	
Natural World, the		5
	Credits from AAS-T degree can be used to fulfill this course.	
Elective		33
	See Advising for list of approved courses.	

TOTAL PROGRAM CREDITS 180



## HEALTH AND MEDICAL

### Home Care Aide Short-Term Certificate

#### Workforce Education

This is a full-time course designed to prepare students for success in passing the State of Washington Department of Health Home Care Aide examination, and as a step in continuing to Nursing Assistant Certified and other nursing or health-related courses. It covers the 85 hours of learning and skills objectives mandated by Washington State for Home Care Aide. It also includes context-related basic skills, such as reading and study strategies, math, and oral communication.

#### TECHNICAL SPECIALTY COURSES

AHE	135	Home Care Aide .....	15
TOTAL PROGRAM CREDITS			15

### Nursing: Nursing Assistant Short-Term Certificate

#### Nursing

The Nursing Assistant program instruction emphasizes competence in skills for providing safe and accurate care. Students will acquire a basic understanding of the emotional as well as the physical needs of a patient. Upon successfully completing the program students are eligible to take the WA State Certified Exam.

#### TECHNICAL SPECIALTY COURSES

NUR	170	Na-C Basic Health Care .....	12
TOTAL PROGRAM CREDITS			12

### Nutrition Science (A.A.)

This two-year program is designed for students that wish to obtain an Associate of Arts (AA) degree with an emphasis in nutrition science. Nutrition science is a cross-disciplinary field, encompassing chemistry, biology, physiology, and public health. Students in this program will learn how nutrients and food components influence growth, metabolism, health, and disease, as well as studying human behavior as it relates to food choices.

Completion of this program prepares students to transfer at the junior-level into a food science, nutrition science, or related program at a four-year college or university, as well as opening doors to entry-level positions in traditional health settings such as hospitals, private medical offices, and public health agencies, as well as integrative health and wellness organizations and companies.

### Pre-nursing for Entry into ADN Program

This pathway does not result in a degree but rather is designed for students who wish to complete their prerequisite coursework for Seattle Colleges' Associate Degree in Nursing (ADN) RN (registered nurse) program. This pathway should also work for other ADN programs in the area; students should meet with an advisor to confirm. Students in this pathway complete the general education prerequisite course requirements in areas such as biology, chemistry, math, English, and psychology. The pathway also includes required co-requisite course work associated with Seattle Colleges' ADN program.

### Pre-Nursing for Transfer to BSN Program (AA-DTA) (A.A.)

This transfer program is designed for students who wish to transfer to a Bachelor of Science in Nursing (BSN) program at a four-year college or university by taking their science and general education classes at South to prepare to begin their nursing classes and earn a Bachelor of Science in Nursing (BSN) degree.

Students in this pathway develop skills in applying and communicating fundamental concepts/principles of science to one's daily life, demonstrating the process of scientific inquiry, solving problems analytically, and thinking critically. In addition, students will learn verbal communication, and group communication and collaboration, and awareness of human behavior and thinking. Completion of this AA-DTA degree prepares students to complete a Bachelor of Science in Nursing (BSN) or related degree at a four-year college or university, or a Bachelor of Applied Science (BAS) degree in a healthcare field at one of the Seattle Colleges.

### Public Health–Global Health (A.A.)

This two-year program is designed for students who wish to complete an Associate of Arts degree with an emphasis on Public Health. Students in this program will study methods of preserving health on a large scale through education, prevention, and community initiatives that range from local to global.

Completion of this program prepares students to transfer to a public health, health administration, or a related field at a four-year college or university, as well as opening doors to careers that concentrate on human health, illnesses, disease prevention and the environment.



## SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH

### Biology (A.S.)

This two-year program is designed for students who wish to complete an Associate of Science degree with an emphasis on Biology. Students in this program develop skills in applying and communicating fundamental concepts/principles of biology to one's daily life, demonstrating the process of scientific inquiry, and solving problems analytically.

Completion of this program opens doors to a variety of careers in sectors including research, healthcare, education, non-profit, technology and government. It also allows you to transfer at the junior level into a Biology program such as Botany, Zoology, Microbiology, Genetics, Marine Biology, Environmental Science, or a related field at a four-year college or university, or to a Bachelor of Applied Science (BAS) at one of the Seattle Colleges.

### Chemistry (A.S.)

This two-year program is designed for students who wish to complete an Associate of Science degree with an emphasis on Chemistry. Students in this program learn about matter and energy down to the molecular level. Courses build a solid foundation in general chemistry and develop students' understanding of the scientific method of experimentation, observation and analysis of results. Students will also gain hands-on experiences in the lab.

Completion of this program opens doors to a variety of academic, industry, and medical careers in research & development, manufacturing, and more across the public and private sectors. It also allows you to transfer into a chemistry or related major at a four-year college or university, or to a Bachelor of Applied Science (BAS) at one of the Seattle Colleges.

### CAD Mechanical Concentration (Computer-Aided Drafting) Certificate

#### Academic Programs

This program provides training for employment in civil, architectural, and mechanical drafting positions. Instruction includes a combination of technical knowledge and skill development in areas such as orthographic projection, descriptive geometry, sections, dimensions, auxiliaries, materials and processes, presentation graphics, design models, and surveying, culminating in a comprehensive design/drafting project. Training in computer-aided design (CAD) is an integral part of the program.

#### TECHNICAL SPECIALTY COURSES

INT	100	Overview of Manufacturing Processes.....	3
TDR	105	Technical Employment Preparation .....	1
TDR	121	Drafting Technology I.....	4
TDR	123	Drafting Technology II.....	4
TDR	125	Drafting Technology III .....	4
TDR	126	Space Geometry .....	4
TDR	129	Industrial Blueprint Reading .....	3
TDR	131	Introduction to CAD 2-D.....	4
TDR	133	Intermediate CAD 2-D.....	4
TDR	135	AutoCAD 3-D Modeling .....	4
TDR	179	CAD -- Mechanical .....	4
TDR	197	Internship.....	5
Credit Range: 1-5/Total Required Credits: 3			
TDR	228	CAD Sheet Metal/HVAC.....	4
TDR	230	CAD 3-D Parametric Solid Design I .....	4
TDR	236	Design Project Management.....	1
TDR	280	Geometric Dimensioning & Tolerancing .....	4

#### RELATED INSTRUCTION

ENGL	105	Applied Composition.....	3
Admission only via instructor permission, or by passing a prerequisite test.			
ICT	103	Computer Applications I.....	2
MATH	111	Applied Mathematics I.....	5
MATH& 141 – Pre-Calculus I (5) and MATH& 142 – Pre-Calculus II (5) together can be substituted for MATH 111 – Applied Mathematics I (5) and MATH 112 – Applied Mathematics II (5) together			
MATH	112	Applied Mathematics II .....	5
MATH& 141 – Pre-Calculus I (5) and MATH& 142 – Pre-Calculus II (5) together can be substituted for MATH 111 – Applied Mathematics I (5) and MATH 112 – Applied Mathematics II (5) together			
PSYC	240	Psychology of Human Relations.....	3
<b>TOTAL PROGRAM CREDITS</b>			<b>73</b>

### Computer Technology Virtualization Short-Term Certificate

#### Computing Technology

This certificate is a total of 15 credits and a supplement to the Network Administration Associate of Applied Science Degree. Qualifications: Network Administration AAS degree or equivalent degree within the last two years or have equivalent IT industry experience within the last two years.

#### TECHNICAL SPECIALTY COURSES

CTN	276	Virtualization and the Cloud 1.....	5
CTN	286	Virtualization and the Cloud 2.....	5
CTN	287	Cloud Computing .....	5
<b>TOTAL PROGRAM CREDITS</b>			<b>15</b>



## Engineering Graphics and Design Technology Associate of Applied Science Degree (A.A.S.)

### Academic Programs

This program provides training for employment in civil, architectural and mechanical drafting positions. Instruction includes a combination of technical knowledge and skill development in areas such as orthographic projection, descriptive geometry, sections, dimensions, auxiliaries, materials and processes, presentation graphics, design models and surveying, culminating in a comprehensive design/drafting project. Training in computer-aided design (CAD) is an integral part of the program.

### TECHNICAL SPECIALTY COURSES

INT	100	Overview of Manufacturing Processes . . . . .	3
MET	102	Creative Technical Problem Solving . . . . .	4
TDR	105	Technical Employment Preparation . . . . .	1
TDR	121	Drafting Technology I . . . . .	4
TDR	123	Drafting Technology II . . . . .	4
TDR	125	Drafting Technology III . . . . .	4
TDR	126	Space Geometry . . . . .	4
TDR	129	Industrial Blueprint Reading . . . . .	3
TDR	131	Introduction to CAD 2-D . . . . .	4
TDR	133	Intermediate CAD 2-D . . . . .	4
TDR	135	AutoCAD 3-D Modeling . . . . .	4
TDR	169	CAD – Electrical . . . . .	4
TDR	179	CAD – Mechanical . . . . .	4
TDR	197	Internship . . . . .	5
Credit range: 1-5/Total required credits: 3			
TDR	230	CAD 3-D Parametric Solid Design I . . . . .	4
TDR	231	CAD 3-D Parametric Solid Design II . . . . .	4
TDR	236	Design Project Management . . . . .	1
TDR	237	Design Project I . . . . .	2
TDR	238	Design Project II . . . . .	2
TDR	263	Applied Mechanics I . . . . .	4
TDR	272	Applied Mechanics II . . . . .	4

### MAJOR AREA OF STUDY

Areas of Study: Architectural, Civil, and Mechanical

Select a minimum of 16 credits from the following list of courses. Selection should be made based on faculty advisor recommendation.

CET	230	Construction Tech. . . . .	3
TDR	160	Surveying/CAD Civil . . . . .	5
TDR	228	CAD Sheet Metal/HVAC . . . . .	4
TDR	240	Introduction to CATIA . . . . .	4
TDR	241	Intermediate CATIA . . . . .	4
TDR	243	Basic Tool Design . . . . .	4
TDR	245	Design of Machine Elements . . . . .	4
TDR	268	Architectural/Structural . . . . .	4
TDR	280	Geometric Dimensioning & Tolerancing . . . . .	4

### RELATED INSTRUCTION

ENGL	105	Applied Composition . . . . .	3
ICT	103	Computer Applications I . . . . .	2
MATH	111	Applied Mathematics I . . . . .	5
MATH& 141 – Pre-Calculus I (5) and MATH& 142 – Pre-Calculus II (5) together can be substituted for MATH 111 – Applied Mathematics I (5) and MATH 112 – Applied Mathematics II (5) together			
MATH	112	Applied Mathematics II . . . . .	5
MATH& 141 – Pre-Calculus I (5) and MATH& 142 – Pre-Calculus II (5) together can be substituted for MATH 111 – Applied Mathematics I (5) and MATH 112 – Applied Mathematics II (5) together			
PSYC	240	Psychology of Human Relations . . . . .	3

### ELECTIVES

Students must select from courses that support their overall technical objectives.

Requires signed approval from Dean of Technology or his designee.

A minimum of 5 credits in two of the following areas:

Visual, Literary, and Performing Arts . . . . .	5
Individual, Cultures, and Societies . . . . .	5
Natural World, the . . . . .	5

TOTAL PROGRAM CREDITS	110
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## Engineering Graphics and Design Technology Associate of Applied Science –Transfer Degree (A.A.S.-T)

### Academic Programs

This program provides training for employment in civil, architectural and mechanical drafting positions. Instruction includes a combination of technical knowledge and skill development in areas such as orthographic projection, descriptive geometry, sections, dimensions, auxiliaries, materials and processes, presentation graphics, design models and surveying, culminating in a comprehensive design/drafting project. Training in computer-aided design (CAD) is an integral part of the program.

### TECHNICAL SPECIALTY COURSES

INT	100	Overview of Manufacturing Processes . . . . .	3
MET	102	Creative Technical Problem Solving . . . . .	4
TDR	105	Technical Employment Preparation . . . . .	1
TDR	121	Drafting Technology I . . . . .	4
TDR	123	Drafting Technology II . . . . .	4
TDR	125	Drafting Technology III . . . . .	4
TDR	126	Space Geometry . . . . .	4
TDR	129	Industrial Blueprint Reading . . . . .	3
TDR	131	Introduction to CAD 2-D . . . . .	4
TDR	133	Intermediate CAD 2-D . . . . .	4
TDR	135	AutoCAD 3-D Modeling . . . . .	4
TDR	169	CAD – Electrical . . . . .	4
TDR	179	CAD – Mechanical . . . . .	4

TDR	197	Internship.....	5
		Credit range: 1-5/Total required credits: 3	
TDR	230	CAD 3-D Parametric Solid Design I.....	4
TDR	231	CAD 3-D Parametric Solid Design II.....	4
TDR	236	Design Project Management.....	1
TDR	237	Design Project I.....	2
TDR	238	Design Project II.....	2
TDR	263	Applied Mechanics I.....	4
TDR	272	Applied Mechanics II.....	4

**MAJOR AREA OF STUDY**

Areas of Study: Architecture, Civil, and Mechanical

Select a minimum of 16 credits from the following list of courses. Selection should be made based on faculty advisor recommendation.

CET	230	Construction Tech.....	3
TDR	160	Surveying/CAD Civil.....	5
TDR	228	CAD Sheet Metal/HVAC.....	4
TDR	240	Introduction to CATIA.....	4
TDR	241	Intermediate CATIA.....	4
TDR	243	Basic Tool Design.....	4
TDR	245	Design of Machine Elements.....	4
TDR	268	Architectural/Structural.....	4
TDR	280	Geometric Dimensioning & Tolerancing.....	4

**RELATED INSTRUCTION**

ENGL&	101	English Composition I.....	5
MATH&	141	Precalculus I.....	5
MATH&	142	Precalculus II.....	5
PSYC&	100	General Psychology.....	5

**ELECTIVES**

A minimum of 5 credits in two of the following areas:

Visual, Literary, and Performing Arts.....	5
Individual, Cultures, and Societies.....	5
Natural World, the.....	5

TOTAL PROGRAM CREDITS	112
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**Engineering Technology Associate of Applied Science Degree (A.A.S.)**

**Academic Programs**

Engineering technicians play a key role in implementing designed solutions to technical problems. These tasks are accomplished with a solid background in mathematics, physics, and applied engineering, as well as skills in problem-solving and creative thinking. Successful graduates of the engineering technology program are qualified to seek employment as engineering technicians or may transfer to a four-year college to pursue a degree in Engineering or Engineering Technology.

**TECHNICAL SPECIALTY COURSES**

ENGR	110	Engineering Orientation.....	2
ENGR	142	Computer Programming.....	5
ENGR&	214	Statics.....	5
ENGR&	225	Mechanics of Materials.....	5
ENGR	298	Special Topics.....	5
		Credit range: 1-5/Total required internship credits: 4	
ENGR	299	Independent Study.....	5
		Credit range: 1-5/Total required internship credits: 4	
INT	100	Overview of Manufacturing Processes.....	3
TDR	126	Space Geometry.....	4
TDR	131	Introduction to CAD 2-D.....	4
TDR	133	Intermediate CAD 2-D.....	4
TDR	236	Design Project Management.....	1
TDR	237	Design Project I.....	2
TDR	238	Design Project II.....	2

**RELATED INSTRUCTION**

ENGL&	101	English Composition I.....	5
ENGL	108	Technical Report Writing.....	3
MATH&	142	Precalculus II.....	5
MATH&	151	Calculus I.....	5
MATH&	152	Calculus II.....	5
PHYS&	221	Engineering Physics I.....	5
PHYS&	222	Engineering Physics II.....	5
PSYC	240	Psychology of Human Relations.....	3

**ELECTIVE COURSES**

Minimum of 6 credits in the following areas:

Visual, Literary, and Performing Arts.....	6
Individual, Cultures, and Societies.....	6

TOTAL PROGRAM CREDITS	95
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**Environmental Science (A.S.)**

This two-year program is designed for students who wish to complete an Associate of Science degree with an emphasis on Environmental Science. Students in this program develop interdisciplinary skills related to the environment and will incorporate fundamental concepts and principles of environmental science to daily life. Students will utilize the process of scientific inquiry, apply awareness of current affairs to environmental issues, and solve problems using critical thinking.

Completion of this program opens doors to a variety of careers in sectors including research, education, health and safety, non-profit, sustainable development, sustainable business, technology, and government. It also allows students to transfer at the junior level into an Environmental Science program at a four-year college or university or continue on to a Bachelor of Applied Science (BAS) from a Washington state community college.

## Environmental Studies (A.A.)

This two-year program is designed for students who wish to complete an Associate of Science degree with an emphasis on Environmental Studies. Environmental studies students receive a foundation in the natural sciences but focus more of their studies on the social sciences, policy studies, environmental design, and the humanities. This program provides a broadly integrated understanding that includes, among others, the business, economic, social, and political facets of environmental challenges with a focus on policy, law, and sociality aspect of these challenges.

Completion of this program prepares students to transfer at the junior level to an environmental studies program or related field at a four-year college or university. This program also prepares students for careers in the non-profit sector, government agencies, environmental planning, sustainability advising, green business, environmental education, environmental journalism, and related areas.

## Integrated Pest Management Short-Term Certificate

### Landscape Horticulture

A short-term training program primarily for horticultural professionals wanting to update and expand their skill set. In the broad sense, integrated pest management pertains to all pests of our landscapes, whether they are insect, fungal, bacterial, or weed pests. Knowledge of integrated pest management principles and practices is especially beneficial to those who manage landscapes and those who consult about landscape problems. Skill at diagnosing plant problems and developing integrated strategies for managing those problems is a valuable asset, whether you are self-employed or an employee. Completing this certificate will help one prepare for the Washington State Department of Agriculture pesticide license exams.

### TECHNICAL SPECIALTY COURSES

LHO	108	Weed Identification and Management	3
LHO	109	Integrated Pest Management	3
LHO	210	Plant Problem Diagnostics	4
TOTAL PROGRAM CREDITS			9

## Introduction to Green Manufacturing Short-Term Certificate

### Georgetown Campus

The Introduction to Green Manufacturing Processes is a work-training program designed to give adults training, certifications and internship experience in Green manufacturing. Graduates are trained to be competitive for entry level employment in manufacturing and the program is designed to provide a framework for instruction in the following topics.

### TECHNICAL SPECIALTY COURSES

GMF	100	Introduction to Green Manufacturing Processes	15
TOTAL PROGRAM CREDITS			15

## IT Systems Specialist Associate of Applied Science Degree (A.A.S.)

### Technical Education Division

The IT Systems Specialist program is for students who enjoy solving PC hardware, operating systems, common applications and network problems. Students learn to diagnose, document and correct problems. Graduates can continue at South to earn the Network Administration AAS or AAS-T degree and/or can seek employment as technical support personnel in retail stores, communication companies, IT support/installation companies, education institutions, health care facilities and others.

### TECHNICAL SPECIALTY COURSES

CSC	100	Beginning Computers	5
CTN	101	Introduction to Computing Technology	5
CTN	120	Databases I	5
CTN	131	Introduction to Computer Programming	5
CTN	142	Operating Systems II	5
CTN	143	Operating Systems III	5
CTN	160	Web Production I	5
CTN	170	PC Hardware I	5
CTN	171	PC Hardware II	5
CTN	197	Computing Internship	15
Credit range: 1-15/Total internship credits required: 3			
CTN	270	Local Area Networks I	5
CTN	274	Local Area Networks III	5
CTN	277	Network Security 1	5
CTN	278	Wireless Communication I	3
CTN	295	Research and Customer Service	5

**TECHNICAL ELECTIVES**

Of the 30 technical elective credits required, minimum of 10 credits must be selected from the following (or other approved computer-related coursework.)

CTN	121	Database II.....	5
CTN	224	Web Server Configuration and Management ..	5
CTN	276	Virtualization and the Cloud 1.....	5
CTN	281	Security+ Certification.....	5
CTN	282	CISCO I.....	5
CTN	283	CISCO II.....	5

**RELATED INSTRUCTION**

BUS	116	Business Math/Spreadsheets .....	5
BUS	169	Using Computers in Business .....	5
ENGL	105	Applied Composition.....	3
ENGL	106	Technical Writing.....	3
PSYC	240	Psychology of Human Relations.....	3

**GENERAL EDUCATION ELECTIVES**

Select 5 credits from one of these areas:

Visual, Literary, and Performing Arts .....	5
Individual, Cultures, and Societies .....	5
<b>TOTAL PROGRAM CREDITS</b>	<b>105</b>

**IT Systems Specialist Associate of Applied Science –Transfer Degree (A.A.S.-T)**

**Technical Education Division**

The IT Systems Specialist program is for students who enjoy solving PC hardware, operating systems, common applications and network problems. Students learn to diagnose, document and correct problems. Graduates can continue at South to earn the Network Administration AAS or AAS-T degree and/or can seek employment as technical support personnel in retail stores, communication companies, IT support/installation companies, education institutions, health care facilities and others.

**TECHNICAL SPECIALTY COURSES**

CSC	100	Beginning Computers .....	5
CTN	101	Introduction to Computing Technology .....	5
CTN	120	Databases I .....	5
CTN	131	Introduction to Computer Programming .....	5
CTN	142	Operating Systems II .....	5
CTN	143	Operating Systems III .....	5
CTN	160	Web Production I.....	5
CTN	170	PC Hardware I.....	5
CTN	171	PC Hardware II .....	5
CTN	197	Computing Internship.....	15
Credit range: 1-15/Total required internship credits: 3			
CTN	270	Local Area Networks I.....	5
CTN	274	Local Area Networks III .....	5
CTN	277	Network Security 1 .....	5
CTN	278	Wireless Communication I.....	3
CTN	295	Research and Customer Service.....	5

**TECHNICAL ELECTIVES**

Minimum of 10 credits must be selected from the following (or other approved computer-related coursework.)

CTN	121	Database II.....	5
CTN	224	Web Server Configuration and Management ..	5
CTN	276	Virtualization and the Cloud 1.....	5
CTN	281	Security+ Certification.....	5
CTN	282	CISCO I.....	5
CTN	283	CISCO II.....	5

**RELATED INSTRUCTION**

ENGL&	101	English Composition I .....	5
MATH	102	College Algebra .....	5
PHYS&	114	General Physics I with Lab .....	5
or other Science course			
PSYC&	100	General Psychology .....	5

**GENERAL EDUCATION ELECTIVES**

Minimum of 5 credits from one of these areas:

Visual, Literary, and Performing Arts .....	5
Individual, Cultures, and Societies .....	5
<b>TOTAL PROGRAM CREDITS</b>	<b>111</b>

**Kinesiology, Sports, and Exercise Science (A.A.)**

This two-year program is designed for students who wish to complete an Associate of Arts degree with an emphasis in kinesiology, sports, & exercise science. Students in this program will take courses in the multidisciplinary study of human movement and function, and will develop a greater understanding of anatomy, physiology, motor function, and overall wellness. Students will also take courses on subjects such as biomechanics, pathology and nutrition.

Completion of this program prepares students to transfer at the junior-level into a kinesiology, sport medicine, exercise science, or related program at a four-year college or university. This program also opens doors for a wide range of careers, from physical therapy, sports medicine, athletic training and coaching to physical education, occupational therapy, and rehabilitation.

**Landscape Horticulture Ecological Restoration Short-Term Certificate**

**Landscape Horticulture**

A short-term training program primarily for horticultural professionals wanting to update and expand their skill set. In recent years, there has been an increasing number of projects involving the restoration of native vegetation and ecosystem health. This could be helpful to professional horticulturists who want to bid on public projects, create native plant landscapes for private property owners, or install native plant gardens in residential landscapes.

**TECHNICAL SPECIALTY COURSES**

LHO	119	Native Plants for Northwest Landscapes.....	3
LHO	240	Ecological Restoration: An Introduction.....	3
LHO	241	Ecological Restoration Project Planning Implemen .....	3
<b>TOTAL PROGRAM CREDITS</b>			<b>9</b>

**Math (A.A.)**

This two-year program is designed for students who wish to complete an Associate of Arts degree with an emphasis on Mathematics. Students in this program will learn how to use mathematical concepts to break down complicated problems into manageable pieces. Students will use creative, exploratory, and lateral thinking in problem-solving as well as strong reasoning and analytical-thinking skills through math courses ranging from basic arithmetic to differential equations.

Completion of this program opens doors to a variety of careers in sectors such as research, finance, accounting, academia and more. It also allows students to transfer at the junior level into a Mathematics program at a four-year college or university, or to a Bachelor of Applied Science (BAS) at one of the Seattle Colleges.

**Network Security Administration  
Associate of Applied Science –Transfer  
Degree (A.A.S.-T)**

**Technical Education Division**

The Network Security Administration Associate of Applied Science Transfer (A.A.S.-T) Degree program is for students who want to specialize in the design, implementation, security and management of networks, workstations, virtualization, and cloud computing. Areas covered also include hardware, operating systems, databases, local and wide area networks and wireless environments.

Graduates can continue at South to earn a Bachelor of Applied Science degree, seek employment as IT administrative support, start their own business, or be a support specialist in one of these in-demand technologies.



**TECHNICAL SPECIALTY COURSES**

IT	115	Networking 1: Networking Fundamentals.....	5
IT	118	Hardware 1: Hardware Fundamentals.....	5
IT	122	Installing and Configuring Windows Server....	5
IT	131	Linux Fundamentals.....	5
IT	142	Network 2 – Interconnecting CISCO Network Device 2 .....	5
IT	143	Network 3: Interconnect CISCO Network Device 3 .....	8
IT	212	Introduction to Programing.....	5
IT	233	Adminstration Windows Server – Active Directory.....	5
IT	251	Security 1: Information Security Fundamentals..	5
IT	252	Security 2: Network Security Fundamental....	5
IT	254	Security 3: Ethical Hacking & System Defense.....	5
IT	255	Security 4: Network Forensic & Incident Response.....	5
IT	276	Virtualization and Cloud Technologies.....	5
IT	291	Network Security Practicum .....	3
IT	295	Internship Network Security Administration...	2
IT	296	Certification Test PREP Net+ .....	2
IT	297	Certification Test PREP Icnd 1 .....	2
IT	298	Certification Test PREP Icnd 2 .....	2
IT	299	Certification Test PREP Security + .....	2

**RELATED INSTRUCTION**

ENGL&	101	English Composition I.....	5
MATH&	146	Introduction to Statistics .....	5
PSYC&	100	General Psychology .....	5
Natural Science Elective.....			5
Following can be substituted: Individuals, Cultures, and Societies (5) or Visual, Literary, and Performing Arts (5)			
<b>TOTAL PROGRAM CREDITS</b>			<b>101</b>

**Physics and Astronomy (A.A.)**

This program is designed for students who wish to complete an Associate of Science (AS) degree with an emphasis in physics and astronomy. In this program students will explore Newton’s Laws of Motion, conservation of energy and momentum, and other principles that help explain the physical world. Students will develop strong skills in problem solving, analytical abilities, mathematical modeling, design and interpretation of experiments, research experience, and communication skills.

Completion of this program prepares students to transfer at the junior level into a physics, astronomy, applied physics, engineering, computer science or a related program at a four-year college or university.

## Professional Technical Education and Instructional Design Bachelor of Applied Science Degree (BAS)

The Bachelor of Applied Science (BAS) degree in Professional Technical Education & Instructional Design (PTEID) is a 90-credit program that offers industry professionals a pathway to becoming a skilled Technical Education Teacher. The PTEID BAS is intended for students who (1) have completed a two-year associate of applied science-transfer (AAS-T) degree or another approved associate-transfer degree and; (2) have at least two years of industry specific work experience. The program emphasizes upper-division coursework that focuses on the complexities of the adult learner, the role of community colleges in society, and issues of equity. Students will learn how to shift their focus from teaching purely for content mastery to student-centered learning and leadership.

## Sustainable Building Science Technology Bachelor of Applied Science Degree (BAS)

### Technical Education Division

The Bachelor of Applied Science (BAS) in Sustainable Building Science Technology (SBST) program will prepare you to apply expertise and systems knowledge to support highly technical building operations.

The SBST degree, which builds on your prior education and work experience, positions you to launch a career where you understand building functions and finance in order to manage structures that are healthier and more durable, efficient, economical, and sustainable. This degree program offers you a pathway to becoming a skilled Building Science Professional. SBST emphasizes upper-division coursework that focuses on the complexities of building science, energy codes, building codes, and facility management.

AAS-T degree with minimum of 25 generalized credits

### PREREQUISITES

Courses taken as part of transfer degree can be used to meet requirements below:

ENGL& 101	English Composition I	5
	Can be used to meet Electives requirement.	
MATH& 107	Math in Society	5
	Following can be substituted: higher level MATH course	
	Can be used to meet Electives requirement.	
PSYC& 100	General Psychology	5
	Can be used to meet Electives requirement.	
	Visual, Literary, and Performing Arts	10
	Can be used to meet Electives requirement.	
	General Education course(s)	25

### TECHNICAL SPECIALTY COURSES

SBST 301	Building	3
SBST 302	Building Components and Systems	2
SBST 314	Professional Portfolio	2
SBST 315	Work Experience Practicum	10
SBST 321	Building and Energy Codes in Washington State	2
SBST 322	Energy Analysis and Auditing	3
SBST 325	Sustainable Building Science Technology Internsh	9
	The 9 internships credits are taken over course of four quarters, beginning in second quarter of study	
	Quarter 2 (1) / Quarter 3 (1) / Quarter 4 (3) / Quarter 5 (4)	
SBST 331	Financing Energy Efficiency and Renewable Energy	2
SBST 333	Building Controls for Energy Efficiency	4
SBST 401	Utility Rates Regulations and Economics	2
SBST 402	Lighting	3
SBST 421	Energy Policy	3
SBST 422	Facility Management	4
SBST 431	Professional Communication	4
SBST 432	Fiscal Management for Facility Managers	3
SBST 489	Sustainable Building Science Technology Capstone	4

### GENERAL EDUCATION

BUS 210	Business and Economic Statistics	5
CMST& 220	Public Speaking	5
ENGL& 102	Composition II	5
PHYS& 100	Physics for Non-Science Majors	5
	Visual, Literary, and Performing Arts	5
	Individual, Cultures, and Societies	5
	General Education course(s)	25
	Credits from AAS-T degree can be used to fulfill this requirement.	

### ELECTIVES

ENGL& 101	English Composition I	5
	Credits from AAS-T degree can be used to fulfill this course.	
MATH& 107	Math in Society	5
	Credits from AAS-T degree can be used to fulfill this course.	
PSYC& 100	General Psychology	5
	Credits from AAS-T degree can be used to fulfill this course.	
	Visual, Literary, and Performing Arts	10
	Credits from AAS-T degree can be used to fulfill this course.	
	Elective	35
	See Advising for list of approved courses.	

TOTAL PROGRAM CREDITS	180
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## Urban Forestry Short-Term Certificate

### Landscape Horticulture

A short-term training program primarily for horticultural professionals wanting to update and expand their skill set. Urban forestry is about the cultivation and maintenance of trees in urban areas. This includes individual landscape trees, street trees, park trees, and trees in natural areas. Knowledge in urban forestry can be valuable to those who work in parks, public gardens, residential landscape design/construction/maintenance, commercial landscape management, and street tree maintenance. Completing this certificate will help one prepare for the International Society of Arboriculture's "Certified Arborist" exam.

#### TECHNICAL SPECIALTY COURSES

LHO	140	Introduction to Arboriculture	4
LHO	155	Pruning	4
LHO	210	Plant Problem Diagnostics	4
TOTAL PROGRAM CREDITS			12

## Web Assistant Certificate

### Technical Education Division

This new program will specialize in underlying aspects of effective web design and development. The program prepares students to design and create websites that display appropriately on all devices and platforms. The program prepares students to integrate databases, social media, and content management systems.

A student can progress from a one year Web Assistant certificate to a two year Web Development Associate of Applied Science Degree (AAS) degree or Web Development Associate of Applied Science-T Degree (AAS-T).

#### TECHNICAL SPECIALTY COURSES

ART	210	Digital & Graphic Art – Photoshop + Illustrator	5
CSC	100	Beginning Computers	5
CTN	101	Introduction to Computing Technology	5
CTN	120	Databases I	5
CTN	121	Database II	5
CTN	131	Introduction to Computer Programming	5
CTN	160	Web Production I	5
CTN	161	Web Production II	5
CTN	165	Usability Design	5

#### RELATED INSTRUCTION

ENGL	105	Applied Composition	3
Following can be substituted:			
ENGL& 101 – English Composition (5)			
PHIL&	120	Symbolic Logic	5
Following can be substituted:			
MATH 102 – Algebra (5) or Higher MATH course			
PSYC	240	Psychology of Human Relations	3
Following can be substituted:			
PSYC& 100 – General Psychology (5)			
TOTAL PROGRAM CREDITS			56-60

## Web Development Associate of Applied Science Degree (A.A.S.)

### Technical Education Division

This new program will specialize in underlying aspects of effective web design and development. The program prepares students to design and create websites that display appropriately on all devices and platforms. The program prepares students to integrate databases, social media, and content management systems.

A student can progress from a one-year Web Assistant certificate to a two-year Web Development Associate of Applied Science Degree (AAS) degree or Web Development Associate of Applied Science-T Degree (AAS-T).

#### TECHNICAL SPECIALTY COURSES

ART	210	Digital & Graphic Art – Photoshop + Illustrator	5
CSC	100	Beginning Computers	5
CTN	101	Introduction to Computing Technology	5
CTN	120	Databases I	5
CTN	121	Database II	5
CTN	131	Introduction to Computer Programming	5
CTN	160	Web Production I	5
CTN	161	Web Production II	5
CTN	165	Usability Design	5
CTN	173	Content Management Systems (CMS)	
Wordpress			5
CTN	197	Computing Internship	3
Credit range: 1-15/Total required internship credits: 3			
CTN	202	Web Scripting	5
CTN	203	PHP/MySQL	5
CTN	224	Web Server Configuration and Management	5
CTN	230	Licensing, Copyright & Law	5
CTN	269	Capstone	5
CTN	295	Research and Customer Service	5

#### TECHNICAL SPECIALTY ELECTIVE

Select 5 credits from one of the following areas: (see advisor)

CSC course	5
CTN Course	5

**RELATED INSTRUCTION**

ENGL	105	Applied Composition.....	3
ENGL	106	Technical Writing.....	3
PHIL&	120	Symbolic Logic.....	5
PSYC	240	Psychology of Human Relations.....	3

**GENERAL EDUCATION ELECTIVE**

Choose minimum of 5 credits from any of the following areas:

Visual, Literary, and Performing Arts.....	5
Individual, Cultures, and Societies.....	5
Natural World, the.....	5
Science & Mathematics.....	5

TOTAL PROGRAM CREDITS 107

This degree incorporates the one-year Web Assistant certificate (both are earned).

**Web Development Associate of Applied Science –Transfer Degree (A.A.S.-T)**

**Technical Education Division**

This new program will specialize in underlying aspects of effective web design and development. The program prepares students to design and create websites that display appropriately on all devices and platforms. The program prepares students to integrate databases, social media, and content management systems.

A student can progress from a one-year Web Assistant certificate to a two-year Web Development Associate of Applied Science Degree (AAS) degree or Web Development Associate of Applied Science-T Degree (AAS-T).

**TECHNICAL SPECIALTY COURSES**

ART	210	Digital & Graphic Art – Photoshop + Illustrator.....	5
CSC	100	Beginning Computers.....	5
CTN	101	Introduction to Computing Technology.....	5
CTN	120	Databases I.....	5
CTN	121	Database II.....	5
CTN	131	Introduction to Computer Programming.....	5
CTN	160	Web Production I.....	5
CTN	161	Web Production II.....	5
CTN	165	Usability Design.....	5
CTN	173	Content Management Systems (CMS) Wordpress.....	5
CTN	197	Computing Internship.....	3
Credit range: 1-15/Total Required Credits: 3			
CTN	202	Web Scripting.....	5
CTN	203	PHP/MySQL.....	5
CTN	224	Web Server Configuration and Management ..	5
CTN	230	Licensing, Copyright & Law.....	5
CTN	269	Capstone.....	5
CTN	295	Research and Customer Service.....	5

**TECHNICAL SPECIALTY ELECTIVE**

Select 5 credits from one of the following: (see advisor)

CSC course.....	5
CTN Course.....	5

**RELATED INSTRUCTION**

ENGL&	101	English Composition I.....	5
PHIL&	120	Symbolic Logic.....	5
Following can be substituted:			
MATH 102 – College Algebra (5) or higher MATH course			
PSYC&	100	General Psychology.....	5

**GENERAL EDUCATION**

Choose minimum of 5 credits from any of the following areas:

Visual, Literary, and Performing Arts.....	5
Individual, Cultures, and Societies.....	5
Natural World, the.....	5
Science & Mathematics.....	5

TOTAL PROGRAM CREDITS 108

This degree incorporates the 1-year Web Assistant certificate (both are earned).

“ All the STEM Professors whom I had the pleasure of learning from truly take their role as educators seriously. To being available and eager all the way to being creative with how they proctor an exam for students with different learning styles. Would not have made it here without the support and patience from these individuals. Thank you to my squad for the dope experience! ”

– Andrewlina R.





## SKILLED TRADES AND TECHNICAL TRAINING

### Aeronautical Technology Associate of Applied Science Degree (A.A.S.)

#### Aviation Maintenance Division

The Aeronautical Technology Associate of Applied Science (AAS) degree program provides graduates of recognized airframe and powerplant programs and experienced FAA-certified mechanics the opportunity to expand their knowledge and training, and earn an associate degree.

This degree is for those who are focused on learning a skill or technology for immediate employment in the aeronautical industry.

Completion of Certificate Requirements in Aviation Maintenance Airframe & Powerplant Programs: 147 credits

#### PROGRAM PREREQUISITE

Students must meet with an advisor for entry into this program. A placement test is required to ensure language and computational skills are sufficient for program success.

#### TECHNICAL SPECIALTY COURSES

AMT	111	Basic Science for Aviation	17
AMT	112	Basic Electricity for Aviation	17
AMT	113	Airframe Structure and Repair	17
AMT	133	Powerplant Theory and Maintenance	17
AMT	214	Airframe Systems	17
AMT	215	Advanced Airframe	17
AMT	234	Powerplant Systems and Components	17
AMT	235	Advanced Powerplant	17

#### RELATED INSTRUCTION

ENGL	107	Applied Composition	5
PSYC	240	Psychology of Human Relations	3
TOTAL PROGRAM CREDITS			144

### Aeronautical Technology Associate of Applied Science – Transfer Degree (A.A.S.-T)

#### Aviation Maintenance Division

The Aeronautical Technology Associate of Applied Science Transfer (AAS-T) degree program provides graduates of recognized airframe and powerplant programs and experienced FAA-certified mechanics the opportunity to expand their knowledge and training, and earn an associate transfer degree.

This degree is designed for students to learn technical skills for employment, but who may also want to transfer to a Bachelor of Applied Science (BAS) degree program or a four-year institution.

#### PROGRAM PREREQUISITE

Students must meet with an advisor for entry into this program. A placement test is required to assure language and computational skills are sufficient to assure program success.

Special requirements for admission:

Satisfactory completion of a minimum of 240 prescribed clock-hours of instruction per quarter and a 2.0 minimum grade point average (70%) on each class assignment and exam.

#### TECHNICAL SPECIALTY COURSES

AMT	111	Basic Science for Aviation	17
AMT	112	Basic Electricity for Aviation	17
AMT	113	Airframe Structure and Repair	17
AMT	133	Powerplant Theory and Maintenance	17
AMT	214	Airframe Systems	17
AMT	215	Advanced Airframe	17
AMT	234	Powerplant Systems and Components	17
AMT	235	Advanced Powerplant	17

#### RELATED INSTRUCTION

ENGL&	101	English Composition I	5
MATH&	107	Math in Society	5
Following can be substituted: Equivalent or higher level MATH course			
PSYC&	100	General Psychology	5
Following can be substituted: SOC& 101 – Introduction to Sociology (5) or higher level PSYC or SOC course			
Natural World, the			5
Following can be substituted: Visual, Literary, and Performing Arts course			
TOTAL PROGRAM CREDITS			156

### Aeronautical Technology: Aviation Airframe Mechanic Certificate

#### Aviation Maintenance Division

South offers both certificate and degree programs in Aviation Maintenance and Aeronautical Technology. Check with the department for short-term certificate offerings relating to General Aviation for Composite and Aviation Composites Lab.

The Aviation Maintenance certificate program offers a preparatory program in airframe and powerplant (A&P) mechanics. The aviation maintenance airframe and powerplant curriculum is approved by the F.A.A. (Air Agency Certificate #HQ6T596N). The two-year (8 quarters) curriculum provides training on current aviation airframes and powerplants.

Students who successfully complete the curriculum are awarded a certificate of completion qualifying them to take the Federal Aviation Administration examination for the airframe and powerplant mechanic license.

Either the airframe or the powerplant component may be taken separately. Completion of both components is highly recommended for increased employment opportunities.

The A.A.S. and A.A.S.-T degree programs provide graduates of recognized airframe and powerplant programs and experienced F.A.A.-certified mechanics the opportunity to expand their knowledge and training, and earn an Associate of Applied Science degree.

**REQUIREMENTS**

Satisfactory completion of a minimum of 240 prescribed clock-hours of instruction per quarter and a minimum 2.0 grade point average (70%) on each class assignment.

**PREREQUISITES**

Students must meet with an advisor for entry into this program. A placement test is required to assure language and computational skills are sufficient to assure program success.

**TECHNICAL SPECIALTY COURSES**

AMT	111	Basic Science for Aviation	17
AMT	112	Basic Electricity for Aviation	17
AMT	113	Airframe Structure and Repair	17
AMT	214	Airframe Systems	17
AMT	215	Advanced Airframe	17

**RELATED INSTRUCTION**

ENGL	105	Applied Composition	3
ENGL	106	Technical Writing	3
ICT	103	Computer Applications I	2
PSYC	240	Psychology of Human Relations	3

TOTAL PROGRAM CREDITS 96

**Aeronautical Technology: Aviation Maintenance Airframe & Powerplant Certificate**

**Aviation Maintenance Division**

This program is for transitioning, retiring military, and veterans with aircraft maintenance experience, the Airframe & Powerplant Seminar Short-term Certificate program is for those with prior experience as aircraft mechanics and a FAA-approved 8610-2 form. The 6-8 week program provides review, gap training, and industry preparation for FAA testing and employment. Prepare for your FAA Mechanic Certification by combining your Military Occupational Specialty (MOS) experience and Rate training with a civilian application.

The program provides a review of general, airframe and powerplant sections of the written, oral and practical FAA-licensing exams with special focus on those areas of civilian aviation not typically encountered during military service. It provides the student with the skills, knowledge and abilities to pursue a career as an Aviation Maintenance Technician.

**PREREQUISITES**

Students must meet with an advisor for entry into this program. A placement test is required to assure language and computational skills are sufficient to assure program success.

**REQUIREMENTS**

Satisfactory completion of a minimum of 240 prescribed clock-hours of instruction per quarter and a minimum 2.0 grade point average (70%) on each class assignment.

**TECHNICAL SPECIALTY COURSES**

AMT	111	Basic Science for Aviation	17
AMT	112	Basic Electricity for Aviation	17
AMT	113	Airframe Structure and Repair	17
AMT	133	Powerplant Theory and Maintenance	17
AMT	214	Airframe Systems	17
AMT	215	Advanced Airframe	17
AMT	234	Powerplant Systems and Components	17
AMT	235	Advanced Powerplant	17

**RELATED INSTRUCTION**

ENGL	105	Applied Composition	3
ENGL	106	Technical Writing	3
ICT	103	Computer Applications I	2
PSYC	240	Psychology of Human Relations	3

TOTAL PROGRAM CREDITS 147

**Aeronautical Technology: Aviation Powerplant Mechanic Certificate**

**Aviation Maintenance Division**

South offers both certificate and degree programs in Aviation Maintenance and Aeronautical Technology. Check with the department for short-term certificate offerings relating to General Aviation for Composite and Aviation Composites Lab.

The Aviation Maintenance certificate program offers a preparatory program in airframe and powerplant (A&P) mechanics. The aviation maintenance airframe and powerplant curriculum is approved by the F.A.A. (Air Agency Certificate # HQ6T596N). The two-year (8 quarters) curriculum provides training on current aviation airframes and powerplants.

Students who successfully complete the curriculum are awarded a certificate of completion qualifying them to take the Federal Aviation Administration examination for the airframe and powerplant mechanic licenses.

Either the airframe or the powerplant component may be taken separately. Completion of both components is highly recommended for increased employment opportunities.

The A.A.S. and A.A.S.-T degree programs provide graduates of recognized airframe and powerplant programs and experienced F.A.A.-certified mechanics the opportunity to expand their knowledge and training, and earn an Associate of Applied Science degree.

**REQUIREMENTS**

Satisfactory completion of a minimum of 240 prescribed clock-hours of instruction per quarter and a minimum 2.0 grade point average (70%) on each class assignment.

**PREREQUISITES**

Students must meet with an advisor for entry into this program. A placement test is required to assure language and computational skills are sufficient to assure program success.

**TECHNICAL SPECIALTY COURSES**

AMT	111	Basic Science for Aviation	17
AMT	112	Basic Electricity for Aviation	17
AMT	133	Powerplant Theory and Maintenance	17
AMT	234	Powerplant Systems and Components	17
AMT	235	Advanced Powerplant	17

**RELATED INSTRUCTION**

ENGL	105	Applied Composition	3
ENGL	106	Technical Writing	3
ICT	103	Computer Applications I	2
PSYC	240	Psychology of Human Relations	3
TOTAL PROGRAM CREDITS			96

## Aerospace Composite Technician Certificate

**Composites Technology**

The Aerospace Composite Technician Program trains individuals in the knowledge and skills necessary for skilled entry-level positions in the areas of fabrication, assembly and repair of mixed and composite materials. Potential employment sectors include aerospace, marine, ground transportation, construction, energy, sporting equipment and medical devices. It consists of two short-term technical certificates (General Aviation, and Composite Aviation) and related instruction courses to receive a Certificate of Proficiency.

**REQUIREMENTS**

Satisfactory completion of a minimum of 240 prescribed clock-hours of instruction per quarter and a minimum 2.0 grade point average (70%) on each class assignment.

**PREREQUISITES**

Students must meet with an advisor for entry into this program. A placement test is required to assure language and computational skills are sufficient to assure program success.

**TECHNICAL SPECIALTY COURSES**

ACM	101	Intro to Aviation Industrial Hygiene	3
ACM	102	Measurement and Drawings – Aviation	3
ACM	103	Materials: Properties, Choice and Application	5
ACM	104	Composites Lab a – General Aviation	6
ACM	111	Composite Fabrication & Tooling	4
ACM	112	Composite Inspection & Repair	2
ACM	114	Composite Lab B – Advanced Composites	9
ACM	198	Capstone A – Aerospace Comp Tech	1
ACM	199	Capstone B – Aerospace Comp Tech	2

**RELATED INSTRUCTION**

College transfer or equivalent courses may be substituted.

ENGL	105	Applied Composition	3
MATH	111	Applied Mathematics I	5
MATH	112	Applied Mathematics II	5
PSYC	240	Psychology of Human Relations	3
TOTAL PROGRAM CREDITS			51

## Airframe & Powerplant Seminar Short-Term Certificate

**Aviation Maintenance Division**

Designed for transitioning, retiring military and veterans with aircraft maintenance experience, the Airframe & Powerplant Seminar Short-term Certificate program is for those with prior experience as aircraft mechanics and a FAA-approved 8610-2 form. The 6-8 week program provides review, gap training and industry preparation for FAA testing and employment. Obtain your FAA Mechanic Certification by combining your Military Occupational Specialty (MOS) experience and Rate training with a civilian application.

The program provides a review of general, airframe and powerplant sections of the written, oral and practical FAA-licensing exams with special focus on those areas of civilian aviation not typically encountered during military service. It provides the student with the skills, knowledge and abilities to pursue a career as an Aviation Maintenance Technician.

**PROGRAM PREREQUISITE**

Students must meet with an advisor for entry into this program. A placement test is required to ensure language and computational skills are sufficient for program success.

**TECHNICAL SPECIALTY COURSES**

AMT	295	Airframe & Powerplant Master Class	16
AMT	296	Amt Professional Portfolio	2
TOTAL PROGRAM CREDITS			18

## Automotive Technology Associate of Applied Science Degree (A.A.S.)

**Automotive Technology Training Center**

The Automotive Technology Associate of Applied Science (AAS) degree program provides students with training in the automotive repair industry, including maintaining, diagnosing and repairing a variety of different automobiles.

Through the program's close industry connections, experienced automotive professionals provide insight into industry trends, allowing students to learn what is expected of them in the workplace. Students also have the opportunity to study towards an ASE certification, increasing their employability. The Automotive Technology program is a NATEF/ASE certified training program.

**PROGRAM PREREQUISITE**

Students must meet with an advisor for entry into this program. A placement test is required to ensure language and computational skills are sufficient for program success.

**TECHNICAL SPECIALTY COURSES**

AUT	100	Introduction to Electricity.....	6
AUT	102	Advanced Electrical Systems.....	4
AUT	104	Automotive Electronics.....	3
AUT	106	Basic Power Accessories.....	3
AUT	112	Manual Transaxles and Clutches.....	3
AUT	114	Manual Transmissions, Transfer Cases & Drive Axl.....	3
AUT	116	Air Conditioning and Heating.....	6
AUT	118	Automatic Transmission Diagnosis and Service.....	4
AUT	120	Advanced Automatic Transmission Service....	6
AUT	122	Steering and Suspension.....	4
AUT	124	Tires and Wheel Alignment.....	4
AUT	126	Basic Brake Systems.....	3
AUT	127	Advanced Brake Systems.....	4
AUT	128	Automotive Engine Diagnose/Remove and Replace.....	4
AUT	130	Automotive Engine Rebuild.....	8
AUT	134	Introduction to Engine Performance.....	3
AUT	138	Advanced Drivability and Fuel Systems.....	4
AUT	140	Engine Computers.....	4
AUT	142	Emission Controls and Diagnostic Test Equipment.....	6
MVM	100	Introduction to Automotive Technology I.....	3
MVM	102	Introduction to Automotive Technology II.....	6

**RELATED INSTRUCTION**

ENGL	107	Applied Composition.....	5	
MATH	110	Applied Math for Technicians.....	3	
Following can be substituted:				
MATH 102 – College Algebra (5) or MATH& 141 – PreCalculus I (5) or MATH& 142 – PreCalculus II (5) or any other MATH course with MATH 098 as a prerequisite				
Psychology or Sociology course.....				3
Following can be substituted:				
3 credit class: PSYC 240 – Psychology of Human Relations or 5 credits classes: Psychology courses: PSYC& 100, PSYC 120, PSYC 160, PSYC& 200, PSYC 207, PSYC 210, PSYC& 220, PSYC 222, PSYC 230, PSYC 245, PSYC 250 or Sociology courses: SOC& 101, SOC 230, SOC 245, SOC 253 Course taken must be college transferable.				

TOTAL PROGRAM CREDITS 104

When the AAS sequence is followed, student will have achieved NATEF GST Certification, NATEF Minor Certification, and NATEF Major Certification as well.

**Automotive Technology Associate of Applied Science–Transfer Degree (A.A.S.-T)  
Automotive Technology Training Center**

The Automotive Technology Associate of Applied Science Transfer (AAS-T) degree program provides students with training in the automotive repair industry, including maintaining, diagnosing and repairing a variety of different automobiles. The AAS-T degree includes additional coursework to develop leadership and communication skills.

Through the program’s close industry connections, experienced automotive professionals provide insight into industry trends, allowing students to learn what is expected of them in the workplace. Students also have the opportunity to study towards an ASE certification, increasing their employability. The Automotive Technology program is a NATEF/ASE certified training program.

This degree is designed for students to learn technical skills for employment, but who may also want to transfer to a Bachelor of Applied Science (BAS) degree program or a four-year institution.

**PROGRAM PREREQUISITE**

Students must meet with an advisor for entry into this program. A placement test is required to ensure language and computational skills are sufficient for program success.

**TECHNICAL SPECIALTY COURSES**

AUT	100	Introduction to Electricity.....	6
AUT	102	Advanced Electrical Systems.....	4
AUT	104	Automotive Electronics.....	3
AUT	106	Basic Power Accessories.....	3
AUT	112	Manual Transaxles and Clutches.....	3
AUT	114	Manual Transmissions, Transfer Cases & Drive Axl.....	3
AUT	116	Air Conditioning and Heating.....	6
AUT	118	Automatic Transmission Diagnosis and Service..	4
AUT	120	Advanced Automatic Transmission Service....	6
AUT	122	Steering and Suspension.....	4
AUT	124	Tires and Wheel Alignment.....	4
AUT	126	Basic Brake Systems.....	3
AUT	127	Advanced Brake Systems.....	4
AUT	128	Automotive Engine Diagnose/Remove and Replace.....	4
AUT	130	Automotive Engine Rebuild.....	8
AUT	134	Introduction to Engine Performance.....	3
AUT	138	Advanced Drivability and Fuel Systems.....	4
AUT	140	Engine Computers.....	4
AUT	142	Emission Controls and Diagnostic Test Equipment.....	6
MVM	100	Introduction to Automotive Technology I.....	3
MVM	102	Introduction to Automotive Technology II.....	6

**RELATED INSTRUCTION**

ENGL& 101	English Composition I	5
MATH& 107	Math in Society	5
Following can be substituted: Any higher level college transferable MATH course. See Advising for list of approved courses.		
PSYC& 100	General Psychology	5
Following can be substituted: PSYC& 200 – Lifespan Psychology (5) or Any PSYC course which is college transferable. See Advising for list of approved courses.		
Elective		5
Following can be substituted: Visual, Literary, and Performing Arts (5) or Individuals, Cultures, and Societies course (5) or the Natural World course (5)		

TOTAL PROGRAM CREDITS 113

When the AAS sequence is followed, students will have achieved NATEF GST Certification, NATEF Minor Certification and NATEF Major Certification as well.

**Certificate in Automatic Transmission/  
Transaxle Short-Term Certificate**

**Automotive Technology Training Center**

Certificate covers disassemble, clean, inspect, overhaul (this will include replacement of bands, clutches, bushings, seals and various other components to make the transmission serviceable); and reassemble of automatic transmission. In addition the function and construction of each component, as well as their diagnosis and service procedures will be covered. Instruction in safety, environmental awareness, human relations and leadership are taught as an integral part of this unit of study.

**TECHNICAL SPECIALTY COURSES**

AUT 118	Automatic Transmission Diagnosis and Service	4
AUT 120	Advanced Automatic Transmission Service	6
TOTAL PROGRAM CREDITS		10



**Certificate in Brakes  
Short-Term Certificate**

**Automotive Technology Training Center**

Certificate covers brake theory, diagnosing brake problems, master cylinders, wheel cylinders, hydraulic valves, brake hoses, brake lines, brake shoes, brake drums, parking brakes as well as removal and installation of brakes from vehicles. In addition, the function and construction of each component, and their diagnosis and service procedures will be covered. Instruction in safety, environmental awareness, human relations and leadership are taught as an integral part of this unit.

**TECHNICAL SPECIALTY COURSES**

AUT 126	Basic Brake Systems	3
AUT 127	Advanced Brake Systems	4
TOTAL PROGRAM CREDITS		7

**Certificate in Electrical/Electronic  
Systems Short-Term Certificate**

**Automotive Technology Training Center**

Certificate covers safety, electrical theory, and types of current, types of circuits, semiconductors, magnetism, EMI suppression, circuit protection, reading electrical schematics, circuit defects and using test equipment. Components covered are starting systems, charging systems, as well as removal and installation of electrical components from vehicles. In addition the function and construction of each component, and their diagnosis and service procedures will be covered. Instruction in safety, environmental awareness, human relations and leadership are taught as an integral part of this unit.

**TECHNICAL SPECIALTY COURSES**

AUT 102	Advanced Electrical Systems	4
AUT 104	Automotive Electronics	3
AUT 106	Basic Power Accessories	3
TOTAL PROGRAM CREDITS		10

## Certificate in Engine Performance Short-Term Certificate

### Automotive Technology Training Center

Certificate covers gasoline ignition and fuel systems. Included are distributor waste spark and coil on plug ignition systems also fuel pumps both electric and mechanical, fuel injection throttle body, port fuel sequential and gasoline direct injection systems. Certificate also covers the automotive engine computer, it's multiple power and ground supplies, and how these affect the running of the vehicle. It covers the inputs and outputs of the PCM, how each contributes to the running of the engine, and how to diagnose each one.

#### TECHNICAL SPECIALTY COURSES

AUT	138	Advanced Drivability and Fuel Systems.....	4
AUT	140	Engine Computers .....	4
AUT	142	Emission Controls and Diagnostic Test Equipment .....	6
TOTAL PROGRAM CREDITS			14

## Certificate in Engine Repair Short-Term Certificate

### Automotive Technology Training Center

Certificate covers Contents engine theory, diagnosing engine problems, engine lubrication, cooling systems, and removal and installation of engines from vehicles. In addition the function and construction of each component, and their diagnosis and service procedures will be covered. Instruction in safety, environmental awareness, human relations and leadership are taught as an integral part of this unit. Other topics are automotive drivability theory, diagnosing drivability problems, as well as removal, repair and installation of drivability components from vehicles. In addition, the function and construction of each component, as well as their diagnosis and service procedures will be covered. Instruction in safety, environmental awareness, human relations and leadership are taught as an integral part of this unit of study

#### TECHNICAL SPECIALTY COURSES

AUT	128	Automotive Engine Diagnose/Remove and Replace.....	4
AUT	130	Automotive Engine Rebuild.....	8
AUT	134	Introduction to Engne Performance.....	3
TOTAL PROGRAM CREDITS			15

## Certificate in Heating and Air Conditioning Short-Term Certificate

### Automotive Technology Training Center

Certificate covers basic principles involving air conditioning and heating systems; troubleshooting and diagnosing of air conditioning and heating systems; removal and reinstalling of air conditioning and heating components in vehicles. In addition, the function and construction of each component, as well as their diagnosis and service procedures will be covered. Instruction in safety, environmental awareness, human relations and leadership are taught as an integral part of this unit.

#### TECHNICAL SPECIALTY COURSES

AUT	116	Air Conditioning and Heating.....	6
TOTAL PROGRAM CREDITS			6

## Certificate in Manual Drive Train and Axles Short-Term Certificate

### Automotive Technology Training Center

Certificate covers power flow and principles involving manual transmissions, transfer cases and drive axles; troubleshooting and diagnosing manual transmissions, transfer cases and drive axles; removal of manual transmission, transfer cases and drive axles from vehicle; disassemble, clean, inspect, overhaul and reassemble of manual transmission, transfer cases and drive axles; reinstall manual transmission, transfer case and drive axle in vehicle. In addition the function and construction of each component, as well as their diagnosis and service procedures will be covered. Instruction in safety, environmental awareness, human relations and leadership are taught as an integral part of this unit of study.

#### TECHNICAL SPECIALTY COURSES

AUT	112	Manual Transaxles and Clutches .....	3
AUT	114	Manual Transmissions, Transfer Cases & Drive Axl .....	3
TOTAL PROGRAM CREDITS			6

## Certificate in Steering and Suspension Short-Term Certificate

### Automotive Technology Training Center

Certificate covers steering and suspension theory, diagnosing steering and suspension problems, chassis design, wheel bearings, steering and suspension components, as well as removal, repair and installation of steering and suspension components from vehicles. In addition the function and construction of each component, and their diagnosis and service procedures will be covered. Instruction in safety, environmental awareness, human relations and leadership are taught as an integral part of this unit.

#### TECHNICAL SPECIALTY COURSES

AUT 122	Steering and Suspension	4
AUT 124	Tires and Wheel Alignment	4
TOTAL PROGRAM CREDITS		8

## Composite Aviation Short-Term Certificate

### Georgetown Campus

Prepares technicians to fabricate, assemble and repair composite materials on aircraft at an entry level.

#### TECHNICAL SPECIALTY COURSES

ACM 111	Composite Fabrication & Tooling	4
ACM 112	Composite Inspection & Repair	2
ACM 114	Composite Lab B – Advanced Composites	9
ACM 199	Capstone B – Aerospace Comp Tech	2
TOTAL PROGRAM CREDITS		17

## Diesel & Heavy Equipment Technician Associate of Applied Science Degree (A.A.S.)

### Diesel Technology Training Center

The Diesel & Heavy Equipment Technician Associate of Applied Science (AAS) Degree program prepares students with the skills required to maintain everything from trucks and tractors to ferries and forklifts. Our ASE-based curriculum is certified to the latest in NATEF standards, and will prepare you for all aspects of diesel and heavy equipment repair. Advanced standing may be granted for work experience and/or related training. Students are responsible for obtaining required tools before instruction begins.

The Associate of Applied Science Degree builds upon previously acquired knowledge and skills to develop leadership and communication abilities.

Completion of Certificate Requirements: 56 credits

#### PROGRAM PREREQUISITE

Students must meet with an advisor for entry into this program. A placement test is required to ensure language and computational skills are sufficient for program success.

#### TECHNICAL SPECIALTY COURSES

BUS 159	Introduction to Computing for Technical Programs	5
HDM 100	Preventive Maintenance and Inspection	8
HDM 108	Heavy Duty Diesel Welding	8
HDM 110	Introduction to Electrical	8
HDM 115	Advanced Electrical	8
HDM 120	Tires, Alignment, Steering and Suspension	8
HDM 125	Hydraulic and Air Brakes	8
HDM 130	Hydraulics & Pneumatics	8
HDM 135	Drive Train	8
HDM 140	Heating, Ventilation and Air Conditioning	8
HDM 145	Gasoline Engines	8
HDM 150	Diesel Engine Diagnos/Remove and Replace	8
HDM 155	Diesel Engine Rebuild	8
HDM 171	Lift Truck Operator	2
HDM 197	Internship – Heavy Duty Diesel	7

Credit range: 1-7

Total required credits for HDM 197: 1-6

Requires program advising. See a program advisor or counselor for details.

MVM 101	Introduction to Motor Vehicle Maint Technology I	8
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#### RELATED INSTRUCTION

ENGL 105	Applied Composition	3
MATH 110	Applied Math for Technicians	3
PSYC 240	Psychology of Human Relations	3

TOTAL PROGRAM CREDITS	121-126
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## Diesel & Heavy Equipment Technician Associate of Applied Science –Transfer Degree (A.A.S.-T)

### Diesel Technology Training Center

The Diesel & Heavy Equipment Technician Associate of Applied Science Transfer (AAS-T) Degree program prepares students with the skills required to maintain everything from trucks and tractors to ferries and forklifts. Our ASE-based curriculum is certified to the latest in NATEF standards, and will prepare you for all aspects of diesel and heavy equipment repair. Advanced standing may be granted for work experience and/or related training. Students are responsible for obtaining required tools before instruction begins.

The Associate of Applied Science Transfer Degree builds upon previously acquired knowledge and skills to develop leadership and communication abilities. This degree is designed for students to learn technical skills for employment, but who may also want to transfer to a Bachelor of Applied Science (BAS) degree program or a four-year institution.

**PROGRAM PREREQUISITE**

Students must meet with an advisor for entry into this program. A placement test is required to ensure language and computational skills are sufficient for program success.

**TECHNICAL SPECIALTY COURSES**

BUS	159	Introduction to Computing for Technical Programs	5
HDM	100	Preventive Maintenance and Inspection	8
HDM	108	Heavy Duty Diesel Welding	8
HDM	110	Introduction to Electrical	8
HDM	115	Advanced Electrical	8
HDM	120	Tires, Alignment, Steering and Suspension	8
HDM	125	Hydraulic and Air Brakes	8
HDM	130	Hydraulics & Pneumatics	8
HDM	135	Drive Train	8
HDM	140	Heating, Ventilation and Air Conditioning	8
HDM	145	Gasoline Engines	8
HDM	150	Diesel Engine Diagnos/Remove and Replace	8
HDM	155	Diesel Engine Rebuild	8
HDM	171	Lift Truck Operator	2
HDM	197	Internship – Heavy Duty Diesel	7

Credit range: 1-7

Total required credits for HDM 197: 1-7

Requires program advising. See a program advisor or counselor for details.

MVM	101	Introduction to Motor Vehicle Maint Technology I	8
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**RELATED INSTRUCTION**

Minimum of 10 credits from any two (2) of the following categories:

Visual, Literary, and Performing Arts	5
Individual, Cultures, and Societies	5
Natural World, the	5
Science & Mathematics	5
Business & Office	5
Supervision & Management	5
Technical Specialty course	5

**RELATED INSTRUCTION**

ENGL&	101	English Composition I	5
MATH	102	College Algebra	5
PSYC&	100	General Psychology	5

TOTAL PROGRAM CREDITS 137-143



**Diesel & Heavy Equipment Technician Certificate**

**Diesel Technology Training Center**

The Diesel & Heavy Equipment Technician Certificate program prepares students with the skills required to maintain everything from trucks and tractors to ferries and forklifts. Our ASE-based curriculum is certified to the latest in NATEF standards, and will prepare you for all aspects of diesel and heavy equipment repair. Advanced standing may be granted for work experience and/or related training. Students are responsible for obtaining required tools before instruction begins.

The certificate program can be completed in six quarters.

**PROGRAM PREREQUISITE**

Students must meet with an advisor for entry into this program. A placement test is required to ensure language and computational skills are sufficient for program success.

**TECHNICAL SPECIALTY COURSES**

BUS	159	Introduction to Computing for Technical Programs	5
HDM	100	Preventive Maintenance and Inspection	8
HDM	108	Heavy Duty Diesel Welding	8
HDM	110	Introduction to Electrical	8
HDM	115	Advanced Electrical	8
HDM	120	Tires, Alignment, Steering and Suspension	8
HDM	125	Hydraulic and Air Brakes	8
HDM	171	Lift Truck Operator	2
MVM	101	Introduction to Motor Vehicle Maint Technology I	8

**RELATED INSTRUCTION**

ENGL	105	Applied Composition	3
Admission via passing testing requirement /permission only.			
MATH	110	Applied Math for Technicians	3
PSYC	240	Psychology of Human Relations	3

TOTAL PROGRAM CREDITS 72

**Flagging (non-credit) Short-Term Certificate**

**Georgetown Campus**

The course covers all the material and work practices which a person needs in order to qualify as an entry level licensed flagger in the State of Washington. Federal, State and Local Guidelines and the Manual on Uniform Traffic Control Devices (MUTCD) are also covered.

**TECHNICAL SPECIALTY COURSES**

CSS	123	Flagging and Traffic Control	0
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## General Aviation Short-Term Certificate

### Aviation Maintenance Division

Provides foundational instruction in the field of aviation maintenance.

#### TECHNICAL SPECIALTY COURSES

ACM	101	Intro to Aviation Industrial Hygiene .....	3
ACM	102	Measurement and Drawings – Aviation .....	3
ACM	103	Materials: Properties, Choice and Application..	5
ACM	104	Composites Lab A – General Aviation.....	6
ACM	198	Capstone A – Aerospace Comp Tech.....	1
TOTAL PROGRAM CREDITS			18

## Industrial Maintenance Mechanic (AJAC) Associate of Applied Science –Transfer Degree (A.A.S.-T)

### Apprenticeship Division

The Industrial Maintenance Mechanic Program is an Apprenticeship Program offered through the Aerospace Joint Apprenticeship Committee at the Georgetown Campus. This program is a two-year Aerospace/aircraft oriented program. Students must have successfully completed the first two years of aircraft mechanic airframe machinist program and have their FAA airframe license. For more information please contact the Aerospace Joint Apprenticeship Committee at 206-764-7940 or info@AJACtraining.org.

#### TECHNICAL SPECIALTY COURSES

IMMA	101	Mechanical Drawings AJAC .....	5
IMMA	102	Lifting & Rigging AJAC.....	5
IMMA	103	Precision Machining.....	5
IMMA	121	Welding for Maintenance Technicians.....	5
IMMA	122	Electrical Systems .....	5
IMMA	123	Machine Automation Theory .....	5
IMMA	201	Math for Maintenance Technicians .....	5
IMMA	202	Maintenance Machining.....	5
IMMA	203	Mechanical Systems.....	5
IMMA	222	Materials Processes & References.....	5
IMMA	223	Mechatronics Capstone .....	5

#### RELATED INSTRUCTION

BUS	235	Oral Communications in Business.....	5
Following can be substituted:			
CMST& 220 – Public Speaking (5)			
ENGL&	101	English Composition I .....	5
MATH&	107	Math in Society.....	5
PSYC&	100	General Psychology .....	5
Following can be substituted:			
SOC& 101 – Intro to Sociology (5)			
TOTAL PROGRAM CREDITS			90

## Industrial Maintenance Mechanic (AJAC) Certificate

### Apprenticeship Division

The Industrial Maintenance Mechanic Program is an Apprenticeship Program offered through the Aerospace Joint Apprenticeship Committee at the Georgetown Campus. This program is a two-year Aerospace/aircraft oriented program. Students must have successfully completed the first two years of aircraft mechanic airframe machinist program and have their FAA airframe license. For more information please contact the Aerospace Joint Apprenticeship Committee at 206-764-7940 or info@AJACtraining.org

#### TECHNICAL SPECIALTY COURSES

IMMA	101	Mechanical Drawings AJAC.....	5
IMMA	102	Lifting & Rigging AJAC.....	5
IMMA	103	Precision Machining.....	5
IMMA	121	Welding for Maintenance Technicians.....	5
IMMA	122	Electrical Systems .....	5
IMMA	123	Machine Automation Theory .....	5
IMMA	201	Math for Maintenance Technicians .....	5
IMMA	202	Maintenance Machining.....	5
IMMA	203	Mechanical Systems.....	5
IMMA	221	Fluid Power Systems.....	5
IMMA	222	Materials Processes & References.....	5
IMMA	223	Mechatronics Capstone .....	5
On-the-Job Training credits .....			10
TOTAL PROGRAM CREDITS			70

## Industrial Manufacturing Advanced Short-Term Certificate

### Georgetown Campus

A short-term training program primarily for entry-level and reentering professionals wanting to update and expand their skill set in the world of diversified and advanced manufacturing. In recent years, the manufacturing industry has been a staple, living wage job for many residents in the Puget Sound. With manufacturing on the rise this short-term career and technical certificate supports introductory skill building in new and traditional manufacturing techniques including industry certifications in: Electronics, Blueprint Writing, CPR/First Aid, Flagging, OSHA 30, LEAN Manufacturing, Composites and Welding.

Graduates have the opportunity to be hired directly by employers that support the program and interview candidates. The result from this program is a skilled pipeline of entry level workers to support the growing number of industrial manufacturing jobs in the region. The Academy provides students a pathway to enter into an apprenticeship or continue their education with the Seattle College District. Credits earned in this program may transfer into other industrial educational pathways at South Seattle College or in the district. Successful completion of the Manufacturing Academy may satisfy the minimum requirements for entry into the Aerospace Joint Apprenticeship Council program.

This program is one of two certificates that make up the Industrial Manufacturing Academy.

**TECHNICAL SPECIALTY COURSES**

INT	112	Manufacturing Tools and Trades	5
INT	115	Introduction to Lean Manufacturing	3
INT	165	OSHA 30 General Safety	3
INT	180	Introduction to Composites	3
TOTAL PROGRAM CREDITS			14

**Industrial Manufacturing Basics Short-Term Certificate**

**Georgetown Campus**

A short-term training program primarily for entry-level and reentering professionals wanting to update and expand their skill set in the world of diversified and advanced manufacturing. In recent years, the manufacturing industry has been a staple, living wage job for many residents in the Puget Sound. With manufacturing on the rise this short-term career and technical certificate supports introductory skill building in new and traditional manufacturing techniques including industry certifications in: Electronics, Blueprint Writing, CPR/First Aid, Flagging, OSHA 30, LEAN Manufacturing, Composites and Welding.

Graduates have the opportunity to be hired directly by employers that support the program and interview candidates. The result from this program is a skilled pipeline of entry level workers to support the growing number of industrial manufacturing jobs in the region. The Academy provides students a pathway to enter into an apprenticeship or continue their education with the Seattle College District. Credits earned in this program may transfer into other industrial educational pathways at South Seattle College or in the district. Successful completion of the Manufacturing Academy may satisfy the minimum requirements for entry into the Aerospace Joint Apprenticeship Council program.

This program is one of two certificates that make up the Industrial Manufacturing Academy.

**TECHNICAL SPECIALTY COURSES**

IFS	105	Ind 1st Aid/CPR-AED Bloodborne Pathogens	1
INT	101	Manufacturing Basics I	3
INT	108	Intro to Blueprint Reading for Construction	3
INT	115	Introduction to Lean Manufacturing	3
INT	160	Introduction to Safety and Health OSHA 10	1
MATH	110	Applied Math for Technicians	3
TOTAL PROGRAM CREDITS			14

**Industrial Vehicles Basics Short-Term Certificate**

**Georgetown Campus**

This certificate is designed to prepare students to enter the warehouse and logistics industries and to prepare students for Washington State's Commercial Driver's License (CDL) knowledge examination. With a growing need in logistics and transportation and the graying of the local workforce, employers and partners require a qualified pipeline of students prepared to enter the workplace. Industry-recognized credentials, job preparation, and test preparation comprise the course.

**TECHNICAL SPECIALTY COURSES**

HDM	171	Lift Truck Operator	2
INT	109	Flagging and Traffic Control	1
INT	160	Introduction to Safety and Health OSHA 10	1
Credit Range: 1-3/Total Required Credits: 1			
IVP	100	CDL Knowledge Test Preparation	2
WET	100	Employment and Education Preparation	1
Credit Range: 1-5/Total Required Credits: 1			
TOTAL PROGRAM CREDITS			7

**Industrial Vehicles Basics Advanced Short-Term Certificate**

**Georgetown Campus**

This certificate is designed to pass their Washington State's Commercial Driver's License (CDL) class A driving examination. With a growing need in logistics and transportation, employers and partners require a qualified pipeline of students prepared to enter the workplace. Nationally, the American Trucking Association estimates a current shortage of 35 to 40 thousand drivers, projected to reach 240,000 by 2022. According to EMSI, from 2015 to 2020 there will be 985 annual openings in Washington for tractor-trailer truck drivers. This program will prepare students for industry with a focus on safety, trip inspection, street driving, and test preparation.

**TECHNICAL SPECIALTY COURSES**

IVP	101	Fundamentals of Commercial Truck Driving . . .	6
IVP	102	Class a Street Driving . . . . .	2
IVP	103	Class a Backing and Maneuvering . . . . .	2
IVP	104	Class a Trip Inspection . . . . .	2
IVP	105	Class a Lab Range and Observation . . . . .	7
TOTAL PROGRAM CREDITS			19

## Landscape Horticulture Irrigation Technician Short-Term Certificate

**Landscape Horticulture**

This is a short-term training program for landscape and horticultural professionals wanting to update and expand their skill set or students interesting in water resource management. Water resource management requires understanding for managing programs designed to protect landscapes, habitats and natural resources. This will be helpful to the professional Landscape Contractor who wants to bid on public, commercial or residential landscapes projects that include irrigation systems.

Completing the certificate would prepare one for design, installation, operation, maintenance, management, and service for landscape, and irrigation systems.

**TECHNICAL SPECIALTY COURSES**

LHO	135	Introduction to Drainage & Irrigation Systems .	3
LHO	197	Internship in Landscape Horticulture . . . . .	2
LHO	236	Advanced Irrigation System Design . . . . .	5
LHO	237	Advanced Irrigation Diagnostics and Repair . . .	5
TOTAL PROGRAM CREDITS			15

## Level 1 Welding Short-Term Certificate

**Technical Education**

This certificate is a one quarter certificate in welding that includes courses in welding process and application, power tools, print reading, layout skills, oxy/acetylene, air carbon arc cutting, and punching and shearing. It may be used as the first quarter of a multi quarter certificate that must be taken in progression. Level I Certificate gives the successful completer an overview of the welding field and basic skills in welding and cutting. This certificate could be used to obtain an entry level job or continue with more training.

**TECHNICAL SPECIALTY COURSES**

WFT	100	Welding Theory . . . . .	5
WFT	120	Intro to Welding Oxyacetylene/Shielded Metal Arc . . . . .	6
WFT	121	SMAW Shielded Metal Arc Welding . . . . .	6
TOTAL PROGRAM CREDITS			17

## Level 2 Welding Short-Term Certificate

**Technical Education**

This certificate lists the courses required for the second quarter of study for the Level 2 Certificate. Courses required include advanced layout, press brake operation, shielded metal arc welding, welding symbols, flame shaping, and maintenance and repair welding. Successful completion of Level I is required to enroll in Level 2 courses. Level 2 Certificate gives the successful completer a more in-depth study of general welding and fabricating principles, and will qualify students for employment in an entry level welding job or continue with more training.

**TECHNICAL SPECIALTY COURSES**

WFT	105	Print Reading and Welding Symbols . . . . .	5
WFT	124	Gas Metal Arc Welding . . . . .	6
WFT	125	FCAW Flux Core Arc Welding . . . . .	6
TOTAL PROGRAM CREDITS			17

## Level 3 Welding Short-Term Certificate

**Technical Education**

This certificate lists the courses required for the third quarter of study for the Level 3 Certificate. Courses required include Gas Metal Arc Welding, Gas Tungsten Arc Welding, and Weld Inspection. Level 3 Welding Certificate gives the successful completer more advanced skills in welding and fabricating principles, and will qualify students for employment in entry level welding jobs or continue with more training.

**TECHNICAL SPECIALTY COURSES**

WFT	111	Materials and Testing . . . . .	5
WFT	127	Gas Tungsten Arc Welding . . . . .	6
WFT	128	Fabrication Carbon Arc/Plasma Arc Cutting . . .	6
TOTAL PROGRAM CREDITS			17

## Level 4 Welding Short-Term Certificate

**Technical Education**

This certificate lists the courses required for the fourth quarter of study for the Level 4 Certificate. Courses required include Welding Certification, Salvage and Reconstruction, Heat Treat, Employee Rights and Responsibilities. Level 4 Welding Certificate gives the successful completer more advanced skills in welding and fabricating principles, and will qualify students for employment in entry level welding jobs or continue with more training.

**TECHNICAL SPECIALTY COURSES**

WFT	220	Pipe Shielded Metal Arc (SMAW) . . . . .	8
WFT	227	Advanced Fabrication I . . . . .	7
TOTAL PROGRAM CREDITS			15

## Level 5 Welding Short-Term Certificate

### Technical Education

This certificate lists the courses required for the fifth quarter of study for the Level 5 Certificate. Courses required include Estimating and Layout, Development of Welding Process, Aluminum Weldments, Material Handling, Construction of Jigs and Fixtures. Level 5 Welding Certificate gives the successful completer more advanced skills in welding and fabricating principles, and will qualify students for employment in entry level welding jobs or continue with more training.

### TECHNICAL SPECIALTY COURSES

WFT	228	Pipe Gas Tungsten Arc Welding (GTAW).....	8
WFT	238	Advanced Fabrication II.....	7
TOTAL PROGRAM CREDITS			15

## LHO: Landscape Horticulture Associate of Applied Science Degree (A.A.S.)

### Technical Education

The Landscape Horticulture program offers training in landscape design and construction, greenhouse and nursery operations, irrigation systems, plant problem diagnostics, pruning, plant identification, soil science and much more. Students may choose between a certificate program, an Associate of Applied Science degree or individual courses to meet specific needs. Graduates typically find employment in landscape construction firms, pest management services, tree care companies, garden centers, wholesale nurseries, park maintenance departments and greenhouses. There are many opportunities for self-employment in this field.

### PROGRAM PREREQUISITE

Students must meet with an advisor for entry into this program. A placement test is required to ensure language and computational skills are sufficient for program success.

### TECHNICAL SPECIALTY COURSES

LHO	110	Integrated Pest and Weed Management.....	5
LHO	111	Greenhouse Operations.....	4
LHO	115	Fall Plant Identification.....	4
LHO	116	Winter Plant Identification.....	4
LHO	117	Spring Plant Identification.....	4
LHO	123	Residential Landscape Design.....	5
LHO	136	Irrigation and Drainage.....	5
LHO	139	Landscape Maintenance.....	4
LHO	140	Introduction to Arboriculture.....	4
LHO	155	Pruning.....	4
LHO	189	Introduction to Landscape Construction.....	4
LHO	196	Capstone: Planning and Design.....	4
LHO	197	Internship in Landscape Horticulture.....	2
LHO	198	Greenhouse and Nursery Practicum.....	3

LHO	210	Plant Problem Diagnostics.....	4
LHO	215	Plant Propagation.....	4
LHO	250	Small Business for Horticulture.....	5
LHO	255	Edible Trees Shrubs and Vines.....	3
LHO	296	Capstone: Implementation.....	5

### RELATED INSTRUCTION

BUS	116	Business Math/Spreadsheets.....	5
ENGL	107	Applied Composition.....	5
PSYC	240	Psychology of Human Relations.....	3
Following can be substituted:			
BUS 113 – Diversity Issues in Business (3)			

TOTAL PROGRAM CREDITS	92
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## LHO: Landscape Horticulture Associate of Applied Science–Transfer Degree (A.A.S.-T)

### Technical Education

The Landscape Horticulture program offers training in landscape design and construction, greenhouse and nursery operations, irrigation systems, plant problem diagnostics, pruning, plant identification, soil science and much more. Students may choose between a certificate program, an Associate of Applied Science degree or individual courses to meet specific needs. Graduates typically find employment in landscape construction firms, pest management services, tree care companies, garden centers, wholesale nurseries, park maintenance departments and greenhouses. There are many opportunities for self-employment in this field.

### PROGRAM PREREQUISITE

Students must meet with an advisor for entry into this program. A placement test is required to ensure language and computational skills are sufficient for program success.

### TECHNICAL SPECIALTY COURSES

LHO	110	Integrated Pest and Weed Management.....	5
LHO	111	Greenhouse Operations.....	4
LHO	115	Fall Plant Identification.....	4
LHO	116	Winter Plant Identification.....	4
LHO	117	Spring Plant Identification.....	4
LHO	123	Residential Landscape Design.....	5
LHO	136	Irrigation and Drainage.....	5
LHO	139	Landscape Maintenance.....	4
LHO	140	Introduction to Arboriculture.....	4
LHO	155	Pruning.....	4
LHO	189	Introduction to Landscape Construction.....	4
LHO	196	Capstone: Planning and Design.....	4
LHO	197	Internship in Landscape Horticulture.....	2
LHO	198	Greenhouse and Nursery Practicum.....	3
LHO	210	Plant Problem Diagnostics.....	4
LHO	215	Plant Propagation.....	4
LHO	250	Small Business for Horticulture.....	5
LHO	255	Edible Trees Shrubs and Vines.....	3
LHO	296	Capstone: Implementation.....	5

**RELATED INSTRUCTION**

ENGL& 101	English Composition I	5
MATH& 107	Math in Society	5
Following can be substituted:		
Other Quantitative/Symbolic Reasoning course		
See Advising for list of approved courses.		
PSYC& 100	General Psychology	5
TOTAL PROGRAM CREDITS		93

**LHO: Landscape Horticulture Certificate****Technical Education**

The Landscape Horticulture Certificate program offers a foundation of horticulture knowledge in plant identification, growing, arboriculture, pruning, soils, plant problem diagnostics, and landscape installation and management.

One-year certificate that demonstrates a foundation of horticultural information and a measurable commitment to specific goals and their achievement. Includes completion of: ENGL 107, BUS 116 and PSYC 240.

Graduates typically find employment in landscape installation and management of residential, commercial and public areas, or with tree care companies, nurseries, and greenhouses. There are many opportunities for self-employment in this field.

**PROGRAM PREREQUISITE**

Students must meet with an advisor for entry into this program. A placement test is required to ensure language and computational skills are sufficient for program success.

**TECHNICAL SPECIALTY COURSES**

LHO 110	Integrated Pest and Weed Management	5
LHO 111	Greenhouse Operations	4
LHO 115	Fall Plant Identification	4
LHO 116	Winter Plant Identification	4
LHO 117	Spring Plant Identification	4
LHO 139	Landscape Maintenance	4
LHO 140	Introduction to Arboriculture	4
LHO 155	Pruning	4
LHO 197	Internship in Landscape Horticulture	1
LHO 198	Greenhouse and Nursery Practicum	3

**RELATED INSTRUCTION**

BUS 116	Business Math/Spreadsheets	5
ENGL 107	Applied Composition	5
PSYC 240	Psychology of Human Relations	3
Following can be substituted:		
BUS 113 – Diversity Issues in Business (3)		
TOTAL PROGRAM CREDITS		51

**Maintenance and Light Repair 1 Year Certificate (MLR) Certificate****Automotive Technology Training Center**

The Maintenance and Light Repair 1 Year Certificate (MLR) program qualifies students for entry level employment in the auto maintenance industry and related fields. This certificate program meets the NATEF General Service Technician (GST) requirements.

**PROGRAM PREREQUISITE**

Students must meet with an advisor for entry into this program. A placement test is required to ensure language and computational skills are sufficient for program success.

**TECHNICAL SPECIALTY COURSES**

AUT 100	Introduction to Electricity	6
AUT 122	Steering and Suspension	4
AUT 124	Tires and Wheel Alignment	4
AUT 126	Basic Brake Systems	3
AUT 127	Advanced Brake Systems	4
AUT 128	Automotive Engine Diagnose/Remove and Replace	4
AUT 130	Automotive Engine Rebuild	8
AUT 134	Introduction to Engine Performance	3
MVM 100	Introduction to Automotive Technology I	3
MVM 102	Introduction to Automotive Technology II	6

**RELATED INSTRUCTION**

ENGL 105	Applied Composition	3
MATH 110	Applied Math for Technicians	3
PSYC 240	Psychology of Human Relations	3
TOTAL PROGRAM CREDITS		54

**Manufacturing/Machinist Technology Certificate of Proficiency****Georgetown Campus**

The CNC Machinist Program is an intensive program designed to prepare qualified individuals for entry into the job market as a CNC Machinist (Computer Numerical Control). Students will be involved in the production and machining of industry parts.

The Basic Manufacturing Certificate of Completion is a one quarter (3 month) course of study that provides students with entry-level manufacturing skills and a foundation for certificates and two year degrees in other manufacturing specialty areas. Students interested in advanced knowledge and skills are encouraged to enroll in a longer course of study to complete an Associate in Applied Arts and Sciences (AAAS) degree in Manufacturing at partner colleges.

The Principles of Precision Machining Certificate of Completion is a two quarter (6 month) course of study that provides students with entry level manufacturing skills and a foundation to pursue other certificates and two year degrees in other manufacturing specialty areas.

The Manufacturing/Machinist Technology Certificate of Proficiency is a three quarter (9 month) course of study to prepare students for entry into the job market as a Manufacturing Technician.

This program is part of a collaboration program with Shoreline Community College. Upon completion of the Certificate of Proficiency, it can be applied towards an AAAS in Manufacturing/Machinist Technology completed at Shoreline Community College.

**TECHNICAL SPECIALTY COURSES**

MFGT 105	Basic Manufacturing .....	20
MFGT 106	Intermediate Manufacturing.....	20
MFGT 120	Advanced Manufacturing.....	20
<b>TOTAL PROGRAM CREDITS</b>		<b>60</b>

**Maritime Shipyard Welding Certificate**

**Georgetown Campus**

The Maritime Shipyard Welding Certificate program provides training in welding theory, process and application understanding in the context specific to the marine industry. Focus includes Shielded Metal Arc Welding (SMW), tack welding, SMAW-1F/2F-horizontal/3F-vertical/ 4F-overhead fillet weld positions, joint fit-up, back-gouging and other skills applied to a shipyard work environment.

Other competencies include welds in vertical and overhead positions for marine operations and accomplishing welds out of doors in all weather conditions and in areas not easily accessible. Students will test for a range of maritime recognized certifications including NAVSEA and American Welding Society (AWS) certifications.

**TECHNICAL SPECIALTY COURSES**

WFT 100	Welding Theory .....	5
WFT 105	Print Reading and Welding Symbols.....	5
WFT 120	Intro to Welding Oxyacetylene/Shielded Metal Arc .....	6
WFT 121	SMAW Shielded Metal Arc Welding.....	6
WFT 125	FCAW Flux Core Arc Welding.....	6
WFT 144	Shipyard Intensive Welding.....	6

**RELATED INSTRUCTION**

MATH 110	Applied Math for Technicians .....	3
<b>TOTAL PROGRAM CREDITS</b>		<b>37</b>

**MechaReady Short-Term Certificate**

**Apprenticeship Division**

**TECHNICAL SPECIALTY COURSES**

INT 126	Introduction to Mechatronics.....	8
MFGT 104	Introduction to Lasers and Optics .....	2
<b>TOTAL PROGRAM CREDITS</b>		<b>10</b>

All courses are taken concurrently.

**Multi-Occupation in Engineering and Technology Associate of Applied Science –Transfer Degree (A.A.S.-T)**

**Apprenticeship Division**

This program is composed of a combination of the technical skills obtained 1) in an apprenticeship on-the-job training (OJT) program of at least 6,000 clock hours and the completion of a minimum of 450 clock hours of apprenticeship related supplemental instruction (RSI) certified by the Joint Apprenticeship & Training Committee (JATC), under the jurisdiction of the Washington State Department of Labor and Industries and the Washington State Apprenticeship and Training Council (WASTC); or 2) through employment of at least 6,000 clock hours and the completion of a minimum of 450 clock hours of related instruction certified by an employer, recognized corporate education provider (e.g., NIMS), or the military.

This program prepares students both for employment and promotion in organizational settings as well as for entry into applied baccalaureate degree programs. This structure provides incumbent workers with the flexibility to grow their skills in their current field, while increasing their earnings potential and preparing them for baccalaureate-level work if desired. Industry analysis demonstrates continuing high demand in the Seattle metro area for STEM fields, occupations accessible to graduates of the Multi-Occupation in Engineering and Technology program.

**TECHNICAL SPECIALTY COURSES**

On-the-Job Training credits .....	20
20 career and technical credit block validated by records evaluator using certified letter from apprenticeship program (Completion of at least 6,000 hours of on-the-job (OJT) training certified by a JATC, employer, recognized corporate education provider (e.g., NIMS), or the military.)	
Related Supplemental Instruction .....	45
45 career and technical credit block validated by records evaluator using certified letter from apprenticeship program (Completion of at least 450 hours of related training (RSI) certified by a JATC, employer, recognized corporate education provider (e.g., NIMS), or the military)	

**GENERAL EDUCATION COURSES**

BUS 235	Oral Communications in Business	5
	Following can be substituted:	
	CMST& 220 – Public Speaking (5)	
ENGL& 101	English Composition I	5
MATH& 107	Math in Society	5
PSYC& 100	General Psychology	5
	Following can be substituted:	
	SOC& 101 – Intro to Sociology (5)	
Natural World, the		5
<b>TOTAL PROGRAM CREDITS</b>		<b>90</b>

**Multi-Occupation Trades Associate of Applied Science Degree (A.A.S.)**

**Apprenticeship Division**

This program is composed of a combination of the technical skills obtained 1) in a registered apprenticeship on-the-job training (OJT) program of at least 6,000 clock hours and the completion of a minimum of 450 clock hours of registered apprenticeship related supplemental instruction (RSI) certified by a Joint Apprenticeship & Training Committee (JATC), under the jurisdiction of the Washington State Department of Labor and Industries and the Washington State Apprenticeship and Training Council (WASTC); or under the jurisdiction of a State Approving Agency (SAA) or the US Department of Labor. The OJT and RSI hours must be certified by the program through a letter to the credential evaluator.

This program prepares students both for employment and promotion in STEM fields as well as for entry into applied baccalaureate degree programs. This structure provides incumbent workers with the flexibility to grow their skills in their current field, while increasing their earnings potential and preparing them for baccalaureate-level work if desired. Industry analysis demonstrates continuing high demand in the Seattle metro area for STEM fields, occupations accessible to graduates of the Multi-Occupational Trades program.

**TECHNICAL SPECIALTY COURSES**

On-the-Job Training credits	25
25 career and technical credit block validated by records evaluator using certified letter from his/her apprenticeship program (Completion of at least 6,000 hours of on-the-job (OJT) training certified by a JATC)	
Related Supplemental Instruction	45
45 career and technical credit block validated by records evaluator using certified letter from his/her apprenticeship program (Completion of at least 450 hours of related training (RSI) certified by a JATC)	

**GENERAL EDUCATION COURSES**

ENGL 107	Applied Composition	5
	Following can be substituted:	
	Any transferrable composition course. See Advising for list of approved courses.	
MATH 110	Applied Math for Technicians	3
	Following can be substituted:	
	BUS 116 – Business Math/Spreadsheets (5) or any higher level MATH course	
SOC 253	Organizational Behavior	5
	Following can be substituted:	
	Any transferrable psychology or sociology course. See Advising for list of approved courses.	
<b>TOTAL PROGRAM CREDITS</b>		<b>83-85</b>

**Multi-Occupation Trades Associate of Applied Science –Transfer Degree (A.A.S.-T)**

**Apprenticeship Division**

This program is composed of a combination of the technical skills obtained 1) in a registered apprenticeship on-the-job training (OJT) program of at least 6,000 clock hours and the completion of a minimum of 450 clock hours of registered apprenticeship related supplemental instruction (RSI) certified by a Joint Apprenticeship & Training Committee (JATC), under the jurisdiction of the Washington State Department of Labor and Industries and the Washington State Apprenticeship and Training Council (WASTC); or under the jurisdiction of a State Approving Agency (SAA) or the US Department of Labor. The OJT and RSI hours must be certified by the program through a letter to the credential evaluator.

This program prepares students both for employment and promotion in STEM fields as well as for entry into applied baccalaureate degree programs. This structure provides incumbent workers with the flexibility to grow their skills in their current field, while increasing their earnings potential and preparing them for baccalaureate-level work if desired. Industry analysis demonstrates continuing high demand in the Seattle metro area for STEM fields, occupations accessible to graduates of the Multi-Occupational Trades program.

**TECHNICAL SPECIALTY COURSES**

On-the-Job Training credits	25
25 career and technical credit block validated by records evaluator using certified letter from his/her apprenticeship program (Completion of at least 6,000 hours of on-the-job (OJT) training certified by a JATC)	
Related Supplemental Instruction	45
45 career and technical credit block validated by records evaluator using certified letter from his/her apprenticeship program (Completion of at least 450 hours of related training (RSI) certified by a JATC)	

**GENERAL EDUCATION COURSES**

CMST& 101	Introduction to Communication .....	5
	Following can be substituted:	
	CMST& 220 – Public Speaking (5)	
ENGL& 101	English Composition I .....	5
MATH& 107	Math in Society .....	5
PSYC& 100	General Psychology .....	5
	Following can be substituted:	
	SOC& 101 – Intro to Sociology (5)	
TOTAL PROGRAM CREDITS		90

**NATEF Master 2-Year Certificate****Automotive Technology Training Center**

The automotive technology program qualifies students for employment in auto maintenance and related fields. Career opportunities include advancement to auto shop supervisor, service department head, auto service advisor, sales representative, and shop owner.

Students completing this program are qualified for entry-level work in the automotive industry.

**PREREQUISITES**

NATEF General Service Technician (GST) Certificate or instructor permission.

Completion of the NATEF Minor Certification is required to earn the Master Certification, but the Minor and Master courses may be taken out of sequence.

**TECHNICAL SPECIALTY COURSES**

AUT 100	Introduction to Electricity .....	6
AUT 102	Advanced Electrical Systems .....	4
AUT 104	Automotive Electronics .....	3
AUT 106	Basic Power Accessories .....	3
AUT 112	Manual Transaxles and Clutches .....	3
AUT 114	Manual Transmissions, Transfer Cases & Drive Axl .....	3
AUT 116	Air Conditioning and Heating .....	6
AUT 118	Automatic Transmission Diagnosis and Service .....	4
AUT 120	Advanced Automatic Transmission Service ....	6
AUT 122	Steering and Suspension .....	4
AUT 124	Tires and Wheel Alignment .....	4
AUT 126	Basic Brake Systems .....	3
AUT 127	Advanced Brake Systems .....	4
AUT 128	Automotive Engine Diagnose/Remove and Replace .....	4
AUT 130	Automotive Engine Rebuild .....	8
AUT 134	Introduction to Engine Performance .....	3
AUT 138	Advanced Drivability and Fuel Systems .....	4
AUT 140	Engine Computers .....	4
AUT 142	Emission Controls and Diagnostic Test Equipment .....	6
MVM 100	Introduction to Automotive Technology I .....	3
MVM 102	Introduction to Automotive Technology II .....	6

**RELATED INSTRUCTION**

ENGL 105	Applied Composition .....	3
MATH 110	Applied Math for Technicians .....	3
PSYC 240	Psychology of Human Relations .....	3
TOTAL PROGRAM CREDITS		102

**Trades Rotation Program  
Short-Term Certificate**

Trades Rotation Program is a short-term pre-apprenticeship certificate program that will provide skills and knowledge in basic construction.

**TECHNICAL SPECIALTY COURSES**

WTL 100	Construction Trades Preparation .....	18
TOTAL PROGRAM CREDITS		18

**Welding Fabrication Technology  
Associate of Applied Science  
Degree (A.A.S.)****Technical Education**

The Welding Fabrication Technology Associate of Applied Science (AAS) program provides training in all aspects of welding and fabrication operations, including blueprint reading, planning operation sequence, applying geometry, heat effects and metal properties, layout, positioning, fitting, welding and material handling.

Graduates are prepared for positions such as welders, fabricators, shop supervisors, estimators and shop owners in boatbuilding, automotive, machine fabrication, commercial fishing gear, piping systems, and building construction and maintenance. This program prepares students to pass welder certification tests through the Washington Association of Building Officials (WABO).

**PROGRAM PREREQUISITE**

Students must meet with an advisor for entry into this program. A placement test is required to ensure language and computational skills are sufficient for program success.

**TECHNICAL SPECIALTY COURSES**

HDM 171	Lift Truck Operator .....	2
WFT 100	Welding Theory .....	5
WFT 105	Print Reading and Welding Symbols .....	5
WFT 111	Materials and Testing .....	5
WFT 120	Intro to Welding Oxyacetylene/Shielded Metal Arc .....	6
WFT 121	SMAW Shielded Metal Arc Welding .....	6
WFT 124	Gas Metal Arc Welding .....	6
WFT 125	FCAW Flux Core Arc Welding .....	6
WFT 127	Gas Tungsten Arc Welding .....	6
WFT 128	Fabrication Carbon Arc/Plasma Arc Cutting ....	6



**TECHNICAL SPECIALTY ELECTIVES**

Select four (4) courses from those listed below:

WFT	220	Pipe Shielded Metal Arc (SMAW) . . . . .	6
WFT	227	Advanced Fabrication I . . . . .	6
WFT	228	Pipe Gas Tungsten Arc Welding (GTAW). . . . .	6
WFT	238	Advanced Fabrication II. . . . .	6
WFT	241	Wabo Test PREP SMAW Plate . . . . .	6
WFT	242	Wabo Test PREP GMAW Plate. . . . .	6
WFT	243	Wabo Test PREP FCAW Plate. . . . .	6
WFT	244	Wabo Test PREP GTAW Plate. . . . .	6
WFT	245	Wabo Test PREP SMAW Pipe. . . . .	6
WFT	246	Wabo Test PREP GTAW Pipe . . . . .	6

**RELATED INSTRUCTION**

ENGL	107	Applied Composition. . . . .	5
MATH	110	Applied Math for Technicians . . . . .	3
		Following can be substituted: Higher level MATH class (5)	
PSYC	240	Psychology of Human Relations. . . . .	3
		Following can be substituted:	
		PSYC& 100 – General Psychology (5)	
TDR	131	Introduction to CAD 2-D. . . . .	4
<b>TOTAL PROGRAM CREDITS</b>			<b>92-96</b>

## Welding Fabrication Technology Associate of Applied Science – Transfer Degree (A.A.S.-T)

**Technical Education**

The Welding Fabrication Technology Associate of Applied Science Transfer (AAS-T) program provides training in all aspects of welding and fabrication operations, including blueprint reading, planning operation sequence, applying geometry, heat effects and metal properties, layout, positioning, fitting, welding and material handling.

Graduates are prepared for positions such as welders, fabricators, shop supervisors, estimators and shop owners in boatbuilding, automotive, machine fabrication, commercial fishing gear, piping systems, and building construction and maintenance. This program prepares students to pass welder certification tests through the Washington Association of Building Officials (WABO).

This degree is designed for students to learn technical skills for employment, but who may also want to transfer to a Bachelor of Applied Science (BAS) degree program or a four-year institution.

**PROGRAM PREREQUISITE**

Students must meet with an advisor for entry into this program. A placement test is required to ensure language and computational skills are sufficient for program success.

**TECHNICAL SPECIALTY COURSES**

HDM	171	Lift Truck Operator . . . . .	2
WFT	100	Welding Theory . . . . .	5
WFT	105	Print Reading and Welding Symbols. . . . .	5
WFT	111	Materials and Testing . . . . .	5
WFT	120	Intro to Welding Oxyacetylene/Shielded Metal Arc . . . . .	6
WFT	121	SMAW Shielded Metal Arc Welding. . . . .	6
WFT	124	Gas Metal Arc Welding. . . . .	6
WFT	125	FCAW Flux Core Arc Welding . . . . .	6
WFT	127	Gas Tungsten Arc Welding . . . . .	6
WFT	128	Fabrication Carbon Arc/Plasma Arc Cutting. . . . .	6

**TECHNICAL SPECIALTY ELECTIVES**

WFT	220	Pipe Shielded Metal Arc (SMAW) . . . . .	6
WFT	227	Advanced Fabrication I . . . . .	6
WFT	228	Pipe Gas Tungsten Arc Welding (GTAW). . . . .	6
WFT	238	Advanced Fabrication II. . . . .	6
WFT	241	Wabo Test PREP SMAW Plate . . . . .	6
WFT	242	Wabo Test PREP GMAW Plate. . . . .	6
WFT	243	Wabo Test PREP FCAW Plate. . . . .	6
WFT	244	Wabo Test PREP GTAW Plate. . . . .	6
WFT	245	Wabo Test PREP SMAW Pipe. . . . .	6
WFT	246	Wabo Test PREP GTAW Pipe . . . . .	6

**RELATED INSTRUCTION**

ENGL&	101	English Composition I . . . . .	5
MATH&	107	Math in Society. . . . .	5
PSYC&	100	General Psychology . . . . .	5
TDR	131	Introduction to CAD 2-D. . . . .	4
		Visual, Literary, and Performing Arts . . . . .	5
<b>TOTAL PROGRAM CREDITS</b>			<b>101</b>

## Welding Fabrication Technology Certificate

**Technical Education**

The Welding Fabrication Technology Certificate program provides training in all aspects of welding and fabrication operations, including blueprint reading, planning operation sequence, applying geometry, heat effects and metal properties, layout, positioning, fitting, welding and material handling.

Graduates are prepared for positions such as welders, fabricators, shop supervisors, estimators and shop owners in boatbuilding, automotive, machine fabrication, commercial fishing gear, piping systems, and building construction and maintenance. This program prepares students to pass welder certification tests through the Washington Association of Building Officials (WABO).

**PROGRAM PREREQUISITE**

Students must meet with an advisor for entry into this program. A placement test is required to ensure language and computational skills are sufficient for program success.

**TECHNICAL SPECIALTY COURSES**

HDM	171	Lift Truck Operator .....	2
WFT	100	Welding Theory .....	5
WFT	105	Print Reading and Welding Symbols.....	5
WFT	111	Materials and Testing .....	5
WFT	120	Intro to Welding Oxyacetylene/Shielded Metal Arc .....	6
WFT	121	SMAW Shielded Metal Arc Welding.....	6
WFT	124	Gas Metal Arc Welding.....	6
WFT	125	FCAW Flux Core Arc Welding .....	6
WFT	127	Gas Tungsten Arc Welding .....	6
WFT	128	Fabrication Carbon Arc/Plasma Arc Cutting....	6

**RELATED INSTRUCTION**

ENGL&	101	English Composition I .....	5
Following can be substituted:			
ENGL 107 – Applied Composition (5)			
MATH	110	Applied Math for Technicians .....	3
PSYC	240	Psychology of Human Relations.....	3
Following can be substituted:			
PSYC& 100 – General Psychology (5)			

TOTAL PROGRAM CREDITS 64-66

**Welding for Shipyard Careers – General Welding Certificate Level II Short-Term Certificate**

**Georgetown Campus**

The training course provides opportunities leading to direct employment at several of the largest marine companies in the state of Washington. The certificate will provide the student with the necessary skills to be qualified to the American Society Mechanical Engineers (ASME) Section IX structural steel welding code for production steel FCAW Flux Cored Arc Welding applications.

**TECHNICAL SPECIALTY COURSES**

MATH	110	Applied Math for Technicians .....	3
WFT	105	Print Reading and Welding Symbols.....	5
WFT	125	FCAW Flux Core Arc Welding .....	6
WFT	144	Shipyard Intensive Welding .....	6

TOTAL PROGRAM CREDITS 19

**YouthBuild Construction and Leadership Advanced Short-Term Certificate**

**TECHNICAL SPECIALTY COURSES**

Note: All courses taken concurrently

HDC	171	Forklift.....	2
INT	109	Flagging and Traffic Control.....	1
MATH	298	Special Topics in Math .....	1
YBLD	102	Intro to Construction Trades – Advanced .....	9
YBLD	103	Professional Leadership Skills for the Trades ...	6

TOTAL PROGRAM CREDITS 19

**YouthBuild Construction and Leadership Basic Short-Term Certificate**

**TECHNICAL SPECIALTY COURSES**

Note: All courses taken concurrently

IFS	105	Ind 1st Aid/CPR-AED Bloodborne Pathogens ..	1
INT	108	Intro to Blueprint Reading for Construction....	3
INT	160	Introduction to Safety and Health OSHA 10....	1
MATH	110	Applied Math for Technicians .....	3
WET	100	Employment and Education Preparation .....	1
YBLD	100	Introduction to Construction Trades.....	9

TOTAL PROGRAM CREDITS 18

“ I will always remember how helpful all of my instructors were and how much they cared about my education. ”  
– Terisa S.



## SOCIAL SCIENCES, HUMANITIES, AND LANGUAGE

### Communication Studies (A.A.–DTA)

This two-year program is designed for students who wish to complete an Associate of Arts – Direct Transfer Agreement (AA-DTA) degree with an emphasis in Communication Studies. Students in this program develop skills in verbal communication, analysis and research, multicultural awareness, computer and technical literacy, audience analysis, group communication and collaboration, interpersonal communication, leadership and facilitation.

Completion of this program allows students to transfer at the junior level into a Communication Studies, Media & Communications, Journalism, or a related program at a four-year college or university. It also opens doors to a variety of careers in sectors including non-profit, business, government, entertainment, and education.

### English, Literature, and Writing Studies (A.A.–DTA)

This two-year program is designed for students who wish to complete an Associate of Arts – Direct Transfer Agreement (AA-DTA) degree with an emphasis in English. Students in this program will develop skills in written communication, information literacy, analysis and research, multicultural awareness, metacognition/critical self-reflection, problem-solving, audience awareness, group communication and collaboration, and interpersonal communication.

Completion of this program allows students to transfer at the junior level into an English, Media & Communications, Journalism or a related field at a four-year college or university. It also opens doors to a variety of careers in sectors including education, media/entertainment, publishing, law, government, non-profit, and business.

### History (A.A.–DTA)

This two-year program is designed for students who wish to complete an Associate of Arts direct transfer (AA-DTA) degree with an emphasis in History. Students in the program learn how to think historically, hone their written and verbal communication skills, acquire research methods and analytical tools, develop information literacy, and better comprehend how events in the past influence our present.

Completion of this degree allows students to transfer at the junior level into several fields of study at a four-year college or university, including History, American Ethnic Studies, LGBTQIA+/Queer Studies, Archeology, Anthropology and more. Completion of this program also opens doors to a variety of careers in museums, government, research, park service, political activism, nonprofits, policy, and education.

### Humanities and Cultural Studies (A.A.)

This two-year program is designed for students who wish to complete an Associate of Arts (AA) degree with an emphasis in humanities & cultural studies. Students pursuing this degree combine the study of language, film and media studies, popular culture, literatures, multicultural and diversity studies, and philosophy. Students will analyze issues such as race, gender, and class in relation to popular culture, global movements, and social justice, and gain the ability to reason critically, research and communicate effectively.

Completion of this degree allows students to transfer at the junior level into several fields of study such as comparative literature, cinema, communications, film studies, comparative history of ideas, English, women/gender/sexuality studies or a related field at a four-year college or university.

### Political Science (A.A.)

This two-year program is designed for students who wish to complete an Associate of Arts (AA) degree with an emphasis in Political Science. Students in this pathway develop skills in critical analysis, research, multicultural awareness, communication, information literacy, audience analysis, networking, and leadership. Students will build foundational knowledge of political institutions, policy, American systems, globalization, and political theory.

Completion of this degree allows students to transfer at the junior level to a Political Science, Economics, Media & Communications, or a related program at a four-year college or university with core Political Science classes completed. Completion of this degree also opens doors to a variety of careers in fields including public service, government, interest groups, sustainability, businesses, social media, and education.

### Psychology (A.A.–DTA)

This two-year program is designed for students who wish to complete an Associate of Arts-Direct Transfer Agreement (AA-DTA) degree with an emphasis in Psychology. Students in this program develop an awareness of human behavior and thinking that will serve them in both personal and professional capacities. Students will also develop skill in critical thinking, research, interpersonal awareness, group communication and collaboration, problem solving, information-finding, and time management.

Completion of this degree allows students to transfer at the junior level to a Psychology program at a four-year college or university, as well as opening doors to entry level employment in many sectors including non-profit, social work, healthcare, education, business, and government.

# Combined Campus Course Descriptions

SEATTLECOLLEGES

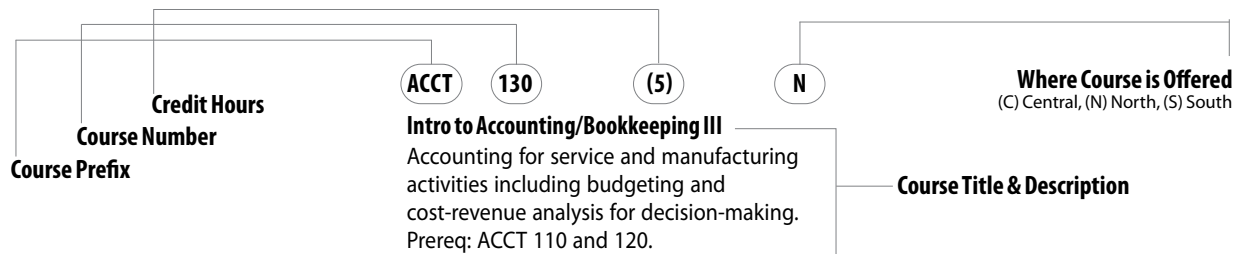
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Course Descriptions



Brief descriptions of courses offered at the Seattle Colleges are listed here. Guides on pages 231-232 contain prefix/course and course/prefix lists to assist you in locating courses associated with a particular program. Courses are updated on an ongoing basis, and the most current course information is available at [seattlecolleges.edu](http://seattlecolleges.edu).

## How to Read Course Descriptions



## Common Course Numbering (&)

All Washington community colleges, including the Seattle Colleges, are using a Common Course Numbering (CCN) System. The system identifies courses that are equivalent at community colleges across the state to make it easier for students to transfer between two-year colleges.

Courses identified with an ampersand (&) are part of the CCN system (examples: ACCT& or HIST&). However, courses without an “&” will continue to transfer between two-year and four-year colleges under individual Direct Transfer Agreements (DTA), as in the past.

# Course/Prefix Index

## Prefix to Course

*NOTE: Prefixes are revised to fit the statewide Common Course Numbering (CCN) system implemented in Summer 2008.*

<b>ABE</b>	<b>Adult Basic Education</b>
<b>ABS</b>	<b>Applied Behavioral Science B.A.S.</b>
<b>ACCT</b>	<b>Accounting</b>
<b>AD</b>	<b>Application Development B.A.S.</b>
<b>AHE</b>	<b>Allied Health/Dental Hygiene</b>
<b>AIA</b>	<b>Accounting Information Systems</b>
<b>AMA</b>	<b>Medical Assisting</b>
<b>AME</b>	<b>American Ethnic Studies</b>
<b>AMT</b>	<b>Aviation Maintenance Technology</b>
<b>ANTH</b>	<b>Anthropology</b>
<b>APPRL</b>	<b>Apparel Design &amp; Development</b>
<b>ARAB</b>	<b>Arabic</b>
<b>ART</b>	<b>Art</b>
<b>ASL</b>	<b>American Sign Language</b>
<b>ASTR</b>	<b>Astronomy</b>
<b>AUT</b>	<b>Automotive Technology</b>
<hr/>	
<b>BAK</b>	<b>Specialty Desserts &amp; Breads</b>
<b>BIOL</b>	<b>Biology</b>
<b>BOT</b>	<b>Botany</b>
<b>BTM</b>	<b>Business Technology Management</b>
<b>BTS</b>	<b>Basic &amp; Transitional Studies</b>
<b>BUS</b>	<b>Business</b>
<hr/>	
<b>CCE</b>	<b>Early Childhood Education</b>
<b>CDS</b>	<b>Chemical Dependency – see Social &amp; Human Services</b>
<b>CHEM</b>	<b>Chemistry</b>
<b>CHIN</b>	<b>Chinese</b>
<b>CIS</b>	<b>Computer Information Systems</b>
<b>CMA</b>	<b>Certified Medical Assistant</b>
<b>CMS</b>	<b>Community Service</b>
<b>CMST</b>	<b>Communication</b>
<b>CSC</b>	<b>Computer Science</b>
<b>CUL</b>	<b>Culinary Arts</b>
<b>CWE</b>	<b>Cooperative Education/Work Experience</b>
<hr/>	
<b>DAST</b>	<b>Dental Assisting</b>
<b>DES</b>	<b>Graphic Design</b>
<b>DHY</b>	<b>Dental Hygiene B.A.S.</b>
<b>DRMA</b>	<b>Drama</b>
<hr/>	
<b>ECE</b>	<b>Early Childhood &amp; Family Studies B.A.S.</b>
<b>ECED</b>	<b>Early Childhood Education</b>
<b>EDUC</b>	<b>Education</b>
<b>EET</b>	<b>Electronics Technology</b>

<b>EFDA</b>	<b>Expanded Function Dental Auxiliary</b>
<b>ENGL</b>	<b>English</b>
<b>ENGR</b>	<b>Engineering</b>
<b>ENV</b>	<b>Environmental Sciences</b>
<b>ENVS</b>	<b>Environmental Sciences</b>
<b>ESL</b>	<b>English as a Second Language</b>
<hr/>	
<b>FAM</b>	<b>Parent Education/ Senior Adult Education</b>
<b>FIRE</b>	<b>Fire Science</b>
<b>FSD</b>	<b>Restaurant Production – see Culinary Arts</b>
<hr/>	
<b>GED</b>	<b>General Education Development</b>
<b>GEOG</b>	<b>Geography</b>
<b>GEOL</b>	<b>Geology</b>
<hr/>	
<b>HDC</b>	<b>Human Development</b>
<b>HDM</b>	<b>Diesel &amp; Heavy Equipment Technology</b>
<b>HEA</b>	<b>Health</b>
<b>HIN</b>	<b>Watch Technology</b>
<b>HIST</b>	<b>History</b>
<b>HMG</b>	<b>Hospitality Management B.A.S.</b>
<b>HOS</b>	<b>Hospitality</b>
<b>HSC</b>	<b>High School Completion – Adult Basic Education</b>
<b>HSM</b>	<b>Healthcare Services Management B.A.S.</b>
<b>HUM</b>	<b>Humanities</b>
<hr/>	
<b>IBN</b>	<b>International Business B.A.S.</b>
<b>IFS</b>	<b>Industrial First Aid</b>
<b>INFO</b>	<b>Library Research</b>
<b>INTS</b>	<b>Integrated Studies</b>
<b>ISC, ISD, ISP</b>	<b>International &amp; Intercultural Studies</b>
<b>IT</b>	<b>Information Technology</b>
<hr/>	
<b>LAN</b>	<b>Linguistics</b>
<b>LCS</b>	<b>Learning Center Seattle</b>
<b>LHO</b>	<b>Landscape Horticulture</b>
<b>LIT</b>	<b>Literature</b>
<b>LST</b>	<b>Life Skills to Work</b>
<hr/>	
<b>MATH</b>	<b>Mathematics</b>
<b>MEY</b>	<b>Meteorology</b>
<b>MGO</b>	<b>Marine Technology</b>
<b>MOET</b>	<b>Multi-Occupation in Engineering and Technology</b>
<b>MTS</b>	<b>Marine Technology</b>
<b>MUSC</b>	<b>Music</b>

<b>NME</b>	<b>New Media</b>
<b>NTI</b>	<b>Network Infrastructure</b>
<b>NUR</b>	<b>Nursing</b>
<b>NURS</b>	<b>Nursing</b>
<b>NUTR</b>	<b>Nutrition</b>
<hr/>	
<b>OCEA</b>	<b>Oceanography</b>
<hr/>	
<b>PEC</b>	<b>Physical Education</b>
<b>PHA</b>	<b>Pharmacy Technician</b>
<b>PHIL</b>	<b>Philosophy</b>
<b>PHYS</b>	<b>Physics</b>
<b>POLS</b>	<b>Political Science</b>
<b>PSYC</b>	<b>Psychology</b>
<b>PTE</b>	<b>Professional Technical Teacher Education B.A.S.</b>
<hr/>	
<b>RCP</b>	<b>Respiratory Care Bachelor of Applied Science</b>
<b>RCPM</b>	<b>Residential/Commercial Property Management Bachelor of Applied Science</b>
<b>RES</b>	<b>Real Estate</b>
<hr/>	
<b>SBST</b>	<b>Sustainable Building Science Technology B.A.S.</b>
<b>SCI</b>	<b>Science</b>
<b>SHS</b>	<b>Social &amp; Human Services</b>
<b>SLN</b>	<b>Service Learning</b>
<b>SMG</b>	<b>Supervision &amp; Management</b>
<b>SOC</b>	<b>Sociology</b>
<b>SPAN</b>	<b>Spanish</b>
<b>SSC</b>	<b>Social Sciences</b>
<b>STEM</b>	<b>Science, Technology, Engineering &amp; Math</b>
<b>SURG</b>	<b>Surgical Technology</b>
<hr/>	
<b>TDR</b>	<b>Drafting: Architectural Engineering Drafting &amp; Engineering Graphics &amp; Design Technology</b>
<hr/>	
<b>UGR</b>	<b>Undergraduate Research</b>
<hr/>	
<b>VME</b>	<b>Visual Media</b>
<hr/>	
<b>WCO</b>	<b>Wood Construction</b>
<b>WFT</b>	<b>Welding Fabrication Technology</b>
<b>WIN</b>	<b>Wine Industry Training</b>
<b>WMN</b>	<b>Gender &amp; Women's Studies</b>
<b>WTC</b>	<b>Wood Technology Center</b>

## Course to Prefix

Accounting	ACCT
Accounting Information Systems	AIA
Adult Basic Education	ABE
Allied Health/Dental Hygiene	AHE
American Ethnic Studies	AME
American Sign Language	ASL
Anthropology	ANTH
Apparel Design & Development	APPRL
Application Development B.A.S.	AD
Applied Behavioral Science B.A.S.	ABS
Arabic	ARAB
Art	ART
Astronomy	ASTR
Automotive Technology	AUT
Aviation Maintenance Technology	AMT
<hr/>	
Basic & Transitional Studies	BTS
Biology	BIOL
Botany	BOT
Business	BUS
Business Technology Management	BTM
<hr/>	
Certified Medical Assistant	CMA
Chemical Dependency – see Social & Human Services	CDS
Chemistry	CHEM
Chinese	CHIN
Communication	CMST
Community Service	CMS
Computer Information Systems	CIS
Computer Science	CSC
Cooperative Education/Work Experience	CWE
Culinary Arts	CUL
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Dental Assisting	DAST
Dental Hygiene B.A.S.	DHY
Diesel & Heavy Equipment Technology	HDM
<hr/>	
Drafting: Architectural Engineering Drafting & Engineering Graphics & Design Technology	TDR
Drama	DRMA
<hr/>	
Early Childhood & Family Studies B.A.S.	ECE
Early Childhood Education	CCE, ECED
Education	EDUC
Electronics Technology	EET
Engineering	ENGR
English	ENGL

English as a Second Language	ESL
Environmental Sciences	ENV, ENVS
Expanded Function Dental Auxiliary	EFDA
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Fire Science	FIRE
<hr/>	
Gender & Women's Studies	WMN
General Education Development	GED
Geography	GEOG
Geology	GEOL
Graphic Design	DES
<hr/>	
Health	HEA
Healthcare Services Management B.A.S.	HSM
High School Completion – Adult Basic Education	HSC
History	HIST
Hospitality	HOS
Hospitality Management B.A.S.	HMG
Human Development	HDC
Humanities	HUM
<hr/>	
Industrial First Aid	IFS
Information Technology	IT
Integrated Studies	INTS
International & Intercultural Studies	ISC, ISD, ISP
International Business B.A.S.	IBN
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Landscape Horticulture	LHO
Learning Center Seattle	LCS
Library Research	INFO
Life Skills to Work	LST
Linguistics	LAN
Literature	LIT
<hr/>	
Marine Technology	MGO, MTS
Mathematics	MATH
Medical Assisting	AMA
Meteorology	MEY
Multi-Occupation in Engineering and Technology	MOET
Music	MUSC
<hr/>	
Network Infrastructure	NTI
New Media	NME
Nursing	NUR, NURS
Nutrition	NUTR

Oceanography	OCEA
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Parent Education/Senior Adult Education	FAM
Pharmacy Technician	PHA
Philosophy	PHIL
Physical Education	PEC
Physics	PHYS
Political Science	POLS
Professional Technical Teacher Education B.A.S.	PTE
Psychology	PSYC
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Real Estate	RES
Residential/Commercial Property Management Bachelor of Applied Science	RCPM
Respiratory Care Bachelor of Applied Science	RCP
Restaurant Production – see Culinary Arts	FSD
<hr/>	
Science	SCI
Science, Technology, Engineering & Math	STEM
Service Learning	SLN
Social & Human Services	SHS
Social Sciences	SSC
Sociology	SOC
Spanish	SPAN
Specialty Desserts & Breads	BAK
Supervision & Management	SMG
Surgical Technology	SURG
Sustainable Building Science Technology B.A.S.	SBST
<hr/>	
Undergraduate Research	UGR
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Visual Media	VME
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Watch Technology	HIN
Welding Fabrication Technology	WFT
Wine Industry Training	WIN
Women's Studies	WMN
Wood Construction	WCO
Wood Technology Center	WTC

**FINDING COURSES**

Course names and course prefixes are cross-referenced in an index beginning on page 227. For example:

**PREFIX TO COURSE**

HIN . . . . . Watch Technology

**COURSE TO PREFIX**

Watch Technology . . . . . HIN

Common Course Numbering explanation is on page 226.

**Accounting****ACCT& 201 (5) C|N|S  
Principles of Accounting I**

Defines basic accounting concepts, principles and procedures for recording business transactions and developing financial accounting reports.

**ACCT& 202 (5) C|N|S  
Principles of Accounting II**

Examines application of basic accounting concepts, principles and procedures to more complex business situations in a corporate setting.

**ACCT& 203 (5) C|N|S  
Principles of Accounting III**

Analysis of accounting data as part of the managerial process of planning, decision-making and control. Concentrates on economic decision-making in enterprises.

**ACCT 110 (5) N  
Introduction to Accounting/Bookkeeping I**

This introductory class covers the development of the accounting cycle for a sole proprietorship, from business transactions through closing entries and financial statements. Includes service and merchandising types of businesses, special journals, banking services, and payroll.

**ACCT 120 (5) N  
Introduction to Accounting/Bookkeeping II**

Explores specialized accounting procedures for merchandising businesses and partnerships. Intro to accounting for corporations. Prereq: ACCT 110 with 2.0 or higher.

**ACCT 131 (5) N  
QuickBooks**

Hands-on use of QuickBooks Online to record business transactions, prepare customer invoices, pay vendors, and record payroll. QuickBooks organizes and summarizes all financial data and produces a myriad of reports. Course culminates with a certification exam through Intuit to become an Intuit QuickBooks Certified User. Prereq: ACCT& 201 or ACCT 110 or instructor permission.

**ACCT 252 (5) N  
Intermediate Accounting II**

Intermediate Accounting II is the second of two intermediate financial accounting courses which provide a comprehensive study of financial accounting theory and financial accounting reporting. The course will concentrate on the foundations of financial accounting and include an in-depth study of generally accepted accounting principles and concepts. PLEASE NOTE: This class is typically offered TWO times per year: Summer and Winter quarters (typical class offerings may change depending on student enrollment and other factors). Prereq: ACCT 202 or ACCT 251 or instructor permission.

**ACCT 255 (5) N  
Individual Income Tax**

Introduction to individual tax laws (as opposed to business tax laws). Includes preparation of individual income tax forms using text and/or web based sites or income tax software. PLEASE NOTE: This class is typically offered every quarter (typical class offerings may change depending on student enrollment and other factors).

**ACCT 256 (5) N  
Taxation of Corporations and Partnerships**

This course provides a comprehensive study of the taxation of corporations and partnerships. Basic tax research and the theory of taxation are also developed.. Prereq: ACCT& 202 and ACCT 255 or instructor permission.

**ACCT 257 (5) N  
Payroll Accounting**

Basic principles, practices, and governmental regulations (Federal, Washington State and local) involved in business tax accounting. Includes filing returns, record-keeping, tax planning, and business registrations and licenses. Prereq: ACCT 110 or ACCT&201

**ACCT 261 (5) N  
Accounting Information Systems**

This course examines accounting information systems as part of enterprise resource planning systems. It focuses on the activities performed in the major business cycles and the flow of accounting data and information in those systems, whether manual or computerized. Topics include systems analysis, systems design, and systems implementation, internal controls, fundamental database concepts, and flow-charting. Prereq: ACCT 110 or ACCT&201 or instructor permission.

**ACCT 265 (5) N  
Accounting for Not-For-Profit and Government Entities**

This course is an overview of accounting for not-for-profit and government entities. It covers basic accounting principles and procedures relating to not-for-profit and government organizations. It includes financial statement preparation and analysis. PLEASE NOTE: This class is typically offered TWO times per year: Summer and Winter quarters (typical class offerings may change depending on student enrollment and other factors). Prereq: ACCT&201 and ACCT&202 or permission.

**ACCT 267 (5) N  
Not for Profit Financial Management**

This course provides the fundamentals of financial management for those pursuing careers within the public, health, and not-for-profit fields. Students will learn the vocabulary, concepts, methods, and basic tools of financial management and financial analysis within the three major areas of the public sector. PLEASE NOTE: This class is typically offered THREE times per year: Fall, Winter and Spring quarters (typical class offerings may change depending on student enrollment and other factors).

**ACCT 270 (5) N  
Cost Accounting**

Theory of cost accounting, cost systems, sources of cost data and their accumulation, allocation, and analysis; managerial control through cost data. PLEASE NOTE: This class is typically offered TWO times per year: Summer and Winter quarters (typical class offerings may change depending on student enrollment and other factors). Prereq: ACCT& 203 or permission.

**ACCT 272 (5) N****Fraud Examination**

An introduction to the field of fraud examination. Provides an overview of the general fraud examination methodology and fraud theory approach and outlines the basics surrounding fraud examination including criminology related to fraud. Prereq: prior accounting course or instructor permission.

**ACCT 273 (5) N****Introduction to Financial Crimes**

Intro to major categories of financial crime and the legal procedures which are frequently relevant to fraud accounting work, including both criminal and civil procedures. Prereq: prior accounting course or instructor permission.

**ACCT 274 (5) N****Forensic Accounting**

Integrate accounting, auditing, and fraud investigative skills. Using case studies, analyze documents, evaluate internal controls, and trace funds to resolve accounting irregularities with an emphasis on fraudulent financial reporting. Includes indirect methods of reconstructing; income, litigation support, computing commercial and economic damages, and business valuation. Prereq: prior accounting course or instructor permission.

**ACCT 275 (5) N****Auditing**

This course is an introduction to auditing, covers such topics as generally accepted auditing standards (GAAS), the auditor's opinion, professional ethics, audit evidence, internal control, an audit procedures. Prereq: ACCT 252 or permission.

**ACCT 299 (1-5) N****Independent Study: Accounting**

Independent study of selected accounting topics. Prereq: Permission.

**ACCT 303 (5) C****Accounting for Healthcare Management**

An introductory course for students pursuing a Bachelor of Applied Science Degree in Healthcare Management—Healthcare Services Management track. Includes basic accounting principles and financial statement preparation, with application of accounting techniques to management issues using a spreadsheet program. Topics include the accounting cycle, financial statements, the cost of producing a product or service, cost behavior and breakeven analysis, budgeting, inventory, and payroll.

**Accounting with International Accounting****AIA 301 (5) N****Intermediate Accounting I**

Intermediate Accounting I is the first of a two-course series which provides a comprehensive study of financial accounting theory and reporting, including the conceptual framework of financial accounting. Topics include: Generally Accepted Accounting Principles, an in-depth examination of assets, the elements and structures of financial statements, accounting research, and the uses of accounting for decision making. Prerequisite: Acceptance into AIA BAS Program or instructor permission.

**AIA 302 (5) N****Intermediate Accounting II**

Intermediate Accounting II is the second of a two-course series which provides a comprehensive study of financial accounting theory, reporting, and research. This course continues the in-depth study of the Conceptual Framework of financial accounting, Generally Accepted Accounting Principles (GAAP), International Financial Reporting Standards (IFRS), liabilities, equity, income taxes, pensions, leases, the Statement of Cash Flows, and financial reporting.

**AIA 310 (5) N****Accounting with International Accounting Ethics**

Within a global setting, students study ethical reasoning, behavioral ethics, and ethical conduct within an accounting practitioner's framework that guides their ethical obligations as they provide accurate legal financial reports that contribute to managerial decisions.

**AIA 401 (5) N****International Accounting**

The course provides an overview of issues faced by entities operating in a multi-national environment and their impact on accounting policies. We will focus on accounting issues such as foreign currency transactions, transfer pricing and reporting as a result of engaging in foreign operations. We will also review differences between US GAAP and IFRS as well as auditing in an international setting.

**AIA 402 (5) N****International Taxation**

Course examines our federal tax systems and rules as they apply to tax issues and decisions for corporations, partnerships, estates and special entities from conception to dissolution. The tax attributes of Corporations and pass-through entities like Partnerships, S Corporations and Limited Liability Companies are examined. The complexities of international taxation and their effect on business decisions is explored.

**AIA 410 (5) N****Cost Accounting**

Students use tools to define, calculate, and present accurate data to aid decision-making. Based on jobs, activities, and processes, students compute unit-cost data and present profit planning analyses. Students investigate flexible budgeting managerial tools and apply discounted-cash-flow concepts to the capital budgeting process.

**AIA 430 (5) N****Accounting Information Systems**

Accounting Information Systems (AIS) examines the governance of the AIS as part of the enterprise resource planning systems in a business. This course is focused on the various fraud and fraud prevention associated with AIS, how IT affects processes and controls, and the effects of recent regulatory developments by the international community on the design and operation of accounting systems.

**AIA 440 (5) N****Auditing**

AIA 440 examines and prepares students to understand and apply auditing theory, principles, concepts and practices used for public and non-public companies. Students gain an understanding for how auditing procedures vary among different accounting firms and how to render an opinion on the fairness of financial statements. Students will also analyze how international current events affect the ethical responsibilities of auditing professionals.

**Adult Basic Education****ABE 20 (1-15) N****Adult Basic Education Level 2**

Covers reading and writing. Review and apply language skills, correct usage and spelling.



**ABE 21 (1-15) C****Adult Basic Education Math Level 2**

Meets the needs of beginner level math students who want to improve their ability to solve math problems including addition, subtraction, multiplication, and division of whole numbers and measurements.

**ABE 22 (1-15) C****Adult Basic Education Communication Level 2**

Designed to meet the needs of beginning level communication students who want to improve their ability in reading and writing. Emphasizes basic grammar, sentence structure, group work, and understanding and recounting events and details in academic and professional texts and forms.

**ABE 30 (1-15) C|N****Adult Basic Education Level 3**

Concentrates on reading comprehension, making inferences, recognizing fact and opinion, vocabulary development and writing simple paragraphs.

**ABE 31 (1-15) C|S****Adult Basic Education Math Level 3**

Designed to meet the needs of low-intermediate level math students who want to improve their ability to solve math problems including whole numbers, fractions, decimals, measurements and data sets.

**ABE 32 (1-15) C|S****Adult Basic Education Communication Level 3**

Designed to meet the needs of low-intermediate level communication students who want to improve their ability in reading and writing by developing their reading comprehension and single paragraph writing. The course emphasizes basic grammar, punctuation, spelling, vocabulary development, understanding main ideas, and making inferences.

**ABE 34 (1-5) C****Computer Assisted Adult Basic Education Level 3**

More advanced computer-assisted practice in reading, writing and math. Learn from textbooks, fiction, policies and procedures manuals, and purchase agreements. Write résumés, reports and formal letters. Compute percentages, ratios, proportions, simple formulas and interpret graphs and charts.

**ABE 40 (1-15) C|N****Adult Basic Education Language Arts 1**

Emphasis on reading comprehension, making inferences, recognizing fact and opinion, vocabulary development, basic sentence patterns, paragraphs, punctuation, capitalization and correct word usage. Covers multi-paragraph essays.

**ABE 41 (1-15) C|S****Adult Basic Education Level 4 Math**

Adult Secondary Education Math Level 4 is designed to meet the needs of intermediate level math students who want to improve their ability to solve higher-level math problems including fractions, ratios and proportions, and percents and measurements.

**ABE 42 (1-15) C|S****Adult Basic Education Communication Level 4**

Designed to meet the needs of intermediate level communication students who want to improve their ability to read and write at the college level and professional level. Emphasizes vocabulary, grammar, organization, structure, and purpose in both writing multi-paragraph essays and reading texts.

**ABE 44 (1-15) C|S****Adult Basic Education Level 4 - Digital Literacy**

Computer-assisted practice in reading, writing, math and test-taking skills. Instructional activities will improve general reading, writing, math and test-taking skills. Take practice tests and work with instructor until ready to take the college division placement test and covers Microsoft Office applications.

**ABE 49 (1-15) C|N|S****Basic Skills Support for I-BEST/Professional/Tech Programs**

Provides specific support to assist students in completing (I-BEST) Professional Technical programs and building job-related language skills. Coreq: Enrollment in a Professional Technical program.

**ABE 50 (1-10) C|N****Language Arts II**

Emphasis on preparing for college-level English courses with a focus on academic reading, writing and critical thinking strategies and skills, including identifying main ideas, making inferences, recognizing fact and opinion, developing more nuanced vocabulary, analyzing sentence patterns, employing advanced mechanics and word usage, writing paragraphs, transitioning between paragraphs, and drafting multi-paragraph essays.

**ABE 51 (1-15) C|N****Geometry I**

An introductory geometry course that covers the study of angles, triangles, quadrilaterals, polygons, circles, Pythagoras' Theorem, and measurement, including perimeter, area, and volume. Students will study practical applications of how geometry is used in the real world.

**ABE 52 (1-15) C|N****Adult Secondary Education Communication Level 5**

Designed to advance students' communication skills in order to begin preparing for the college entrance exam. Emphasizes extended reading strategies and writing different styles of essays.

**ABE 54 (1-15) C****Computer Assisted ABE 5**

Use computers to improve basic skills of reading, writing and math. Prepare to take the College Placement Test and receive scores high enough to enter developmental education courses in English and math. Take practice tests and work with instructor until ready for the actual test.

**ABE 57 (5) N****Advanced Digital Literacy for ABE**

Advanced digital literacy/computer skills course for Adult Basic Education students in advanced word processing (Word), spreadsheet (Excel), database (Access), and presentation (PowerPoint) applications. Students will create a variety of common business documents and learn to edit and format. Students will also learn file management skills, including how to create and name directories, rename files, and delete, copy, and move files.

**ABE 60 (1-15) C****Adult Secondary Education Level 6**

Preparation to pass the college placement exam needed to enter a college program. Emphasizes effective essay writing, reading college text, solving higher-level multi-step math problems, and adapting to the college culture.

**ABE 61 (1-15) C|N****Adult Secondary Education Math Level 6**

Adult Secondary Education Math Level 6 is designed to meet the needs of high level math students who want to improve their ability to solve higher-level multi-step math problems.

**ABE 62 (1-15) C**  
**Adult Secondary Education Communication Level 6**

Preparation to pass the Communications portion of the college placement exam needed to enter a college program. Emphasizes effective essay writing, reading college text and adapting to the college culture.

**ABE 64 (15) C**  
**Adult Secondary Education Computer Assist Level 6**

Advanced computer-assisted skill-building in reading, writing, math and test-taking. Prepare for the COMPASS Test. Take practice tests and work with instructor until ready to take the actual test.

**ABE 70 (1-3) C|N|S**  
**Educational Interviewing for ABE/GED/HS+ Students**

This course serves as an orientation class for new ABE/GED/HS+ students. Students receive an orientation to ABE/GED/HS+ program and to the program's and the college's resources and services.

**ABE 80 (5) N**  
**English Skills Shop**

Support class for students enrolled in developmental English programs and students seeking to strengthen their academic writing skills. Individual and small group tutoring to improve listening, speaking, study skills, reading comprehension and rate; vocabulary, phonics and word skills, spelling, grammar, writing sentences, paragraphs, and essays. Strongly recommended for students enrolled in developmental English courses.

**ABE 81 (1-15) N**  
**Basic Math Skills**

This course covers whole and signed numbers, fractions, decimals, percent, ratio and proportion, units of measurement, and geometry.

**ABE 83 (1-5) S**  
**Strategic Learning in a Content Area**

Supports strategic learning in a college class. Develops students' study skills and strategies for college success including metacognitive strategies, previewing, skimming, and scanning of written materials, summarizing, paraphrasing, note-taking skills, and time management. Introduces information literacy and basic research skills. Instructor permission required.

**ABE 84 (1-15) N**  
**Algebra I**

This course covers basic operations with algebraic expressions; solving and graphing linear equations and inequalities; word problems; and systems of equations.

**ABE 85 (1-15) N**  
**Algebra II**

This class will focus on factoring polynomials; rules of exponents; solving quadratic equations; equations and graphs; roots and radicals; solving rational equations; and problem solving.

**ABE 98 (1-15) N**  
**Intermediate Algebra**

This course covers real number systems, polynomial and rational expressions, exponents and radicals, first and second degree equations, linear systems of equations and graph. It also serves as an introduction to functions and logarithms.

**Allied Health****AHE 107 (3) C**  
**Introduction to Healthcare Leadership**

Prepares learners for entry into health professions leadership, examines leadership practices for entry into health professions at any level. Covers basic tasks for health care leaders and managers for the successful operation of a healthcare business unit.

**AHE 111 (12) C**  
**Nursing Assistant Certified**

Covers instruction and hands-on experience in basic nursing care skills and supervised clinical training in a long-term care facility. Preparation for WA State Nursing Assistant Certified examination. Current Healthcare CPR, First Aid and HIV/AIDS are required prior to clinical, and are scheduled as separate courses.

**AHE 126 (1-3) C**  
**Essential Skills in Healthcare**

Learn core skills applicable to all health disciplines.

**AHE 128 (4) C**  
**Introduction to Healthcare Practice**

Covers elements of professionalism, ethical principles and basic assessment techniques for allied health practitioners in Washington state. Includes role of the healthcare practitioner, health history taking, vital signs assessment, patient management and infection control.

**AHE 129 (1) C**  
**Introduction to Healthcare Applied Practice**

Covers professionalism, ethical principles and basic assessment techniques, including patient health history, vital signs assessment, patient management, Infection control, and the role of the healthcare auxiliary.

**AHE 140 (10) C**  
**Central Supply/Instrument Technician**

For students interested in being a certified Central Supply/Instrument Technician. Addresses infection control, supplying and processing and distribution of supplies. Gain knowledge in safety, inventories, interpersonal skills, communication, interdisciplinary teams, professionalism and ethics.

**AHE 152 (1) C**  
**Health Care Provider CPR**

American Heart Association Certificate—Health Care Provider CPR is for those in or entering health care with patient contact. Covers skills competency for infant, child and adult CPR that might be needed in the professional health care setting. Certificate awarded on completion.

**AHE 168 (5) C**  
**Medical Terminology**

Introduction to the concept of word building with Greek and Latin word roots (prefixes and suffixes), resulting in the acquisition of a large medical vocabulary. Essential for clinical and administrative personnel in the health field.

**FINDING COURSES**

Course names and course prefixes are cross-referenced in an index beginning on page 227. For example:

**PREFIX TO COURSE**

HIN . . . . . Watch Technology

**COURSE TO PREFIX**

Watch Technology . . . . . HIN

Common Course Numbering explanation is on page 226.

**AHE 190 (12) N**  
**Emergency Medical Technician**

PREREQUISITE ENTRANCE EXAMINATION REQUIRED. There will be a written advanced first aid exam that must be taken by all applicants to the program, after attending a mandatory information session. Applicants must attend one session and do not need to sign up in advance for the information session. All applicants must pay the \$35 application fee and \$35 test proctor fee at the NSC Cashier's office and bring both forms with the cashier's paid stamp on them to the exam. See additional information, including dates for the exam, on EMT website at <https://northseattle.edu/programs/emergency-medical-technician>. Cost is \*\$1,305.53 (\$185.28 tuition + \$1,100 college self-support fee + \$15 medical malpractice professional liability insurance fee + \$5.25 online courseware support fee). Note: AHE 192 Basic Life Support for Healthcare Providers is a corequisite and must be taken before the program starts. See course AHE 192. For additional information contact the Workforce Instruction Division at (206) 934-3790. \*subject to change

**AHE 192 (1) N**  
**Basic Life Support for Healthcare Providers**

Corequisite class required for the EMT program; must take concurrently with AHE 190. This course uses the American Heart Association BLS curriculum that is the standard for healthcare agencies/personnel and meets the requirement for CPR certification that includes CPR for Adults, Children and Infants, AED and use of the Bag Valve Mask. Contact the Workforce Instruction Division at (206) 934-3790 for additional information. \*Cost is \$141.03 (\$15.78 tuition + \$120.00 college self-support fee + \$5.25 online courseware support fee). Note: must purchase textbook and pocket mask and bring to the first class. \*Subject to change.

**AHE 197 (1-5) C**  
**Work Experience-Allied Health**

Integrates educational studies with supervised work/internship experience. Provides individualized opportunities to apply allied health knowledge and skills in the workplace. Includes developing work experience learning outcomes and monitoring achievement through self-evaluation and faculty and supervisor evaluations.

**AHE 202 (1) C**  
**Respiratory Care Orientation**

Intro to the Respiratory Care Program. Covers curriculum, policy, clinical procedures, professional outlook and study and library skills.

**AHE 209 (2) C**  
**Introduction to Respiratory Care**

Explores the respiratory care profession. Focuses on historical development and the role of the respiratory care practitioner. Emphasis on professionalism, ethical thought, death and dying, and working in a multicultural environment.

**AHE 213 (2) C**  
**Respiratory Care Clinical Assessment**

This course is a study of the concepts and principles by which disease alters the normal function of the cardiopulmonary system. The main emphasis will be on cardiopulmonary assessment. Students will learn to analyze clinical data and synthesize patient case data into a formal assessment. Further emphasis will be placed on development of logic and reasoning for an advanced Respiratory Care Practitioner (RCP).

**AHE 215 (2) C**  
**Basic Pharmacology**

Basic Respiratory Care Pharmacology introduces the learner to foundational principles of the study of pharmacology. Learners will also begin their study of pharmacologic agents with medications used universally in Respiratory Care to treat primary respiratory disorders. This course is directed at adding to the learner's knowledge of respiratory care and the performance of the skills needed to safely deliver medications as adjuncts to the delivery of Respiratory Care.

**AHE 217 (5) C**  
**Cardiopulmonary Anatomy and Physiology**

This course is designed to provide an in-depth investigation into the structure and function of the respiratory and cardiovascular systems of the human body. The interdependence of the two systems will be emphasized and the physiology of respiration will be examined in detail. Also covers multiple body systems and their interplay with the respiratory system under normal and abnormal conditions.

**AHE 218 (4) C**  
**Basic Therapeutic Approaches**

This course is an introduction to the procedures used to assess and treat common respiratory diseases. Emphasis is on knowledge and skills necessary to safely and effectively apply patient assessment techniques; body mechanics, medical gas therapy, oxygen therapy devices, aerosol and humidity therapy, hyperinflation therapy, chest physiotherapy, and airway clearance techniques.

**AHE 219 (1) C**  
**Basic Therapeutic Approaches Equipment and Techn**

An introduction to the application of Respiratory Care therapeutics learned in RCP 218. In this class learners will apply theory acquired in RCP 218 using models, simulation and laboratory partners for practice. Focuses on assessment, documentation, communication, medical gas and aerosol therapy, airway clearance, and hyperinflation therapies.

**AHE 330 (5) C**  
**Information Literacy for Health Sciences**

Introduces the organization, retrieval, and evaluation of electronic and print information. Overview of college library systems, traditional scholarly resources, and the concepts underlying the research process. Emphasis on information literacy skills specific to the allied health sciences through examination and application of specialized resources.

**AHE 401 (5) C**  
**Principles of Research**

General principles of research design and methodology with emphasis on applications for allied health practice.

**AHE 426 (5) C**  
**Leadership and Team Building/Organizational**  
 Covers leadership, working in and developing teams. Develops personnel management skills.

## American Ethnic Studies

**AME 102 (5) C**  
**Indigenous People and the U.S.**  
 Discusses the role that Native knowledge plays in the contemporary world, paying particular attention to Indigenous cultures in the Pacific Northwest. Looks at contemporary Indigenous culture as a unique form of knowledge that may allow us to create tools for a better and more just world for everyone. Students may meet with local Indigenous intellectuals, leaders, and elders to discuss ideas that are presently circulating.

**AME 111 (5) C**  
**Asian Am & Pacific Isl Communities & Issues**  
 Introduction to Asian American and Pacific Islander issues with a focus on examining one's racial/ethnic identity and strengths in the global context of A&PI communities historically and today. A&PI resilience and efforts for social justice will be explored. Students will experience community advocacy and foster connections with local A&PI community organizations. Required service learning component to add to your resume!

**AME 131 (5) C**  
**Asian American History**  
 Surveys the experiences of Chinese, Japanese, Filipino, Korean, Asian Indian and Southeast Asians in the United States from the mid-19th century to the present. Major themes include imperialism, labor migration, racism, exclusionary immigration laws, community formation, and resistance.

**AME 150 (5) C**  
**Race & Culture: an American History**  
 Surveys the making of the multicultural United States from indigenous homelands to settler colonialism. Examines the experiences of indigenous peoples, African Americans, Latinx Americans and Asian Americans in exposing the systemic race, class and gender oppression that generates wealth and power in the U.S., and how the struggles of people of color for political power, community well-being and cultural integrity embody the U.S.'s possibility for freedom and democracy.

**AME 151 (5) C|N|S**  
**Ethnic Studies: Identities, Solidarity, & Power**  
 Introduces students to the historical and contemporary social forces and power dynamics that construct racial & ethnic identities in the US. Students will learn how colonialism, capitalism, & Empire impact racial/ethnic communities. Students also consider how race & ethnicity intersect with other identities such as class, gender, sexuality, nationality, & ability. Maps out issues in land and labor rights, immigration, education, and popular culture.

**AME 200 (5) C**  
**Leadership and Social Change**  
 Examines issues raised by civil rights struggles in the United States. Covers the forces shaping social change, the role of the individual or change agent, and the personal skills required of change agents. Incorporates community service as a central teaching technique.

**AME 201 (5) C|N|S**  
**Diversity and Social Justice**  
 Combines theoretical frameworks, practical issues and experiential activities to help students develop skills and identify plans of action in eradicating the multiple forms of social oppression. Use critical analysis as an investigative tool to examine racism, sexism, hetero-sexism, able-ism, class-ism, religious oppression and aspects of internalized oppression.

**AME 202 (5) C**  
**American Indian Contemporary & Social Issues**  
 Covers contemporary issues impacting American Indian & Indigenous Peoples. Uses a social justice lens to give voice to Indigenous Peoples through documents, videos, music, and guest speakers. Through an examination of contemporary issues such as Missing & Murdered Indigenous Women and Girls, and #StopLine3, students will discuss indigenous people's relationship to historical topics, sovereignty, traditional knowledge, and Indigenous resistance and survival.

## American Sign Language

**ASL& 121 (5) C|N**  
**American Sign Language I**  
 American Sign Language (ASL) is the complex, naturally existing language used by Deaf people in North America. ASL I introduces this language and the community of people that use it. Covers fundamental vocabulary, grammar, and culturally-appropriate uses of ASL through natural, everyday conversational situations in both formal and informal registers. For students who have not previously studied ASL.

**ASL& 122 (5) C|N**  
**American Sign Language II**  
 Continuation of ASL 121. Develops ASL grammar skills, increases vocabulary, and deepens knowledge and appreciation of Deaf culture through natural, everyday conversational situations in both formal and informal registers.

**ASL& 123 (5) C|N**  
**American Sign Language III**  
 Focus on grammatical features such as complex sentences, depiction, spatialization, and non-manual components. Intensive work in vocabulary development, grammar, and continued study of Deaf culture.

**ASL 120 (5) C**  
**Introduction to Deaf Studies**  
 Overview of the types, causes, treatment and psychological aspects of deafness; history of deaf people; education of deaf people; and Deaf culture. May transfer to the University of Washington as an Individual and Society course.

## Anthropology

**ANTH& 100 (5) C|N|S**  
**Survey of Anthropology**  
 Introduces the field of anthropology. Covers biological and cultural anthropology, linguistics, and archaeology. Survey of humans over time and space. Includes evolution, ethics, political structure, social structure, economics, and communication.

**ANTH& 204 (5) C|N**  
**Archaeology**

Introduction to the history, methods, and theories of archaeology. Trace and explain the principal lines of cultural evolution in the Old and New Worlds. Discuss the importance of cultural resource management and public understanding and involvement.

**ANTH& 205 (5) C|N**  
**Biological Anthropology**

Intro to biological and cultural evolution of humans with evidence from fossil and contemporary populations. Examines physical and biological variations of humans past and present. Emphasis on developing a working vocabulary of anthropological terms.

**ANTH& 206 (5) C|N|S**  
**Cultural Anthropology**

Introduction to the study of human culture, including social organization, economics, politics and power, the environment, language, identity, religion, technology, and art. Focuses on the interactions within and between cultures in an increasingly globalized world.

**ANTH 130 (5) C|N**  
**World Cultures**

Exploration of global cultural variation and traditions in the modern context of international capitalism. Using ethnographic approaches informed by the ideas of cultural relativism and transculturation, considers both Western and non-western cultures as well as indigenous and industrialized cultures.

**ANTH 135 (5) C**  
**Introduction to Environmental Anthropology**

The development of human societies with special emphasis on relationships between environments and respective cultures throughout the world. Focus on conflicts between traditional cultures and pressures of modernization.

**ANTH 190 (5) C**  
**Anarchy and Anthropology**

Introduces basic anthropological insights into community, kinship, oppression and autonomy. Considers Homo sapiens' cultural evolution over the last 200,000 years with special attention to egalitarian societies. Topics covered include the idea of human nature, the origins of hierarchy, money and the state, and solidarity against institutional coercion in daily life. Assignments encourage creative and artistic expression.

**ANTH 201 (5) C**  
**Contemporary Issues in Anthropology**

Analysis of current research on a particular topic in cultural or physical anthropology. Topic varies by quarter; check with instructor for specific course content.

**ANTH 270 (5) C**  
**Food, Culture, and Politics**

Considers cultural & political dimensions of food from the Paleolithic to the present. Explores food & cultural identity, corporate control of the global food supply, movements toward popular food sovereignty, the Western Diet & human health, indigenous food traditions, the farmers' market movement, famine & food deserts, and political inequality & the food system. Eligible for SAGE (Sustainable Agriculture Education) Emphasis program.

**ANTH 275 (5) C|N**  
**Medical Anthropology**

Explores culture, society, medicine and health from a global perspective. Examines biomedical and cross-cultural perspectives of the human body, life, death, well-being and healing.

**ANTH 297 (7) N**  
**Archaeology Field Experience**

Experience archaeological field methods through orientation to field work, on-site excavation, and laboratory analysis of excavated cultural materials. Includes practice with techniques of artifact preparation, identification, documentation, data collection, and curation. Prerequisite: ANTH 100 or 204 recommended but not required.

**ANTH 299 (1-5) C|N**  
**Special Problems/Anthropology**

Small group setting to cover selected topics in anthropology.

**Apparel Design & Development****APPRL 96 (2) C**  
**AD&D Skill Development 1**

For students preparing to enroll in the School of Apparel Design & Development who have little or no sewing or pattern-making experience. Introduction to sewing terms, commercial and production pattern development, layout and cutting, industrial sewing machine operation, and professional construction techniques for basic garments and samples. Prereq: Eligibility ENGL& 101.

**APPRL 98 (2) C**  
**AD&D Skill Development 2**

For students preparing to enroll in the School of Apparel Design & Development. Intermediate beginners update their sewing machine handling and patternmaking skills. More complex sewing techniques and sample garments are constructed using industrial sewing and pressing equipment. Includes pattern drafting and labeling for production. Prereq: APPRL 096 or permission through successful completion of a skills test and eligibility for ENGL& 101.

**APPRL 99 (6) C**  
**AD&D Skill Development Intensive**

An intensive course combining APPRL096, APPRL098, & APPRL100 (the prerequisite courses to enroll in the Apparel Design & Development program). It is intended for students with little/no sewing experience. Students gain industrial-equipment skills for sewing and pressing, complete sewing techniques and sample garments, and cover pattern-development and proofing. Upon successful completion, students are eligible to enroll into the 2-year AD&D program. Prerequisite: eligibility for ENGL&101.

**APPRL 100 (2) C**  
**AD&D Skill Development 3**

Required for enrollment in AD&D. For students with previous sewing and patternmaking experience. Enhance industrial equipment handling skills for sewing and pressing to complete more difficult sewing techniques and sample garments. Covers pattern development of a bodice sloper and proofing methods. This course is a required prerequisite for enrollment into AD&D. Prereq: APPRL 098 or permission through successful completion of a skill test and ENGL&101 eligibility.

**APPRL 101 (4) C****Construction 1 - Professional Techniques**

Covers professional techniques and methods to construct samples and garments to professional industry standards. Emphasis on accuracy, use of industrial sewing and pressing equipment, and developing technical specification packages.

**APPRL 102 (4) C****Construction 2 - Professional Techniques**

Build on skills from APPRL 101 by producing samples and garments using intermediate construction techniques and meeting industry quality standards. Emphasis on industrial equipment use and proficiency, and enhanced specification package development. Prereq: APPRL 101.

**APPRL 103 (4) C****Construction 3 - Professional Techniques**

Presents techniques and methods using factory processes to construct garments for manufacturing. Blends skills in pattern design for target markets and construction for mass production. Continuation of technical specification development and industrial equipment use.

**APPRL 111 (4) C****Patternmaking 1 - Flat Pattern and Drafting**

Development of basic production patterns using flat pattern and drafting methods. Focus on fundamental patternmaking practices including cutting, labeling and approaches for pattern manipulations.

**APPRL 112 (4) C****Patternmaking 2 - Draping**

Pattern development using draping techniques to generate basic slopers. Combines draping with basic flat pattern manipulations to create patterns for garment designs.

**APPRL 113 (4) C****Patternmaking 3 - Design by Flat Patternmaking**

Continues development of flat pattern and draping techniques from APPRL 111 and 112. Combines fitting methods, and use of production pattern blocks and pattern modifications to create more complicated garment designs.

**APPRL 114 (2) C****Patternmaking 4 - Pattern Alteration for Fit**

Focuses on evaluating and achieving good fit through fit analysis and pattern adjustment and alteration techniques for common body variations.

**APPRL 130 (2) C****Apparel Manufacturing**

Survey of the apparel manufacturing business cycle. Includes materials acquisition, production, scheduling, product costing, machine processes and industry standards.

**APPRL 131 (3) C****Business Practices in Fashion**

Examines aspects of conducting business in the fashion profession including industry practices, job categories, professional development and business communications.

**APPRL 138 (3) C****Fashion History**

Survey of key clothing items from major historical periods. Gain tools for communicating clothing concepts and understand current fashion trends. Explore social influences and cultural ideals that impact fashion.

**APPRL 141 (2) C****Design 1 - Principles of Design**

Covers the basic design principles of repetition, rhythm, emphasis, harmony, balance, scale and proportion as they relate to garment design

**APPRL 142 (2) C****Design 2 - Fabric Science and Textiles**

Analyze how fibers, yarns, fabric structure and finish affect fabric characteristics. Studies include textile history, independent research and visual presentation.

**APPRL 143 (2) C****Design 3 - Color and Palettes**

Investigates color design trends and application in the apparel market. Explores hues, values and saturation and basic color theory.

**APPRL 151 (3) C****Computer Applications for Apparel Design 1**

Develop Excel, Illustrator and Photoshop skills for use in the apparel design field. Includes specification development, technical drawing and image editing.

**APPRL 152 (3) C****Computer Applications for Apparel Design 2**

Continues building computer skills, terminology and procedure. Gain proficiency in graphics programs commonly used in industry to produce technical drawings and visual presentations.

**APPRL 197 (1-5) C****Work Experience in Apparel Design**

Earn relevant work experience and practical hands-on skills through the completion of an internship in the apparel design and development field.

**APPRL 201 (4) C****Ready-To-Wear Construction**

Construction methods with focus on ready-to-wear and tailored garments. Coordinates with APPRL 211 to execute pattern designs for specific target markets.

**APPRL 202 (4) C****Active Sportswear Construction**

An advanced course focused on industry methods and standards for constructing active, technical sportswear, outerwear and accessories. Projects are constructed from patterns designed in APPRL 212.

**APPRL 211 (4) C****Pattern Design for Ready-To-Wear**

Presents advanced pattern design for ready-to-wear and tailored garments. Employs a variety of methods to produce patterns from blocks, measurements, fashion source material, and line drawings. Coordinates with APPRL 201 to construct pattern designs.

**APPRL 212 (4) C****Pattern Design for Active Sportswear**

Patternmaking for active sportswear and outerwear. Develop patterns from samples and sketches to industry standards and for functionality. Pattern designs are constructed in APPRL 202.

**APPRL 221 (4) C****Pattern Grading**

Covers basic principles of grading garment designs for manufacturing. Produces scaled-up and scaled-down versions of patterns using the shift and grid methods of grading.

**APPRL 222 (4) C****Computerized Pattern Grading**

Explore apparel industry standards and guidelines for pattern sizing for more complex patterns. Intro to using computer-aided technology to size patterns.

**APPRL 230 (4) C****Portfolio and Resume Development**

Survey course of job search and interviewing strategies including production of a professional portfolio and resume targeted for the apparel design and development industry.

**FINDING COURSES**

Course names and course prefixes are cross-referenced in an index beginning on page 227. For example:

**PREFIX TO COURSE**

HIN . . . . . Watch Technology

**COURSE TO PREFIX**

Watch Technology . . . . . HIN

Common Course Numbering explanation is on page 226.

**APPRL 241 (4) C**

**Design 4 - Print and Pattern**

Development of surface designs for fabrics and garment silhouettes. Focus on design methodology, textile pattern and print technology, Photoshop techniques and apparel industry practices.

**APPRL 242 (4) C**

**Design 5 - Line Design**

Explore elements of designing a line of clothing to industry standards. Focus on development of boards for line presentations and design of a clothing line for production in APPRL 270.

**APPRL 270 (8) C**

**Final Line Design and Development**

Capstone course to produce the line of clothing designed in APPRL 242. Includes pattern development, materials sourcing, garment construction and production of technical specifications. Collaboratively produce the annual fashion portfolio show where final collections and portfolios are on display to industry professionals and the public.

## Application Development Bachelor of Applied Science

**AD 300 (5) N**

**Component Software**

This course focuses on object-oriented programming using Java with an emphasis in the creation and use of software components. It also presents other programming concepts such as reusability, the model-view-controller (MVC) design pattern, elementary data structures (linked lists, binary trees), recursion, and algorithmic analysis using Big-O notation. Prereq: Acceptance into the Application Development BAS.

**AD 315 (5) N**

**Discrete Mathematics in Computer Programming**

This course provides hands-on application of the (abstract) discrete structures that constitute the backbone of computer science. Topics shall include: numerical representation and limitations for numerical methods, discretization, discrete probability, finite-state machines. Other topics may be included at instructor discretion. Topics shall be explored within the context of student-written application programs. Prereq: AD 300 or CSC 143; MATH& 151 with a 2.5 or better; or instructor permission.

**AD 320 (5) N**

**Web Application Development**

This course is an intermediate course in developing a database driven web application incorporating MVC patterns. The course will cover state maintenance, CRUD, & REST integration on both server & client side. Students will parse, cache, integrate API data achieved by third party providers into their application. Technologies can include as jQuery, CURL, AJAX & parsing JSON & XML. Prereq: AD 300.

**AD 325 (5) N**

**Data Structure & Algorithms**

Covers fundamental data structure and their algorithms and applications in problem solving by programming. Includes linked lists, stacks, queues, priority queues, binary and multi-way trees, directed graphs, hashing, internal and external sorting. Prereq: AD 300.

**AD 340 (5) N**

**Mobile Application Development**

Intermediate course in the fundamentals of mobile application development. Includes: program language & mobile platform design, building apps that respond to users in a useful/intuitive way, integration of data sources, location awareness, image/file management, and legal & ethical issues specific to the mobile environment. Prerequisites: AD 320 and acceptance into the AD-BAS program or instructor permission.

**AD 350 (5) N**

**Database Technology**

Covers intermediate programming in an SQL relational database. Provides an introduction to non-relational databases as used in cloud computing and Big Data. The RDMS topics include views, models, stored procedures, triggers, indexing, JOINS and abstraction techniques, query construct efficiency. Introduction to noSQL databases: uses terminology, indexing, storage, compute consumption, compression, and reliability. Prereq: Acceptance into the Application Development BAS.

**AD 400 (5) N**

**Project Management in Software Development**

This course provides a comprehensive overview of current processes, practices & tools used to manage software development projects. Using a combination of case studies & projects, students apply best practices for planning, organizing, scheduling, & controlling software projects. Emphasizes legal & ethical issues that relate to project management. Prereq: Acceptance into the Application Development BAS.

**AD 410 (5) N**

**Web Application Practicum**

Work in teams to create a MVC based web application. Store and share code via software versioning system and use small team agile strategies. Write requirements documents, build the app in stages and integrate components into a larger project. Covers legal and ethical issues of app development and lifecycle, and working in a diverse and collaborative environment. Prereqs: AD 310 & 320.

**AD 420 (5) N**

**Cloud Computing - Software as Service**

Covers fundamentals & strategies for moving & developing apps & data storage in the cloud. Students will analyze cloud based offerings & compare them for suitability to specific app & infrastructure needs. They will learn to deploy apps to the cloud, utilize cloud based services, develop cloud specific apps, and explore legal and ethical issues specific to the cloud computing environment. Prerequisites: AD 320, 325, & 350.

**AD 430 (5) N****Mobile Application Practicum**

Students work in teams to build a mobile app for an external client. Students will interview users, prototype their apps, write app specs, & consult for product viability & legal issues. Teams will use a recognized development strategy, performing design reviews and quality assurance checks at intervals. Upon completion, teams will deploy their mobile apps. Prereq: AD 310, 320, & 340.

**AD 440 (5) N****Cloud Computing Practicum**

Students will work in small teams to develop and deploy cloud-based services & apps for an external client: determining suitability, cost benefit analysis, ongoing maintenance needs in deploying an existing app to a cloud-based service, develop/implement a deployment plan to migrate an app to a cloud-based service, extend the apps capabilities to utilize cloud-specific offerings such as big data or cloud-based development platforms. Prereq: AD 310, 320, & 420.

**AD 450 (5) N****Data Science Development**

Fundamentals of data science course with topics that include data wrangling, visualization, exploratory data analysis, and machine learning. Students will gain hands-on data science experience with Python or R. AD450 is the first of a two-course sequence.

**AD 470 (5) N****Data Science Practicum**

This course is the second of the two-course sequence. Students integrate and apply the data analytics skills they have learned in Data Science Development course (AD 450) to conduct real-world data science projects. In the projects, students engage in processing real-world data, using a variety of visualization tools and applying appropriate data analytics models. Students conclude the projects with presenting key insights and findings. Prerequisites: AD 450 Data Science Development

**AD 490 (5) N****Internship/Capstone Project AD-BAS**

In this course for the Application Development, Bachelor of Applied Science, students shall complete a capstone project or arrange and complete an internship, applying the skills learned in the classroom to the workplace. Students write a culminating paper, reflecting on their experience and integrating it with classroom learning. Prereq: Instructor permission.

**Applied Behavioral Science Bachelor of Applied Science****ABS 206 (1-5) C****Writing in the Human Services**

Develops academic writing and research skills required for success in advanced studies in human services. Covers technical writing conventions and skills needed to develop reports and documents for the workplace.

**ABS 310 (5) C****Professionalism and Ethical Practice**

Examines ethical principles in the field of human services, including client interactions, peer-to-peer interactions, working with various communities, and the impact of ethics/ethical decisions. Prerequisite: Permission.

**ABS 320 (5) C****Applied Social Psychology**

Examines the application of social psychological concepts and systems theory in human service settings including prevention, policy analysis, groups, professional and client relationships, and multi-cultural competence.

**ABS 330 (5) C****Information Literacy and Program Assessment**

Intro to organization, retrieval and evaluation of electronic and print information: college library systems, networked information systems, traditional scholarly resources, and concepts of research. Examine specialized resources of various Social and Human Services disciplines.

**ABS 340 (5) C****Applied Environmental Science**

Investigates the relationship between environment and the human condition. Explores human needs and experiences based on the health of their environment, specific challenges posed by degraded environments and unequal access to healthy environments. Focus on developing environmental literacy and familiarity with tools for promoting environmental justice. Local field trips may be required.

**ABS 350 (5) C****Quantitative Principles in Research & Assessment**

Explores the quantitative organization of data central to scientific research and assessment design in applied behavioral sciences.

**ABS 360 (5) C****Public Policy Analysis**

Learn the art and science of providing problem-solving advice to government decision-makers, managers, and citizens in order to influence government processes. Understand theoretical frameworks, problem definition, development of alternative solutions, predicting impact of choices, policy evaluation and modification of policies through policy case studies.

**ABS 399 (1-5) C****Independent Study and Research**

Pursue academic and professional areas of interest and possible employment related to applied behavioral science.

**ABS 410 (5) C****Economic-Political Systems: Public Implications**

Explores the nature and scope of political economy by examining its historical evolution. Conducts a comparative analysis of contemporary political and economic systems and analyzes how public service relates to political economy through taxation and finance.

**ABS 415 (5) C****Cross-Cultural Competency in Human Services**

Develops an understanding of theories, research and applications pertaining to the process of cross-cultural competency. Students examine cultural assumptions, values, perceptual and cognitive orientations, cultural stereotypes, prejudice, ethnocentrism, non-verbal behaviors, language, and meaning systems in cross-cultural interactions between people from diverse cultural and ethnic groups.

**ABS 430 (5) C****Sociology of Families**

Examines the trends, issues, and debates regarding the social construction of families; and, how changes in families relate to social, economic, global and political changes in the larger social structure. Students develop critical thinking and analytic skills by drawing on empirical research, personal histories, current events, and public policy issues.



**ABS 495 (5) C**  
**Senior Capstone Project**

Students demonstrate their mastery of learning in the field of Applied Behavioral Science. Under the guidance and direction of instructors, they will evaluate their overall educational experience and individual professional direction by integrating experiential learning, coursework, knowledge, and skills, and demonstrating critical thinking, oral presentation, creativity, problem-solving, and writing commensurate with senior level work.

**ABS 497 (5) C**  
**Advanced Field Placement I**

This is the first of two quarters of applied professional work in a community setting consistent with the student's area of interest. Meets requirements for supervised field practice required for licensure and professional accreditation in many professional specialties.

**ABS 498 (5) C**  
**Advanced Field Placement II**

Second quarter of applied professional work in a community setting consistent with the student's area of interest. Meets requirements for supervised field practice required for licensure and professional accreditation in many professional specialties.

**ABS 499 (1-5) C**  
**Independent Study and Research**

Pursue academic and professional areas of interest and possible employment related to applied behavioral science.

**Arabic****ARAB 101 (5) C**  
**Arabic 101**

Modern Standard Arabic (MSA) language within the cultural context of Arabic-speaking people. Provides students with elementary Arabic communication skills of listening, speaking, reading, and writing. No prior knowledge of Arabic required.

**ARAB 121 (5) C**  
**Arabic I**

Modern Standard Arabic (MSA) language within the cultural context of Arabic-speaking people. Provides students with elementary Arabic communication skills of listening, speaking, reading, and writing. No prior knowledge of Arabic required.

**ARAB 122 (5) C**  
**Arabic II**

Continuation of ARAB121. Covers Arabic listening, speaking, reading, and writing skills with a supplementary focus on Arabic culture. Primary emphasis is on sentence structure and expression of ideas in the present, past, and future. Involves intensive classroom interaction and out-of-class assignments.

**Art****ART 91 (5) S**  
**Art**

This course is designed to help students become well rounded in the fundamentals of digital photography. Students will receive basic instruction, demonstration, and see samples of the desired outcomes. They will be allowed to go outside and shoot assignments based on what they are learning. A portfolio of student work will be created to share with the instructor and peers.

**ART 92 (5) S**  
**World Art**

Explore world geography continent by continent through map work and artwork of the region. For each continent students will study the major concepts in geography for the area including climate, landforms, resources, and culture then explore how art is reflective of the region. Students will also create art that fits with each continent's geography. Students will keep a personal geography notebook that contains all their maps and art projects for course.

**ART 93 (5) S**  
**Geography Through Art**

Explore world geography continent by continent through map work and artwork of the region. For each continent students will study the major concepts in geography for the area including climate, landforms, resources, and culture then explore how art is reflective of the region. Students will also create art that fits with each continent's geography. Students will keep a personal geography notebook that contains all their maps and art projects for course.

**ART& 100 (5) C|N|S**  
**Art Appreciation**

Historical backgrounds and design fundamentals that have affected art using slide lectures, reading and practical studio applications.

**ART 101 (5) C|N|S**  
**Design**

Studio series in the fundamentals of two-dimensional art with problems based on line, space, texture, shape and color theories. Includes practical applications of theories to design. Required for art majors.

**ART 102 (5) C|N|S**  
**Design**

Continuation of ART 101. Intro to three-dimensional space organization using the elements of design. Construction in sculptural formats. Required for art majors.

**ART 103 (5) C|S**  
**Design**

Problems in Design. Continuation of ART 102

**ART 105 (5) C**  
**Survey of Modern Art**

Study of major art movements of the late nineteenth century to the present with a focus on the major artistic forms, artists, and styles emerging out of Europe and the United States. Consideration also is given to the impact and exchange of artistic traditions and practices outside of Europe and the United States. May be taken out of sequence.

**ART 106 (5) N**  
**Color Theory**

Introduction to the basic principles of color theory as it pertains to fine arts and design applications. Students will develop skills in mixing and paint application necessary to realize a project in color from concept to completion. This studio class includes demos, lectures, critique, and collaborative work. Students will develop original, creative designs that utilize color interactions and practical approaches to color design problems. Basic drawing experience encouraged.

**ART 111 (5) C|N|S**  
**Drawing**

Freshman level drawing. Study of line, value, space, perspective and composition through the use of a variety of drawing media.

**ART 112 (5) C|N|S**  
**Drawing**

Exploration in subject and media including drawing from the human figure. Focus on composition, expression, and creative conceptualization.

**ART 113 (5) C|N|S  
Drawing**

Further development of fine art drawing with an emphasis on expression and composition, including development of portfolio building or other project.

**ART 114 (5) C|N  
Introduction to Digital Photography I**

Intro to digital camera use, photography basics, photographic visualization, composition, lighting, and minimal editing. Students must provide their own digital camera with five or more mega-pixels, Auto, Auto-P, Aperture Priority, Shutter Priority, and full manual Exposure Modes.

**ART 115 (5) N  
Introduction to Digital Photography II**

Continue with photography basics involving digital imaging, lighting, models, and presentation. Students need a current DSLR camera with full manual modes, tripod, lens tissue, thumb drive, card reader, compact flash or other memory card. Photo lights optional. Prereq: ART 114 or permission.

**ART 121 (5) N  
Introduction to Printmaking**

Study and application of basic relief print media. Covers linocuts, woodcuts, multicolor prints and experimental monoprints. Intro to relief and intaglio techniques, with emphasis on small editions. Recommended: Some drawing background.

**ART 122 (5) N  
Introduction to Printmaking-Intermediate**

Covers various aspects of printmaking, with an emphasis on intaglio printmaking processes. Intro to drypoint, engraving and etching with hard and soft grounds. Learn water and acid etching and the use of photosensitive emulsions on metal plates. Recommended: Some drawing background.

**ART 123 (5) N  
Continuing Printmaking: Monotype and Monoprint**

Develop technical and conceptual skills to create the painterly print. Emphasis on sequential imagery, layered impressions, color use and inks, use of the press, plates and papers and evolution of personal imagery. Covers variation, using a matrix and altered monotypes. Recommended: Some drawing background.

**ART 124 (5) N  
Printmaking - Screenprint**

Study and application of screenprinting media. Covers multiple techniques to create screens for Fine Art prints on paper. Introduces use of transparency in image. Instruction and focus on color mixing and interaction. Investigates multiple color print techniques and registration, with emphasis on monoprints and small editions. No prerequisites. Transfer class.

**ART 170 (5) S  
Photography as an Art**

Traces the history and distinctive properties of photography. Includes camera, exposure, lighting, composition, black and white dark-room work and digital imaging. This course has a Photography Materials Course Fee.

**ART 190 (5) N  
US Art Appreciation, Expression & Identity**

Intro to Art as a form of self-expression, identity, & activism. Through lectures, reflective writing, & beginner-level studio art projects, students learn about the personal journeys of US artists whose work reflects the diverse beliefs, attitudes, & ideologies of US culture. Disciplines include: drawing, painting, sculpture, jewelry, graphic design, & photography. Experience not required. Transfer class.

**ART 191 (5) N  
Global Art Appreciation, Expression and Identity**

Intro to Art as a form of self-expression, identity, & activism. Through lectures, reflective writing, & beginner-level studio art projects, students learn about the personal journeys of global artists whose work reflects the beliefs, attitudes, & ideologies of their culture, often in direct opposition to colonizing forces and the dominant Western cultural ideals. Disciplines include: drawing, painting, sculpture, jewelry, graphic design, & photography. Experience no required. Transfer class.

**ART 201 (5) C|N  
Painting**

Beginning painting in oil or synthetic media exploring a variety of subjects, including still-life. Emphasis on basics such as composition, value studies, color mixing, canvas preparation, styles and techniques. Recommended: Drawing background.

**ART 202 (5) C|N  
Painting**

Further development of color and composition in oils or synthetic painting media.

**ART 203 (5) C|N  
Painting**

Further studies in color, composition and subject matter including portfolio building or other project.

**ART 204 (5) N  
Mural Art**

Explore the stages of mural art from brainstorming and budgeting to community input and creation, with particular emphasis on the craft of mural execution. Hands-on experience requires ability to work outdoors 3+ hours at a time. Prereq: ART 201 or permission.

**ART 210 (5) N|S  
Digital & Graphic Art - Photoshop + Illustrator**

This course combines fine art and technical aspects of digital composition. Covers logo design, typography, and multi-page layout using vector (Adobe Illustrator) and pixel-based (Adobe Photoshop) programs. Students will be challenged to develop their own visual language.

**ART 211 (5) N  
Sculpture**

Fundamentals of composition in the round, in clay and plaster, using basic techniques of carving, casting and building.

**ART 212 (5) N  
Sculpture**

Fundamentals of relief composition in clay, plaster and wood using basic techniques of carving, casting and building. Prereq: ART 211 or permission.

**ART 213 (5) N  
Sculpture**

Fundamentals of three-dimensional composition with emphasis on life studies. Basic materials used are clay, plaster, or wood. Prereq: ART 212 or permission.

**ART 214 (5) N|S  
Digital & Graphic Art - Intermediate**

Further explore fine art and technical aspects of digital composition using vector graphics (such as Adobe Illustrator) and pixel-based (such as Adobe Photoshop) programs. Students will be encouraged to further develop their own visual language.

**FINDING COURSES**

Course names and course prefixes are cross-referenced in an index beginning on page 227. For example:

**PREFIX TO COURSE**

HIN . . . . . Watch Technology

**COURSE TO PREFIX**

Watch Technology . . . . . HIN

Common Course Numbering explanation is on page 226.

**ART 215 (5) N|S**  
**Digital Art and Graphic Design - Advanced**

Further explore fine art and technical aspects of digital composition using pixel and vector based software (such as Adobe Creative Suite). Students will be encouraged to further develop their own visual language.

**ART 221 (5) N|S**  
**Ceramics**

Explore a wide variety of ceramic ideas, techniques and materials as applied to sculptural and vessel forms. Students will develop an understanding of ceramics through hands-on experience working with the various ceramics processes while considering how it relates to contemporary art practices and lifeways. This course has an Art Lab Fee.

**ART 222 (5) N|S**  
**Ceramic Art**

Develop throwing skills. Understand basic glaze composition and kiln operation. Continue studies in techniques of surface decoration.

**ART 223 (5) N|S**  
**Ceramic Art**

Continuation of ART 222. Advanced work on the wheel. Emphasis on combining methods of construction. Learn basic glaze skills.

**ART 240 (5) N**  
**Book Arts**

Studio course in the art of book-making. Students will create narratives through visual story telling; learn tool handling and techniques in book construction; discuss historical and social contexts for the artist book; develop a personal expression through the medium of artist books. Methods of image-making will include, but are not limited to: painting, drawing, printmaking, digital art and collage.

**ART 251 (5) C|N**  
**Survey of Art: Paleolithic to 5th Century C.E**

Surveys major forms of visual expression from the Paleolithic to 5th Century C.E.. Includes painting, sculpture, and architecture through lectures, slides, and readings. Art History topics include: museum practices, identity, and colonialism. May be taken out of sequence. Transfer Class.

**ART 252 (5) N**  
**Survey of Art: 6th-16th Century**

A survey of European and Islamic art from the 6th-16th century. Includes painting, sculpture, and architecture through lectures, slides, and readings. Art History topics include: colonialism, patronage, and propaganda. Continuation of ART 251 but can be taken out of sequence. Transfer class.

**ART 253 (5) N**  
**Survey of Art: 17th Century C.E. to Present**

Surveys major forms of visual expression from the 17th Century C.E. to Present. Includes painting, sculpture, and architecture through lectures, slides, and readings. Art History topics include: identity, equity, and colonialism. Continuation of Art 252 but may be taken out of sequence. Transfer class.

**ART 255 (5) N**  
**Survey of Asian Art History**

Survey of the visual arts of India, China, and Japan with a focus on major religions, artistic forms, techniques, and cultural traditions. Consideration will also be given to the impact of outside invaders on the arts and cultural exchange across space and time.

**ART 258 (5) N**  
**Design History: a Global Perspective**

Introduction to the history of design with emphasis on the industrial age through contemporary design focusing on global design. Focus on colonialism and its effects on design, design practice across global regions, and contemporary design solutions in post-colonial regions. Transfer class.

**ART 280 (5) N**  
**Metal Object Design: Form and Function**

Introduction to the design and fabrication of functional and sculptural objects, using a range of traditional and contemporary metalsmithing techniques. Shape metals and other materials into small-scale art and design objects such as vessels, utensils, toys, tools, or adornment. Examine the forms of objects and their various practical and social functions. Prepares students in any area of study to use metal as a material with broad creative applications. No prerequisites. Lab fee required

**ART 281 (5) N**  
**Jewelry Design I**

Learn basic design and construction of non-ferrous metals involved in jewelry making. Bench techniques involve forging, soldering and basic stone setting. Lab fee required. Transfer Class.

**ART 282 (5) N**  
**Jewelry Design II**

A continued exploration of metal fabrication and jewelry design. Surface enrichment, advanced forming techniques, faceted stone setting and the introduction to enameling. Prereq: ART 281. Lab fee required. Transfer class.

**ART 283 (5) N**  
**Introduction to Alloying and Jewelry Casting**

Explore the alloying and casting processes of Jewelry Design. Learn lost wax casting and rubber molding processes. Prereq: ART 282. Lab fee required. Transfer Class.

**ART 284 (5) N**  
**Bench Techniques and Practices**

Advanced bench skills and production techniques will be taught allowing students to create innovative pieces with personal statements. The emphasis will be on creating a body of work that is exhibition ready. Prereq: ART 283. Lab fee required. Transfer class.

**ART 285 (5) N**  
**Metal Techniques for Small Scale Sculpture**

Metalsmithing techniques used to create functional and sculptural objects. Students learn the physical properties of metal and create objects that express personal images and creative thoughts. Basic metalworking techniques used to create metal sculpture, hollowware and model making. Field trips to some metal fabrication studios included to develop resources for future projects. Transfer class.

**ART 290 (5) N****The Art Business**

Fundamentals of the business aspects of art, including designing and packaging the portfolio for A.F.A./C.F.A. degrees, photographic artwork, building a resume, marketing, copyrights, contracts and other essential business practices. Recommended: At least two college-level art courses. Transfer Class

**ART 299 (1-5) C|N|S****Special Problems in Art**

Individual or seminar instruction. May be repeated to earn a maximum of 9 credits.

**Astronomy****ASTR& 100 (5) C|S****Survey of Astronomy**

Emphasis on astronomic concepts fundamental to an understanding of the solar system, stars, galaxies and origin and history of the universe.

**ASTR 125 (5) S****Big Picture: Astrodata Imaging**

Astronomy gazes to the universe, analyzing images and vast quantities of information or "big data." As an expanding domain in STEM, big data requires interpretation and visualization in context. In this course, we will explore images and big data to answer deep questions by working with digital imaging, analysis software including filters, and data visualization. We will collaborate on local and global citizen science projects to develop skills for interpreting and presenting big data.

**ASTR 201 (5) S****The Universe and the Origin of Life**

Modern views of atomic and molecular evolution from the big bang theory through the formation of the solar system and emergence of life on earth. Discuss extraterrestrial intelligent life and the ultimate fate of the cosmos.

**Automotive Technology****AUT 100 (6) S****Introduction to Electricity**

This introductory course covers skills required by the Automotive Service Excellence Education Foundation (ASEEF) including electrical theory; testing series and parallel circuits using a multimeter; diagnosing electrical system problems using schematics and component locators; Testing battery, starting and charging systems on vehicles including safety procedures. MATH 110 is embedded in this course.

**AUT 102 (4) S****Advanced Electrical Systems**

Covers understanding and using schematics. Includes battery, starting and charging system operation and testing.

**AUT 104 (3) S****Automotive Electronics**

Contents include: safety, automotive lighting, gauges and warning devices, horns, windshield wipers and washers, defoggers, power accessories diagnosis and repair or replacement of the components. In addition the function and construction of each component.

**AUT 106 (3) S****Basic Power Accessories**

Covers basic computer operation and applications on the vehicle, using scan tools to diagnose electronically controlled components and accessories. Coreqs: AUT 102, AUT 104.

**AUT 112 (3) S****Manual Transaxles and Clutches**

Power flow and principles involving manual transaxles; troubleshooting and diagnosing manual transaxles noises, clutch issues and shifting problems, removal and reinstall manual transaxle in vehicle. In addition the function and construction of each component, as well as their diagnosis and service procedures will be covered.

**AUT 114 (3) S****Manual Transmissions, Transfer Cases & Drive Axl**

Covers basic principles involving manual transmissions, transfer cases and drive axles, including function and construction of each component, diagnosis and service procedures.

**AUT 116 (6) S****Air Conditioning and Heating**

Basic principles involving air conditioning and heating systems; troubleshooting and diagnosing of air conditioning and heating systems; removal and reinstalling of air conditioning and heating components in vehicles. In addition, the function and construction of each component, as well as their diagnosis and service procedures will be covered. Instruction in safety, environmental awareness.

**AUT 118 (4) S****Automatic Transmission Diagnosis and Service**

This course covers power flow and principles involving automatic transmissions. Teaching how to diagnose, service and make adjustments to automatic transmissions. Teaching will include understanding electronic control systems, and how to locate and repair external transmission leaks. Students will be taught to perform a proper road test for transmission problems. In addition, the function and construction of each component, as well as their diagnosis and service procedures will be covered.

**AUT 120 (6) S****Advanced Automatic Transmission Service**

This course covers bench tear down inspection and reassembly of the transmission. In addition it covers the function and construction of each component. We will also remove and reinstall automatic transmissions in vehicles.

**AUT 122 (4) S****Steering and Suspension**

Steering and suspension theory, diagnosis and repair or replace including but not limited to chassis design, wheel bearings, steering and suspension components function and construction.

**AUT 124 (4) S****Tires and Wheel Alignment**

Tire and wheel construction, materials, application, remove & install, balance, diagnosis and repair. Performing a 4 wheel alignment, understanding all the components on the vehicle and road conditions that can affect alignment. Repair or replacement of those components on the vehicle as well as how aftermarket components can affect ride and safety of the vehicle.

**AUT 126 (3) S****Basic Brake Systems**

This course covers all of the components of disc brake, drum brake and mixed systems. We cover how each component works both in theory and in reality in the shop. We teach how to service, diagnose and to repair or replace each of the components.

**AUT 127 (4) S****Advanced Brake Systems**

Covers operation, diagnosis and service of disc brakes, power brakes and Antilock braking System (ABS) brake components.

**AUT 128 (4) S****Automotive Engine Diagnose / Remove and Replace**

This course covers automotive gasoline engines operation, lubrication and cooling systems. It also covers removal and installation.

**AUT 130 (8) S****Automotive Engine Rebuild**

Covers engine disassembly, cleaning of engine parts, inspection and measuring of engine components, cylinder head rebuilding, overhauling engine blocks and reassembly of an automotive engine.

**AUT 134 (3) S****Introduction to Engine Performance**

Automotive engine performance theory, operation and diagnosis of engine performance components, as well as removal, repair or replacement of components from vehicles. Coreqs: AUT 128, AUT 132.

**AUT 138 (4) S****Advanced Drivability and Fuel Systems**

This course will cover gasoline ignition and fuel systems. Included are distributor waste spark and coil on plug ignition systems also fuel pumps both electric and mechanical, fuel injection throttle body, port fuel sequential and gasoline direct injection systems.

**AUT 140 (4) S****Engine Computers**

Covers automotive engine computer, its multiple power and ground supplies and how these affect the running of the vehicle. Includes inputs and outputs of the vehicle, how each contributes to the running of the engine and how to diagnose each one.

**AUT 142 (6) S****Emission Controls and Diagnostic Test Equipment**

Covers all emission-related items on the vehicle and the federally mandated OBD II system. Includes use and operation of super charges and turbo charges on cars.

**AUT 197 (1-6) S****Internship Automotive Technology**

This course will provide an instructional link between classroom experience and actual on-the-job experience to help students bridge the gap between work and learning; reinforce and document student learning experiences on the job; and provide opportunities for faculty and student interaction throughout the student's work experience.

**MVM 100 (3) S****Introduction to Automotive Technology I**

This course focuses on skills required by the National Automotive Technicians Education Foundation (NATEF) including safety; nomenclature of components and parts; performing preventive maintenance procedures; tools and equipment; repair manuals; parts and time estimating guides; fasteners and equipment; and how they relate to the automotive industry.

**MVM 101 (8) S****Introduction to Motor Vehicle Maintenance Technology I**

This introductory course covers safety and Material Safety Data (MSD); tools and equipment; gathering vehicle maintenance information; repair orders, repair manuals, parts and time estimating guides; component identification; component theory and fasteners.

**MVM 102 (6) S****Introduction to Automotive Technology II**

This course builds on MVM 100 to meet Automotive Service Excellence Education Foundation (ASEEF) standards by covering vehicle inspection; lube, oil and filter; cooling system; belts and hoses; heating and air conditioning system; driveshaft; manual and automatic transmission service and using a scan tool to retrieve diagnostic trouble codes (DTC).

**Aviation Maintenance Technology****AMT 105 (15) S****Aviation Introduction & Context**

This is the first course in FAA Airframe and Powerplant Certification. Students will investigate aviation career paths, learn basic physics applications in aircraft systems and calculate aspects of aerodynamics and structures, acquire skills with tools and knowledge of real aircraft, engines, and materials through hands on exercises, and observe the purpose and complexity of the worldwide aerospace system by comparing real world situations to federal aviation regulations.

**AMT 110 (15) S****Aviation Electricity & Tech**

In this class, you will evaluate your way of learning and work towards mastery of a technical subject, investigate and discuss possible career paths and learn your place and interests in this industry. You will discover how basic physics and electrical theory apply to aircraft design, construction, and maintenance, and gain hands-on experience with real aircraft, materials, and engines. Lastly, you'll compare real situations to the federal aviation regulations to understand their safety value.

**AMT 111 (15) S****Basic Science for Aviation**

This course introduces students to aircraft terminology and nomenclature, basic physics, aircraft drawings, maintenance forms and records, Federal Aviation Regulations (FARs), materials and processes, the exercise of mechanics privileges, and shop safety practices as they pertain to every day shop problems.

**AMT 112 (15) S****Basic Electricity for Aviation**

This course introduces students to the basic concepts of electricity and magnetism. Methods of generating alternating and direct current are studied. Students will learn the proper methods of overhaul, inspection, installation and repair of aircraft electrical components. Safety precautions are also emphasized.

**AMT 113 (15) S**  
**Airframe Structure and Repair**

This course introduces students to the use of wood, fabric, composites, fiberglass, plastic and metal as materials for aircraft structures. Upon completion of the projects in the course, students learn methods of inspection and repair of aircraft structures. Safety precautions are emphasized when using the various materials found in aircraft structures.

**AMT 115 (15) S**  
**Airframe Structures & Materials**

This course is the third step to the FAA Airframe and Powerplant certification. In this class, students will learn standard practices related to: Metallic and non-metallic aircraft structures, aircraft hardware, materials and processes and cleaning and corrosion control.

**AMT 120 (15) S**  
**Airframe Systems I**

This course is the fourth quarter of eight in the Aviation Maintenance Technology sequence at SSC. Students will investigate some of the systems used in aircraft and will apply knowledge gained in previous AMT classes to discover how these systems work. Many projects will be undertaken as part of a team, as is common in the aviation industry. This will give students an opportunity to learn how to work in diverse groups and help foster an enhanced learning environment.

**AMT 133 (15) S**  
**Powerplant Theory and Maintenance**

This course introduces students to powerplant theory and maintenance practices of the reciprocating engine and the gas turbine engine. Course topics include overhaul of each powerplant type, inspection technique, induction systems, cooling systems, exhaust, and turbocharging systems.

**AMT 205 (15) S**  
**Airframe Systems II**

This course is the fifth step to FAA Airframe and Powerplant Certification. In this class, the following subjects will be covered: Flight Controls, Environmental Systems, Aircraft Instrument Systems, Ice and Rain Control Systems, and Rotorcraft Fundamentals.

**AMT 214 (15) S**  
**Airframe Systems**

This course Introduces students to the five basic airframe systems: hydraulic-pneumatic power, landing gear, ice and rain control, cabin environment, fuel systems and management. Students work on assigned projects in each of the areas.

**AMT 215 (15) S**  
**Advanced Airframe**

This course Introduces students to aircraft inspection and record keeping procedures, including doors and interior furnishings, fire detection and extinguishing systems, aircraft instruments, aircraft electrical systems, and communication & navigation systems.

**AMT 234 (15) S**  
**Powerplant Systems and Components**

This course Introduces students to aircraft engine fuel metering systems, ignition systems, lubricating systems, ice and rain control systems and indicating systems. Upon completion of the projects, students learn the correct procedures for inspecting, testing, overhauling, & troubleshooting powerplant systems & related components. Safety precautions are emphasized when using the various shop tools and equipment.

**AMT 235 (15) S**  
**Advanced Powerplant**

This course Introduces students to aircraft propeller systems, fire detection and extinguishing systems, reciprocating and turbine engines, powerplant inspections troubleshooting. This is the final phase of powerplant technology and reviews are given for the final FAA exam with emphasis is placed on FAA regulations, airworthiness concepts, safety, personal and technical ethics.

**AMT 295 (15) S**  
**Airframe & Powerplant Master Class**

This intensive master class is for those with an approved 8610-2 FAA rating application. It provides a review of General, Airframe and Powerplant sections of the written, oral and practical FAA-licensing exams with special focus on those areas of civilian aviation not typically encountered during military service.

**AMT 296 (2) S**  
**AMT Professional Portfolio**

The student will complete an industry research project, develop a job search strategy, create an industry-relevant resume, complete an online job application, and participate in required workshops, and attend a job interview event. They will describe and provide documentation of successfully scheduling and attaining FAA AMT certification according to procedures described in relevant FAA CFRs. Instructor Permission.

**Basic & Transitional Studies****BTS 50 (1-5) N**  
**Academic Skills Support for I-BEST**

Class will provide I-BEST enrolled ABE and ESL students with tailored, separate support and review to ensure student success in various I-BEST programs.

**Biology****BIOL& 100 (5) C|N|S**  
**Survey of Biology**

Intro to biological principles and concepts: cell biology, application of biological knowledge to problems of society, and development of an awareness of science. Lab included. For non-science majors. This class has an additional Science Lab Course Fee.

**BIOL& 160 (5) C|N|S**  
**General Biology with Lab**

Basic biological concepts with emphasis on biological molecules, cell structures and processes; diversity, phylogeny and ecology of living organisms; and an exploration of molecular genetics.

**BIOL& 211 (5) C|N|S**  
**Majors Cellular Biology**

BIOL&211 is the first of a three-quarter introduction to biology sequence in preparation for advanced study in areas such as medicine, dentistry, cell biology, microbiology, or veterinary medicine. BIOL& 211 focuses on cellular biology, BIOL& 212 on the biological diversity in animals and BIOL& 213 on evolution, ecology and biological principles of prokaryotes, fungi, protists and plants. Lab included.

**FINDING COURSES**

Course names and course prefixes are cross-referenced in an index beginning on page 227. For example:

**PREFIX TO COURSE**

HIN . . . . . Watch Technology

**COURSE TO PREFIX**

Watch Technology . . . . . HIN

Common Course Numbering explanation is on page 226.

**BIOL& 212 (5) C|N|S**  
**Majors Animal**

Covers fundamental principles and establishes a basis for advanced study of anatomy and physiology and clinically related subjects in the paramedical fields.

**BIOL& 213 (5) C|N|S**  
**Majors Plant**

BIOL& 213 is the third course in the major's biology series. Emphasis is placed on the diversity, ecology and evolution of bacteria, fungi, protists, and plants. This course also explores details of the life cycle, reproduction, and physiology of non-vascular and vascular plants. The ecology of populations, communities and ecosystems is explored unifying concepts of cellular, molecular, evolutionary and organismal diversity covered in BIOL&211, 212, and 213. Lab is included. This class has an additional Science Lab Course Fee.

**BIOL& 241 (5) C|N|S**  
**Human Anatomy and Physiology 1**

Covers fundamental principles and establishes a basis for advanced study of anatomy and physiology and clinically related subjects in the paramedical fields.

**BIOL& 242 (5) C|N|S**  
**Human Anatomy and Physiology 2**

Fundamentals of human anatomy and physiology presented in lecture and laboratory. Designed to establish a basis for studying clinically related subjects in the paramedical fields. Continuation of BIOL& 241 with Lab.

**BIOL& 260 (5) C|N|S**  
**Microbiology**

Fundamentals of microbiology. Topics include bacterial cell biology, growth and growth control, metabolism, genetics, identification, viruses, human innate and adaptive immune systems, host-bacteria interactions, immunization, infectious disease epidemiology, and antibacterial drugs. Includes lab. This class has an additional Science Lab Course Fee.

**BIOL 103 (2) C**  
**Nutrition for Food Service Professionals**

Covers identification of known nutrients for human health, demonstration of quality dietary guidelines, and utilization of dietary guidelines in meal planning, including modification of existing recipes to meet nutritional recommendations; Additional topics include understanding of special needs diets and modifications.

**BIOL 107 (5) C**  
**Introduction to Comparative Animal Behavior W/Lab**

An overview of current thinking and research in the science of animal behavior. Focuses on evolutionary principles and their influence on animal behavior. Discover how animals learn, how learning & instinct shape behavior, and how different strategies affect survival. Gain insight into human behavior from a new perspective and understand why and when sociality and apparent altruism can be advantageous. Includes lab.

**BIOL 120 (5) C**  
**Marine Biology W/Lab**

Emphasis on natural history, ecology, distribution, habitat, adaptation, interrelationships of local species. Field trips and lab included.

**BIOL 125 (5) N**  
**Biology of the Pacific Northwest**

Discover fundamental principles of biology and ecology through readings, experiments and field trips. This online course fulfills the lab science requirement. Transfer class.

**BIOL 128 (5) C|S**  
**Survey of Human Anatomy & Physiology**

Focuses on the structure, function, and location of the body's organ systems, and how organ systems interact to maintain homeostasis in response to different physiological challenges, such as exercise, injury, and disease. Lab included. This class has an additional Science Lab Course Fee.

**BIOL 150 (5) S**  
**The Biology and Evolution of Infectious Diseases**

Covers biology, epidemiology and evolution of infectious human diseases such as cholera, Ebola, HIV/AIDS, tuberculosis, malaria, influenza (including H1N1), smallpox and others. Emphasizes local and global environments of past and newly emerging diseases that impact human societies, including economic, social, cultural, historical, political and ethical aspects.

**BIOL 161 (5) C**  
**Human Genetics W/Lab**

Introduction to human genetics and genomics. Topics include stem cells, Mendelian and multifactorial inheritance, DNA structure and function, genetic variation, cancer, genomic testing, genome modification, impacts of genetics, including bioethical issues. Includes lab.

**BIOL 299 (1-5) C|N**  
**Independent Study in Biology**

Independent study of approved topics in the biological sciences. This course is an agreement between the student(s) and a faculty adviser that will guide the student(s) through the course work. Prereq: Instructor's permission.

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## Botany

**BOT 112 (5) C**  
**The Plant Kingdom**

Introduction to the anatomy, physiology, reproduction, diversity and ecology of cultivated and wild plants. Satisfies lab science requirement for A.A. degree.

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## Business

**BUS& 101 (5) C|N**  
**Introduction to Business**

Survey of American business in a global context: business and economic terminology, entrepreneurship, forms of business ownership, accounting, budgeting, operations, human resource management, ethics, corporate social responsibility, and marketing principles.

**BUS& 201 (5) C|N|S**  
**Business Law**

Covers nature, development and operation of principles of business law relating to contracts, commercial paper, corporations, agency, partnerships and sales.

**BUS 112 (5) N**  
**Multicultural Issues in the U.S. Workplace**

This course examines primary and secondary aspects of diversity, including (but not limited to): race and ethnicity, gender and gender expression, sexual orientation, intersectionality, mental challenges, social class, and appearance/weight. Students will study effects these issues of diversity have on the ethical, legal, communication, marketing, and organizational change in the workplace of the United States.

**BUS 113 (3) S**  
**Diversity Issues in Business**

Intro to legal, gender, racial and cultural aspects of business. Examines diversity, self-exploration as a basis for understanding others, historical overviews of ethnic influences on American business, workforce demographics and cross-cultural communication.

**BUS 114 (5) N**  
**Introduction to Marketing**

Marketing presents an opportunity: find a need and fill it! Responding to the wants and needs of the consumer with the right product, price, promotion, and distribution forms the basis of the marketing concept. Marketing is dynamic, highly-visible, and often very controversial. Marketers must demonstrate value, quality, and service exceeding customer demands while maintaining channel relationships and meeting company goals and objectives. Marketing methods vary, but the need for marketing remains constant in the face of changing business practices. Marketing is essential to survival in today's customer-driven business. Prerequisite: Eligible for English 101 through English Placement Test or completion of English 097/098.

**BUS 116 (5) S**  
**Business Math/Spreadsheets**

Use business math applications to work with percentages, invoices, trade and cash discounts, markups and markdowns, payroll, depreciation and other business applications. Use Excel software to create spreadsheets. 2.0 or higher required for BIT Certificates and degrees.

**BUS 118 (5) N**  
**Project Management Introduction and Overview**

This course is an overview of project management from a business perspective. Topics will include project authorization & planning as well as managing project resources, scheduling, budgeting and risk. Students will apply principles to their own project.

**BUS 124 (5) N**  
**Excel for Business**

Learn to use Excel, a spreadsheet program that enables you to create worksheets that allow you to enter, calculate, manipulate, and analyze data such as numbers and text; create charts, graphs, and visuals to give your data impact. Use Excel as a database to manage and organize data, to search for specific data, and to select data that meets particular criteria. Recommended: Familiarity with computer usage or completion of BUS 169 or equivalent. Computer lab fee req'd.

**BUS 131 (5) S**  
**Integrated Communications I**

Review and refine basic English grammar, spelling, punctuation and word usage skills by composing effective basic business letters and memos. Intro to oral communication skills essential to successful giving/receiving of information and cultural aspects of the communication process.

**BUS 140 (5) S**  
**Customer Relations**

Develops skills to identify and resolve customer complaints, handle difficult customers and utilize effective verbal and nonverbal communication methods. Learn appropriate professional use of various electronic media and contribute positively to the service culture of an organization. Examines future trends and changes in work environments.

**BUS 151 (5) N**  
**Entrepreneurship: Overview and Mindset**

Designed for those with an interest in starting their own business. This is an opportunity to explore whether you have the Temperament and GRIT (persistence) to successful business owner. Validate or develop your Entrepreneurial Mindset. Understand the process needed to expand your business around your products/services.

**BUS 152 (5) N**  
**Business Creation I: Prep for Success**

Designed for person ready to start a business. All activities directly apply to the student's business idea. Will cover Value Proposition; Feasibility Analysis; Competitor Analysis; Vision/Mission; Business Structure; Customers; and Business Plan Canvas. Our goal is a successful launch/enhancement of the student's business.

**BUS 153 (5) N**  
**Business Creation II: Ready to Start Now**

This course continues the development/implementation of the student's business. We will cover: Proforma Financials; Development of Business Plan; Customer Focus; Website Development; Marketing/Selling; Going Global; Risk Management; Networking. Prerequisite: BUS 152 or instructor's permission.

**BUS 166 (1-2) S**  
**Career Development III**

Plan and create a project proposal. Research an area business or non-profit organization, investigate its needs, create a project solution, present the proposal and implement the result for the organization. Required capstone course for Office Professional Certificate.

**BUS 169 (5) N|S**  
**Using Computers in Business**

This is a hands-on course designed to introduce Microsoft Office software. The focus is on representative software that will provide the student with the basic concepts of word processing, spreadsheets, database management, and presentation graphics.

**BUS 177 (5) S**  
**Spreadsheets**

Learn and use Microsoft Excel to manipulate numbers, track sales and expenses, create budgets and charts to help make informed business decisions. Use calculations and pre-defined formulas to organize data, process statistical information and more.

**BUS 186 (5) N**  
**Sustainable Business**

Examines the relationships between business, social and economic development and the environment. Explores how emerging technologies are reshaping energy utilization and management for businesses and their communities. Prereq: BUS& 101 or instructor permission.



**BUS 197 (1-5) C|S****Work Experience-Business Occupations**

Integrates educational studies with supervised work/internship experience. Provides individualized opportunities to apply business knowledge and skills in the workplace. Includes developing work experience learning outcomes and monitoring achievement through self-evaluation and faculty and supervisor evaluations. Prereq: Permission.

**BUS 200 (5) N****Law and Society**

Fundamental concepts, structure, and function of the American legal system. Emphasis on the role of law in society rather than on the rules of law. Includes sources of law, court systems, dispute resolution, constitutional law, torts, criminal law, contracts and legal reasoning.

**BUS 210 (5) C|N|S****Business and Economic Statistics**

Studies statistical methods and their application to business and economic data.

**BUS 227 (5) N****Digital Marketing**

Students learn the fundamentals of digital marketing, including search engine optimization (SEO), search engine marketing (SEM), display advertising, content creation, e-mail marketing, social media strategy, mobile marketing, and analytics/measurement. Students have opportunities to experiment with these methods and also learn the importance of building an integrated marketing strategy. Prerequisite: ENGL&101 or ENGL&235; Recommended: BUS114 Intro to Marketing or marketing experience.

**BUS 228 (5) N****Social Media Marketing**

Learn best practices for effective marketing with social media platforms to engage with customers, learn from them, and positively influence them toward a company or product brand or nonprofit. Avoid the risks associated with careless social media practices. Gain hands-on practice with developing and implementing a social media marketing plan.

**BUS 229 (5) N****Project Management Tools Techniques and Control**

This course will teach the students how to define and sequence project tasks and how to use the most popular planning and control tool, MS Project. Students will complete a project using Project Management elements, including developing a project plan and budget. Students will also work with resource allocations, critical path, dependencies, estimating, risk management, contingency planning, implementation, and evaluation. Prerequisite: IT 101 or BUS 169 and BUS 236

**BUS 236 (5) N****Interpersonal Communications for the Workplace**

This course teaches effective interpersonal communication skills. Students learn communication styles and effective ways to adapt communication to meet business needs. Through individual and group activities, students improve understanding of cultural diversity, non-verbal communication, and individual influences on communication. Techniques for making informal and formal business presentations are also covered. Careful preparation for the employment interview is emphasized.

**BUS 237 (5) N****Team Skills in the Workplace**

This course will explore aspects of successful teams, and examine the importance of assessing and recognizing individual team member skills. This course will also review and use tools to support the growth and development of teams in effective decision-making, efficient meetings, and improving team performance. Prereq: BUS 236

**BUS 240 (5) C****Internet Law**

Explores legal issues & topics directly related to the internet: copyright, trademark, & service mark rights; privacy; contractual issues surrounding work-products; web site development & licensing agreements; employment issues including discrimination & monitoring of employee e-mail; censorship; domain name registration; & defamation or CyberSlander. Provides an overview of the basics of constitutional law, contracts, torts, regulations, criminal law, & personal law as needed.

**BUS 280 (5) N****Business Data Analytics**

Learn business analytics to comprehend the amount of data that business professionals deal with every day. Learn the basics of descriptive, predictive, methodologies. You will also learn how to build efficient models and graphic presentations to solve business problems and how to convert large data sets of unorganized raw data into useful information for decision making. Prerequisites: MATH 098 or higher; BUS 169 or equivalent. Recommended: BUS 124 (or MATH& 146) and BUS 210.

**BUS 298 (1-5) S****Special Topics: Business**

Prereq: Permission.

**BUS 299 (1-5) C|N****Independent Study**

Individual or group study projects on topics in the field of business. Prereq: Permission.

**Business Technology Management****BTM 98 (3) C****Computing Essentials**

Presents common concepts and principles for effective use of current technologies. Covers basic technology vocabulary, general uses and functions of computers, mobile devices, software applications and the Internet. Designed for students with little or no experience using computers and/or the Internet for academic and professional purposes.

**BTM 100 (2) C****Orientation and Career Exploration**

Provides the skills and knowledge necessary to develop and pursue a career plan. Includes identification of personal strengths, values, and interests, and evaluation of careers compatible with personal preferences. Provides key career resources, practice in career search skills, and career and education strategies to reach goals.

**BTM 101 (2) C****Word**

Introduces key concepts and software to develop and create business documents. Topics include document design, creation, formatting, layout, output, graphics, tables, citations, and sharing documents.

**BTM 102 (2) C****Excel**

Introduces key concepts to develop and analyze business spreadsheets. Topics include formulas, formatting, functions, charts, and working with multiple workbooks.

**BTM 104 (2) C****Photoshop**

Introduces Photoshop using the array of tools for editing digital photos, scanned photographs, and creating photo-realistic images.

**BTM 111 (5) C****Business Productivity Applications**

Introduces business productivity applications used for spreadsheets, word processing, database, and presentation software. Includes an overview of file management techniques, email, and operating systems.

**BTM 112 (5) C****Business Applications II - Data Analysis W/Excel**

Explores the use of Excel data analysis tools to transform data from many sources into effective business intelligence reporting solutions for any organization. Emphasis on introducing advanced query editing, pivot table creation, and interactive summary visualizations.

**BTM 113 (5) C****Cloud Foundations**

Introduces students to cloud-based, client-side software applications for business productivity and collaboration solutions using enterprise grade Office 365. Learn cloud computing basics. Examine the primary cloud service providers. Differentiate between cloud, hybrid-cloud and multi-cloud deployment options. Evaluate software vs platform vs infrastructure as a service concepts. Explore cloud practitioner certificate pathways. Course includes AWS Educate account.

**BTM 118 (5) C****Applied Business Math**

Covers introductory business statistics (averages & standard deviation), invoices, trade and cash discounts, markups and markdowns, payroll, depreciation, compound interest and solving equations. Includes use of spreadsheet software to analyze business data.

**BTM 119 (5) C****Business Communications II**

Further develops business English grammar, punctuation, and word usage skills to compose effective, complex business documents. Develops research, business report writing, and documenting skills. Includes practice of techniques and strategies for effective oral presentations. Covers planning, facilitating, and documenting business meetings.

**BTM 120 (5) C****Customer Relations Management**

Develops skills to identify and resolve customer complaints, handle difficult customers, utilize effective verbal and nonverbal communication methods, and use customer relationship management systems. Covers appropriate professional use of various electronic media. Provides skills to contribute positively to the service culture of an organization. Examines future trends and changes in global work environments.

**BTM 122 (5) C****Professional Development**

Course designed to enhance positive attitude, professional and personal comportment, collaborative techniques, and comprehensive presentation skills to achieve personal and professional success in global interactions.

**BTM 197 (1-5) C****Work Experience: Business Technology Management**

Integrates educational studies with supervised internship work experience. Provides individualized opportunities to apply Business Technology Management knowledge and skills in the workplace. Includes setting of work experience learning outcomes and monitoring achievement through self-evaluation and faculty and supervisor evaluations. Co-requisite: Must be employed, interning, or volunteering in a position approved by program faculty or the Cooperative Education.

**BTM 220 (5) C****Social Media Marketing**

Explains the role social media plays in a digital marketing strategy. Students will learn best practices for different platforms and test their social media skills. Course projects include creating a real Facebook ad campaign. One of five courses required for the Facebook Digital Marketing certificate.

**BTM 221 (5) C****Digital Branding & Advertising**

Introduces digital branding and paid advertising strategy for professionals and small business owners. Topics covered include creating appropriate content, search and display advertising, and consumer psychology. Search and display life-cycle best practices are discussed. Students will calculate advertising costs, bids, and key optimization metrics. No prerequisites. BTM 221 is one of the five Facebook Digital Marketing Certificate courses. Students may take any or all of these courses.

**BTM 222 (5) C****Digital Marketing Foundations**

Introduces the basics of digital marketing and branding strategy in the context of a small business owner. Students will learn marketing concepts including market segmentation, market positioning, unique value propositions, and key marketing metrics. Strategies to create effective marketing content are presented. No prerequisites. BTM 222 is one of the five Facebook Digital Marketing Certificate courses and can satisfy the entrepreneurship cert & AAS degree requirements. Students may take any or all of these courses.

**BTM 223 (5) C****Email Marketing Campaign Strategies**

Introduces issues regarding email marketing. Topics covered include understanding the life-cycle of an email campaign, generating email lists, and available automation tools. Students will practice creating marketing emails that focus on voice, tone, and content.

**BTM 224 (5) C****Marketing Analytics & Performance Optimization**

Introduces the tools necessary to analyze the results of digital marketing efforts like data gathering using spreadsheets, Google Analytics, and A/B testing. Students will analyze Acquisition & Behavior reports & create analytics dashboards. Drive conversion and marketing performance optimization factors will be presented. BTM 224 is one of five courses in the Facebook Digital Marketing Certificate.

**FINDING COURSES**

Course names and course prefixes are cross-referenced in an index beginning on page 227. For example:

**PREFIX TO COURSE**

HIN . . . . . Watch Technology

**COURSE TO PREFIX**

Watch Technology . . . . . HIN

Common Course Numbering explanation is on page 226.

**BTM 226 (5) C**  
**Small Business Startup**

Introduces steps to starting a small business. Students review skills of successful entrepreneurs to select the most appropriate form of business ownership, register a business name, and access and complete required local, state, and federal legal documents. Includes the study of trademarks, copyrights, and patents, and methods to finance a business. Students also practice creating and presenting start-up proposals.

**BTM 228 (5) C**  
**Small Business Management**

Covers the skills necessary to successfully start, improve, and manage a small business, including business plan creation, marketing, copyrights/patents, prototyping, and cash flow.

**BTM 231 (5) C**  
**QuickBooks Online**

Provides a detailed overview of QuickBooks Online for addressing small-business accounting needs. Topics include customizing company settings, creating customers and sub-customers accounts, recording bank deposits, setting up bank feeds, and reconciling bank and credit card accounts. Learn to create purchase orders, assign sales tax, prepare journal entries, and transfer funds between accounts.

**BTM 236 (5) C**  
**Supervision Management**

Introduction to first-line supervision management, covering total responsibilities of a supervisor. Includes the function of management, human relations and motivation, effective communications, systems concepts and problem-solving.

**BTM 237 (5) C**  
**Human Resource Management**

Introduction to organizational structure of the modern business office; recruitment and training; management of human resources; employee rights and ethical issues; legal responsibilities; and team-oriented collaboration for human relation dynamics.

**BTM 245 (5) C**  
**Business Process Management**

Examines the creation, improvement, automation, and mapping of a set of procedures (e.g., a business process) to improve an organization's internal & external activities or workflows so that it may more efficiently deliver the wants of its clients.

**BTM 250 (5) C**  
**Records Information Management**

Examination of manual and digital record management systems currently used in industry. Introduction and application of the following filing/management systems: Alphabetic (as established by ARMA International), geographic, numeric, and subject. Access 2016 will be used to design, create, maintain, update, and integrate an electronic filing system.

**BTM 260 (5) C**  
**Project Management**

Overview of project management from a business and IT perspective, including project estimation, feasibility, planning, risk management, contingency planning, scheduling, control and Agile project methodology. Examine and evaluate project planning techniques, budget estimation, resource allocations, critical path dependencies, risk management, contingency planning, implementation, and evaluation; and, complete a project.

**BTM 265 (5) C**  
**Operations Management**

Administer business practices to manage an organization's internal resources to maximize efficiencies in the production and delivery of an organization's goods and services. Functions include analyzing all aspects of an organizations operations to create strategies that improve operational productivity.

**BTM 275 (5) C**  
**Computer User Support**

Introduces students to the fundamentals of help desk operations. Emphasizes the basic components of a successful help desk, provides students with working knowledge of software to process and track calls, and presents hands-on experience with problem analysis.

**BTM 278 (5) C**  
**Organizational Behavior**

Focuses on a variety of factors that influence organizational behavior, including: the structure; policies and procedures; management effectiveness; and interactions of individual groups and workplace environments. The impact human behavior has on job performance, communication, motivation, and leadership will be used to study how they affect organizational identity, design, innovation, change, and many other roles that shape organizations.

**BTM 299 (1-5) C**  
**Independent Study: BTM**

An independent study course for Business Technology Management students who need to fulfill degree requirements under the approval and supervision of faculty.

**Certified Medical Assistant**

**CMA 101 (5) C**  
**Introduction to Medical Assisting**

A history and overview of medical practices and the healthcare team, certification and professional organizations. Effective communication related to communication in healthcare is addressed; includes cultural perspectives on illness. This course introduces the student to legal and ethical concepts related to ambulatory healthcare. Emphasizes critical thinking, HIV/AIDS education, and emergency preparedness.

**CMA 102 (4) C**  
**Fundamentals of Administrative Medical Assisting**

Provides students with opportunities to acquire knowledge of the medical front office focusing on skills and techniques required for the clinical and administrative functions of a medical assistant in an ambulatory care setting. Covers the office environment as well as computer medical application, telephone techniques, professional correspondence, and medical records management relative to electronic health records.

**CMA 103 (8) C**  
**Fundamentals of Clinical Medical Assisting**

Students learn medical assisting theory and how to apply it to medical assisting clinical practice. Clinical practice will include, but not be limited to, vital signs, equipment sterilization, diagnostic procedures, and role responsibilities when assisting physicians with their work. Medical device knowledge will include wheelchairs, crutches, nebulizers, and audiometry. Communication, documentation, and patient education topics are also discussed.

**CMA 104 (5) C|N**  
**Billing and Coding Procedures**

Covers insurance & the electronic billing processes, financial accounting aspects of medical practices, and health insurance & numeric/alphanumeric codes utilized in healthcare for the purpose of maintaining accurate medical records & ensuring efficient claims processes. Provides students with opportunities to apply their knowledge within a simulated medical office setting. Emphasizes various types of health insurance, billing, & bookkeeping.

**CMA 105 (8) C|N**  
**Phlebotomy and Laboratory Procedures**

Provides students with a professional environment within a simulated clinic setting focused on invasive procedures. Students are introduced to phlebotomy, CLIA waived tests theories, procedures and values, specimen handling and transport, safe clinical practices, and effective medical record documentation and practical application of skills as related to the medical assistant in a healthcare provider environment.

**CMA 106 (7) C|N**  
**Administrative and Clinical Practice/Review**

This course will be a full quarter of review of all administrative and clinical procedures. Students will practice as if they were in an actual medical clinic. This course will be mostly hands-on with minimal lecture.

**CMA 107 (8) C|N**  
**Medication Administration & Pharmacology**

The student will learn theory and practical procedures in calculating medication dosages and administering medications. Theory includes legal and ethical factors, the medication order or prescription, dosages, drug labels, calculating dosages, the seven rights of drug administration, and various routes to deliver medications. These routes include practice in oral medications, various parenteral routes—injections intradermal, subcutaneously and intramuscularly.

**CMA 108 (1-12) C|N**  
**Medical Assisting Practicum**

First of two courses of externship. Students will acquire study skills for the national CCMA exam, then participate in an unpaid practicum (externship) of 160 hours total in a medical clinic. In this course or the next, students will also apply for CCMA exam, MA-C WA State License and graduation.

**CMA 109 (6) C**  
**Medical Assisting Practicum II**

Second of two courses of externship. Students will acquire study skills for the national CCMA exam, then participate in an unpaid practicum (externship) of 160-180 hours total in a medical clinic. Students will also apply for CCMA exam, MA-C WA State License and graduation.

**Chemistry****CHEM& 110 (5) C|N|S**  
**Chemical Concepts W/Lab**

A humanistic approach to chemistry for students who have no previous experience in chemistry. Introduces chemical principles, facts, and theories and how they relate to our lives, communities, and the environment. Topics include atomic theory, stoichiometry, gas laws, solutions, periodicity, basic thermodynamic and elementary bonding, an introduction to organic chemistry, and other topics that relate to chemistry in the every day world.

**CHEM& 121 (5) C|N|S**  
**Introduction to Chemistry**

Introduction to Chemistry (CHEM&121) is intended for allied health programs and other non-science majors. Completion of CHEM& 121, and either CHEM& 131 or CHEM& 122, fulfills the chemistry requirement for many allied health programs (e.g. nursing, dental hygiene, etc). This lab science course covers the fundamentals of chemistry, including: measurements, atomic structure, types of reactions, thermodynamics, stoichiometry, equilibrium, kinetics, and acid base chemistry.

**CHEM& 122 (5) C**  
**Introduction to Organic Chemistry W/Lab**

Continuation of organic chemistry and intro to biochemistry. Lab included.

**CHEM& 131 (5) N|S**  
**Intro to Organic Chemistry and Biochemistry**

Covers the structure, properties and reactions of various organic compounds, including hydrocarbons, alcohols, aldehydes, ketones, carboxylic acids and amines. Examines complex compounds found in living systems: carbohydrates, lipids, proteins, and nucleic acids. Lab focuses on analysis and separation techniques.

**CHEM& 139 (5) C|N|S**  
**General Chemistry Prep**

Lecture. Includes chemical mathematics, basic atomic structure, chemical bonding, chemical equation balancing, mole concept and chemical stoichiometry.

**CHEM& 161 (6) C|N|S**  
**General Chemistry with Lab I**

The first in a 3-quarter sequence introducing basic chemistry concepts such as: structure & bonding, chemical reactivity, measurement, stoichiometry, structure of matter, gas laws, intermolecular forces, solutions, acid/base, kinetics, equilibrium and other chemical concepts. Satisfies the general chemistry requirement for science & engineering majors. Lab included.

**CHEM& 162 (6) C|N|S**  
**General Chemistry with Lab II**

The second in a 3-quarter sequence introducing basic chemistry concepts such as: structure & bonding, chemical reactivity, measurement, stoichiometry, structure of matter, gas laws, intermolecular forces, solutions, acid/base, kinetics, equilibrium and other chemical concepts. Satisfies the general chemistry requirement for science & engineering majors. Lab included.

**CHEM& 163 (6) C|N|S****General Chemistry with Lab III**

The third in a 3-quarter sequence introducing basic chemistry concepts such as: structure & bonding, chemical reactivity, measurement, stoichiometry, structure of matter, gas laws, intermolecular forces, solutions, acid/base, kinetics, equilibrium and other chemical concepts. Satisfies the general chemistry requirement for science & engineering majors. Lab included.

**CHEM& 241 (4) C|N****Organic Chemistry I**

The first course in a three-quarter sequence that includes introduction to organic chemistry, chemistry of carbon compounds and what makes them unique from other branches of chemistry. It covers structure and bonding, functional groups, nomenclature and stereoisomers, preparation, synthesis and reactions of various types of organic molecules, including alkanes, alkenes, alkynes, and alkyl halides.

**CHEM& 242 (4) C|N****Organic Chemistry II**

The second course in a three-quarter sequence that is the continuation of the chemistry of carbon compounds. This course covers alkane, alkene, alcohol and aromatic functional groups and their nomenclature, structure, and reactivity. There is also the continuation of study of arrow pushing mechanisms. Modern instrumentation such as FTIR, NMR and Mass spectroscopy are introduced.

**CHEM& 243 (4) C|N****Organic Chemistry III**

The third course in a three-quarter sequence of organic chemistry, the chemistry of carbon compounds. This course focuses on carbonyl compounds and their structure, bonding, nomenclature and reactivity. Carbohydrates and proteins are also introduced.

**CHEM& 251 (4) C|N****Organic Chemistry Lab I**

First quarter of a two-quarter organic chemistry laboratory sequence. Entails purification techniques, synthesis & spectral analysis of representative compounds.

**CHEM& 252 (4) C|N****Organic Chemistry Lab II**

Second quarter of a two-quarter organic chemistry laboratory sequence. Entails synthesis, identification of unknowns & spectral analysis of representative compounds.

**CHEM 117 (5) S****Cannabis Chemistry**

For non-science majors; a survey of chemistry concepts that are used in the cannabis industry. Students will learn about the structure of different cannabinoid compounds and their associated physical and chemical properties. Students will learn the concepts and lab techniques from both general and organic chemistry that have practical applications in extracting and characterizing cannabinoids. Lab included. This course has an additional Science Lab Course Fee.

**CHEM 255 (3) N****Biochemistry I**

First course in a 2 quarter sequence. Survey of basic principles of biochemistry and molecular biology, emphasizing chemical events in living systems in terms of metabolism and structure-function relationships of biologically important molecules. For chemistry, biochemistry, medicine, dentistry, pharmacy or medical technology majors. Prereq: CHEM& 242 with a grade of 2.0 or better.

**CHEM 256 (3) N****Biochemistry II**

Second course of a two-quarter sequence. Survey of basic principles of biochemistry and molecular biology. Covers chemical events in living systems in terms of metabolism and structure-function relationships of biologically important molecules. For chemistry, biochemistry, medicine, dentistry, pharmacy, or medical technology majors.

**CHEM 298 (1-5) C****Special Topics: Chemistry**

Seminar of selected topics and/or activity in the chemical sciences. Prereq: Variable, dependent on topic.

**Chinese****CHIN& 121 (5) C****Chinese I**

Intro to the standard language, emphasizing correct pronunciation and basic structure, with oral practice and structure skills. Emphasis on systematic study of the phonetics (Pinyin) and basic grammar. Covers everyday expressions and vocabulary, and background on history, culture and customs. Intended for students who have not previously studied Chinese.

**CHIN& 122 (5) C****Chinese II**

Continuation of CHIN& 121.

**Communication****CMST& 101 (5) C|N|S****Introduction to Communication**

Intro to communication as a transactional process, with attention to personal, cultural, group and public communication. Covers verbal and nonverbal messages, listening, self-concept and perception.

**CMST& 102 (5) C|N****Introduction to Mass Media**

History and impact of the mass media from hieroglyphics through print, advertising, radio, TV, movies and the Internet. Critically read media texts and analyze the effects on individuals and cultures.

**CMST& 210 (5) C|N****Interpersonal Communication**

Introduces theories and skills associated with interpersonal communication to understand and improve relationships with family, friends, romantic partners, and in professional settings.

**CMST& 220 (5) C|N|S****Public Speaking**

Learning to speak with confidence; topic selection and research; and preparation and delivery of informative, persuasive, special occasion and other forms of presentations.

**CMST& 230 (5) N|S****Small Group Communication**

Experience in and analysis of communication within groups, emphasizing interdependent thoughts and efforts, active listening and empathizing, cooperation, power and conflict management, and collaborative decision making/problem solving.

**CMST 205 (5) C|N|S****Multicultural Communication**

Study concepts of culture and the opportunities and challenges of multicultural communication in domestic settings. Focuses on the importance of culture in all human interaction; the variables which affect intercultural communication, including ethnicity, gender and multicultural identities; and the influences of American culture around the world.

**CMST 245 (5) S**  
**Media Communication and Criticism**

Contemporary perspectives on the transformation of human interaction through media-based communication. Evaluates the content of modern criticism within the context of the cultural and economic marketplace of ideas and values.

**CMST 260 (5) S**  
**Race and Media Representations of Cannabis**

This course explores how the mass media has represented marijuana use since the 1930s. Students will develop media literacy and analysis skills that will help them historicize and analyze how mass media representations of marijuana use has been used to both reinforce and challenge US drug policies and dominant ideologies that marginalize people of color. Course objects of study include movies, television shows, news articles, music, and advertisements.

**CMST 295 (1-5) C**  
**Studies and Works in Communication**

Analytical study or creative work in Communication.

## Community Health Education Bachelor of Applied Science

**CHED 301 (5) C**  
**Principles of Community Health**

Introduces students to terms, concepts, theories, methods and resources which are related to community and public health issues and designed to improve the health of populations in the United States. Focuses on the role of healthcare workers in various community health settings and organized activities. Emphasis on principals that meet the national standard of practice for all health education specialists.

**CHED 304 (2) C**  
**Principles of Higher Education in Allied Health**

This course reviews adult learning theory, emphasizing practical skills for successful post-secondary teachers and trainers in allied health disciplines. Topics include development of course outlines and syllabi, learning objectives, teaching methods, experiential and non-experiential learning, clinical skills development strategies, professional presentation skills and assessment.

**CHED 310 (5) C**  
**Health Communication**

Examines health disparities, social determinants, interpersonal and cultural competence, health literacy, and the planning and implementation of a health promotion campaign to educate target populations.

**CHED 311 (5) C**  
**Social Determinants of Health**

Examines the conditions of our local environment, applying narrative, photo-journals from our own lives and from fiction to the theory of social determinants (i.e., the social and economic environments that we live in that raise the risk of disease for some groups and individuals and reduce it for others). Understanding social determinants gives us a context for understanding health and disease in communities.

**CHED 312 (5) C**  
**Health Behavioral Change Theoretical Foundations**

Introduces theories from the social and behavioral science field to understand health related behaviors and guide development of interventions designed to prevent, reduce, or eliminate health problems. Presents and explores the ecological approach that examines the interplay of three influences: intrapersonal, interpersonal, and community.

**CHED 322 (5) C**  
**Program Planning and Evaluation**

Provides a foundation in Community Public Health. Covers the establishment of measurable outcomes, the creation of monitoring of programs, and the final evaluation at completion of programs. Studies the theories of program planning and methods of community participation. Examines the importance of community engagement, stakeholder buy-in, and sensitivity to the needs and voices of diverse groups in the community, particularly of those marginalized and vulnerable.

**CHED 341 (5) C**  
**Community Health Needs Assessment & Improvement**

Focuses on public and community health needs by identifying the strategic planning process used to manage and improve the health of the population in a targeted area. Covers the planning and evaluation of improvement methods while considering social determinants of health, as well as health inequities, social justice, and global health initiatives.

**CHED 476 (1) C**  
**Community Health and Education Capstone I**

The 1st of 3 successive capstone courses in Community Health & Education. A culmination of student learning. Students, collaborating with faculty & community mentors, synthesize the knowledge & skills to manage & complete a real-world project. Projects focus on one or more themes (e.g, education, systems improvement, etc). The 3 qtr. project concludes with a final paper & a presentation.

**CHED 477 (1) C**  
**Community Health and Education Capstone II**

The 2nd of 3 successive capstone courses in Community Health & Education. A culmination of student learning. Students, collaborating with faculty & community mentors, synthesize the knowledge & skills to manage & complete a real-world project. Projects focus on one or more themes (e.g, education, systems improvement, etc). The 3 qtr. project concludes with a final paper & a presentation.

**CHED 478 (3) C**  
**Community Health and Education Capstone III**

The last of 3 successive capstone courses in Community Health & Education. A culmination of student learning. Students, collaborating with faculty & community mentors, synthesize the knowledge & skills to manage & complete a real-world project. Projects focus on one or more themes (e.g, education, systems improvement, etc). The 3 quarter experience concludes with a final paper & a presentation.

## Community Service, Cooperative Ed.

**CMS 197 (1-3) C**  
**Community Service/Volunteer**

Provides students with an opportunity to serve their community by engaging in meaningful volunteer service with diverse agencies and populations while enhancing career and personal goals. This course includes reflection and supervision/evaluation by the site supervisor. Prerequisite: Instructor's permission. Co-requisite: Must be volunteering in a non-profit or not-for-profit organization; public/private school, college, or university; hospital; or government agency.

**FINDING COURSES**

Course names and course prefixes are cross-referenced in an index beginning on page 227. For example:

**PREFIX TO COURSE**

HIN . . . . . Watch Technology

**COURSE TO PREFIX**

Watch Technology . . . . . HIN

Common Course Numbering explanation is on page 226.

**CMS 198 (1-3) C**  
**Community Service/Volunteer**

Provides students with an intermediate-level learning opportunity to serve their community by engaging in meaningful volunteer service with diverse agencies and populations while enhancing career and personal goals. This course includes reflection and supervision/evaluation by the site supervisor.

**CMS 199 (1-3) C**  
**Community Service/Volunteer**

Provides students with an advanced learning opportunity to serve their community by engaging in meaningful volunteer service with diverse agencies and populations while enhancing career and personal goals. This course includes reflection and supervision/evaluation by the site supervisor.

## Computer Science

**CSC 102 (1) C**  
**Computers in Mathematics**

Introduction to software (such as Mathematic) used extensively in advanced math courses. Completion of self-paced tutorials to prepare for final exam in the last week. CSC 102 is strongly recommended for students in MATH& 151. First class is mandatory because it provides an introduction to the software.

**CSC 110 (5) C|N|S**  
**Introduction to Computer Programming**

An overview of computer program design and problem solving with a focus on problem analysis, program development, testing and debugging. Students will use functions, control structures, and data structures to develop a variety of increasingly complex programs to solve scientific and technical problems. Students will learn to document and test their solutions. Programming language may vary.

**CSC 111 (5) N**  
**Computers for Math and Science**

Introduces skills, concepts, and capabilities necessary to effectively use information technology. Includes operation of computers and networks. Learn contemporary applications such as spreadsheet, database, and presentation software. Build your own website with images, links, multimedia, and some simple programs.

**CSC 142 (5) C|N|S**  
**Computer Programming I**

General principles of modern programming, including how to design, implement, document, test and debug computer programs, using the Java programming language. Topics include objects, messages, expressions, statements, methods, classes, conditionals, iteration, arrays, and collections. Computer fee. Transfer class.

**CSC 143 (5) C|N|S**  
**Computer Programming II**

Advanced concepts of modern programming that continue the ideas introduced in CSC 142. Topics include classes and interfaces, inheritance, exceptions, recursion, analysis of algorithms, and some dynamic structures (lists, stacks, trees). Uses Java programming language. Lab fee. Transfer class.

**CSC 299 (1-5) C|N**  
**Independent Study**

Independent study of approved topics in computer science.

## Computer Science Baccalaureate

**CSB 301 (5) N**  
**Logic and Problem Solving for Computer Science**

Provides the student with a thorough introduction to computational logic, covering in depth the topics of syntax, semantics, decision procedures, formal systems, and definability for both propositional and predicate logic. The material is taught from a computer-science perspective, with an emphasis on algorithms for automated reasoning. The goal is to prepare the students for using logic as a formal tool in computer science, in general, and artificial intelligence, in particular.

**CSB 302 (5) N**  
**Analysis of Algorithms**

Techniques for design of efficient algorithms. Methods for showing lower bounds on computational complexity. Examines types of algorithms including greedy, divide and conquer, and dynamic programming. Particular algorithms for sorting, searching, set manipulation, arithmetic, graph problems, pattern matching. Explores intractability including NP-Complete Problems. Discussions led around Algorithmic Bias and why it's important to avoid.

**CSB 305 (5) N**  
**Fundamentals of Computer Science**

Examines fundamentals of set theory, number theory, induction, and algebraic structures with applications to computing; grammars, finite state machines, and limits of computability.

**CSB 310 (5) N**  
**Programming Languages**

This course is an introduction to the design and implementation of programming languages. The course explores organization and structure of programming languages, how programming languages evolve, differences in problem domains, language suitability, basic features of programming language translation, and implementation techniques for these constructs. The course teaches the programming models underlying different paradigms such as functional, logic, scripting and object-oriented languages.

**CSB 330 (5) N****Computer Architecture and Networking**

This course introduces different hardware architectures, organizations, and operations of various machines followed by the fundamentals of computer networking. The architecture portion includes topics such as number representation, CPU concepts, hardware/software interaction, memory hierarchy, I/O organization, and assembly language. The networking portion includes basic concepts of computer networks, layered network architecture, protocols, and concept of network performance.

**CSB 340 (5) N****Operating Systems**

This course explores the operating systems, the services they provide, the processes they execute, and their secure access. Topics include memory management, concurrent process management, resource management, system call implementation, file systems, and memory protection.

**Cooperative Work Experience Internships****CWE 101 (1-3) N****Portfolio, Job Search Preparation and Job Shadow**

Learn how to find, and succeed in the internship or job you want. Students create portfolios, research resources, develop job search tools, and integrate identify workplace competencies. The 3rd credit provides students practical, experiential learning through Job Shadow and Informational Interviewing. Prepares students to compete for internship and employment opportunities and/or to transfer to a 4 year institution. (Variable 2-3 credit) Prereq: Eligibility for ENG 98.

**CWE 102 (2) N****Job Shadow**

Provides an opportunity to observe the practical side of the students chosen field of study. Students are introduced to expected behavior, culture, and dynamics of the workplace. Students will find and shadow professionals in the field, conduct information interviews, and assess their own career choices. Credits variable (1 - 2). Class meets Wednesdays from 12:00 PM - 2:00 PM in IB3406.

**CWE 110 (1-3) N|S****Internship**

In CWE 110, students apply theory and skills learned in previously completed courses to their internship work site.

**CWE 197 (1-5) C****Work Experience-Cooperative Education**

Integrates educational studies with supervised work/internship experience. Provides individualized opportunities to apply knowledge and skills in the workplace. Includes developing work experience learning outcomes and monitoring achievement through self-evaluation and faculty and supervisor evaluations. Prereq: Permission.

**CWE 198 (1-5) C****Work Experience-Cooperative Education**

Integrates educational studies with continued supervised work/internship experience. Provides individualized opportunities to apply knowledge and skills in the workplace, and to continue practicing and updating skills gained in CWE197. Includes updating previous work experience learning outcomes and continuing to monitor achievement through self-evaluation and faculty and supervisor evaluations.

**CWE 199 (1-5) C****Work Experience-Cooperative Education**

Integrates educational studies with supervised work/internship experience. Provides individualized opportunities to apply knowledge and skills in the workplace. Includes developing work experience learning outcomes and monitoring achievement through self-evaluation and faculty and supervisor evaluations.

**CWE 494 (1) N****International Business Internship Preparation**

The International Business B.A.S. curriculum includes a major internship component. This course is designed to help prepare online students to find and secure appropriate internship positions. Students will develop internship search skills which include identifying and using resources, writing targeted resumes and cover letters, creating a professional online profile and practicing interview skills. Hybrid class meets in person 3 times for 2 hour sessions. See instructor notes for specific dates/times. Online students will have phone contact with instructor 1 2 times during the quarter by appointment. Prereq: enrollment and good standing in the International Business B.A.S.

**CWE 495 (1-8) N****Baccalaureate Internship**

In completing an internship, Bachelor of Applied Science (BAS) students apply knowledge from BAS classes to an outside workplace environment. Students write learning objectives, complete internship documentation, participate in online discussions, prepare oral presentations and write reflection essays. Hybrid sections meet twice on campus. See Instructor notes for dates/times. Students may register for CWE 495 two times. Credits variable (1-8). Prerequisite CWE 494 or BAS Internship Guide.

**Culinary Arts****CUL 101 (6) C****Food Theory I**

Introduction to the basic fundamentals of professional cooking. Covers history of the foodservice industry, professional attributes, kitchen safety, tools & equipment identification, knife safety and cutting techniques, basic kitchen ratios, and mise en place. Includes basic seasoning & flavoring and scientific principles of moist and dry heat cooking, egg cooking, the making of stocks, plus introduction to and identification of vegetables, fruits, starches, meats, poultry, fish and shellfish.

**CUL 102 (5) C****Food Theory II**

Continuation of introduction to professional cooking and professional food production theory. Includes trade terminology, heavy equipment, tool identification, mise en place, garde manger, meat fabrication and cookery, fish fabrication and cookery, vegetables, starches, international cuisine, garnishes, and presentation.

**CUL 103 (4) C****Food Theory III**

This final course on theory of restaurant professional cooking and techniques explores international cuisines, food history, and cultural food connections. Topics include styles of pasta, olive oils, dumplings, soups, fresh cheeses, and classic sauces; the study of market trends, basic plate presentations, menu planning & writing. Includes exploration of wine growing regions and grape varieties and how a menu influences decisions in purchasing and labor.



**CUL 104 (6) C**  
**Food Theory IV**

Theory course level IV, focuses on advanced scientific theory & techniques. Students explore the historical evolution of global cuisines and cultures, current trends & influences within the restaurant industry. Emphasis on menu writing, method cooking, palate development, flavor building, international ingredients and applications. Advanced technique focus: refinement, plate presentation, sauce work, whole animal butchery & preservation techniques.

**CUL 106 (2) C**  
**Introduction to Culinary Arts: Theory**

Students will learn procedures of table service, waiter/waitress responsibilities, restaurant first-aid, and food cost analysis. Students must be registered concurrently with HOS 116 and 194.

**CUL 111 (6) C**  
**Professional Cooking Practicum I**

This course will introduce students to the fundamentals of professional cooking through hands-on practice. Course content will include kitchen safety and operations, introduction to industrial kitchen equipment operation, basic knife skills, basic food preparations, mise en place, foundational stock production, teamwork, organization and leadership, buffet set up and breakdown, and sanitation procedures. Students will rotate through a variety of stations.

**CUL 112 (9) C**  
**Professional Cooking Practicum II**

Lab: Students begin applying heat to food in an industrial food setting, rotating through a variety of stations to produce food products for lunch service. Recipes and cooking techniques discussed in the classroom will be applied. Practical focus on organization, mise en place, item marketing, meat and seafood fabrication, equipment operation, sanitation & safety, and preparation of meals from international cuisine.

**CUL 113 (9) C**  
**Professional Cooking Practicum III**

Intro to restaurant line cooking in a bistro style kitchen. Includes rotations through kitchen stations, applying culinary techniques to produce a diversity of international menu items, including soups, pasta, pizza and entrees for restaurant service. Students practice organization, collaboration, and speed. Continued development of knife skills, meat and seafood fabrication, cooking techniques, plate presentation, and evaluation of finished product.

**CUL 114 (9) C**  
**Professional Cooking Practicum IV**

Hands-on professional cooking training in a full service restaurant. Students work collaboratively to present dishes, highlighting local and global cuisine. Apply new techniques, refine & master skills, building on foundation established in CUL 113. Skill focus: organization, professionalism, accuracy, safety, sauce work, fish, meat & vegetable preparation, refined plate presentation, palate development, sustainable practices.

**CUL 116 (1) C**  
**Introduction to Culinary Arts: Practicum**

Covers fundamentals of culinary arts. Rotate into a different kitchen each day and prepare a variety of dishes in each area. Includes various types of moist and dry heat cooking methods and preparation methods for breakfast items, poultry or rabbit, fish, soups, stocks, sauces, vegetables and side dishes, salads and dressings.

**CUL 120 (1) C**  
**Introduction to Wine**

Covers the fundamentals of grape growing and winemaking, including table, sparkling and fortified wines. Includes sensory evaluation of classic grape varieties and their growing regions with emphasis on Washington state wines. Learn strategies for food and wine pairing.

**CUL 151 (2) C**  
**Sustainable Food Systems Practices I**

Introductory course exploring the current ecological, economical and political issues relating to the food system. Raises awareness of issues of the food system from producer to consumer, exploring agriculture, fisheries, dairy, meat and poultry production, water and waste. Includes social justice, trade, and health issues, preservation of cultural food traditions and foodstuffs, and activism within the food system. Prereq: Admission into Culinary Arts Program.

**CUL 152 (1) C**  
**Sustainable Food Systems Practices II**

Expansion of concepts introduced in CUL 151. Course explores food system issues related to ocean health, ocean acidification, climate change, plastics pollution, and its affects on fisheries, human health and cultural food traditions. Understanding of food sovereignty, concepts and tools to manage food waste in kitchens and local sourcing.

**CUL 153 (1) C**  
**Sustainable Food Systems Practices III**

Explore the issues relating to a sustainable food system: globalization, food politics, food security and social justice. Examine climate change as it relates to the food system, water and waste issues, heritage foods, and practical application of ideas in the kitchen. Learn how to navigate and purchase from the local producer market.

**CUL 205 (2) C**  
**Advanced Culinary Theory**

Students will explore the history of dietary trends, and the methods involved in creating menus for restricted diets. Students will learn application of specific scientific principles to food preparation & preservation, using specialized equipment and techniques to add perceived value to dishes & menus. Topics will be explored through lecture, product sampling, & demonstrations.

**CUL 215 (5) C**  
**Professional Cooking Practicum V**

Students culminate their culinary education through a series of capstone projects. Students utilize learned techniques and skills to demonstrate the ability to organize, plan, lead, provision, and execute menus of their own design. Projects build leadership, advanced culinary techniques and culinary competition skills. Students demonstrate professionalism and commitment to producing quality food while leading others.

**CUL 251 (1) C**  
**Banquet, Catering and Buffet Management**

Introduction to catering & event management: explores event development and budgeting strategies, professional organizational tools, different catering event styles and appropriate menus and production plans. Identifies internal & client-facing communication tools and strategies, and menus & culinary techniques appropriate to buffet & catering scenarios with emphasis on hors d'oeuvres.

**CUL 255 (8) C****Buffet Cater/Garde Manger Practicum**

Prepare foods for a buffet setting including salads, sandwiches, street food, hot entrées, and desserts. Produce a variety of charcuterie items. Implement recipes and cooking methods presented in class. Work on a show platter for buffet presentation. When applicable, utilize weekly harvests from the Skagit Valley Farm to execute seed-to-plate philosophy in menus and recipes.

**CUL 257 (2) C****Meat Fabrication & Charcuterie Practicum**

This course provides deeper understanding of whole animal butchery, meat fabrication, and product utilization. Includes cold-kitchen production of market cuts, charcuterie items, and utilization of offal. Covers basics of forcemeats, pates, terrines, smoking, curing, brining, confit, and fermentation. Explores sustainability and issues in industrial livestock farming and meat production.

**CUL 298 (1-5) C****Independent Project/Culinary**

No Description Available

**CUL 299 (1-5) C****Independent Projects/Culinary Arts**

Independent study course for individual projects in the Culinary Arts field.

**FSD 100 (3) S****Health and Sanitation**

Basic sanitation principles, ways to apply the principles in practical situations, and methods for training and motivating food service personnel to follow good sanitation practices. Certification is awarded by the National Education Foundation of the National Restaurant Association upon successful completion of the national examination.

**FSD 165 (15) S****Fundamentals of Classical Techniques**

Focuses on fundamental concepts, skills, and techniques in basic cooking. Emphasis is given to the study of sustainable ingredients, cooking theories, organizational skills in the kitchen, work coordination, and knife cuts. Introduction to basic salads, vegetable and starch cookery, use of thickening agents, fundamental meat and poultry butchery and production, and preparation of stocks, soups, and mother sauces. Introduction to purchasing and food cost. Concurrent enrollment in FSD100.

**FSD 175 (15) S****Advanced Classical Techniques**

Advancing principles of protein fabrication focusing on awareness of anatomy of beef, lamb, pork, poultry, and game. Advanced knife skills are emphasized focusing on efficiency and consistency. Skills are developed in defining primal and sub-primal cuts of meats and applying cooking methods including dry and moist heat. Coverage of inventory, purchasing, and cost control. Sustainable Healthy cooking and dietary restrictions.

**FSD 185 (15) S****Restaurant Production 1**

Menu, design and execution pertaining to banquets and catering. Exploration of world cuisine pertaining to industry trends. Management theory and cost controls within all aspects of running a food service operation. Introduction to baking, pastries, and desserts. Advanced pasta production and risotto. Breakfast menus and practicum. Advanced charcuterie covering forcemeats, sausage making, pates, curing, and food safety. Introduction to sustainability in the kitchen.

**FSD 190 (5) S****Cost Controls**

Examines the manager's role in cost control and the relationship between operational standards and controlling costs.

**FSD 195 (15) S****Restaurant Production 2**

Menu and recipe development with food costing and sustainability. Artisan breads are covered. Advanced proteins including shellfish, seafood, and specialty meat cuts. Introduction to molecular gastronomy, preserving techniques, and food presentation. Advanced sauce making. Cost management. Advanced cheese making. Prerequisite: successful completion of FSD185

**FSD 197 (1-5) S****Internship in Culinary Arts**

Individual internship in the culinary, restaurant, banquet and other food-related industries. Prereq: Permission.

**FSD 205 (15) S****Management Practicum**

Management practicum focusing on operations of Alki Cafe. In-depth exploration of human relations, employee scheduling and wages, inventory control, menu design and implementation, advertising and marketing, sustainable food operations, and product development and licensing. Students will design a complete food truck operation, create advertising campaigns, create a retail food product with a HACCP plan, and run a virtual cafe simulation.

**FSD 210 (5) S****Intro Sustainable Food Systems**

Examines the issues and challenges in the global food system. Covers historical events impacting the current food production model, and the effects food systems have on the environment, health, and communities. Explores conventional agriculture and food safety concerns. Emphasizes the movement towards sustainable food systems. Prerequisite: Enrollment in the Culinary Arts program, or permission.

**FSD 299 (1-15) S****Special Topics in Culinary Arts**

Independent study on an individual basis in the Culinary industry. Prereq: Permission.

**Dental Assisting****DAST 110 (1) C****Introduction to Dental Assisting**

Designed to help students develop a foundation for a life-time of study skills combined with strategies for optimizing their effectiveness in the classroom setting. In addition, this course will cover the history of dentistry and the components of the dental healthcare team.

**DAST 111 (6) C****Foundations of Dental Assisting**

Students are introduced to dental biosciences with emphasis on the head, neck, and oral health sciences. The course includes dental terminology, as well as OSHA and other regulatory agency standards impacting dental practice.

**FINDING COURSES**

Course names and course prefixes are cross-referenced in an index beginning on page 227. For example:

**PREFIX TO COURSE**

HIN . . . . . Watch Technology

**COURSE TO PREFIX**

Watch Technology . . . . . HIN

Common Course Numbering explanation is on page 226.

**DAST 112 (4) C**  
**Pre - Clinical Chairside Assisting**

Designed to introduce the student to clinical and laboratory settings while applying infection control and universal precautions according to OSHA and other regulatory agencies' standards. Students will apply knowledge of dental sciences and employ preventive dentistry as well as demonstrate safe handling of sharps according to OSHA and other regulatory agencies' standards.

**DAST 113 (1) C**  
**Dental Practice Management**

Designed to introduce dental software programs that support aspects of office procedures.

**DAST 114 (2) C**  
**Preventive Dentistry**

The study of dental disease prevention, nutritional impact on oral diseases, and community dental health.

**DAST 121 (4) C**  
**Fundamentals of Chairside Procedures I**

A study of pre-clinical chairside assisting procedures. Composition, properties, procedures and safety standards related to dental materials.

**DAST 122 (7) C**  
**Clinical Chairside Procedures I**

This lab and clinical course is an introduction of basic concepts and principles of chairside dental assisting.

**DAST 123 (2) C**  
**Dental Assisting Law and Ethics**

Focuses on ethics and law in dentistry, and modeling of the American Dental Assistants Association's professional Code of Ethics.

**DAST 124 (2) C**  
**Fundamentals of Dental Imaging**

Designed to provide a foundation of the principles and application of dental radiology. Students learn about theory, safety, and application of oral radiographic techniques.

**DAST 125 (2) C**  
**Dental Imaging Laboratory**

Designed to create radiology proficiency. The student will safely expose, process, and mount dental radiographs while professionally interacting and ensuring patient ease and comfort.

**DAST 131 (3) C**  
**Fundamentals of Chairside Procedures II**

Provides the foundational knowledge to acquire the skills necessary to assist in general and dental specialty practices, including advanced dental assisting functions.

**DAST 132 (10) C**  
**Clinical Chairside Procedures II**

This lab/clinical course is designed for the student to apply chairside four-handed dentistry in a clinical setting while continuing to develop advanced dental assisting functions necessary in general and specialty practices.

**DAST 133 (2) C**  
**Professional Preparations**

Prepares the student to take the DANB for CDA certification, as well as self-market.

**DAST 140 (12) C**  
**Experiential Dental Assisting**

This final program course is designed to provide the student with the opportunity to perfect dental assisting competence through experiential practicum.

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**Dental Auxiliary,  
 Expanded Function**

**EFDA 100 (1) C**  
**Procedures I**

Reviews and reinforces the duties and skills of a dental assistant: oral hygiene instructions, radiographs, coronal polishing, fluoride treatments, and final impressions. Students perform many of these procedures under general rather than close supervision of a dentist.

**EFDA 101 (3) C**  
**Restorative Lab I**

The course requires the student to utilize and build on knowledge and skills acquired from all previous clinically and didactically related expanded functions dental auxiliary courses, including: oral anatomy, dental anatomy and morphology, dental materials, restorative dentistry procedures in order to gain proficiency in performing restorative procedures on typodonts and on patients.

**EFDA 110 (2) C**  
**Dental Coronal Anatomy**

Covers dental anatomy related to the EFDA scope of restorative practice: tooth morphology, anatomical features and function. Emphasizes coronal anatomy, occlusion, GV Black's classification of cavity preparation and basics of primary and permanent dentition.

**EFDA 111 (2) C**  
**Dental Materials and Technique**

This course is the study of the chemical, physical and mechanical properties of dental materials which will be commonly used by the EFDA. Besides materials science, selection of the appropriate material for different preventive and restorative procedures will be dealt with as well as safety measures and proper handling protocol. Basic techniques for the utilization of these materials will be introduced. With the knowledge gained in EFDA 100, this course will reinforce specific procedures.

**EFDA 200 (1) C**  
**Procedures II**

This course is a continuation of Procedures I and reviews the various duties and skills already within a dental assistant's scope of practice such as oral hygiene instruction, taking of radiographs, coronal polishing, administration of fluoride, initial and final impressions. Being connected closely with a corresponding lab component, this course allows the EFDA student to increase competency when performing many of these procedures under "general" rather than "close" supervision of a dentist.

**EFDA 201 (4) C**  
**Restorative Clinic II**

Demonstrate clinical competence on patients using the full range of basic restorative procedures, from patient management to technical skill of operating field isolation, restoration placement, and finishing.

**EFDA 202 (1) C**  
**EFDA License Exam Preparation**

Preparation for the Central Regional Dental Testing Services (CRDTS) restorative examination for licensure. The CRDTS requires the placement, carving and finishing of one anterior and one posterior class II restoration within a specific time frame at a minimum passing level. Practice written and clinical simulation tests will be administered to develop proficiency.

**EFDA 212 (1) C**  
**Ethics and Jurisprudence**

Covers the ethical, legal and regulatory issues for an EFDA in private dental offices and community settings. Includes professional traits, theories of moral development, ethical dilemmas and principles, the state dental practice act, the EFDA-patient relationship and risk management in the dental practice.

**Dental Hygiene Bachelor of Applied Science****DHY 250 (2) C**  
**Oral Biology**

Study of oral histology including developmental origins and microscopic organization of selected oral and facial structures. Includes embryonic development of the face and palate, and common craniofacial malformations. Examines the formation, eruption and histological organization of the teeth and their supporting tissues as well as the oral mucosa and salivary glands.

**DHY 251 (3) C**  
**Human Pathophysiology**

Study of human pathophysiology includes the etiology, predisposing factors, mechanisms of disease, and characteristics of the disease process in each body system. Emphasizes specific disease entities most commonly seen in the clinical dental hygiene setting or that may influence an individual's dental care.

**DHY 252 (3) C**  
**Fundamentals of Dental Hygiene I**

Examines the theory and scientific principles underlying the clinical practice of dental hygiene. Emphasis on oral screening, infection control, and professionalism.

**DHY 253 (3) C**  
**Clinical Dental Hygiene I**

Apply the theory and scientific principles underlying dental hygiene practice. Covers professionalism, clinical preparation of the examining area, safety, patient privacy, documentation, and screening techniques.

**DHY 254 (2) C**  
**Health Promotion**

Intro to dental health education, patient education, health promotion, and the process of health-related behavioral change. Emphasizes assessment of educational needs, client-provider interaction, communication skills, cultural competence in health-care delivery, and motivation to change.

**DHY 255 (2) C**  
**Dental Radiology I**

Principles of oral radiology imaging stressing the physics of x-ray production and biologic effects of ionizing radiation. Includes radiation safety and protection, dental radiographic examination, and radiographic interpretation of anatomical structures of the head and oral cavity.

**DHY 256 (2) C**  
**Dental Radiology I Practice**

Intro to dental x-ray equipment, processes and techniques. Emphasizes patient and operator safety, evaluation of technique and imaging quality, darkroom and digital operations, beginning level proficiency in exposing and analyzing intra-oral dental radiographs.

**DHY 257 (2) C**  
**Head and Neck Anatomy**

Didactic sessions teaching anatomy and function of the head and neck. Course draws on concepts taught in general anatomy and physiology classes. Students are introduced to the location, characteristics and function of all anatomical structures, including all hard and soft tissues and all components of the circulatory system and cranial nerves.

**DHY 258 (2) C**  
**Dental Anatomy & Morphology (Didactic)**

Intro to nomenclature, anatomy, morphology and functions of the primary and permanent dentition. Focuses on healthy, normal end of the health/disease continuum and provides foundation for further dental science, clinical and restorative dental hygiene practice.

**DHY 259 (1) C**  
**Dental Anatomy & Morphology (Lab)**

Apply the theory and scientific principles of specific anatomical characteristics to lab drawings and wax carving. Intro to fine hand-skills and basic instrumentation used for hygiene and restorative procedures.

**DHY 260 (1) C**  
**Emergency Management**

Introduced to the role of the dental team in the identification and treatment of medical emergencies, including prevention, patient assessment, stress reduction protocol, safe use of emergency drugs and equipment. Participate in class simulations of emergency treatment for common medical emergencies in the dental office.

**DHY 261 (2) C**  
**Preventive Dentistry**

Intro to primary prevention methods within the scope of dental hygiene practice. Emphasizes the relationship between oral disease processes and oral health preventive measures, home-care education of the patient, and methods of preventive care implemented by dental hygienists.

**DHY 300 (4) C**  
**Clinical Dental Hygiene II**

Apply the theory and scientific principles underlying dental hygiene practice. Intro to assessment of gingival and oral soft tissues, selected instrumentation, and periodontal and dental charting.

**DHY 301 (4) C**  
**Clinical Dental Hygiene III**

Apply the theory and scientific principles underlying dental hygiene practice. Intro to patient management, treatment planning, and dental hygiene treatment techniques.

**DHY 302 (8) C**  
**Clinical Dental Hygiene IV**

Apply the scientific principles underlying the assessment, planning and implementation of clinical procedures. Emphasizes biochemistry of food, nutritional counseling in dental hygiene practice and personal, professional and community issues related to HIV/AIDS.

**DHY 303 (3) C**  
**Fundamentals of Dental Hygiene II**

Examines the theory and scientific principles underlying the clinical practice of dental hygiene with emphasis on integration of screening information to formulate goals for planning dental hygiene treatment needs.

**DHY 304 (2) C**  
**Fundamentals of Dental Hygiene III**

Examines the theory and scientific principles underlying the clinical practice of dental hygiene with emphasis on principles of instrumentation, dental hygiene diagnosis, and professional development activities.

**DHY 305 (2) C**  
**Fundamentals of Dental Hygiene IV**

Focuses on the fundamental scientific principles underlying the assessment, planning and implementation of nutrition in dental hygiene. Emphasizes biochemistry of nutrients, nutritional counseling in dental hygiene practice, and personal, professional, and community issues. Prereq: Permission.

**DHY 306 (2) C**  
**Restorative Practice & Materials I (Didactic)**

This is the first of two didactic courses focusing on the physical, chemical, mechanical and biological properties of dental materials used in both direct and indirect restorative procedures.

**DHY 307 (1) C**  
**Restorative Practice & Materials I (Lab)**

Covers clinical restorative dentistry focusing on the chemical, physical, mechanical properties of commonly used dental materials and their uses, manipulation and application. Learn to handle and manipulate different types of restorative filling materials into prepared cavities.

**DHY 308 (2) C**  
**Restorative Practice & Materials Theory II**

This is the second and final didactic course focusing on the physical, mechanical, chemical and biological properties of dental materials commonly used in direct and indirect restorative procedures, and basic knowledge in materials used in preventive, periodontics, restorative and other specialty fields in dentistry.

**DHY 309 (1) C**  
**Restorative Practice & Materials II**

This is the second lab course focusing on the physical, mechanical, chemical and biological properties of dental materials commonly used in direct and indirect restorative procedures, and basic knowledge in materials used in preventive, periodontics, restorative and other specialty fields in dentistry.

**DHY 310 (2) C**  
**Advanced Restorative Practice I**

Covers restorative dental practice and materials, focusing on correct placement of dental restorations on mannequins and in the clinic on patients. Practice and develop manipulative and carving skills in the placement of amalgam and composite restorations as allowed by Washington State law.

**DHY 311 (2) C**  
**Pain Control Anesthesia**

Theory of pain control in dental hygiene and restorative dentistry including nitrous oxide administration, topical anesthesia, and nerve block, field and infiltration local anesthesia applications.

**DHY 312 (2) C**  
**Pain Control Anesthesia Practice**

Practice of pain control in dental hygiene and restorative dentistry including nitrous oxide administration, topical anesthesia, and nerve block, field and infiltration local anesthesia applications.

**DHY 313 (3) C**  
**Periodontology I**

Examines periodontal structures of the mouth from health to disease including clinical and histological aspects of periodontal disease. Includes various classifications of periodontal diseases, and disease progression as it relates to microbiology, etiology, and host response. Learn techniques of periodontal therapy using adjunctive chemotherapeutic agents and oral hygiene aids.

**DHY 314 (2) C**  
**Dental Radiology II**

Study of dental radiology including the principles and application of a full range of intra-oral, extra-oral, digital and film radiographic examinations, advanced interpretation for diagnosis of dental anatomy, trauma, lesions, caries and pathology.

**DHY 315 (1) C**  
**Dental Radiology II Practice**

Learn application of basic radiographic examination techniques for dental patients stressing adaptation of techniques, consideration of presenting problems, variations of normal, supplemental radiographic procedures, analysis of outcomes, and advanced interpretation of diagnostic information.

**DHY 318 (2) C**  
**Oral Pathology**

Study lesions, pathologies, and abnormal conditions of the head, neck and oral cavity of significance in the clinical practice of dental hygiene

**DHY 323 (3) C**  
**Pharmacology**

Study the general pharmacological and therapeutic actions of drugs with emphasis on those used in dentistry. Includes nomenclature, dosage, routes of administration, drug interactions, drug effects on the oral cavity, indications, contraindications, factors in patient treatment planning and legal factors involved in dispensing.

**DHY 382 (1-8) C**  
**Applied Practicum in Dental Hygiene**

Applied practice in dental hygiene to meet the individual needs of students who require additional practice and reinforcement of techniques and skills in dental hygiene.

**DHY 384 (1-8) C**  
**Applied Practicum in Dental Hygiene**

Applied practice in dental hygiene to meet the individual needs of students who require additional practice and reinforcement of techniques and skills in dental hygiene.

**DHY 391 (2) C**  
**Community Dental Health I**

Introduction to public dental health. Presents strategies to improve oral health outcomes through evidence-based research techniques, planning, and implementation of public health program models. Provides a foundation for a group community oral health project. Emphasis on community needs assessment and choosing a target population.

**DHY 400 (8) C**  
**Advanced Practicum in Dental Hygiene I**

Supervised clinical experiences with patient care involving the assessment, planning, implementation, and evaluation of clinical procedures in dental hygiene.

**DHY 401 (8) C**  
**Advanced Practicum in Dental Hygiene II**

Supervised clinical experiences with patient care involving the assessment, planning, implementation, and evaluation of clinical procedures in dental hygiene.

**DHY 402 (8) C****Advanced Practicum in Dental Hygiene III**

Supervised clinical experiences with patient care involving the assessment, planning, implementation, and evaluation of clinical procedures in dental hygiene.

**DHY 404 (3) C****Principles of Dental Hygiene Practice I**

This course focuses on the scientific principles underlying the assessment, planning and implementation of clinical procedures in dental hygiene. This course emphasizes higher level concepts needed for successful board certification and national examinations.

**DHY 405 (2) C****Principles of Dental Hygiene Practice II**

This course focuses on the scientific principles underlying the assessment, planning and implementation of clinical procedures in dental hygiene. This course emphasizes higher level concepts needed for successful board certification and national examinations.

**DHY 406 (1) C****Principles of Dental Hygiene Practice III**

This course focuses on the scientific principles underlying the assessment, planning and implementation of clinical procedures in dental hygiene. This course emphasizes higher level concepts needed for successful board certification and national examinations. Course pre- and co-requisite: enrollment into the dental hygiene program.

**DHY 407 (1) C****Strategies of Capstone Project**

This course is an introduction to a culminating educational experience whereby students have the opportunity to demonstrate mastery of learning in the field of dental hygiene. The course integrates experiential learning, coursework knowledge, clinical application, self-analysis along with strategies for completion and presentation of a Capstone project.

**DHY 408 (1) C****Capstone**

This course concludes the culminating educational experience whereby students have the opportunity to demonstrate mastery of learning in the field of dental hygiene. The course integrates experiential learning, program coursework knowledge, clinical application, self-analysis allowing the student to integrate and evaluate their overall educational experience.

**DHY 409 (2) C****Ethics and Jurisprudence**

Focuses on the ethical, legal and regulatory issues facing the dental hygienist practicing in a private dental office, in a community agency, or in independent practice. Examines professional traits, theories of moral development, ethical principles, the state dental practice act, the relationship with patients and employers, and risk management.

**DHY 410 (2) C****Advanced Restorative Practice II**

Focuses on correct placement of dental restorations on mannequins and in the clinic on patients. Students practice and develop manipulative and carving skills in the placement of amalgam and composite restorations as allowed by Washington State law.

**DHY 411 (2) C****Advanced Restorative Practice III**

Focuses on correct placement of dental restorations on mannequins and in the clinic on patients. Students practice and develop manipulative and carving skills in the placement of amalgam and composite restorations as allowed by Washington State law.

**DHY 412 (2) C****Advanced Restorative Practice IV**

Focuses on correct placement of dental restorations on mannequins and in the clinic on patients. Students practice and develop manipulative and carving skills in the placement of amalgam and composite restorations as allowed by Washington State law.

**DHY 413 (2) C****Periodontology II**

Study of advanced periodontal diseases, including cause, recognition, prevention, and treatment planning. In addition, this course covers periodontal surgery and implant care. Reviews periodontal concepts through case studies.

**DHY 414 (1) C****Selective Populations**

Introduction to etiologies, signs and symptoms, prognoses, medications, and oral healthcare strategies to optimize oral health outcomes for patients with selective medical conditions.

**DHY 415 (1) C****Selective Populations Practice**

This course consists of various laboratory externships through existing community organization affiliate agreements which provide supervised student experiences. Students will adapt the Dental Hygiene Process of Care for medically compromised high-risk patients to optimize oral health outcomes and provide caregiver oral health education as appropriate.

**DHY 416 (1) C****Professional Issues**

This course will explore issues encountered in a variety of dental hygiene employment settings including resume preparation, interview success techniques, malpractice insurance, employment contract negotiation, conduct and professional licensure, fundamentals of dental practice business concepts, employment team concepts, personal practice philosophy development, and the creation of a personal professional development plan.

**DHY 419 (2) C****Community Dental Health II**

This course is the study of public and community health methodologies in oral disease prevention and program development. Students will establish contact with populations to develop presentations targeted to a specific demographic as a community health program or project. Students will learn the basics of research including data collection, dental indices application, biostatistics utilization, and program evaluation.

**DHY 420 (1) C****Community Dental Health III**

This course is the advanced study of public and community health methodologies in oral disease prevention and program development. Students will present an oral health program to target populations addressing a specific need and demonstrate research methodologies including data collection, dental indices application, biostatistics utilization, and program evaluation.

**DHY 482 (1-8) C****Applied Practicum in Dental Hygiene**

Applied practice in dental hygiene to meet the individual needs of students who require additional practice and reinforcement of techniques and skills in dental hygiene.

**FINDING COURSES**

Course names and course prefixes are cross-referenced in an index beginning on page 227. For example:

**PREFIX TO COURSE**

HIN ..... Watch Technology

**COURSE TO PREFIX**

Watch Technology ..... HIN

Common Course Numbering explanation is on page 226.

**Diesel and Heavy Equipment****HDM 100 (8) S  
Preventive Maintenance and Inspection**

This course focuses on skills required by the National Automotive Technicians Education Foundation (NATEF) including safety procedures compliant with OSHA regulations, hand tools, power tools, measuring tools, and equipment used in the repair of both trucks and equipment in the heavy duty diesel mechanic industry. Inspection and maintenance are also a major part of this course. Prereqs: MVM 101, BUS 159, HDM 171, MAT 110. Coreq: HDM 105.

**HDM 110 (8) S  
Introduction to Electrical**

This course introduces students to skills necessary for the National Automotive Technicians Education Foundation (NATEF) certification including electrical theory, diagnosing electrical system problems, removal, repair and installation of electrical components from vehicles. The function and construction of each component, diagnosis and service procedures will be covered.

**HDM 115 (8) S  
Advanced Electrical**

Building on the introductory course, students will focus independently on electrical theory, data scan tools, and diagnosing electrical and electronic system problems including truck accessories necessary for NATEF certification. The function and construction of each component, and diagnosis and service procedures will be covered. Prereqs: MVM 101, BUS 159, HDM 171, MAT 110 with a 2.0 or higher or by instructor permission. Coreq: HDM 110.

**HDM 120 (8) S  
Tires, Alignment, Steering and Suspension**

This course will cover diagnostic theory, systems problems and evaluations, removal, repair and installation of tires, alignment, steering and suspension components of heavy duty diesel vehicles to meet NATEF certification. Prereqs: MVM 101, BUS 159, HDM 171, MAT 110 with a 2.0 or higher or by instructor permission. Coreq: HDM 125.

**HDM 125 (8) S  
Hydraulic and Air Brakes**

Contents of this course include: diagnostic theory; systems problems and evaluation, removal, repair and installation of hydraulic, air brake and ABS components from vehicles to meet NATEF certification. The function and construction of each component, and their diagnosis and service procedures will be covered.

**HDM 130 (8) S  
Hydraulics & Pneumatics**

This course will focus on theory, systems problems and evaluation, reading and reviewing diagrams, and removal, repair and installation of hydraulic and pneumatic components of heavy duty diesel vehicles to meet NATEF certification. The function and construction of each component, and their diagnosis and service procedures will be covered.

**HDM 135 (8) S  
Drive Train**

Contents include: Theory, diagnosing system problems and evaluation, and removal, repair and installation of heavy duty diesel drive train components from vehicles to meet NATEF certification. The function and construction of each component, and their diagnosis and service procedures will be covered.

**HDM 140 (8) S  
Heating, Ventilation and Air Conditioning**

This course focuses on theory, diagnosing system problems and evaluation, and removal, repair and installation of heating, ventilation and air conditioning (HVAC) components from vehicles to meet NATEF certification. The function and construction of each component, and their diagnosis and service procedures will be covered.

**HDM 145 (8) S  
Gasoline Engines**

This course focuses on theory, diagnosing system problems and evaluation, and removal, repair and installation of gasoline engine components from vehicles to meet ASE standards. The function and construction of each component, and diagnosis and service procedures will be covered.

**HDM 150 (8) S  
Diesel Engine Diagnos/Remove and Replace**

Contents of this course include: Diesel engine theory, diagnosing system problems and evaluation, and removal and installation of a diesel engine from a vehicles to meet NATEF certification. The function and construction of each component, and their diagnosis and service procedures will be covered.

**HDM 155 (8) S  
Diesel Engine Rebuild**

This course covers advanced theory, diagnosing systems problems and evaluation, and the rebuilding of a diesel engine to meet NATEF certification. The advanced function and construction of each component, and their diagnosis and service procedures will be covered.

**HDM 171 (2) S  
Lift Truck Operator**

Learn current regulations and practical fork lift operation in order to obtain a lift truck operator's safety certification card.

**HDM 197 (1-7) S  
Internship - Heavy Duty Diesel**

Gain experience and practice with mechanical repair procedures and skills performed regularly on the job site. Tasks, skills content, format and projects vary depending on the job site. Prereq: Permission.

**Drama****DRMA& 101 (5) C  
Introduction to Theatre**

Intro to theatrical experience through play analysis, acting, directing, critique, stage and costume design, with emphasis on theatre as a performance art.

**DRMA 105 (5) S****Introduction to World Theater**

Intro to theatrical practices from different cultures. Analyze scripts, videotapes and live performances through theoretical, cultural, and historical readings. Examine how the performance or script reflects on the culture that produced it. Relate current theatrical practices to the larger global society.

**DRMA 108 (1-5) C****Rehearsal and Performance**

Participation in rehearsal and performance process culminating in performance. Audition or instructor permission.

**DRMA 121 (5) C****Acting**

Theory and practice of acting fundamentals. Exercises in voice, movement, observation, imagination and script analysis. Culminates in scene study, production and performance process.

**DRMA 122 (5) C****Acting**

Continuation of DRMA 121 with emphasis on characterization and further scene study. May culminate in public performances.

**DRMA 123 (5) C****Acting**

Continuation of DRMA 122 with further emphasis on scene study, critical analysis and scoring scripts. May culminate in public performances.

**DRMA 125 (5) S****20/21st Century U.S. Theater & Race**

Course explores the cultural, critical, and artistic works of Native American, Black, Arab American, Asian American, and Latinx theater artists/performers from the 20/21st centuries. Course considers the socio-historical, aesthetic, and political contexts engaged through these artists' works. Course explores the relationship between the construction of identity and strategies of performance to describe race, gender, sexuality, class, subjectivity, and ideas of belonging in the U.S. imagination.

**DRMA 131 (5) C****Introduction to Technical Theater**

Intro to the technical aspects of theatre: lights, sets, props and sound. Learn how these areas are created and managed and how each impacts a production. Work on the technical aspects of mainstage productions.

**DRMA 140 (5) C****Technical Theatre Skills I**

An introduction to technical theater artistic skills. Explores design, tools, language, rehearsal processes, and specializations within technical theater as an artistic profession. Students attend local theater rehearsals (e.g., Intiman Theater) to witness the work of technical theater professionals. First of two skills classes for the Tech Theater for Social Justice AA-DTA emphasis

**DRMA 141 (5) C****Tech Theatre Skills II**

Second of two skills classes for the Technical Theatre for Social Justice emphasis. Focus on technical skills needed to work as apprentices on Intiman Theatre mainstage shows. Students select a technical theatre focus area and receive hands-on training from Intiman's expert technicians and local IATSE members while exploring how backstage storytelling relates to social justice issues.

**DRMA 197 (2) C****Work Experience-Technical Theatre**

Integrates educational studies with supervised work/internship experience. Provides individualized opportunities to apply classroom theory and knowledge/skills in the workplace. Includes developing learning outcomes related to work experience, and monitoring achievement through self-evaluation and faculty and supervisor evaluations.

**DRMA 298 (1-5) C****Individual Projects in Theater**

Individual projects in set design, lighting, costuming, directing, house management and acting, as determined by advanced drama students and the drama faculty.

**Early Childhood & Family Studies Bachelor of Applied Science****ECE 305 (3) N**  
**Early Childhood Education Approaches and History**

This course examines changes in early care and education over time; including social, political and societal trends. Current local, state, national and global trends will be compared and critiqued. Using a historical approach, students will analyze key influences in the field and reflect upon the diversity embedded in this field. Students will observe and differentiate between models of early care and education, and develop a personal teaching philosophy.

**ECE 310 (5) N**  
**Cognition and General Knowledge**

This course focuses on using learning theory and key concepts of cognition development in young children to design math/science curriculum. Students will describe how learning occurs for young children and critique learning theory. They will learn to apply learning theory to their instruction, and design strategies to teach math and science content based on the understanding of cognition and state guidelines for early learning. Prerequisite: Entry into the BAS program.

**ECE 315 (5) N**  
**Language, Literacy and Communication**

Examines methods of communication for children aged 0-8 years. Covers the development of communication skills and foundations of language and literacy. Using developmentally appropriate practice, students design and implement strategies to promote development of language, literacy and communication skills in an early learning setting. Includes analysis of approaches to instruction, development of curriculum and assessment of communication abilities. Prerequisite: Admission into ECE.



**ECE 320 (3) N****Creative Expression**

Students will analyze the meaning of creativity using music, art, movement, and imaginative play to promote development across domains (physical, cognitive, social-emotional). Students will examine different approaches to creativity, design curriculum incorporating creativity and demonstrate developmentally appropriate practices supporting creativity in the classroom. Prerequisite: entry into the ECE BAS program.

**ECE 350 (4) N****Practicum: Interactions**

Students will analyze the meaning of creativity using music, art, movement, and imaginative play to promote development across domains (physical, cognitive, social-emotional). Students will examine different approaches to creativity, design curriculum incorporating creativity and demonstrate developmentally appropriate practices supporting creativity in the classroom. Prerequisite: entry into the ECE BAS program.

**ECE 355 (5) N****Anti-Bias Education**

Explore equity issues in early childhood education and reflect on biases present in ourselves, communities of practice and the systems in which our children live. Includes study of embedded bias and its impact on identity development and strategies to counter structural bias. Prerequisite: Entry into the ECE BAS program.

**ECE 405 (3) N****Partnership and Collaboration in ECE**

Examines the impact of family and community on child development. Using the ecological theory, students will integrate family and community into an early learning program and demonstrate culturally responsive interactions with others. Explores the demographics of our communities and design and implementation strategies for partnership and collaboration with family and community organizations that support child development.

**ECE 410 (4) N****Inclusive Early Childhood Education**

Examines models of inclusion in early learning settings across age groups. Covers the process for early identification of children with special needs and the development of strategies for providing appropriate education to a variety of learners (including children with disabilities, dual language learners, and children undergoing adverse childhood experiences). Compliance with state law and policy is included.

**ECE 415 (3) N****Children and Media**

Examines appropriate use of media and technology in early learning settings. Explores various perspectives on using electronic media (computers, tablets, television, etc.) in early childhood programs using current research and recommendations. Policies on classroom use of media/instructional technology and strategies for communication of policies to families are included.

**ECE 420 (5) N****Social and Emotional Foundations Early Learning**

Explores the dimensions of social and emotional development in children birth-8 and the relationship between social and emotional development and behavior. Students develop and apply strategies to support positive social and emotional development and demonstrate competency in teaching practice that promote positive behavior in early learning settings. Prereq: Entry into the ECE BAS program.

**ECE 430 (3) N****Linguistically Diverse Learners**

Focuses on the language, literacy and communication skills of children who are dual language learners, ages birth through 8. Assessment and instruction strategies applied to early learning settings. Emphasis is placed on identifying, strengthening and building upon the family and community connections of young children who are dual language learners. Prerequisite: Entry into the ECE BAS program.

**ECE 450 (5) N****Child Development and Assessment**

Examines child development holistically and across physical, cognitive social and emotional domains. Includes the importance of play in child development. Covers planning and preparing an effective system of ongoing assessment to support child development and the appropriate use of screening and assessment tools. Prereq: Entry into the ECE BAS program.

**ECE 480 (5) N****Leadership and Professional Community**

Examine the professionalization of the early care and education field. We will identify professional organizations and examine how they support children, families and early care and education professionals. We will look at national, state and local standard development and implementation as well as address the importance of advocacy for vulnerable populations. We will explore and contribute to professional development in a variety of formats in the ECE field. Prerequisite: Entry into the ECE BAS program.

**ECE 490 (5) N****Capstone**

The culminating course in the Early Childhood Education BAS. Students will use an inquiry approach to research a specific area for improvement, and design and implement significant change in an educational setting. Students will reflect upon previous coursework, research and teaching practice to produce a culminating document that will include a revised teaching philosophy.

**ECED& 105 (5) C|N****Introduction to Early Childhood Education**

Explore the foundations of early childhood education. Examine theories defining the field, issues and trends, best practices, and program models. Observe children, professionals, and programs in action. Students are required to work or volunteer directly with children.

**ECED& 107 (5) C|N****Health, Safety, and Nutrition**

Develop knowledge and skills to ensure good health, nutrition, and safety of children in group care and education programs. Recognize the signs of abuse and neglect, learn about responsibilities for mandated reporting, and learn about available community resources. This course requires students to work or volunteer directly with children outside of class time.

**ECED& 120 (2) C|N**  
**Practicum: Nurturing Relationships**

In an early learning setting, students will engage in establishing nurturing, supportive relationships with all children and professional peers. Focus on children's health & safety, promoting growth & development, and creating a culturally responsive environment. This course requires students to spend time in an early learning setting outside of class.

**ECED& 132 (3) N**  
**Infants and Toddlers**

Examine the unique developmental needs of infants & toddlers. Study the role of the caregiver, relationships with families, developmentally appropriate practices, nurturing environments for infants and toddlers, and culturally retentive care. Work/volunteer directly with children outside of class time.

**ECED& 134 (3) N**  
**Family Child Care**

Learn how to manage a family child care program. Topics include: licensing requirements, record-keeping, relationship building, communication strategies, guiding behavior, and promoting growth and development. Students must spend time in an early learning setting outside of class.

**ECED& 137 (3) N**  
**Outdoor Learning for Young Children**

This course is an exploration of nature-based, outdoor learning experiences for all young children. Students will identify the benefits of outdoor learning for children, learn about the teacher's role in supporting learning in the outdoor learning environment, consider adult comfort levels with outdoor experiences, and examine risk-taking as a part of learning.

**ECED& 139 (3) N**  
**Administration**

Develop administrative skills required to develop, open, operate, manage, and assess early childhood education and care programs. Explore techniques and resources available for Washington State licensing and National Association for the Education of Young Children (NAEYC) standard compliance.

**ECED& 160 (5) C|N**  
**Curriculum Development**

Investigate learning theory, program planning, tools and methods for curriculum development promoting language, fine/gross motor, social-emotional, cognitive and creative skills and growth in children birth through age 8 utilizing developmentally appropriate and culturally responsive practice.

**ECED& 170 (3) C|N**  
**Environments-Young Child**

This class focuses on the adult's role in designing, evaluating, and improving indoor and outdoor environments that ensure quality learning and nurturing experiences, and optimize the development of young children. This course requires the student to directly work/volunteer with children.

**ECED& 180 (3) C|N**  
**Language and Literacy Development**

Teaching strategies for language acquisition and literacy skill development are examined at each developmental stage (birth-age 8) through the four interrelated areas of speaking, listening, writing, and reading. This course requires the student to directly work/volunteer with children.

**ECED& 190 (3) C|N**  
**Observing and Assessment**

Collect and record observation and assessment data in order to plan for and support the child, the family, the group, and the community. Practice reflection techniques, summarizing conclusions, and communicating findings.

**ECED 102 (2) N**  
**Technology in Early Childhood Education**

Students will identify culturally responsive and developmentally appropriate classroom technology in early childhood classrooms. Students will identify technology systems and tools that early learning programs are required to use including MERIT, Electronic Attendance System and online training portals. Students will learn how to use Microsoft Office and evaluate various perspectives on using electronic media (computers, tablets, television, cellphones, etc.) in early childhood education.

**ECED 121 (4) C**  
**Practicum: Nurturing Relationships II**

This is the second of three field practicum classes. Apply best practices for engaging in nurturing relationships with children in an early learning setting. Focus on keeping children healthy and safe while promoting growth and development.

**ECED 122 (4) C**  
**Practicum: Nurturing Relationships III**

This is the third of three field practicum classes. Apply best practices for engaging in nurturing relationships with children in an early learning setting. Focus on keeping children healthy and safe while promoting growth and development.

**ECED 250 (5) N**  
**Infant/Toddler Mental Health**

This course examines the dynamics of infant and toddler mental health development including attachment, trauma, toxic stress and lasting impacts of childhood experiences. Students will identify protective and risk factors for mental health in children from prenatal - 3 years of age. We will compare screening, and collaborative treatment strategies.

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**Early Childhood & Family Studies****CFS 263 (3) C**  
**Children with Disabilities**

Focuses on the social, emotional, physical, legal, historical and environmental issues which may affect children and youth with disabilities and their families. Explores strategies for supporting an inclusive learning environment for children, youth, and families.

**ECED& 105 (5) C|N**  
**Introduction to Early Childhood Education**

Explore the foundations of early childhood education. Examine theories defining the field, issues and trends, best practices, and program models. Observe children, professionals, and programs in action. Students are required to work or volunteer directly with children.

**FINDING COURSES**

Course names and course prefixes are cross-referenced in an index beginning on page 227. For example:

**PREFIX TO COURSE**

HIN . . . . . Watch Technology

**COURSE TO PREFIX**

Watch Technology . . . . . HIN

Common Course Numbering explanation is on page 226.

**ECED& 107 (5) C|N**  
**Health, Safety, and Nutrition**

Develop knowledge and skills to ensure good health, nutrition, and safety of children in group care and education programs. Recognize the signs of abuse and neglect, learn about responsibilities for mandated reporting, and learn about available community resources. This course requires students to work or volunteer directly with children outside of class time.

**ECED& 120 (2) C|N**  
**Practicum: Nurturing Relationships**

In an early learning setting, students will engage in establishing nurturing, supportive relationships with all children and professional peers. Focus on children's health & safety, promoting growth & development, and creating a culturally responsive environment. This course requires students to spend time in an early learning setting outside of class.

**ECED& 132 (3) N**  
**Infants and Toddlers**

Examine the unique developmental needs of infants & toddlers. Study the role of the caregiver, relationships with families, developmentally appropriate practices, nurturing environments for infants and toddlers, and culturally retentive care. Work/volunteer directly with children outside of class time.

**ECED& 134 (3) N**  
**Family Child Care**

Learn how to manage a family child care program. Topics include: licensing requirements, record-keeping, relationship building, communication strategies, guiding behavior, and promoting growth and development. Students must spend time in an early learning setting outside of class.

**ECED& 137 (3) N**  
**Outdoor Learning for Young Children**

This course is an exploration of nature-based, outdoor learning experiences for all young children. Students will identify the benefits of outdoor learning for children, learn about the teacher's role in supporting learning in the outdoor learning environment, consider adult comfort levels with outdoor experiences, and examine risk-taking as a part of learning.

**ECED& 139 (3) N**  
**Administration**

Develop administrative skills required to develop, open, operate, manage, and assess early childhood education and care programs. Explore techniques and resources available for Washington State licensing and National Association for the Education of Young Children (NAEYC) standard compliance.

**ECED& 160 (5) C|N**  
**Curriculum Development**

Investigate learning theory, program planning, tools and methods for curriculum development promoting language, fine/gross motor, social-emotional, cognitive and creative skills and growth in children birth through age 8 utilizing developmentally appropriate and culturally responsive practice.

**ECED& 170 (3) C|N**  
**Environments-Young Child**

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**Language and Literacy Development**

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**ECED& 190 (3) C|N**  
**Observing and Assessment**

Collect and record observation and assessment data in order to plan for and support the child, the family, the group, and the community. Practice reflection techniques, summarizing conclusions, and communicating findings.

**ECED 102 (2) N**  
**Technology in Early Childhood Education**

Students will identify culturally responsive and developmentally appropriate classroom technology in early childhood classrooms. Students will identify technology systems and tools that early learning programs are required to use including MERIT, Electronic Attendance System and online training portals. Students will learn how to use Microsoft Office and evaluate various perspectives on using electronic media (computers, tablets, television, cellphones, etc.) in early childhood education.

**ECED 121 (4) C**  
**Practicum: Nurturing Relationships II**

This is the second of three field practicum classes. Apply best practices for engaging in nurturing relationships with children in an early learning setting. Focus on keeping children healthy and safe while promoting growth and development.

**ECED 122 (4) C**  
**Practicum: Nurturing Relationships III**

This is the third of three field practicum classes. Apply best practices for engaging in nurturing relationships with children in an early learning setting. Focus on keeping children healthy and safe while promoting growth and development.

**ECED 250 (5) N**  
**Infant/Toddler Mental Health**

This course examines the dynamics of infant and toddler mental health development including attachment, trauma, toxic stress and lasting impacts of childhood experiences. Students will identify protective and risk factors for mental health in children from prenatal - 3 years of age. We will compare screening, and collaborative treatment strategies.

## Early Childhood Education

**CCE 195 (3) N**

### Art for Young Children

Paint, draw and use clay to discover personal expression. After exploring these media themselves, class members review the components providing art experiences to young children, 3 to 8 years old. Class members conduct a series of art classes for children to practice facilitating children's self-expression in these fundamental art media. Students enrolling in this course should have access to early childhood settings and preschool-aged children. Observations of children and their environments is a requirement of the ECE Curriculum.

**CCE 200 (3) N**

### Children and Nature

Discover the joys of connecting young children with nature. Nature influences social skills, enhances learning, fuels imagination, instills a reverence for the environment and helps children with sensory integration deficit.

**CCE 240 (3) N**

### Multicultural Dialogues in Early Childhood Education

Examines the concept of multiculturalism and how it relates to the ECE classroom. Through dialogues, readings and projects, students assess their beliefs, teaching environment and style in order to identify changes and promote respect for differences that accompany children and families.

**CCE 261 (1-6) N**

### Readings in Early Childhood Education

Individualized program of study relating to specific problem or content area under faculty supervision. Credits based on work accomplished. Prereq: Permission.

## Economics

**ECON& 201 (5) C|N|S**

### Micro Economics

Covers the concepts of production, consumption and distribution with emphasis on price determination, production costs and market structures. Application of economic reasoning to public issues and business.

**ECON& 202 (5) C|N|S**

### Macro Economics

Intro to the macroeconomic measures in the economy: GDP, unemployment and inflation. Examines monetary and fiscal policies and their effects on the interest rate and inflation. Covers economic growth and business cycles.

**ECON 100 (5) C|N**

### Survey of Economics

Examines basic principles of economics, determination of national prosperity, income distribution, the role of government, price determination, allocation of resources, economic systems and market behavior.

## Education

**EDUC& 115 (5) C|N**

### Child Development

Builds a foundation for explaining how children develop in all domains, from conception through early adolescence. Explores various developmental theories, methods for documenting growth, and impact of brain development. Topics and issues addressed: include stress, trauma, culture, race, gender identity, socioeconomic status, family status, language, and health.

**EDUC& 130 (3) C|N**

### Guiding Behavior

Examines the principles and theories that promote social competence in young children and create safe learning environments. Develops skills that promote effective interactions, provide positive individual guidance, and enhance group experiences. Includes working/volunteering directly with children.

**EDUC& 136 (3) C|N**

### School-Age Care

Develop skills to provide developmentally appropriate and culturally relevant activities and care, such as preparing the environment, implementing curriculum, building relationships, guiding academic/social skill development, and developing community outreach. Work/volunteer directly with children outside of class.

**EDUC& 150 (3) C|N**

### Child Family and Community

Develop understanding about the family and community contexts in which a child develops. Explore cultures and demographics of families in society, community resources, strategies for involving families in the education of their child, and tools for effective communication. This course requires the student to directly work/volunteer with children outside of class time.

**EDUC& 202 (5) C**

### Introduction to Education

Intro to the Elementary Education profession. Overview of the education profession and U.S. educational system, including historical development, social foundations, and diversity of educational institutions. Focus on the K-8 system. Includes current theories, trends and issues in education and the community, roles and responsibilities of teachers, learners, and other school personnel.

**EDUC& 203 (3) N**

### Exceptional Child

Formerly CCE 113 Human Exceptionalities) Requirement for Early Childhood Education degree. This course emphasizes diversity and a value-based approach to human exceptionality and disability using a lifespan view. An historical perspective covers current trends and practices in early intervention, special and general education, and life-long supports for individuals with disabilities and their families. For questions contact the Health and Human Services Division at (206) 934-3783.

**EDUC& 205 (5) C**

### Introduction to Education with Field Experience

Intro to K-12 education. Explores the complexity and dynamics of today's K-12 education environment. Includes suggestions for all-inclusive teaching methods geared toward the increasingly diverse multi-ethnic, multi-cultural and multi-lingual student population. Covers the new federal education bill, as well as the state of Washington student learning goals including the Essential Academic Learning Requirements (EALRS) for student learning.

**EDUC& 230 (5) C****The Democratic Classroom**

Develop guidance and classroom management skills based on current research and best practices that support positive development for children including mutually respectful methods of communication, prevention strategies, problem solving, conflict resolution, and ethical interactions.

**EDUC 197 (1-5) C****Work Experience-Education**

Integrates educational studies with supervised work/internship experience. Provides individualized opportunities to apply education knowledge and skills in the workplace. Includes developing work experience learning outcomes and monitoring achievement through self-evaluation and faculty and supervisor evaluations.

**EDUC 198 (1-5) C****Work Experience-Education**

Integrates educational studies with continued supervised work/internship experience. Provides individualized opportunities to apply knowledge and skills in the workplace, and to continue practicing and updating skills gained in EDUC197. Includes updating previous work experience learning outcomes and continuing to monitor achievement through self-evaluation and faculty and supervisor evaluations

**EDUC 199 (1-5) C****Work Experience-Education**

Integrates educational studies with continued supervised work/internship experience. Provides individualized opportunities to apply knowledge and skills in the workplace, and to continue practicing and updating skills gained in EDUC198. Includes updating previous work experience learning outcomes and continuing to monitor achievement through self-evaluation and faculty and supervisor evaluations.

**EDUC 200 (1-5) C****Peer Tutoring**

Tutor training and/or experience. Focus on tutoring techniques and problems in any setting. For more information contact Division offices in Humanities, Math & Science, Allied Health, Business, or Education on your campus.

**EDUC 219 (5) N****Practicum: Instructional Interactions**

This is the second practicum course in the early childhood education program. In an early learning setting, students will apply developmentally appropriate practices to engage in supportive relationships and instructional interactions with children. Focus on positive interactions that promote child outcomes across early learning domains. Requires the student to directly work/volunteer with children.

**EDUC 222 (5) N****MATH and Science Methods in ECE**

Explores the development of math and science concepts in young children. Methods for supporting key foundational skills in math, science and cognition will be researched and applied to early learning settings. Culturally and developmentally appropriate assessment techniques will be discussed and practiced. Focus on promoting positive math and science identities, particularly for traditionally underrepresented groups in STEM fields.

**EDUC 234 (3) N****Relationship Based Peer Mentoring in ECE**

This course examines the foundations of relationship based peer mentoring in early care and education settings. Students will discuss and apply best practices in relationship based adult learning, communication, cultural responsiveness, reflective practice, ethics and professionalism.

**EDUC 260 (5) N****Trauma Informed Care in ECE**

This is an introduction to trauma-informed care. We will define and describe trauma and reflect on its impact on children's behavior, their families, and our community. Curriculum examines types of traumas, how they are present in young children and their families, and strategies for building resilience. We will learn how to practice trauma-informed care and self-care strategies in ECE classrooms. Some content referenced in this class may be triggering, active self-care is strongly encouraged.

**EDUC 271 (5) C****ESL Reading/Language Arts**

Learn methods of assessment, placement and instruction of ESL students in reading and language arts. Focuses on instructional techniques for the literacy level and age of the ESL student and on integration of reading and language arts.

**EDUC 272 (5) C****Integrating ESL in the Mainstream Classroom**

Specifically for the teacher with bilingual and monolingual students in the same classroom. Overview of current theories of language acquisition with a focus on practical instructional strategies. Covers a wide repertoire of strategies drawn from bilingual, ESL and mainstream methodologies.

**EDUC 291 (1-10) C****Using the World as a Classroom**

Provides a unique opportunity to earn credit for various travel/study experiences in an international setting.

**Electronics****EET 105 (2) N****Introduction to Technology**

Survey disciplines within the field of electronics and technologies related to electronic occupations to give students a knowledge of the standards, practices and skills necessary for employment in electronic-related occupations. Guest speakers, field visits, reading, media or general discussion with class members. Computer Fee.

**EET 106 (1) N****Introduction to Soldering**

Beginning electronics support course providing the student with information and skills to safely perform soldering tasks in the field. The student will acquire skills to remove components and replace them without causing damage to either the component or the Printed Circuit Boards (PCB's). The student will learn the techniques to select the proper solder, soldering aids, tools, and other associated test equipment. Prerequisite: EET 160 or EET 161 or instructor permission.

**EET 107 (5) N****Introduction to Aviation Electronics**

Presents an overview of aviation electronics and the instrumentation commonly found in commercial aviation. Includes an introduction to schematic reading, OSHA/FAA/Basic electrical safety, tools and basic connectors, plugs, cables and wiring, shielding. Prerequisite: EET 162 or instructor permission to take EET 162 concurrently during the same quarter.

**EET 108 (5) N**

**Introduction to Fiber Optics**

Introduces fiber optics theory and maintenance as applied to Information Technology, Aerospace, Broadband and generic use. Emphasis on hands on labs using industry standard diagnostic test equipment, safety, routing, installation, cleaning, measurement, and inspection processes. Prepare for FOA certification. Prerequisites: Math 081 or placement into Math 084 or instructor permission. Computer Fee.

**EET 109 (5) N**

**Mathematical Applications for Circuit Analysis**

This is an overview of basic mathematical applications for electronic circuit analysis. Includes fundamental concepts of operations with numbers, the metric system, fundamental algebraic concepts, graphing, exponential and logarithmic functions, right triangles, basic trigonometric functions, vectors and complex numbers. Prerequisite: MATH 081 or equivalent.

**EET 112 (5) N**

**Fundamentals of Fluid Power**

Introduction to fluid power systems used in industry. Covers fundamentals of hydraulic and pneumatic systems including fluid power components and schematic diagrams. Includes electrical/electronic control of fluid power systems and information on several electro-hydraulic servo systems. Prereq. EET 109 or MATH& 141 or higher.

**EET 114 (5) N**

**Applied Physics**

Physics for students in a vocational technical field. Covers the basic laws of physics as applied to mechanics, matter and heat, wave motion and sound, electricity and magnetism, light and modern physics. Includes physical concepts as applied to industrial-technical fields. Prereq: EET 109 or MATH& 141.

**EET 131 (5) N**

**IT Essentials I - A+ Certification**

First of two courses that addresses the body of knowledge required for the current CompTIA A+ Certification. The emphasis is on the fundamentals of installing, maintaining, and configuring computer hardware; operating systems; networks; and security. Course Prerequisite: Ability to use an internet browser and create a document with a word processor. Computer lab fee.

**EET 132 (5) N**

**IT Essentials A+ Certification Advanced**

This course is part two of a two-course series that addresses the body of knowledge required for the current CompTIA A+ Certification. Emphasis is placed on the fundamentals of installing, maintaining, and configuring computer hardware, operating systems, networks, and security. Computer lab fee.

**EET 137 (5) N**

**Introduction to Robotics**

\*\*Please Note: This course replaces EET 136\*\*This course introduces foundational concepts in building and programming robots. Students build, program and configure a robot using various electronic devices to enable a wide variety of robotic activity.

**EET 138 (5) N**

**Industrial Robotics**

An introduction to industrial robotics, including the application, programming, troubleshooting, and servicing of state-of-the-art industrial robots and associated end effectors, sensors, and systems. Prerequisite: EET 137 or instructor permission.

**EET 160 (5) N**

**Introduction to Electricity and Electronics**

This course provides a survey of electricity and electronics fundamentals through theory presentations and hands-on laboratory experiments. It is intended for students pursuing the mechatronics degree (offered in conjunction with Shoreline Community College) or certificate options, as well as those interested in what electricity and electronics are about. EET 160 also is valuable as a refresher course for those with related previous knowledge who wish to return to the field.

**EET 161 (5) N**

**Principles of DC Electronics**

First in a series of lecture-lab courses designed for an in-depth study of electronics. Performance goals will allow students to analyze series and parallel circuits. Basic concepts of energy, work, power, current and voltage are studied as well as Ohm's and Kirchhoff's laws. Achievement of course goals is supported using computer models and hands-on labs. Prerequisite: MATH 081 or equivalent, or higher

**EET 162 (5) N**

**A.C. Principles of Electronics**

This second course in a series designed for an in-depth study of electronics covers the sinusoidal waveform, its generation and measurement, and basic AC topics including frequency, inductance, capacitance, reactance, resonance, filters, and transformers. Computer models, as well as labs with the oscilloscope, are used throughout.

**EET 163 (5) N**

**Solid State Electronics**

Analysis of characteristics of analog semiconductor devices and their applications in common electronic circuits. Course begins with construction of simple power supplies and moves to more complex amplifier circuits. Construction and measurement of devices and circuit parameters verify math analysis of circuits explored. Prerequisites: EET 162 or instructor permission. Computer Fee.

**EET 165 (5) N**

**Analog Circuits and Devices**

Continued analysis of characteristics of semiconductor devices and their applications in common electronic circuits. Explanation and analysis of field-effect transistors (FETs), thyristors, and operational amplifiers, their nomenclature and identification, characteristics, parameters, and basic circuit applications. Explanation and analysis of special-purpose diodes (particularly the zener) and their applications. Prerequisite: EET 163 or instructor permission. Computer Fee.

**EET 170 (5) N**

**Digital Electronics & Plcs I**

Fundamentals of digital electronics and interface circuits. Course covers number systems, logic gates, Boolean algebra and logic simplification (including DeMorgan's theorems and Karnaugh maps), encoders and decoders, multiplexers and demultiplexers, and an introduction to flip-flops, and an introduction to programmable logic controllers (PLCs). Prerequisite: EET 161 or instructor permission. Computer fee.

**FINDING COURSES**

Course names and course prefixes are cross-referenced in an index beginning on page 227. For example:

**PREFIX TO COURSE**

HIN . . . . . Watch Technology

**COURSE TO PREFIX**

Watch Technology . . . . . HIN

Common Course Numbering explanation is on page 226.

**EET 171 (5) N**  
**Digital Electronics & Plcs II**

Fundamentals of digital electronics and interface circuits, continued. Course covers flip-flops, shift registers, counters and state machines, multivibrators (including the 555 timer IC), programmable logic, data storage and memory, analog-to-digital and digital-to-analog conversion and interfacing applications, introduction to microprocessors and programmable logic controllers (PLCs). Prerequisite: EET 170 or instructor permission. Computer fee.

**EET 201 (5) N**  
**Energy Generation and Conversion**

This course covers principles of AC and DC rotating equipment used in electrical generation and conversion to mechanical energy. The course reviews fundamentals of electricity, magnetism, transformers, and single-phase circuits; three-phase circuits are introduced. Prerequisites: EET 109 or MATH&141 or equivalent, and EET 162. Course Prerequisite(s): EET 109 or MATH&141 or equivalent, and EET 162.

**EET 202 (5) N**  
**Industrial Motor Controls and Drives**

This Industrial Power and Control Technology course covers electromagnetic and electronic control and drive devices and circuits used for starting, accelerating, stopping, reversing, and protecting industrial AC and DC motors. Prerequisites: EET 109 or MATH& 141 or equivalent, and EET 161.

**EET 203 (5) N**  
**Programmable Logic Controllers**

This course describes the fundamentals of programmable logic controller (PLC) systems, including how PLCs work and providing practical information and skills about installing, programming, and troubleshooting PLC systems.

**EET 219 (3) N**  
**Metrology and Measurement Science**

This course provides an introduction to the foundational knowledge and skills required for the Certified Calibration Technician Certification administered by the American Society for Quality (ASQ). The ASQ has additional requirements for work experience that candidates must fulfill before they are eligible to take the exam; check with the ASQ for more information. Prereqs: EET 114 and EET 162 or instructor permission.

**EET 286 (5) N**  
**Biomedical Equipment I**

This course covers devices, circuits, and concepts specific to the healthcare environment, including theory and operation of equipment used for patient care. Emphasis is given to patient-connected equipment, including monitors for cardiovascular, respiratory, and neurological parameters; thermometry; and electrical safety. Laboratory exercises cover the maintenance, troubleshooting, repair, and calibration of equipment.

**EET 287 (5) N**  
**Biomedical Equipment II**

This course continues the study of medical technology begun in EET 286, with a focus on equipment specific to the surgical setting, medical video, medication pumps, medical lasers; an overview of various imaging modalities; and technology used in the clinical laboratory. Lab exercises emphasize maintenance, troubleshooting, repair, and calibration of such equipment. Prerequisite: EET 286 with a grade of 2.5 or higher.

**EET 291 (1-6) N**  
**Electronics Internship**

On-the-job training for electronics students who have finished their electronics certificate requirements and would like to improve their skills before actively seeking a job. (55 hours of job-related work experience = 1 credit.) Prereq: Completion of appropriate amount of designated program and permission.

**EET 297 (4) N**  
**Biomedical Technician Externship**

This course is designed to supply students with industry work experience in the biomedical electronics field. Students are expected to source their own work site, but it must be approved by the instructor. Specific equipment will vary from site to site but the student is expected to generalize the experience to the biomedical electronics field.

**Engineering**

**ENGR& 204 (5) C|N|S**  
**Electrical Circuits**

Covers basic circuit and systems concepts. Includes resistors, sources, capacitors, inductors and operational amplifiers. Includes solution of first- and second-order linear differential equations associated with basic circuit forms.

**ENGR& 214 (5) C|N|S**  
**Statics**

Basic concepts, resultants, force-couple relationships, equilibrium analysis, three-dimensional structures, two-dimensional frames, trusses, beams, friction, and geometric properties of area. Vector algebra used.

**ENGR& 215 (5) C|N|S**  
**Dynamics**

An in-depth treatment of the dynamics of particles and rigid bodies using vector analysis. Topics include kinematics, kinetics, momentum, and energy principles for both particles and rigid bodies. A required course for numerous engineering programs. Transfer class.

**ENGR& 224 (5) N**  
**Thermodynamics**

Introduces the basic principles of thermodynamics. Covers energy transformations, work and heat, ideal and real gases, first and second laws of thermodynamics, and applications to engineering systems.

**ENGR& 225 (5) C|N|S**  
**Mechanics of Materials**

Covers basic relationships between axial, torsional, bending, and shear loads acting on solid elements such as rods, shafts, columns, and beams and their allowable stress, strains and deformations(axial deformation, angle of twist, and deflection). Mohr's circle of stress.

**ENGR 110 (2) C|N|S**  
**Engineering Orientation**

Covers fields of engineering, career options and general information.

**ENGR 115 (5) S**  
**CAD CNC Plasma Table Programming and Operation**

Programming, maintenance and proper use of computerized cutting system such as CNC plasma cutters, laser cutters, routers, and mills using G code. Includes basic 2D and 3D CAD instruction.

**ENGR 240 (5) C|N****Introduction to Numerical Methods**

Covers numerical solutions to engineering problems using modern scientific computing tools. Includes intro to MATLAB programming, matrix algebra, finding roots, curve-fitting, integration, differential equations.

**Engineering Graphics & Design Technology****TDR 100 (5) N****Basic BIM for Design and Construction**

Introduces basic Building Information Management/Modeling (BIM) practices using Autodesk's Revit and Bentley's Microstation programs. Focuses on familiarization with BIM environment including drawing commands, efficiencies of CAD vs. BIM and integration of green analysis software with BIM software. Emphasis placed on developing production skills.

**TDR 101 (5) N****Intermediate BIM for Design and Construction**

Covers drafting techniques for structural design using BIM with Autodesk's Revit Structure. Work with beam, column, structural details, schedules and analysis of all structural members. Lab. Prereq: TDR 100 or permission.

**TDR 102 (5) N****Advanced BIM for Design and Construction**

Focus on whole commercial building creation, including details, construction drawings, building management and plotting as they relate to construction, design and sustainable applications. Focuses on Revit Architecture, MEP and Structure. Computer Lab Fee. Prereq: TDR 101 or instructor permission.

**TDR 103 (4) N****Energy Analysis for Building Information Modeling**

Continuation of TDR 102. Focuses on building Life Cycle Assessment (LCA), Building for Environmental Economic Stability (BEES), building envelope considerations, achievable green performance and use of green analysis software. Prerequisite: TDR 100, 101 and 102 or instructor permission.

**TDR 109 (1) N****Architectural Engineering Lab**

A supervised drafting development lab where students can work on class projects to increase speed and competency and hands-on skills using software or hand drafting techniques. May be repeated. Computer Lab Fee.

**TDR 111 (5) N****Basic CAD Drafting for Construction and Design**

Introduces basic Computer Aided Drafting practices using Autodesk's AutoCAD program. Focus will be on drawing commands, layering, scaling, dimensioning and text styles as used in construction/design applications. Emphasis placed on developing production skills. The first of a two-class sequence. Open Lab. Computer Lab Fee.

**TDR 112 (5) N****Intermediate CAD Drafting/Construction & Design**

Continuation of TDR 111. Focuses on team usage of external sources, creation of blocks, paper space/model space, file management and exchange and plotting as it relates to construction/design applications. May introduce isometrics and 3-D concepts. Emphasis on production skills. Prerequisite: TDR111 or instructors permission. Open lab. Computer lab fee.

**TDR 113 (5) N****Basic Drafting**

Learn the basic fundamentals of hand drafting. Focus on drafting equipment and its use, basic linework, hand lettering, orthographic projections, isometrics and basic sheet layout. Select discipline options including structures for construction/design or basic mechanical drawings. Open lab.

**TDR 124 (5) N****Materials and Methods of Construction**

Introduces the basic materials used in construction, with discussion on manufacturing, fabrication, design and assembly processes for large and small buildings. Focus on steel, concrete wood and masonry construction.

**TDR 134 (5) N****Systems in Buildings**

Focuses on the major building systems including HVAC, water and waste, fire protection, electrical and structural. Introduces the Uniform Building Code, type of construction and history. Includes heat loss calculation and lateral loads and their resisting elements. Includes Earth work and Foundations.

**TDR 144 (5) N****Design and Construction Environment**

Introduces basic organizational, business and legal aspects of the construction/design industry. Includes business forms, contractual obligations, employment issues, registration duties to the public, safety and other issues, which may affect business.

**TDR 160 (5) N****Applied Mechanics I**

Designed primarily for the non-engineering students, covering basic concepts of force systems, equilibrium, moments, centroids, moments of inertia, and simple beam design as applied to structural steel. Includes loading criteria, tributary loads and deflection.

**TDR 161 (5) N****Applied Mechanics II**

A continuation of TDR 160. Covers basic wood beam design. Includes allowable stress, loading criteria, shear and deflection. Covers basic truss analysis.

**TDR 170 (5) N****Introduction to Design for 3D Printing**

This course will introduce students to Design for manufacturing processes by using 3D models designed in programs such as AutoCAD, Solidworks, etc. This course will also familiarize students with the processes and proper usage of 3D printers and slicing software. Introduction to various new design software used for 3D printing.

**TDR 171 (5) N****Introduction to Solidworks**

Intro to basic parametric solid modeling practices using SolidWorks or comparable programs to industry standards. Learn engineering graphics in the 3D environment including drawing commands, efficiencies of PSM vs. the 2D environment. CAD or 3D experience recommended.

**TDR 172 (5) N****Intermediate Solidworks**

This course builds on the modeling skills taught in TDR171 (Introduction to SolidWorks) and includes expanded coverage of part and assembly modeling and the production of engineering drawings, as well as an introduction to parametric solid modeling, the use of analytical tools available within the SolidWorks application, basic surfacing, skills associated with the modeling of sheet metal parts, molds and weldments, and use with various industrial processes, particularly additive manufacturing.



**TDR 173 (5) N****Advanced Design for 3D Printing**

Continued application of 3D printing in the creation of prototypes to show ideas and concepts in a tangible way. Attention on advanced post-processing techniques for 3D prints and building sophisticated print jobs in Simplify 3D. Significant practice troubleshooting and problem solving designs and 3D prints. Prerequisite: TDR 170 (Introduction to Design for 3D Printing).

**TDR 176 (4) N****Advanced AutoCAD for Arch & Engineering Drafting**

Student will be introduced to advanced concepts of AutoCAD. Course continues skill-building with the AutoCAD program and offers instruction and hands-on practice in the development of productivity tools such as macros, templates, and system customizing. In addition, students will begin to work in 3D (three dimension). Prerequisite: TDR 112 or Instructor Permission. Computer Fee.

**TDR 269 (5) N****Construction Estimating**

Intro to quantity take-offs and pricing of materials by working on problems common to the general contractor. Focus on creating an ordered method of determining material and labor costs and other factors.

**TDR 297 (10) N****Special Topics in Const Design Drafting with CAD**

Students with solid AutoCAD skills will be introduced to Architectural Desktop, one of Autodesk's specialized versions of the AutoCAD program. Focus will be on utilizing the special tools and commands to create flexible computer models and drawing sets for construction/design applications. Emphasis placed on developing production skills. Completion of TDR 174 and 175 OR TDR 111 and 112 OR instructor permission.

**TDR 299 (3) N****Drafting Design Projects**

An independent laboratory course consisting of specially arranged sessions and substantial independent study to explore areas of special interest or expand specific drafting and/or computer skills.

**English****ENGL& 101 (5) C|N|S****English Composition I**

English 101 is a college-level writing course that emphasizes academic writing and major strategies of reading and writing analytically. Writing assignments focus on engaging with and responding to a variety of texts. Instruction encourages students to develop, through revision and reflection, as readers, writers, and critical thinkers.

**ENGL& 102 (5) C|N|S****Composition II**

Continuation of the composition sequence with further instruction and practice in the writing process, concentrating on critical reading and writing techniques needed for the preparation and completion of documented essays.

**ENGL& 111 (5) C|N|S****Introduction to Literature**

Study and analysis of fiction, poetry and drama with emphasis on understanding the art and techniques of each genre.

**ENGL& 112 (5) C|N|S****Introduction to Fiction**

Survey of 20th century fiction. Study and analysis of the art, elements, and techniques of short stories, novellas, and novels of American and international authors.

**ENGL& 113 (5) C|N****Introduction to Poetry**

Study, appreciation and analysis of the form, meaning, music and metaphor of poetry. Includes poems from diverse sources.

**ENGL& 114 (5) C****Introduction to Drama**

Study and analysis of great works of the theater, including major themes and trends of playwrights from the Greeks to the present.

**ENGL& 235 (5) N|S****Technical Writing**

Explores basic formats and content of technical communication. Covers writing process; analysis of purpose and audience for various reports and documents; research, documentation, presentation of technical material; and communication in digital media. Projects include writing and editing, digital communication, and collaboration. Prereq: ENGL& 101.

**ENGL& 246 (5) C****American Literature III**

Covers late 19th and 20th century writers with emphasis on modern fiction, drama, poetry and trends in literature. Practice of critical techniques.

**ENGL 40 (5) S****Composition I - Career Link**

Assessment and development of skills in language and communications including spelling, vocabulary, grammar and usage in a pre-technical career-oriented context. Emphasizes sentence and paragraph development to describe situations, objects and basic processes.

**ENGL 80 (1-5) N****English Skills Shop**

Support class for students enrolled in developmental English programs and students seeking to strengthen their academic writing skills. Individual and small group tutoring to improve listening; speaking; study skills; reading comprehension and rate; vocabulary; phonics and word skills; spelling; grammar; and writing sentences, paragraphs, and essays. Strongly recommended for students enrolled in developmental English courses.

**ENGL 85 (1-5) C****English Skills for College Success**

Support class for students enrolled in developmental English programs and students seeking to strengthen their academic skills. Develops strategies to improve listening; speaking; study skills; reading comprehension and rate; vocabulary; phonics and word skills; spelling; grammar; and writing sentences, paragraphs, and essays. Strongly recommended for students enrolled in developmental English courses.

**ENGL 91 (1-5) S****Basic Reading and Study Skills I**

Covers essential reading and study skills. Includes techniques for developing good reading skills and habits, vocabulary, comprehension, textbook reading and classroom skills.

**ENGL 94 (5) S****Junior English**

Emphasis on paragraph structure and basic sentence grammar. Practice in thinking, writing, editing and proofreading. Assignments in writing clear sentences and paragraphs. Prereq: Placement Test (S). For students who have completed ENGL 092 but still need more work at that level (C).

**ENGL 95 (1-5) S**  
**College Prep Reading and Study Skills**

Emphasis on increasing reading speed and vocabulary, identifying the main idea and supporting ideas in expository reading, making inferences and evaluations and understanding figurative language. Includes study strategies for test-taking, note-taking and outlining. Prereq: Placement Test.

**ENGL 97 (10) S**  
**English 097: Integrated Reading and Writing I**

This course provides students with opportunities to develop the reading, writing, and critical thinking skills needed to write in academic settings. Topics include reading and writing processes, critical thinking strategies, study skills, and grammar instruction. Upon completion, students should be able to apply those skills toward understanding a variety of academic and career-related texts and composing unified and coherent sentences, paragraphs, and short essays.

**ENGL 98 (10) C|N|S**  
**Integrated Reading and Writing II**

This course provides students with a supportive learning community in which to further develop the reading, writing, and critical thinking skills needed to write in academic settings. Topics include reading and writing processes, critical thinking strategies, vocabulary, study skills, and grammar instruction.

**ENGL 99 (5) C|N|S**  
**Supporting College Writing**

This is a support course for English 101. The primary focus of this course is to provide students with more in-depth opportunities to acquire the reading, writing, and critical thinking skills needed to write at the career and college ready level. This is a co-requisite and must be taken with English 101.

**ENGL 104 (5) N**  
**Advanced English Grammar**

Study of rhetoric and grammar of the English sentence. Includes sentence structure, grammar of the paragraph, usage, diction and mechanics. This course is not remedial. Prereq: Eligible for ENGL& 101 or permission.

**ENGL 105 (3) C**  
**Applied Composition**

Covers skills and strategies needed to meet writing demands in college and on the job.

**ENGL 107 (5) N|S**  
**Applied Composition**

This course designed to help students from a variety of majors to master the composition skills needed for careers in business and industry. Students will learn the principles and conventions of technical writing and practice those conventions in a variety of assignments that would typically be encountered in the work place. Attention will also be paid to strengthening the surface and stylistic aspects of their writing.

**ENGL 115 (5) C**  
**LGBTQ Literature**

Survey of lesbian, gay, bisexual, and transgender literature. Explores ideas, themes, historical contexts, and social issues in fiction, poetry, drama, creative non-fiction, and essays.

**ENGL 116 (5) N**  
**Graphic Novels**

Graphic Novels surveys visual storytelling literature such as graphic novels, manga, and comics. Covers a variety of genres (e.g. fantasy, science fiction, dystopian, classic literature, plays, short stories, autobiography, historic fiction, etc.) presented in graphic formats. Examines complex and culturally relevant literary themes related to history, politics, gender identity, ethnic diversity, sexuality, and many social justice issues.

**ENGL 119 (5) S**  
**Graphic Novels: Art, Identity, and Storytelling**

This interdisciplinary course features comics, graphic novels, manga, and film to explore the diversity of graphic/sequential storytelling media as a product of culture. Students will put graphic storytelling media into conversation with meaningful aspects of human society, identity, and culture such as art, literature, history, and equity and social justice issues within a global context. They will develop creative, interdisciplinary, and multi-modal projects. Dual ENGL/HUM course.

**ENGL 120 (5) C**  
**Digital Literature**

Exploration of digital literature and authors who use digital media to present their work. Overview of history of digital literature and emerging digital literary forms such as hypertext, interactive fiction, blogs, social media, apps, video games, and multimedia formats. No specialized software knowledge required. Access to computer and internet recommended.

**ENGL 151 (5) C|N|S**  
**Creative Writing**

Creative Writing introduces a variety of creative writing forms, genres and techniques. Emphasis is on empowerment of personal voice and creative expression using genres such as fiction stories, creative nonfiction, poetry and playwriting. Students will read and discuss published works, engage in the writing process, and collaborate in inclusive student-centered workshops.

**ENGL 152 (5) N|S**  
**Creative Writing**

Continuation of ENGL 152. Creative Writing with focus on development of language, imagery, style, voice, and emphasis on techniques.

**ENGL 153 (5) N**  
**Creative Writing**

Continuation of ENGL 152. Emphasis on writing, editing and proofreading manuscripts. Includes literary magazine production experience in editing, design and layout. Prereq: ENGL& 101, ENGL 151 and ENGL 152 or permission (N). Includes workshops and seminars for those with writing experience (C).

**ENGL 160 (5) C**  
**Introduction to Writing for Media**

Introduction to writing for digital and online media including social media, digital journalism, blogs, video games, web sites, mobile apps, and emerging new media formats. Emphasis on developing writing skills for presentation in digital media formats through examination of course readings and creation of digital media projects. No previous software knowledge required. Internet access recommended. Prereq: ENGL&101 Placement.

**ENGL 197 (2) N**  
**Writing Workshop**

Augments instruction in writing within a collaborative environment geared towards understanding how and why we learn most effectively. Provides additional writing support to students in all stages of the reading and writing processes, and for a range of writing contexts and tasks across disciplines. Intended to support students in writing-intensive courses (50% or more of course grade determined by written assignments).

**FINDING COURSES**

Course names and course prefixes are cross-referenced in an index beginning on page 227. For example:

**PREFIX TO COURSE**

HIN . . . . . Watch Technology

**COURSE TO PREFIX**

Watch Technology . . . . . HIN

Common Course Numbering explanation is on page 226.

**ENGL 199 (2) S**  
**College Applications & Personal Statements**

Focuses on writing effective Personal Statement essays, and other college or scholarship application essays. Students will research application requirements, and write essays that contribute to an engaging and effective application. Class sessions will focus on intensive essay work and support from college advisors. 8-week course; students will work on a schedule that fits their specific application deadlines.

**ENGL 204 (5) C**  
**English Language & Linguistics**

Overview of the fundamental structures of English from the perspective of linguistic studies. Emphasis on the basic principles and tools of the field of linguistics, contemporary theories of morphology, syntax (grammar), semantics, and study of historical, geographical, and socioeconomic variations of the English language.

**ENGL 205 (5) C**  
**Creative Nonfiction**

Designed to familiarize students with the techniques and narrative structures of creative nonfiction. Reading and writing will focus on personal essays and memoir, but may also cover related sub-genres such as science writing, travel writing, and profiles/biography.

**ENGL 210 (5) C**  
**Translation for Global Competence**

Introduces the practice of translation but without foreign language competency. Students actively practice global competence, learning about and communicating across cultural differences. Students produce collaborative translations from a world language into English. Designed for both mono and multilingual students.

**ENGL 231 (5) N|S**  
**Children's Literature**

Explores a representative collection of children's and young adult literature from multiple cultures within the Western literary tradition. Includes close reading of texts such as fairy tales, traditional tales, illustrations, picture books, realistic and historical fiction, and fantasy. Emphasizes historical context, literary themes, cultural implications for reading audiences, and the role of children's narratives in the social construction of childhood.

**ENGL 232 (5) S**  
**Young Adult Literature**

Exploration of young adult literature that represents culturally diverse populations within the United States with emphasis on the societal values reflected in the genre and the powerful influence of well-crafted stories. Prerequisite: Eligibility for ENGL 099.

**ENGL 258 (5) N**  
**Literature of American Culture**

Survey of literature from a variety of U.S. cultures including Asian American, African American, European American, Chicano and Latino American, Middle Eastern American, Native American, and others. Emphasis on analysis of social, cultural, political, and historical contexts. Prereq: Placement into ENGL&101.

**ENGL 260 (5) C|S**  
**Asian American Literature**

Examines memoir, fiction, poetry, graphic novels, films by and about the people of Asian descent in the US and the diaspora. Focus on Chinese, Japanese, Filipino, Korean, South Asia, Southeast Asian, and Pacific Islander subjects and their works. Topics may include language and identity, history and memory, power and resistance, national and transnational identities, ways of belonging and non-belonging.

**ENGL 265 (5) C**  
**Literature and Society**

Studies patterns of literary expression as a guide to social attitudes and value systems, the part society plays in shaping literature, and the degree to which literature reflects society.

**ENGL 293 (5) C|N**  
**Science Fiction**

Examines selected works of science fiction by creators across cultures. Exploration of science fiction's history, trends, genres, and sub-genres and how they deepen our understanding of contemporary experience.

**ENGL 299 (1-5) C|N**  
**Independent Study**

Create an individual project, syllabus and outcomes with instructor.

## English as a Second Language

**ESL 7 (1-15) C**  
**English as a Second Language-Pre-Literacy**

Pre-literacy Level is designed for students who are unable to read, write, speak, or listen in English and who are pre- or non-literate in their native language. These students are true beginners in ESL in every sense of the word. General goals of the course are to introduce students to the beginning concepts of reading and writing, to expose students to common spoken English for aural comprehension, and to help students begin to use spoken English for meeting classroom and personal needs. Course goals are chosen from the mandated Level 1 Washington State Core Competencies, which are used in SSC's Literacy ESL classes.

**ESL 10 (1-15) C|S**  
**English as a Second Language 1**

Emphasis on basic vocabulary, simple sentence structure, pronunciation, basic reading and writing needed for daily functioning. Concentrates on developing oral and listening skills through drills, dialogues, role-playing, dictation and conversation. Work on literacy skills.

**ESL 11 (1-15) N**  
**English as a Second Language-Level 1A**

For preliterate ESL students or very low-beginning students literate in a written language based on a non-Roman alphabet. Learn very basic English vocabulary and grammar. Practice very basic reading, writing, listening, and speaking skills in the context of daily life, jobs, and school.

**ESL 12 (1-15) N****English as a Second Language-Level 1B**

For low-beginning ESL students. Learn basic English vocabulary and grammar. Practice basic reading, writing, listening, and speaking skills in the context of daily life, jobs, and school.

**ESL 13 (1-15) N****English as a Second Language Level 1C**

For low-beginning ESL students. Learn more basic English vocabulary and grammar. Practice more basic reading, writing, listening, and speaking skills in the context of daily life, jobs, and school.

**ESL 15 (1-15) N|S****ESL Reading and Writing 1**

Designed for low-beginning ESL students, this practice-based course introduces basic English reading and writing skills in the context of daily life, jobs, and school for more success living in the United States.

**ESL 16 (1-15) N****ESL Speaking and Listening 1**

Designed for low-beginning ESL students, in this course students practice basic English speaking and listening skills in the context of daily life, jobs, and school for more success living in the United States. Prerequisite: Appropriate score on placement test, or Instructor's permission.

**ESL 20 (1-15) C|S****English as a Second Language 2**

ESL 020 is a high-beginning level English as a second language course which utilizes an integrated skills approach to language teaching. This class is intended for students who understand and use very basic oral and written phrases, statements, and questions. The content focus is on employability and readiness for vocational and academic programs.

**ESL 21 (1-15) N****English as a Second Language-Level 2A**

For beginning ESL students. Learn beginning English vocabulary and grammar. Practice beginning reading, writing, listening, and speaking skills in the context of daily life, jobs, and school for living in the United States.

**ESL 22 (1-15) N****English as a Second Language-Level 2B**

For high-beginning ESL students. Learn more beginning English vocabulary and grammar. Practice more beginning reading, writing, listening, and speaking skills in the context of daily life, jobs, and school for living in the United States.

**ESL 25 (1-15) N|S****ESL Reading and Writing 2**

Designed for beginning ESL students, this practice-based course focuses on beginning English reading and writing skills in the context of daily life, jobs, and school for more success living in the United States.

**ESL 26 (1-15) N****ESL Speaking and Listening 2**

Designed for beginning ESL students, this practice-based course focuses on beginning English speaking and listening skills in the context of daily life, jobs, and school for more success living in the United States.

**ESL 27 (1-5) N****Introduction to Digital Literacy for ESL**

Introductory digital literacy course for non-native speakers of English with emphasis on improving vocabulary, reading with understanding, and conveying ideas in writing. Prerequisite: instructor permission.

**ESL 30 (1-15) C|S****English as a Second Language 3**

ESL 030 is an intermediate level, English as a second language course which utilizes an integrated skills approach to language teaching. This class is intended for students who understand and use basic oral and written phrases, statements, and questions. The content focus is dependent on the specific contextualization of each ESL 030 course.

**ESL 31 (1-15) N****English as a Second Language Level 3A**

For low-intermediate ESL students. Learn low-intermediate English vocabulary and grammar. Practice low-intermediate reading, writing, listening, and speaking skills in the context of daily life, jobs, and school for living in the United States.

**ESL 32 (1-15) N****English as a Second Language Level 3B**

For low-intermediate ESL students. Learn more low-intermediate English vocabulary and grammar. Practice more low-intermediate reading, writing, listening, and speaking skills in the context of daily life, jobs, and school for living in the United States.

**ESL 35 (1-15) N|S****ESL Reading and Writing 3**

Designed for low-intermediate ESL students. Focuses on practicing low-intermediate English reading and writing skills in the context of daily life, jobs, and school for more successful living in the United States.

**ESL 36 (1-15) N****ESL Speaking and Listening 3**

Designed for low-intermediate ESL students. Provides practice of low-intermediate English speaking and listening skills in the context of daily life, jobs, and school for more successful living in the United States.

**ESL 39 (1-15) N****Vocational ESL 3**

Intermediate level for non-native speakers of English. Focuses on workplace and survival English and beginning academic English. Includes career planning, test-taking, study skills, interview skills, résumé writing, and computer and math skills. May also cover health, finances, college/training programs and/or citizenship.

**ESL 40 (1-15) C|S****English as a Second Language 4**

ESL 040 is a high intermediate level, English as a second language course which utilizes an integrated skills approach to language teaching. This class is intended for students who understand and use familiar oral and written phrases, statements, and questions with some difficulty. The content focus is dependent on the specific contextualization of each ESL 040 course.

**ESL 41 (1-15) C|N****English as a Second Language-Level 4A**

For intermediate ESL students. Learn intermediate English vocabulary and grammar. Practice intermediate reading, writing, listening, and speaking skills in the context of daily life, jobs, and school for living in the United States.

**ESL 42 (1-15) C|N****English as a Second Language-Level 4B**

For high-intermediate ESL students. Learn high-intermediate English vocabulary and grammar. Practice high-intermediate reading, writing, listening, and speaking skills in the context of daily life, jobs, and school for living in the United States.

**ESL 45 (1-15) N|S****ESL Reading and Writing 4**

Provides practice of intermediate English reading and writing skills in the context of daily life, jobs, and school for more success living in the United States.

**ESL 46 (1-15) N**

#### **ESL Speaking and Listening 4**

For intermediate ESL students. Provides practice of intermediate English speaking and listening skills in the context of daily life, jobs, and school for more success living in the United States.

**ESL 47 (1-5) C**

#### **Intermediate Digital Literacy for ESL**

Intermediate digital literacy course for non-native speakers of English with emphasis on improving vocabulary, reading with understanding, and conveying ideas in writing.

**ESL 49 (1-15) C**

#### **Vocational ESL Level 4**

Supports vocational, technical and employment training.

**ESL 50 (1-15) S**

#### **English as a Second Language 5**

ESL 050 is a low-advanced level, English as a second language course which utilizes an integrated skills approach to language teaching. This class is intended for students who understand and use familiar oral and written phrases, statements, and questions. Pre-requisite: Completion of ESL 4, placement test or instructor permission.

**ESL 51 (1-15) C|N**

#### **English as a Second Language - Level 5A**

For very high-intermediate ESL students. Learn very high-intermediate English vocabulary and grammar. Practice very high-intermediate reading, writing, listening, and speaking skills in the context of daily life, jobs, and school for living in the United States. Begin to focus more on academic English skills to prepare for transitioning into college academic or professional/technical classes.

**ESL 52 (1-15) N**

#### **English as a Second Language - Level 5B**

For low-advanced ESL students. Learn low-advanced English vocabulary and grammar. Practice low-advanced reading, writing, listening, and speaking skills in the context of daily life, jobs, and school for living in the United States. Continue to focus more on academic English skills to prepare for transitioning into college academic or professional/technical classes.

**ESL 55 (1-15) N|S**

#### **ESL Reading and Writing 5**

Provides practice of English reading and writing skills needed for successful transition into college academic and professional-technical courses.

**ESL 56 (1-15) N**

#### **ESL Speaking and Listening 5**

For low-advanced ESL students. Provides practice of English speaking and listening skills needed for successful transition into college academic and professional-technical courses.

**ESL 57 (1-5) C|N**

#### **Advanced Digital Literacy for ESL**

Advanced digital literacy course for non-native speakers of English with an emphasis on improving vocabulary, reading with understanding, and conveying ideas in writing.

**ESL 58 (1-10) N**

#### **English for Business and Accounting Preparation**

This course is designed to prepare ESL students for study in Business and Accounting programs. Topics will include business and workplace vocabulary. Also covers skills related to computers, studying, job searches, and employability.

**ESL 59 (1-15) C|N**

#### **Vocational ESL 5**

For students currently enrolled in the ESL Program. Provides specific support in vocational ESL and assists students pursuing career and professional technical programs.

**ESL 60 (1-15) S**

#### **English as a Second Language 6**

ESL 060 is an advanced level, English as a second language course which utilizes an integrated skills approach to language teaching. This class is intended for students who understand and use every day oral and written phrases, statements, and questions comfortably. While detailed content focus is dependent on the specific contextualization of each ESL 060 course, the overall focus is transition to Prof/Tech or Academic college programs. Pre-requisite: completion of ESL 5, placement test or instructor permission. May include concurrent enrollment in ESL 069.

**ESL 61 (1-15) N**

#### **English as a Second Language - Level 6A**

For advanced ESL students. Learn advanced English vocabulary and grammar. Practice advanced reading, writing, listening, and speaking skills in the context of daily life, jobs, and school for living in the United States. Focus especially on academic English skills to prepare for transitioning into college academic or professional/technical classes.

**ESL 62 (1-15) N**

#### **English as a Second Language - Level 6B**

Emphasis on composition, reading a variety of texts, grammar and vocabulary expansion.

**ESL 65 (1-15) N|S**

#### **Focus On Writing Level 6**

For students who want to improve their writing skills. Study English word order, spelling problems, sentence boundaries, some persistent grammatical problems and simple paragraph writing.

**ESL 66 (1-15) N**

#### **ESL Speaking and Listening Level 6**

On completion, be able to listen actively and speak so others can understand.

**ESL 68 (1-6) C|N|S**

#### **Educational Interviewing for ESL Students**

This course serves as an orientation class for new ESL students. Students receive an orientation to the ESL program and to the program's and the college's resources and services.

**ESL 69 (1-15) S**

#### **Service Learning / Vocational ESL**

For ESL students concurrently enrolled in ESL Level 6. Provides specific support in content courses and vocational ESL and assists students in completing their programs and building job-related language skills. Usually 3 credit per quarter.

**ESL 76 (1-5) C|N**

#### **English Pronunciation**

Intro to some of the basics of accurate English pronunciation for non-native speakers of English: some stressed and unstressed vowel sounds, basic word stress patterns, sentence stress and rhythm and other features.

**ESL 78 (1-15) N**

#### **Advanced English Pronunciation 2**

Advanced course on accurate English pronunciation: troublesome vowel and consonant sounds, word stress and sentence intonation.

**ESL 81 (1-15) C****College and Career Readiness ESL**

Provides ESL students with practice of integrated English reading, writing, listening, and speaking skills for the workplace and successful transition into college academic and professional-technical courses.

**ESL 82 (1-5) S****ESL Special Topics**

Designed to allow for special course offerings that are responsive to student need and/or current and emerging topics that are related to but not offered as part of the regular Basic ESL curriculum.

**ESL 83 (1-5) S****Strategic Learning in a Content Area**

Supports strategic learning in a college credit class. Learn appropriate study skills such as metacognitive strategies, previewing, skimming and scanning of written materials, summarizing and paraphrasing, note-taking, revision and expansion of notes and research techniques. Understand and meet content teacher expectations. Instructor permission required and may include concurrent enrollment in ESL 083.

**ESL 85 (1-5) C****Survey of English Grammar: Verb Review**

For students under-prepared for college level English. Covers basic English grammar with a focus on writing simple, compound and complex sentences and paragraphs. Learn and practice academic English vocabulary to enhance writing skills.

**ESL 86 (5) C****Survey of English Grammar II**

This course is designed for non-native speakers of English who need to improve their understanding of more intermediate and advanced English of grammar with an emphasis on paragraph writing using the four sentence types and further development of editing skills and academic vocabulary.

**ESL 96 (5) C****College Prep English for Non-Natives I- Reading**

For non-native speakers. Increase reading comprehension and speed, improve vocabulary, and build confidence using college preparatory materials. Respond to readings using academic vocabulary in writing.

**ESL 97 (5) C****College Prep English for Non-Nat Speakers I- Writing**

For non-native speakers. Practice developing coherent, multiple paragraph compositions. Review English writing styles and their application to academic writing.

**ESL 98 (5) C****College Prep English for Non-Natives II**

Focuses on developing reading strategies, increasing reading comprehension, speed and fluency, engaging in critical reading and analysis, integrating outside sources, and expanding vocabulary. Uses college-level reading materials.

**ESL 99 (5) C****College Prep English for Non-Natives II**

Develop coherent paragraphs and short essays. Emphasis on complex paragraphs using appropriate style and techniques of paraphrasing and summarizing. Includes library research skills. Preparation for college-level writing.

**Environmental Science****ENVS& 100 (5) C|N|S****Survey of Environmental Science**

Covers natural principles governing operation of the environment, including interaction between humans and the environment, emphasizing approaches and actions to maintain a healthy ecosystem.

**ENVS& 101 (5) C|N****Intro to Environmental Science W/Lab**

Covers natural principles governing operation of the environment including interaction between humans and the environment, emphasizing attitudes and actions to maintain a healthy ecosystem. This course has a lab component focusing on major topics in environmental science.

**ENVS 160 (5) C|S****Principles of Environmental Sustainability**

Explores past and present contributions from major events and leaders to the sustainability movement. Principles of sustainability are used to analyze action on challenges such as urbanization, climate change, food systems and pollution.

**ENVS 170 (5) S****Energy and Resources - Now and Future**

Study of energy and material resources, both personal and worldwide production and consumption. Investigates the impact on the natural environment from production of coal, wind, solar and hydropower; gasoline, electricity and hydrogen fuel transportation; and natural gas and biomass heating options. Focus on sustainable alternatives to meet energy and material needs.

**ENVS 196 (2) C****Spring Practicum in Sustainable Agriculture**

Hands-on practical experience managing an urban farm enterprise for aspiring practitioners. Apply weekly on-farm education and training to spring operational and production tasks at the SAgE King County Student Farm.

**ENVS 197 (1-5) C****Internship in Sustainable Agriculture**

Practical work experience at sustainable agriculture enterprises, including urban, small farm, and food system businesses, organizations, and agencies, that applies and builds upon the knowledge and skills derived from program coursework. Students establish learning objectives and outcomes with the internship providers.

**ENVS 198 (2) C****Summer Practicum in Sustainable Agriculture**

Hands-on practical experience managing an urban farm enterprise for aspiring practitioners. Apply weekly on-farm education and training to summer operational and production tasks at the SAgE King County Student Farm.

**ENVS 199 (2) C****Fall Practicum in Sustainable Agriculture**

Hands-on practical experience managing an urban farm enterprise for aspiring practitioners. Apply weekly on-farm education and training to fall operational and production tasks at the SAgE King County Student Farm.

**ENVS 204 (5) C****Soil Science & Conservation**

Examines soils as living ecosystems, including their physical, chemical, and biological properties. Nutrient cycling, fertility management, soil building, and site diagnosis and classification are also examined. Satisfies lab science requirement for the A.A. degree.

**FINDING COURSES**

Course names and course prefixes are cross-referenced in an index beginning on page 227. For example:

**PREFIX TO COURSE**

HIN . . . . . Watch Technology

**COURSE TO PREFIX**

Watch Technology . . . . . HIN

Common Course Numbering explanation is on page 226.

**ENVS 214 (5) C**  
**Food Systems Analysis**

Investigates food system dynamics, with emphasis on the Pacific Northwest and the relationship between food production and the environment while exploring the complex social and economic interactions that occur throughout the food system. Students will question, research, quantify and justify the exchanges that take place in a food system as well as identify opportunities for change. Field trips are an integral part of this course.

**Fire Science**

**FIRE 101 (5) N**  
**Principles of Emergency Services**

This course provides an overview to fire protection and emergency services, career opportunities in the fire protection and related fields, and culture and history of emergency service.

**FIRE 102 (5) N**  
**Fire Behavior and Combustion**

This course explores the theories and fundamentals of how and why fires start, spread, and are controlled.

**FIRE 103 (5) N**  
**Building Construction for Fire Protection**

This course provides the components of building construction related to firefighter and life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, pre-planning fire operations, and operating at emergencies.

**FIRE 104 (5) N**  
**Principles of Fire & Emerg Services Safety/Surv**

This course introduces the basic principles and history related to the national firefighter life safety initiatives, analyzing the needs for cultural and behavioral change throughout the emergency services.

**FIRE 105 (5) N**  
**Fire Prevention**

This course provides fundamental knowledge relating to the field of fire prevention. Topics include: history and philosophy of fire prevention; organization and operation of a fire prevention bureau; use and application of codes and standards; plans review; fire inspections; fire and life safety education; and fire investigation.

**FIRE 106 (5) N**  
**Legal Aspects of Emergency Services**

This course will address the federal, state, and local laws that regulate emergency services and include a review of national standards, regulations, and consensus standards.

**FIRE 107 (5) N**  
**Fire Protection Systems**

This course provides information relating to the features of design and operation of fire alarm systems, water based fire suppression systems, special hazard, fire suppression systems, water supply for fire protection and portable fire extinguishers.

**FIRE 108 (5) N**  
**Principles of Fire & Emer Service Administration**

This course introduces the student to the organization and management of a fire and emergency services department and the relationship of government agencies to the fire service. Emphasis is placed on fire and emergency service ethics and leadership from the perspective of the company officer.

**FIRE 109 (5) N**  
**Occupational Safety & Health for Emergency Svcs**

This course introduces the basic concepts of occupational health and safety as it relates to emergency service organizations. Topics include risk and hazard evaluation and control procedures for emergency service organizations.

**FIRE 110 (5) N**  
**Strategy and Tactics**

This course provides the principles of fire ground control through utilization of personnel, equipment, and extinguishing agents.

**French**

**FRCH& 121 (5) C|N**  
**French I**

Highly interactive class fostering communicative skills where the language is situated within francophone cultural contexts and emphasis is placed on meaning as well as grammatical forms. Develops reading, writing, listening, and speaking at the novice level. Exercises are assigned outside of class to increase oral and written proficiency. Intended for students with little or no college-level French.

**FRCH& 122 (5) C|N**  
**French II**

Intended for students who have completed French 121 or its equivalent. Interactive course fostering communicative skills where the language is situated within francophone cultural contexts and emphasis is placed on meaning as well as grammatical forms. Develops reading, writing, listening, and speaking at the intermediate novice level. Exercises are assigned outside of class to increase oral and written proficiency.

**FRCH& 123 (5) C|N**  
**French III**

Intended for students who have completed French 121 and French 122 or their equivalents. Interactive class fostering communicative skills where the language is situated within French-speaking cultural contexts and emphasis is placed on meaning as well as grammatical forms. Develops reading, writing, listening, and speaking at the beginning level. Exercises are assigned outside of class to increase oral and written proficiency.

**FRCH& 221 (5) C**  
**French IV**

Detailed review of French grammar and syntax. Focus on writing, conversation and discussion of literary texts. Includes oral presentations on aspects of francophone cultures.

**FRCH& 222 (5) C**  
**French V**

Continuation of FRCH& 221.

**FRCH& 223 (5) C**  
**French VI**

Continuation of FRCH& 222.

**FRCH 204 (5) C****Advanced French Language and Literature**

Advanced study of core literature and grammar. Choose an area of interest and prepare regular compositions and presentations. May include creating and performing adaptations of plays and short stories. Prereq: FRCH& 223 or permission.

**Gender & Women's Studies****WMN 200 (5) C|N****Introduction to Gender & Women Studies**

Introduction to interdisciplinary field of Gender and Women Studies, focusing on how intersections of gender, race, class, sexuality, religion, nationality, age, and ability shape people's lives. Emphasizes the construction and enforcement of gender differences and inequalities in relation to race, class, sexuality and culture. Readings include both narrative and analytical approaches.

**WMN 205 (5) C****Women, Gender, & Globalization**

Interdisciplinary course introducing the study of gender and women in a transnational context. Examining the lives, experiences, and material conditions of women around the world and how they are impacted by the conditions emerging from globalization, global capitalism, policies developed by large international entities, social movements, and neoliberalism. Regional emphasis may vary based on instructors.

**WMN 257 (5) C****Psychology of Gender**

Explores major psychological theories of sex differences. Examines studies of sex-role development and biological and environmental influences that may determine and maintain sex differences in aggression, cognitive abilities, achievement, motivation, affiliation and sexuality. May be taken as PSYC 257.

**WMN 298 (1-5) N****Special Topics in Gender and Women Studies**

Independent research and writing on selected women studies topics under faculty supervision.

**General Educational Development (GED)****GED 50 (1-15) C****Basic GED Preparation 5**

Interactive course where students learn and apply knowledge of math, reading, and writing skills in academic content areas that will help them pass the GED exams. Reasoning and critical thinking skills are also emphasized.

**GED 51 (1-10) C****Basic GED Preparation Math Level 5**

Prepares learners to use the math concepts and applications needed to pass the math portion of the official GED test.

**GED 52 (1-15) C|N****Basic GED Preparation Communication Level 5**

An interactive lecture or hybrid course to learn and apply knowledge of reading and writing skills in academic content areas to pass the GED exams in Language Arts. Includes learning reasoning and critical thinking skills to improve success in passing GED exams in the content areas.

**GED 60 (1-15) C****Advanced GED Preparation Level 6**

Interactive course where students learn and apply knowledge of math, reading, and writing skills in academic content areas that will help them pass the GED exams. Reasoning and critical thinking skills are also emphasized.

**GED 61 (1-10) C****Advanced GED Preparation Math Level 6**

Prepares learners to use the math concepts and applications needed to pass the math portion of the official GED test.

**GED 62 (1-15) C****Advanced GED Preparation Communication Level 6**

An interactive lecture or hybrid course to learn and apply knowledge of reading and writing skills in academic content areas to pass the GED exams in Language Arts. Includes learning reasoning and critical thinking skills to improve success in passing GED exams in the content areas.

**Geography****GEOG& 100 (5) C|S****Introduction to Geography**

Introduction to major concepts of geography, climate, landforms, and biogeochemical processes. The course also concentrates on analysis of population demographics, culture, language and religion, food production, patterns of urbanization, paths to economic growth, resource use, and environmental concerns in a globalized world.

**GEOG 92 (5) S****Geography Through Art**

Explore world geography continent by continent through map work and artwork of the region. For each continent students will study the major concepts in geography for the area including climate, landforms, resources, and culture then explore how art is reflective of the region. Each student will create a personal geography notebook that contains all their maps and art projects for course.

**Geology****GEOL& 101 (5) C|N|S****Intro Physical Geology**

Explores the physical properties and processes of the Earth, including: mineral and rock identification, the rock cycle, plate tectonics, surface processes, and natural hazards related to geologic features such as earthquakes, tsunamis, landslides, and others.

**GEOL& 110 (5) N|S****Environmental Geology: Geology and the Human Env**

Covers the effects of geologic processes and materials on human activity, and the effects of human activity on the Earth. Emphasizes awareness of geologic aspects of our everyday environment including the identification of problems, and the formulation and evaluation of solutions.

**GEOL 106 (5) C|N****Dinosaurs**

Studies dinosaurs and the world they lived in. Covers origins, evolution, biology, behavior and extinction of dinosaurs and their relationship to birds and mammals. Intro to history of the biosphere, Earth's climate and its changes.



**GEOL 111 (1) N****Geology Field Day**

A one-day field trip and five-hour lecture on active and ancient geology in the Pacific Northwest. Topics include faults, glaciers, fossils, landslides, and the Cascade Mountain Range. Lab credit. Also offered as SCI 111.

**GEOL 118 (1) N****Volcano Field Day**

Introduction to the origin and destruction of the Cascade volcanoes such as Mount St. Helens, Mount Rainier and Glacier Peak. Includes five hours of lecture and a one-day field trip. Lab credit. Also offered as SCI 118.

**GEOL 207 (5) N****The Ice Ages**

This course explores the remarkable story of the ice ages in the Pacific Northwest over the last three million years, with special attention to how these events have sculpted the modern landscape of this area. Other topics include the evolution of plants and animals over this dramatic period, and the earliest appearance of people in this area. This is a lab science credit course, a transfer course, and has no prerequisites.

**German****GERM& 121 (5) N****German I**

Covers fundamentals of grammar and syntax, oral and written exercises, pronunciation, reading and conversation, and cultural aspects of the countries in which German is spoken. Requires oral practice with online audio programs. For students who have not previously studied German.

**GERM& 122 (5) N****German II**

Continued systematic study of German focusing on listening, speaking, reading, writing, and cultural understanding. Prerequisite: GERM& 121 or permission.

**Graphic Design****DES 110 (4) C****History of Graphic Design**

Explores the global history of visual communication and the graphic arts in media, commerce, and the social sphere. The field of graphic design, in particular, has continually evolved to align with and ultimately elevate the ever-changing landscape of technology and culture. Prereq: Successful completion of the program through preceding quarter.

**DES 121 (4) C****Typography I**

Learn basic principles of micro typography, including the anatomy of letters, adapting letter forms, letter and word spacing, line spacing, and simple hierarchy of text. Create expressive typography.

**DES 122 (4) C****Typography II**

Focuses on using the grid for page construction. Explores page structure and hierarchy principles and grid systems.

**DES 131 (4) C****Graphic Design I**

Introduces students to the terminology, process, and social context of graphic design. Students will utilize traditional image making techniques and learn the language of graphic design for building communication and presentation skills. Prereq: Acceptance into the Graphic Design program.

**DES 132 (4) C****Graphic Design II**

Intro to color and its application to design, including the mechanics of light, the physiology of vision and the psychology of color. Study ways color is used in culture and methods designers employ in making their work effective.

**DES 133 (4) C****Graphic Design III**

Covers the design of packaging: three-dimensionality, marketing insights and innovations in technology. Study consumption and how packaging communicates to consumers. Projects may include soda bottles, folding box packages and a line of products, with high quality mockups.

**DES 145 (4) C****Graphic Production I**

Intro to the basic skills, concepts and techniques of successfully using the vector-based graphics program Adobe Illustrator.

**DES 146 (4) C****Graphic Production II**

Intro to the basic skills, concepts and techniques of successfully using the page layout program Adobe InDesign.

**DES 147 (4) C****Graphic Production III**

Intro to the basic skills, concepts and techniques of successfully using the pixel-based program Adobe Photoshop. Learn to color correct a photo using curves and levels, create a non-destructive work flow and select the correct tool for the job.

**DES 151 (4) C****Interactive I**

Introduces principles of User Experience Design (UX), and skills required for front end development, specifically HTML and CSS. Students will be introduced to concepts such as user research, user testing, personas, and task flows while building responsive websites and learning how to use basic prototyping tools.

**DES 152 (4) C****Interactive II**

Continues the exploration of User Experience Design (UX), and skills required for front end development, specifically HTML and CSS. Students will be introduced to concepts such as Design Thinking, Design Systems, Empathy Maps, Customer Journey Maps, Prototyping tools, and SVG animation.

**DES 153 (4) C****Interactive III**

Advanced principles of Web Design and User Experience Design, building on the core principles of the previous two quarters. Students will build complex websites with advanced techniques such as CSS Grid and Animated SVG, and explore additional prototyping tools such as Webflow, while exploring emerging technologies such as Augmented Reality and Voice Design.

**DES 160 (4) C****Design Thinking and Storytelling for Design**

A hands-on exploration of design thinking and public speaking tools geared at helping students produce novel solutions, and present them effectively. Students will explore design thinking methodology, employ creativity tools, prompts, and sprints to become more agile and confident creative problem solvers.

**DES 197 (1-3) C****Work Experience-Graphic Design**

Integrates educational studies with supervised work/internship experience. Provides individualized opportunities to apply graphic design knowledge and skills in the workplace. Includes developing work experience learning outcomes and monitoring achievement through self-evaluation and faculty and supervisor evaluations.

**DES 230 (4) C****Graphic Design III**

This course covers the history and design of packaging: three-dimensionality, marketing insights, innovations in technology. We look at consumption and how packaging communicates to consumers. Projects include, for example, soda bottles, folding box packages and a line of products, mocked up to a high standard of polish.

**DES 231 (4) C****Graphic Design IV**

Explore advertising, art direction and photo direction, emphasizing expressive, creative and collaborative problem solving. Develop further research skills. Learn techniques for creating engaging ads for a variety of media and targeting the right market with the right messages.

**DES 232 (4) C****Graphic Design V**

Explores typographic rules, design principles, and grid formats for long documents as applied to print and screen-based media. Students research, strategize, and design long documents for both print medium and screen-based media. Prereq: Successful completion of the program through preceding quarter.

**DES 233 (4) C****Graphic Design VI**

Covers poster design as a form of visual communication. Emphasizes conceptual visual problem-solving for various audiences and outcomes. Solve various poster design problems with a variety of visual approaches, including typography, graphics, illustration and/or photography.

**DES 234 (4) C****Graphic Design VII**

Design and produce a corporate identity system, including trademark or logo and applied graphics, for a mix of visual applications for a business. Covers research, mind-mapping, creative development, contemporary design approaches, and creating a complete system.

**DES 235 (4) C****Graphic Design VIII**

Design and install the SCCA Portfolio Show. Working in teams, explore creative options to the layout and navigation of the show. Include 2-D and 3-D display installation options, print and web portfolios displays, motion graphics, internal and external signage in the planning.

**DES 236 (4) C****Graphic Design IX**

Acquire work contracts with a client and apply design skills in exchange for a fair wage or equitable trade. Gain practical experience with pricing and negotiating fees, writing proposals and design briefs, organizing efficient timelines, managing workflows, and applying basic accounting and business practices.

**DES 251 (4) C****Interactive IV**

Advanced principles of Interaction Design including eCommerce Websites, continued exploration of CSS Grid, prototyping tools, design thinking, design for the public good, social media strategies, and Content Management Systems (CMS) such as WordPress.

**DES 252 (4) C****Interactive V**

Introduction to Motion Graphics and how it relates to Web design and development. Focus on using Adobe AfterEffects to create video and animation projects for web, TV, and Film.

**DES 253 (4) C****Interactive VI**

Final Capstone project which utilizes all skills acquired in the previous quarters along with public speaking and whiteboard interview practice and the production of their personal portfolio web site.

**DES 260 (4) C****Portfolio Prep**

Develop, design and prepare a portfolio that represents individual creativity and demonstrates skills for seeking employment in the Graphic Design field. Develop a personal business card and stationery.

**DES 270 (4) C****Environmental Graphics I**

Explores graphic designs that are sensitive to human scale in built and natural environments, including way-finding systems, informational signs and symbols, exhibit design and ornamental solutions.

**DES 280 (4) C****Special Projects I**

First of three courses that expand current graphics design knowledge and skills through work on a major self-initiated design project. Emphasizes research and design process to reach a successful design solution.

**DES 281 (4) C****Special Projects II**

Second of three courses that expand current graphics design knowledge and skills through work on a major self-initiated design project. Emphasizes research and design process to reach a successful design solution.

**DES 282 (4) C****Special Projects III**

Third of three courses that expand current graphics design knowledge and skills through work on a major self-initiated design project. Emphasizes research and design process to reach a successful design solution.

**DES 299 (1-5) C****Independent Study - Graphic Design**

Independent study on selected graphic design topics.

**FINDING COURSES**

Course names and course prefixes are cross-referenced in an index beginning on page 227. For example:

**PREFIX TO COURSE**

HIN . . . . . Watch Technology

**COURSE TO PREFIX**

Watch Technology . . . . . HIN

Common Course Numbering explanation is on page 226.

**Health**

**HEA 90 (5) S**  
**Health**

The Health Education Course is designed to enhance the awareness and knowledge of healthy lifestyle choices. The six adolescent risk behaviors (tobacco use, dietary patterns that contribute to disease, sedentary lifestyles, sexual behaviors, alcohol and drug use, and behaviors that result in intentional and unintentional injury) will be addressed while advocating for the students to make healthy choices for their overall health. We will also cover mental and emotional health, and nutrition.

**HEA 125 (5) C|S**  
**Health and Wellness**

Overview of health as an individual and community-based social construct. Analyzes health determinants and health outcomes as a function of genetics, culture, environment and health behaviors. Emphasizes a holistic model and intellectual inquiry into what constitutes health and well-being.

**HEA 150 (5) N|S**  
**Health and Human Sexuality**

Wellness and human sexuality are examined as multidimensional subjects, with topics including but not limited to behavior, stress management, communicable and non-communicable disease, nutrition, physical activity and fitness, psychoactive substances, contraception, sexuality, and aging. Issues related to diversity and inclusion are incorporated into the above topics from both local and global perspectives.

**HEA 160 (5) S**  
**Human Wellness and Fitness**

A comprehensive study of human fitness and wellness. Fully explores topics in physical fitness, including exercise physiology and training concepts. In addition, the course explores basic concepts in nutrition, weight management, chronic disease prevention, and health promotion. Students will assess one's fitness level and will design an individual program to achieve and/or maintain fitness.

**HEA 225 (5) C|S**  
**Global Health**

Examines global patterns of health and disease as a function of economic, social and cultural determinants. Includes measurement of health outcomes, comparative analysis of health care systems, health and disease patterns of epidemiology, transnational disease, health inequalities and major players in global health.

**HEA 299 (1-5) C**  
**Independent Study: Health**  
Independent study in health education.

**Healthcare Services Management Bachelor of Applied Science**

**HSM 301 (5) C**  
**Principles of Healthcare Services Management**

Covers basic managerial functions of healthcare services such as planning, organizing, leading, and controlling resources to accomplish organizational goals.

**HSM 322 (5) C**  
**Human Resources**

Introduction to the functions of human resource management in health organizations with an emphasis on the relationship between human resources and organizational strategy.

**HSM 325 (5) C**  
**Financial Management in Healthcare**

Basics of healthcare financial management. Development of knowledge and skills to manage a departmental budget, capital budgets, and productivity and staffing resources.

**HSM 451 (5) C**  
**Healthcare Outcomes and Quality Management**

Overview of continuous quality improvement methods in healthcare systems. Covers the CQI process, data measurement and management, outcomes development, and outcomes assessment. Focuses on using quality data in the effective management of departmental processes and as a tool for the origination of departmental and hospital safety initiatives.

**HSM 476 (1) C**  
**Healthcare Services Management Capstone I**

The 1st of 3 successive capstone courses in Healthcare Services Management. A culmination of student learning. Students, collaborating with faculty & community mentors, synthesize the knowledge & skills to manage & complete a real-world project. Projects focus on one or more themes (e.g, education, systems improvement, etc). The 3 qtr. project concludes with a final paper & a presentation.

**HSM 477 (1) C**  
**Healthcare Services Management Capstone II**

The 2nd of 3 successive capstone courses in the Healthcare Services Management degree. A culmination of student learning. Students, collaborating with faculty & community mentors, synthesize the knowledge & skills to manage & complete a real-world project. Projects focus on one or more themes (e.g, education, systems improvement, etc). The 3 qtr. project concludes with a final paper & a presentation.

**HSM 478 (3) C**  
**Healthcare Services Management Capstone III**

The last of 3 successive capstone courses in the Healthcare Services Management degree. A culmination of student learning. Students, collaborating with faculty & community mentors, synthesize the knowledge & skills to manage & complete a real-world project. Projects focus on one or more themes (e.g, education, systems improvement, etc). The 3 qtr. project concludes with a final paper & a presentation.

## Hearing Impairment, Survey of

SPS 141 (9) C

### Sterile Processing Services 141

Provides advanced clinical practice to develop entry-level skills. Prereq: AHE 140 with a 2.0.

## High School Completion

HSC 41 (1-5) C|N|S

### Fine Arts Portfolio

Creation of a portfolio that demonstrates mastery of the learning outcomes required by the Washington State Board of Education for fine arts credit toward a high school diploma.

HSC 42 (1-5) C|S

### Health Portfolio

Creation of a portfolio that demonstrates mastery of the learning outcomes required by the Washington State Board of Education for health credit toward a high school diploma.

HSC 43 (1-5) C|N|S

### Language Arts Portfolio

Creation of a portfolio that demonstrates the mastery of the learning outcomes required by the Washington State Board of Education for language arts credit toward a high school diploma.

HSC 44 (1-5) C|S

### Lab Science Portfolio

Creation of a portfolio that demonstrates mastery of the learning outcomes required by the Washington State Board of Education for lab science credit toward a high school diploma.

HSC 45 (1-5) C|N|S

### Physical Education Portfolio

Creation of a portfolio that demonstrates mastery of the learning outcomes required by the Washington State Board of Education for physical education credit toward a high school diploma.

HSC 46 (1-5) C|S

### MATH Portfolio

Creation of a portfolio that demonstrates mastery of the learning outcomes required by the Washington State Board of Education for math credit toward a high school diploma.

HSC 47 (1-5) C|N|S

### Washington State History/Government Portfolio

Creation of a portfolio that demonstrates mastery of learning outcomes required by the Washington State Board of Education for Washington State History and Government. Course completion will fulfill the Washington State graduation requirement of 0.5 high school credit in WA State History and Government.

HSC 48 (1-5) C|N|S

### Occupational Education Portfolio

Creation of a portfolio that demonstrates mastery of the learning outcomes required by the Washington State Board of Education for Occupational Education credit toward a high school diploma. Course completion will fulfill the Washington State graduation requirement of 1 high school credit in Occupational Education.

HSC 49 (1-5) C|N

### Contemporary World Problems Portfolio

Creation of a portfolio that demonstrates mastery of the learning outcomes required by the Washington State Board of Education for Contemporary World Problems credit toward a high school diploma. Course completion will fulfill the Washington State graduation requirement of 1 high school credit in Contemporary World Problems.

HSC 50 (1-5) C

### United States History Portfolio

Fosters the creation of a portfolio that demonstrates mastery of learning outcomes required by the Washington State Board of Education for US History. Course completion will fulfill the Washington State graduation requirement of 1 high school credit in US History.

HSC 52 (1-5) N

### U.S. History 1

An introductory United States history and government course which addresses the Washington State Essential Academic Learning Requirements for high school social studies. Students will explore the development of US politics, society, culture, and economy through an analysis of the issues and events surrounding European colonization through Reconstruction.

HSC 53 (1-5) N

### Life Science

An introductory life science course. Includes an introduction to diversity of life, processes within cells, maintenance and stability of populations, and mechanisms of evolution.

HSC 54 (1-5) N

### Physical Science

An algebra-based introductory physical science course. Includes an introduction to scientific inquiry, motion, forces, energy, momentum, gravity, and machines.

HSC 55 (1-5) C

### Science Portfolio

Creation of a portfolio that demonstrates mastery of learning outcomes required by the Washington State Board of Education for science. Course completion will fulfill the Washington State graduation requirement of 1.0 high school credit in science. .

HSC 82 (1-5) N

### HSC Special Topics

Designed to allow for special course offerings that are responsive to student need and/or current and emerging topics.

## History

HIST& 126 (5) C|N|S

### World Civilizations I

The history of human societies from the earliest complex societies through the end of the ancient world (circa 500 C.E.), with particular focus on social, economic, political, intellectual, and artistic developments. Students apply a global perspective by studying ancient cultures, worldviews, and social institutions, as well as systems of thought and belief.

HIST& 127 (5) C|N|S

### World Civilizations II

The global history of medieval and early modern societies from 500 to 1750 C.E., with particular focus on social, economic, political, intellectual, and artistic developments. Students apply a global perspective by studying different worldviews and social institutions, as well as systems of thought, religion, science, and art, laying the foundations of the modern world. Includes emphasis on the increasingly global interaction of cultures in both enriching and exploitative ways.

**HIST& 128 (5) C|N|S**  
**World Civilizations III**

The history of the modern world from c. 1750 to the present, with particular focus on social, economic, political, intellectual, and artistic developments. Students apply a global perspective by studying different cultures, worldviews, and social institutions, as well as systems of thought and belief. Students will critically examine primary source material, such as written texts, artistic productions, and archaeological evidence.

**HIST& 136 (5) C**  
**US History 1**

Reviews U.S. history from the migration of the first Native populations through Reconstruction. Focuses on encounters, territorial expansion and development of political, social, cultural, legal and economic institutions affecting the populations in regions that became the United States.

**HIST& 137 (5) C**  
**US History 2**

Covers U.S. history from the Civil War to the present. Focuses on industrial and urban development, immigration, race, ethnicity and reform, politics, economics, social change and Americans at war.

**HIST& 146 (5) N|S**  
**US History I: America Until 1791**

Study of what is now the USA in its formative period, from its Native, European, and African origins to early nationhood. Emphasis on the American Revolution.

**HIST& 147 (5) N|S**  
**US History II: the 1800s**

Examines changes shaping American society in the 1800s: slavery, sectionalism, the Civil War, the westward movement, industrialization and emergence of the United States as a world power. Emphasizes social change and conflicts, including abolitionism, women's rights, labor, immigration, Manifest Destiny, Reconstruction, and the Gilded Age.

**HIST& 148 (5) N|S**  
**US History III**

Covers an era of conflict, war, uncertain peace, depression and great social changes. Emphasizes historical, economic, social, racial and political events that have formed the modern U.S.

**HIST& 214 (5) C|N|S**  
**Pacific Northwest History**

This course explores the histories of the Pacific Northwest, especially Washington State, from First Peoples through cultural contact, exchange, colonization, political and economic development. Emphasizes the growth of the Northwest in relation to national and global developments, foregrounding the dynamics of a multicultural society responding to environmental crises.

**HIST 90 (5) S**  
**Washington State History**

This course covers the historical development of the Pacific Northwest, with emphasis on the development of Washington State. A major component of the course is the pre-European settlement of the Pacific Northwest, including the geography, geology, and first peoples of the region. An examination of the historical trends and events that led to the settlement of the Pacific Northwest will be covered. Contemporary economic, political, and social problems are considered.

**HIST 91 (5) S**  
**US History I**

American History I covers significant events in Northern America from pre-colonial times to the formation of the United States as a new nation. Specific attention will be placed on Native Americans, Colonial Life, the French and Indian War, the American Revolution, and the development of a new American Government.

**HIST 92 (5) S**  
**United States History II**

This course will cover modern world historical events (primarily 20th Century) with a focus on the dominant issues that set the course of world history and the role of the United States in those events.

**HIST 131 (5) C**  
**Asian American History**

Surveys the experiences of Chinese, Japanese, Filipino, Korean, Asian Indian and Southeast Asians in the United States from the mid-19th century to the present. Major themes include imperialism, labor migration, racism, exclusionary immigration laws, community formation, and resistance.

**HIST 140 (5) S**  
**Women in American History**

Surveys U.S. women's roles, work, status, accomplishments, issues and movements, from the pre-Colonial period to the present.

**HIST 145 (5) C**  
**Women, Race and Class**

Focuses on the United States and its historical stratification by race, sex and class. Examines the experience of women in their own words, with emphasis on women of color. Examines 'her story' to help in understanding the conflict facing the divided women's movement.

**HIST 150 (5) C|N**  
**Race and Culture: an American History**

Surveys the making of the multicultural United States from indigenous homelands to settler colonialism. Examines the experiences of indigenous peoples, African Americans, Latinx Americans and Asian Americans in exposing the systemic race, class and gender oppression that generates wealth and power in the U.S., and how the struggles of people of color for political power, community well-being and cultural integrity embody the U.S.'s possibility for freedom and democracy.

**HIST 210 (5) C**  
**Contemporary Asia: Issues and Influences**

Focuses on contemporary issues and influences of selected Asian countries regionally and globally. Emphasizes responses to the problems and challenges of economic, political and social development.

**HIST 221 (5) N**  
**Sports & Social Change in the Twentieth Century**

Examines the development of sports and its importance for United States culture and society. Focuses on the struggles of athletes who resisted social restrictions, prejudices, gender and racial segregation and the role of sports in creating the diverse American society of the 20th century. Also explores the interplay between sports and immigration, technology, and globalization.

**HIST 240 (5) C**  
**Globalization, Power, and Resistance**

Explores globalization, empires, and former colonies. Critiques transnational power dynamics while exploring local resistance to protect small-scale and regional economies. Examines 'soft power' initiatives and diasporic migrations related to regions like Asia (where 60% of the world's population lives).

**HIST 269 (5) C****History of the Holocaust**

Interdisciplinary examination of the context and origins of the Holocaust, using history, film/documentaries and voices from the Holocaust. Emphasizes multiple perspectives, including perpetrators, victims, bystanders, resisters and rescuers. Analysis of modern institutions (nation-states, bureaucracies) and ideologies (anti-Semitism, scientific racism, nationalism) illuminates the meaning, impact and legacies of the Holocaust.

**HIST 281 (5) C****Queer and Trans History**

Introduces students to the emergence of Queerness and Transness as identity categories, the role of race, class, and gender in their formation, and the historical impact of Queer/Trans communities. Focuses on these categories and communities as they are historically situated in the Western Europe/United States context, and critically examines that relationship through a decolonial lens. Students will also learn to analyze literature as historical artifact.

**HIST 298 (1-5) C|N****Special Topics: History**

Independent study in selected history topics under faculty supervision.

**Hospitality****HOS 101 (1) C****Customer Service Practicum I**

Application of basic customer service theory in a full service restaurant or pastry case. Includes bussing, housekeeping, mise en place for both casual and formal restaurant settings; and customer service and sales techniques in bakery counter settings.

**HOS 102 (1) C****Customer Service Practicum II**

Students refine customer service skills by further practice in a pastry case or full-service restaurant. Includes dining room arrangement, buffet setup and wait staff duties. In the bakery counter setting, students practice product rotation and merchandising.

**HOS 103 (1) C****Customer Service Practicum III**

Students acquire expertise in customer service by performing opening/closing procedures, displaying French, English and Russian table service, and training bus staff.

**HOS 104 (1) C****Customer Service Practicum IV**

Introduction to leadership positions in the dining room. Mastery of French service; exhibition of tableside food preparation and service in a fine dining setting. Encompasses maitre d'hotel duties, supervision of opening/closing, training of wait staff and kitchen liaison duties.

**HOS 105 (1) C****Customer Service for Specialty Desserts Breads**

For desserts students. Students assume responsibility for opening/closing, sales, organization and merchandising of product and training of first-quarter students at a retail pastry case.

**HOS 108 (4) C****Dining Room and Kitchen Management**

Students experience supervisory roles in a variety of management situations in both the front and back of the house. This class also includes tableside cooking and service coordination for other students' chef of the day projects.

**HOS 110 (3) C****Principles of Sanitation**

Fundamentals of food service sanitation and its importance to the industry. Includes microorganisms in food spoilage and food-borne illness, ways of limiting microbial contamination and growth, creating a clean and sanitary environment, accident prevention and first aid, Material Safety Data Sheets, sanitation in crisis situations, principles of designing safe and sanitary kitchens and government regulations.

**HOS 111 (1) C****Introduction to Customer Service: Theory**

Introduction to the theory behind the operation of table service in a variety of dining environments. Instruction includes: dining room safety, professional service and etiquette, guest interaction, menu knowledge, ticket writing and use of a variety of dining room equipment. Students explore historical and modern restaurant ethics and culture.

**HOS 112 (0.5) C****Spreadsheets for Hospitality**

Introduces key tools and concepts in using business spreadsheet applications such as Microsoft Excel. Topics include elements of spreadsheet such as cells, rows, columns, and sheets, applying formatting, working with functions, tables, and charts. Focuses will be on Hospitality industry related tools and solutions.

**HOS 113 (2) C****Spreadsheets and Menu Planning**

This class introduces key concepts for using business spreadsheet applications such as MS Excel and teaches various menu layouts and designs using MS Word. Students will use proper language in the creation of menus with these software applications. They will review the basics of cell formatting, functions, and data manipulation in a spreadsheet, and perform weight to volume conversions while learning how to cost out recipes. A foundation for the COD notebook will be created during this course.

**HOS 122 (1) C****Purchasing and Inventory: Theory**

Intro to principles of inventory procedures. Encompasses formal and informal purchasing methods, flow of goods, food buying, legal and ethical purchasing considerations, market analysis, stock rotation, bid specifications, yield and cost comparisons, quality tests and inventory.

**HOS 123 (2) C****Costing, Purchasing and Inventory**

Explores connection between profit and food cost; discusses product waste and defines costing terms and purchasing units; introduces principles of inventory procedures; encompasses formal and informal purchasing methods, flow of goods, food buying, legal and ethical purchasing considerations, market analysis, stock rotation, bid specifications, yield and cost comparisons, quality tests and inventory.

**HOS 124 (2) C****Menu Planning & Recipe Development II**

Create a portfolio of tools needed to design, provision, produce, & lead the execution of a restaurant menu. Learn menu formats, styles, and function in a food business. Utilize technical writing skills to develop recipes for a student-created restaurant menu. Perform weight to volume conversions. Utilize software programs to design a menu, create order guides, manage budgets, inventory & food costs.

**FINDING COURSES**

Course names and course prefixes are cross-referenced in an index beginning on page 227. For example:

**PREFIX TO COURSE**

HIN . . . . . Watch Technology

**COURSE TO PREFIX**

Watch Technology . . . . . HIN

Common Course Numbering explanation is on page 226.

**HOS 127 (2) C**  
**Career Planning and Human Resources Management**

Exploratory course designed specifically for those in the Culinary field: Includes resume writing, interviewing for jobs and maintaining social media presence while fielding a Culinary career; maintaining wellness and mental health in a stressful environment; understanding human resources management concepts and introduction to hospitality law.

**HOS 138 (1) C**  
**Barista Theory I: Operations and Management**

In this theory companion to the HOS 139 practicum, students will identify the tools and equipment used to make espresso and coffee drinks: covers classic espresso drinks and how they are prepared, and customer service essentials and espresso program fundamentals. Students also learn an abbreviated history of espresso - the foundation of a fifteen-billion-dollar industry.

**HOS 139 (1) C**  
**Barista Lab I: Practical Applications**

Covers practical knowledge of contemporary barista service in a real-world setting. Students will apply methods and skills used to make and serve classic espresso-based beverages in a working coffee business, practice industry standards related to maintenance and upkeep of espresso-related equipment, demonstrate familiarity with proper food safety and sanitation procedures, and assess and requisition product inventory to maintain adequate supplies for the venue.

**HOS 197 (1-5) C**  
**Work Experience-Food and Hospitality**

Integrates educational studies with supervised work/internship experience. Provides individualized opportunities to apply food/hospitality knowledge and skills in the workplace. Includes developing work experience learning outcomes and monitoring achievement through self-evaluation and faculty and supervisor evaluations.

**HOS 201 (3) C**  
**Functions of Management**

Covers management and communication theories and practices within the culinary arts and baking industries. Includes intro to the hospitality industry and overview of the Americans with Disabilities Act, sexual harassment, as well as other legal and human resource topics. Presents communications skills, functions of management, beverage management, financial statement analysis and résumé writing.

**Hospitality Management  
 Bachelor of Applied Science**

**HMG 301 (3) S**  
**Introduction to Hospitality**

Survey of the various segments of the hospitality industry, including a brief history and current issues, with an emphasis on service.

**HMG 302 (5) S**  
**Hospitality Management**

Survey of management theories, functions, methods, and concepts applied to hospitality settings.

**HMG 303 (5) S**  
**Hospitality Marketing**

Incorporates theory and practice for an actual business, including elements of local store marketing and sales.

**HMG 310 (3) S**  
**Hospitality Computer Applications**

Explores the technology fundamentals and software applications for business functions and management practices.

**HMG 311 (3) S**  
**Lodging Operations**

Study of each hotel department by function and personnel. Presents concepts of yield management and revenue management in depth.

**HMG 312 (3) S**  
**Legal Issues in Hospitality**

Study of liability, dram shop laws, contracts, and innkeeper laws with the purpose of reducing the risk environment for operators.

**HMG 313 (3) S**  
**Entrepreneurship**

Concepts and issues related to new business ventures, including small businesses.

**HMG 314 (5) S**  
**Diversity and Culture in Travel and Tourism**

Learn the cultural principles and practices in domestic and international travel and tourism and the impact on hospitality businesses. Emphasizes diversity.

**HMG 401 (5) S**  
**Cost Controls**

Provides the basics of cost control management in the food and beverage industry within the Hospitality Industry by using standard cost control ratios to track labor and other expenses.

**HMG 402 (5) S**  
**Hospitality Accounting**

Explores the use of management tools for creating and analyzing operational effectiveness in the hospitality industry. In addition to credits, successful completion earns widely recognized national certification from the American Hotel and Lodging Association (AHLA).

**HMG 411 (3) S**  
**Human Resource Management**

Policy and practice of human resources utilization: selecting, training, motivating, evaluating and compensating employees; labor relations; EEO legislation.

**HMG 412 (5) S**  
**Service Operations Management**

Design and management of service systems in hospitality operations; control of customer interaction, personnel activities and inventory.

**HMG 420 (3) S**  
**Ethical Leadership**

Nature and sources of ethical conflicts and dilemmas leaders and organizations confront in the hospitality industry.

**HMG 489 (1) S**  
**Professional Career Development**

Preparation for industry employment, including résumé writing, interview skills, professional dress, and business etiquette.

**HMG 490 (3) S****Internship Lecture**

Tracks student requirement of 1000 hours of industry experiences.

**HMG 491 (5) S****Hospitality Management Capstone**

Project-based course integrating all components in the curriculum. This course is designed to help the student understand and apply cause and effect relationships between Performance Measures and their causes. By the end of the course students will be able to analyze the business situations, analytically think about the situation, and make their "evaluation and recommendations based on available information.

**Human Development****HDC 100 (1-3) C|N****Career Planning and Personal Evaluation**

Intro to a systematic approach to help the individual gain a better understanding of self relating to occupational interests and goals. Includes testing and discussions of values, interests and skills. Nominal career assessment fee.

**HDC 101 (1-3) C|N|S****Orientation to College Success**

Assists new students in their adjustment to community college. Includes goal-setting, self-motivation skills, identifying college resources, personal development and general study hints.

**HDC 102 (3) C****College Survival Skills**

Assists new and struggling students to identify and develop strategies for success in college and life. Includes learning effective study skills and use of college support services.

**HDC 119 (1-3) N****Stress Management**

Learning about the human stress response and building skills to accurately appraise and regulate the physiological response to stress. Includes functional understanding of the nervous system and evidence-based mind/body stress reduction strategies.

**HDC 125 (3) N****Learning Strategy for Math Success**

Identifies emotional and cognitive barriers to math learning. Covers research-based skills for strengthening math approach and performance. Includes learning styles, anxiety management, relaxation techniques, cognitive behavioral strategies, memory storage and retrieval, and other skills related to math success.

**HDC 197 (1-3) C****Leadership Practice and Application**

Integrates educational studies with supervised experience with student government, campus clubs/committees, or off-campus leadership activities. Provides individualized opportunities to apply knowledge and skills in the workplace. Includes developing work experience learning outcomes and monitoring achievement through self-evaluation and faculty and supervisor evaluations. Prereq: Permission.

**Humanities****HUM 105 (5) C|N|S****Intercultural Communication**

Examines the skills in communication and empathy required for intercultural communication. Includes an interdisciplinary study of diverse cultures and perspectives in the United States in the context of economic, political, and cultural globalization.

**HUM 107 (5) S****Introduction to Environmental Humanities**

Why do we think of "nature" as something apart from human "culture"? How have past representations of this disconnect informed our attitudes today? How can the arts and humanities help to create and maintain a more resilient and biologically diverse world during global ecological crisis? This introduction to ecocriticism in the humanities explores these questions and a wide range of ethical & political concerns for the environment, nonhuman animals, and environmental justice.

**HUM 110 (5) C|N|S****Introduction to American Film**

Examines Hollywood film-making as an art form, a business and a shaper of culture. View, discuss and critically analyze classics, features and documentaries for increased understanding of literary and artistic elements. Covers the impact of films on personal experience, American culture and the world.

**HUM 112 (5) C****Democracy and Capitalism**

Examines state formation in the context of global capitalism. Students will study the ways in which economic structures produce specific social relations of power - such as racism and patriarchy - and the role of the state in producing and reproducing these systems. Each class is structured around a unique theme. Past themes for this course have included prisons, struggles for Black liberation, and reproductive justice.

**HUM 119 (5) S****Graphic Novels: Art, Identity, and Storytelling**

This interdisciplinary course features comics, graphic novels, manga, and film to explore the diversity of graphic/sequential storytelling media as a product of culture. Students will put graphic storytelling media into conversation with meaningful aspects of human society, identity, and culture such as art, literature, history, and equity and social justice issues within a global context. They will develop creative, interdisciplinary, and multi-modal projects. Dual ENGL/HUM course.

**HUM 120 (5) S****Asian Cinema**

Introduces 20th and 21st century films/filmmakers of several Asian countries. Students will explore Asian film narratives that represent social, political and cultural movements in Asia. Invites students to connect AAPI identities and cultures to Asian cinema topics such as nationalism, representations of spiritual practice, borders/migration, war/empire, new technologies, storytelling, etc. Fulfills GS, IS, Comm, VLPA designations. Prerequisite: ENGL& 101 Placement.



**HUM 121 (5) S**  
**Issues in the Humanities**

Introduces students to a core humanities issue from multiple and interdisciplinary perspectives. Explores how the humanities intersect with various career, disciplinary, or academic pathways. Teaches the importance of interdisciplinary inquiry in research and provides models for how to formulate, undertake, and present projects. Emphasizes interdisciplinary inquiry and methods in the humanities (visual media, history, literature, philosophy). Includes readings, films, performances, and exhibits.

**HUM 125 (5) C**  
**Hip-Hop Theory and Culture**

Identifies and critically examines the theoretical foundations of hip-hop culture and rap music, the evolution of hip-hop philosophy and the community from which it originated. Analyzes the influences that the background, music and style of the hip-hop generation have upon a multicultural nation and world.

**HUM 130 (5) C|S**  
**World Cinema**

Survey of 20th and 21st century international films and filmmakers from around the globe. Course emphasizes the power of world cinema to tell culturally diverse stories representing and influencing social, political and cultural movements. Students learn basic terminology of film analysis and discuss representations of identity (ie: race, class, gender, nationality, and sexuality, etc.) within course films. Examines film techniques, themes, and narrative styles in global films.

**HUM 145 (5) C|N**  
**Film Genre**

Study of a particular film genre through a theoretical lens to discover its historical and cultural roots, significance, and context.

**HUM 150 (5) C**  
**Ways of Knowing**

Course in self-assessment or self-evaluation in which students will write and talk about their own education. Study of learning styles and exploration of our own learning styles in order to create a meeting ground.

**HUM 151 (5) S**  
**Introduction to Film**

This class provides an introduction to the basic tools of film analysis. We will examine how elements like mise-en-scène, cinematography, editing and sound work together to create meaning in a range of films. We will also examine how these elements are put together in different types of films—narratives, documentaries and experimental cinema—and how films function in society to circulate ideas and ideologies.

**HUM 197 (1-5) C**  
**Work Experience-Humanities**

Integrates educational studies with supervised work/internship experience. Provides individualized opportunities to apply humanities knowledge and skills in the workplace. Includes developing work experience learning outcomes and monitoring achievement through self-evaluation and faculty and supervisor evaluations.

**HUM 200 (5) N**  
**Reading the Media**

Examines the way cultural identities are constructed by and represented in contemporary media such as film, television, radio and newspapers. Prereq: Placement into ENGL& 101 (N).

**HUM 201 (5) C**  
**Cities and Power**

Examines the economic, political, and social organization of urban space. By studying current social issues like homelessness, gentrification, and police violence, students will explore the links between power, oppression in U.S. cities in the context of global capitalism. We will also explore how social movements have sparked important social changes.

**HUM 210 (5) C**  
**Introduction to LGBTQ Studies**

Introduces key themes and critical frameworks in Lesbian, Gay, Bisexual, Transgendered, and Queer (LGBTQ) Studies. Topics include histories of sexuality; forms of oppression including heterosexism, homophobia, and transphobia; resistance to oppression; violence against LGBTQ people; queer activism; diverse experiences of sexuality; and representations in literature, art, and popular media.

**HUM 270 (5) C**  
**Comic Books, Manga and Graphic Novels**

Survey the history of comic books, manga and graphic novels. Study cartoonists' works as channels of human expression and as evidence of changing and differing cultural conditions. Learn the basics of cartooning. Research self-chosen questions pertaining to 'sequential art.'

**HUM 289 (1-10) C**  
**Chinese Language Through Experiential Activities**

Self-paced experiential education for undergraduates who plan to take advantage of language study opportunities outside the USA, such as living with a family for total language immersion or attending a language school while studying the local cultures. All course requirements must be completed upon return to the USA.

**HUM 290 (1-10) C**  
**German Language Through Experiential Activity**  
See course description listed for HUM 289.**HUM 291 (1-10) C**  
**Spanish Language Through Experiential Activity**  
See course description listed for HUM 289.**HUM 292 (1-10) C**  
**French Language Through Experiential Activity**  
See course description listed for HUM 289.**HUM 293 (1-10) C**  
**Italian Language Through Experiential Activity**  
See course description listed for HUM 289.**HUM 294 (1-5) C**  
**Independent Projects**  
Independent projects based on humanities research.**HUM 297 (1-10) C**  
**Japanese Language Through Experiential Activity**

A self paced experiential education course designed for the undergraduate who plans on taking advantage of the language enhancement opportunities outside the USA, living with a family for total language immersion or attending a language school while at the same time studying the culture of the country.

**HUM 298 (1-10) C**  
**Portuguese Language Through Experiential Activity**  
See course description listed for HUM 289.

**HUM 299 (1-5) N**  
**Special Problems in Humanities**  
 An independent study/research course in the interdisciplinary field of humanities. Prereq: Permission.

### Industrial First Aid

**IFS 105 (1) S**  
**Ind 1st Aid/CPR-AED Bloodborne Pathogens**  
 Covers Industrial First Aid/CPR-AED instruction per the American Heart Association's Basic Life Support Curriculum. This course will also cover Bloodborne Pathogens using the American Academy of Orthopedic Surgeons curriculum.

### Information Technology

**IT 100 (5) C|N**  
**Information Technology Fundamentals**  
 Introduces computers and information systems, including hardware, software, data organization, data communications, systems development, cloud computing, and the constantly changing roles of Information Technology (IT) professionals, and the evolving role of computers in society.

**IT 102 (5) N**  
**Introduction to Programming**  
 Gain a basic understanding of the programming field. Learn to solve problems through programming logic and design and use efficient troubleshooting techniques to find and correct errors. This class features JavaScript, the language of interactive web pages. Recommended for students considering careers in application development, IT security, or network and server administration.

**IT 111 (5) C|N**  
**Programming Fundamentals**  
 Introduction to basic computing concepts and object oriented programming using an object oriented language such as Python, C# or Java.

**IT 112 (5) C|N**  
**Web Programming with Python**  
 This hands-on, project driven course uses Python and any contemporary framework, such as Django, to illustrate the creation of data driven web sites.

**IT 115 (5) C|N**  
**Intro to Software Development & Version Control**  
 Introduces hardware architecture and software systems that support web applications, development environments, and systems used to build, test and deploy applications. Explores processes utilized by developers to manage, version, test and deploy their work across \*nixes, BSDs, and windows systems.

**IT 116 (5) C**  
**Programming and Web Page Concepts**  
 Covers introductory concepts in HTML, CSS, scripting, procedural, and objects oriented programming languages.

**IT 120 (5) C|N**  
**Database Development**  
 Designed to provide students with an overview of database design and development.

**IT 121 (5) C**  
**JavaScript 1**  
 Examines computer programming theory and basics with the use of JavaScript language. Uses a hands-on approach to build interactive websites with JavaScript and demonstrates how to simplify the web development process with the use of jQuery. Studies several popular web techniques.

**IT 122 (5) C|N**  
**JavaScript 2**  
 Covers JavaScript technologies that power a modern full-stack development workflow, including server-side scripting, single-page web applications with Model-View-Controller (MVC) structure, package management, and JavaScript Object Notation (JSON) data storage. Includes building a fully-functional prototype application that can be referenced for job applications or future JavaScript-based projects.

**IT 124 (5) N**  
**Network OS 2 - Windows Server**  
 For those new to Microsoft Windows Server and responsible for installing, configuring, securing, managing and supporting a network infrastructure using Microsoft Windows Server. Provides knowledge and skills for designing a Microsoft Windows Active Directory Services infrastructure. Prereq: IT 122 or permission.

**IT 125 (5) C|N**  
**Intro to Data Analytics**  
 Introduces how to gather and organize data, analyze data-sets with use of Python, data analysis libraries, and statistical inference. Examines how to interpret data and effectively communicate data insights. The concepts and skills taught in this course prepare students for work in a variety of industries. Students build a portfolio project.

**IT 126 (5) N**  
**Network OS 3 - Windows Network Infrastructure**  
 Introduces networking features and functionalities available in Windows Server. Students will learn to implement and manage DNS, DHCP, and IPAM; deploy remote access solutions such as VPN and RADIUS; manage DFS and branch cache solutions; and configure high performance network features. Provides the prerequisite knowledge and skills for IT 128. Prerequisites: IT 124 or instructor permission.

**IT 128 (5) N**  
**Network OS 4 - Windows Active Directory**  
 Learn to plan, implement, secure, and manage Microsoft Windows Active Directory Services in an enterprise environment. Topics include: Active Directory Configuration; Group Policy Management; Certificate Management; and Digital Rights Management. Prereq: IT 126 or Permission.

**IT 130 (5) C**  
**Network Essentials**  
 Provides the background necessary to understand network technologies. The course serves as a general introduction for students who need a foundation in current networking technology for local area networks (LANs), wide area networks (WANs), and the Internet.

**IT 131 (5) C**  
**Network OS 1 Install Config Windows Server**  
 Covers the installation and configuration of a managed enterprise client operating system on stand-alone clients/computers that are part of a workgroup, domain, or cloud infrastructure. Includes configuration and implementation skills for creating a client for a LAN/WAN server structure using a directory based network. IaC (Infrastructure as Code) from the client perspective is introduced.

**FINDING COURSES**

Course names and course prefixes are cross-referenced in an index beginning on page 227. For example:

**PREFIX TO COURSE**

HIN . . . . . Watch Technology

**COURSE TO PREFIX**

Watch Technology . . . . . HIN

Common Course Numbering explanation is on page 226.

**IT 132 (5) C**  
**Network Operating Systems 2 - Server**

Covers how to: install managed enterprise-class servers in a LAN\WAN\Cloud configuration; implement a directory service to provide single sign-on; use a console to monitor systems; administer account, group, and enterprise policies; script common tasks; and study network protocols and services. Explores hypervisors, routing and remote access, DHCP, DNS, and business continuity.

**IT 133 (5) C**  
**Network OS3 Windows Network Infrastructure**

Focuses on administering enterprise class servers. Investigates IaC (Infrastructure as Code). Students learn to deploy advanced directory services, explore enterprise server tools using PowerShell & Python, and develop a foundation in the use & manipulation of enterprise systems operation applications. Specific attention is given to Authentication, Authorization, and Access to enterprise/Cloud objects.

**IT 135 (5) C|N**  
**TCP/IP**

Analyze and construct a networked application environment. Examine network path availability, fault tolerance, and cost in homogenous and diverse environments on many scales. Evaluate tool selection for best-of-breed and monolithic system environments. Perform maintenance, deployment, and auditing using PowerShell and Python.

**IT 138 (5) N**  
**Linux for Network Administration**

Intermediate course. Covers the organization of UNIX-based hardware components and software tools used by the host administrator to control access, tune the system, and account for system resources used. Focuses on UNIX tools, network schedulers, security, remote access, performance monitoring, and networking aspects of UNIX. Includes multi-user, multi-tasking, time-sharing networked communications, and set-up and maintenance of an Internet server. Prereq: IT 135 or permission.

**IT 141 (5) C**  
**Intro to Hardware Comptia A+**

Provides a basic understanding of hardware components in personal and portable computers/peripherals and how software interacts with the hardware. Provides hands-on experience installing/configuring components, recognizing problems, logically analyzing symptoms, and developing step-by-step troubleshooting procedures that may be applied to new and unexpected situations.

**IT 142 (5) C|N**  
**Introduction to Operating Systems**

Introduction to Windows and Linux operating systems. Covers the functions of operating systems. Students will install and configure Windows and Linux operating systems in physical and virtual environments, explore operating system functions via a graphical and command line interface, and use operating system utilities to backup, restore, image, defrag, device, process, and manage memory and user accounts.

**IT 144 (5) N**  
**Network Management - CISCO II**

The second of three classes, provides instruction in safety, networking, network protocols, LANs, WANs, Ethernet, LAN switching, Router IOS, TCP/IP Addressing, Router configuration, dynamic routing, static routing, and the network administrator's role and function, and the use of decision-making and problem-solving techniques to solve networking problems. Prerequisites: IT 142 or instructor permission. Computer Fee.

**IT 146 (5) N**  
**Network Management - CISCO III**

The third of three classes extends the student's knowledge and practical experience with configuring LANs, VLANs, switching, wireless, Wide Area Networks (WANs), network troubleshooting and management. Protocols covered include 802.1D, 802.11, Point-to-Point Protocol (PPP), BGP, DHCP, NAT/PAT, and Ipv6. Prerequisites: IT 142, IT 144, or instructor permission. Computer Fee.

**IT 150 (5) N**  
**IT Systems Security +**

Introduction to computer network security terminology, technology, and best practices as defined by the Computing Technology Industry Association's vendor neutral Security+ Certification and the International Information Systems Security Certification Consortium's vendor neutral Systems Security Certified Practitioner Certification. Prepares students to take the CompTIA Security+ and ISC2 SSCP exams. Prerequisites IT 120, IT 135, or instructor permission.

**IT 157 (5) N**  
**Ethical Hacking**

Students will learn offensive security techniques according to the Certified Ethical Hacker (CEH) methodology. Tools and testing networks will focus on the Linux operating system. Primary emphasis will be on open source platforms. Prereq: IT 135 and IT 150 or Permission.

**IT 161 (5) C|N**  
**Web Authoring 1**

Covers the fundamental mechanics of web page production starting with the absolute basics of creating properly structured websites using the HyperText Markup Language (HTML) and Cascading Style Sheets (CSS). Students will learn how to write their own code to create web pages that include text, links, images, tables, and forms as well as how to launch their website on the Internet using the File Transfer Protocol (FTP).

**IT 162 (5) C**  
**Web Authoring 2**

Explores how to write code to create modularly-built responsive websites that include a proper page layout, navigational structure, form validation and interactivity, and well-formatted and readable text to ensure accessibility across major browsers and devices. This course follows IT161, building on a student's existing knowledge of creating websites using HyperText Markup Language (HTML) and Cascading Style Sheets (CSS).

**IT 163 (5) C**  
**Web Authoring 3**

Design and develop a web standards compliant and responsive website. Utilize HTML5, CSS3, JavaScript & jQuery (client side) scripting and Bootstrap. Introduces emerging web related technologies. Create a final project to include in student's portfolio. Utilize Agile methodology and Github workflow to participate in a group project.

**IT 164 (4) C**  
**Typography for the Web**

Introduces the elements of traditional typography and brand identity as applied to web design to communicate information effectively using overall typographic principal and scale.

**IT 165 (3) C**  
**Graphics for the Web**  
No Description Available

**IT 166 (3) C**  
**Writing for the Web**

Provides an overview and detailed look at the user-centered design techniques used to write successful, human-readable and machine-readable search engine optimized copy for a website.

**IT 171 (5) C**  
**Theory of Web Design**

Examines the basic principles and practices of professional website design, including: discovery, site structure, page layout, navigation, color theory, typography, and best coding practices.

**IT 172 (5) C**  
**User Interface & Experience Design for the Web**

Provides a broad and detailed examination of how the User Interface & User Experience gets fulfilled via the design, functionality, features, and content of a website project while successfully achieving strategic business goals and user needs.

**IT 174 (5) C**  
**Usability Research Methods for the Web**

Provides an overview of the different design and user research methods that are conducted throughout a web design or redesign process in order to improve designs and experiences for end users. Methods include: Competitive Analysis, Heuristic Evaluation, Card Sorting and Usability Testing.

**IT 211 (5) C**  
**Object Oriented Programming with Java**

Explores how to code basic Java applications using an IDE. Students work with primitive types, control statements, strings, and arrays. They also learn how to use Object Oriented programming skills such as classes, objects, inheritance, and interfaces.

**IT 212 (5) C**  
**Data Structures and Algorithms with Java**

Covers advanced Java language features and programming concepts: collections, generics, exceptions, file I/O, graphics, recursion, sorting, searching, algorithm analysis, and dynamic structures such as lists, stacks, and queues.

**IT 214 (3) C**  
**Epic Essentials for Healthcare IT**

This course will cover an introduction to Epic, an integrated Electronic Medical Record (EMR) system, that is used in hospital systems and clinics both nationally and abroad. It will cover concepts and terminology specific to Epic as well as provide an overview of what the end user experience looks like. The course will also cover ways IT professionals work within Epic in an entry-level role.

**IT 216 (5) C**  
**Android Application Development 1**

This course introduces students to the fundamentals of mobile application development with Android. Students design user interfaces and implement app features while utilizing Object Oriented programming and Android programming paradigms.

**IT 217 (5) C**  
**Android Application Development 2**

Builds on the basic Android development skills from IT 216 and extends Android development to more advanced topics such as working with menus and preferences, fragments, threads, services, notifications, databases and content providers.

**IT 221 (5) C**  
**SQL**

Introduces the use of the relational database language SQL to access, summarize, and alter database information, as well as to create and alter database objects.

**IT 222 (5) C**  
**Designing Database Solutions**  
No Description Available

**IT 223 (5) C**  
**Database Administration**

Provides practice with administrative activities, security and backup on a Relational Database Management System (RDBMS), using Administrative SQL and other RDBMS tools offered by the Relational Database Management System.

**IT 225 (5) C**  
**Systems Analysis**

Analyze complex systems for development using various tools and approaches that reflect current industry practices.

**IT 228 (5) C**  
**Capstone**

No Description Available

**IT 229 (2) C**  
**Software Development Career Strategies**

Provides resources, strategies, & techniques for software development job search and placement. Learn how to research employers and understand the interview and hiring processes. Create industry-oriented resumes, cover letters, and portfolios. Practice programming interview questions, discuss problem-solving strategies, and learn about online resources. Soft, or behavioral, interview questions are also discussed.

**IT 231 (5) C**  
**Linux Fundamentals**

No Description Available

**IT 232 (5) C**  
**UNIX for Network Administration**

An intermediate level course, covering the organization of Unix-based hardware components, and the Unix operating system software and tools the Unix host administrator uses to control access, tune the system, and account for system resources used. Unix tools network scheduler, security, remote access and performance monitoring will be covered. Networking aspects of Unix and the Internet will be examined.

**IT 241 (5) C**  
**CISCO 1**

No Description Available

**IT 242 (5) C**  
**CISCO 2**

Continuation of IT 241. Covers safety, networking, network protocols, LANs, WANs, Ethernet, LAN switching, router IOS, TCP/IP addressing, router configuration, dynamic routing, static routing and the network administrator's role and function. Emphasis on techniques to solve networking problems.

**IT 243 (5) C**  
**CISCO 3**

Third of three courses designed to expand knowledge and previously learned networking skills. Introduces and extends the configuration ability of Border Gateway Protocol (BGP), Layer 3 Switching, and Hot Standby Router Protocol (HSRP). Covers Enhanced Interior Gateway Routing Protocol (EIGRP), Wide Area Networks (WANs), & network troubleshooting. Includes Point-to-Point Protocols (PPP) & frame relay design, configuration, & maintenance.

**IT 250 (5) C**  
**Intro to Security for Computing**

Introduces securing resources on computing infrastructure or computing as a service. A survey of concepts, techniques, tools and processes to minimize attack surfaces, harden exposed access, create business continuity and repair or recover from attacks. Multiple operating systems, platforms and networks structures will be examined. CompTIA's S+ will be a guiding framework for class work.

**IT 257 (5) C**  
**Enterprise Applications**

This capstone course will investigate managing and maintaining enterprise applications in a highly integrated computing environment. Students will examine LAN and WAN server applications implementing a user environment from a case study. The focus will be on the user experience as server application access crosses the enterprise LAN/WAN security boundaries. A small business scenario will be the foundation for this survey of software tools and applications.

**IT 261 (5) C**  
**Web App Programming 1**

Covers the fundamentals of programming using a server-side scripting language such as Hypertext Preprocessor (PHP). Students learn basic programming skills in order to manage variables, control structures, and arrays, and learn to elegantly incorporate their scripts into their websites, to create dynamic web pages and gather data from HTML forms.

**IT 262 (5) C**  
**Web Application Programming 2**

This course builds on IT 261 with more advanced server-side scripting. Students learn how to collect data from forms and to store and retrieve data from a database. Proper coding conventions, security, and code organization are emphasized.

**IT 270 (5) C**  
**Content Management Systems with Wordpress**

Overview of the basic principles and practices of professional website design and development while focusing on content management and custom theme creation using WordPress (an open source technology).

**IT 286 (5) C**  
**Advanced Web Design Project**

Provides both design and development students with the hands-on experience of designing and producing an effective web site for a live client while practicing a team workflow process.

**IT 289 (2) C**  
**Web Career Strategies**

This course provides resources, strategies and techniques for information technology job search and placement. Students create and revise industry-oriented resumes, cover letters and portfolios, and receive feedback from industry professionals and peers. Students learn job search techniques and practice interviews. Students learn to research employers, speak their language, and understand the hiring process from their perspective.

**IT 299 (1-5) C**  
**Independent Study: IT**

No Description Available

**ITL 197 (5) C**  
**International Cooperative Education**

Provides an opportunity to earn academic credit for work experience or volunteer service in an international setting. Supplemental assignments offer opportunities for research and reflection of experiences. NOTE: Job/internship/volunteer time and language school attendance must be verified.

**ITL 198 (5) C**  
**International Cooperative Education**

Provides students with an opportunity to earn academic credit for work experience or volunteer service in an international setting. Supplemental assignments offer opportunities for research and reflection of experiences. NOTE: Job/internship/volunteer time and language school attendance must be verified.

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**Integrated Studies****INTS 100 (10) N**  
**Integrated Studies**

Ten-credit Integrated Studies course organized around a theme.

**INTS 101 (8) N**  
**Integrated Studies Link**

Eight-credit Integrated Studies course consisting of two independent courses linked by a theme.

**INTS 102 (10) N**  
**Integrated Studies Link**

Ten-credit Integrated Studies course consisting of two independent courses linked by a theme.

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**International Business Bachelor of Applied Science****IBN 301 (5) N**  
**International Management**

This course lays the foundation of the global business environment - varying political, economic, and legal environments, globalization, international organizations, and regional integration. Students also explore the cross-cultural environment - the dimensions of culture, cross-cultural communication, motivation, leadership, and negotiation. Global human resources will also be studied.

**IBN 302 (5) N****International Marketing**

This course examines the fundamentals of marketing within a global context students learn the impact of economic, cultural, political, legal and other environmental influences on international marketing. They analyze international marketing cases, considering product, pricing, placement, and promotion. Students learn from lectures, discussions, international case studies, and group projects.

**IBN 303 (3) N****Ethics and International Business**

This course enhances the awareness of ethical issues connected with international corporate decision-making. It provides students with business strategies and frameworks needed to analyze and resolve ethical problems through case studies and shared dialog. An analytic section introduces concepts including corporate social responsibility and the moral decision making processes.

**IBN 310 (5) N****Operations Management**

Operations Management (OM) introduces processes that convert resources into goods/services and extends these to suppliers, distributors, and customers. The course offers an overview of operations, including operations strategy, system and process design, lean manufacturing/continuous improvement, global supply chain, production and workforce planning, inventory and materials management, and quality improvement.

**IBN 311 (3) N****International Business Law**

This course will examine common legal issues and risks that affect business transactions in the global marketplace. Students will learn the international legal framework, methods of resolving disputes (including litigation, arbitration, and mediation), joint ventures, trade agreements, international sales contracts, intellectual property issues, international labor matters, and risks of foreign direct investment. Prereq: BUS&201 Business Law, or BUS 200 Law & Society.

**IBN 320 (5) N****International Finance**

This course focuses on the environment in which the international financial manager operates. Students will study the risks of doing business in a global environment and the tools available to minimize those risks. Foreign exchange risk, political risk, working capital management, long-term investments, and financing as well as accounting and controls are examined within this context familiarity with the basic use of spread sheets is needed. Prerequisites: ACCT& 202, MATH 160.

**IBN 330 (4) N****Data Analytics in Business and Accounting**

Ongoing business operations require accountants to work with vast amounts of data generated daily. Data analytics helps businesses improve business intelligence, identify process improvements, and increase operational efficiency by uncovering valuable insights within their financial information. This course covers understanding and visualizing data, scientific decision making, and predictive data analysis.

**IBN 350 (5) N****International Business Practicum**

This course is designed as an immersion experience in a student's non-native culture or language. The practicum can be completed through a variety of means, including (but not limited to) an educational excursion to a country where the primary culture or language is different from the student's native language or culture; working or volunteering in a non-profit or business that communicates primarily in a non-native language or serves a population from a non-native culture.

**IBN 401 (5) N****International Project Management**

This course focuses on project management using the traditional approach of planning, scheduling, monitoring, and control within the broader global context. The course will cover the basic methodologies and tools of the project manager, the technical and management challenges he/she may face, and the strategic perspective of project management within the global environment.

**IBN 402 (5) N****Management of Information Systems**

This course offers an overview of how businesses use information technologies and systems to achieve corporate objectives - including achieving operational excellence, developing new products/services, enhancing decision making, and achieving competitive advantage. Students will learn about a variety of issues facing organizations—infrastructure, security, business intelligence, networking, the Internet, telecom, wireless, enterprise applications, e-commerce, and ethics. Several case studies will be examined.

**IBN 410 (5) N****International Entrepreneurship**

Overview of the international entrepreneurial process, examination of the marketplace, and discussion of successful business strategies. Product/service selection, selling and marketing strategies, and sources of information and assistance are addressed.

**IBN 420 (5) N****Global Business Strategy**

This course examines the fundamentals of business strategy development within a global context. Students learn to consider the impact of external environmental influences together with the constraints of an enterprise's internal strengths and weaknesses to develop a global strategy that competes in a competitive business environment.

**International Student Development****ISD 200 (1-3) C|N|S****Orientation to the American College**

Provides international students with the knowledge and skills necessary for success in an American community college

**International Studies****ISP 101 (5) C****The Global Society**

The Global Society

**FINDING COURSES**

Course names and course prefixes are cross-referenced in an index beginning on page 227. For example:

**PREFIX TO COURSE**

HIN . . . . . Watch Technology

**COURSE TO PREFIX**

Watch Technology . . . . . HIN

Common Course Numbering explanation is on page 226.

**ISP 201 (5) C**  
**The Making of the 21st Century**

Studies international political economy through facets/events of post-World War II era. Covers postwar changes leading to the creation of international financial institutions, rise of MNCs, emergence of the United States as a major power, globalization of production debt crisis and structural adjustment policies. Emphasis on Asian Pacific, South Asian, Sub-Saharan African and Latin American countries.

**ISP 205 (5) C**  
**Women in the Global Context**

Interdisciplinary intro to the study of women in Asia, Africa, Latin America, the Middle East and/or indigenous women in some Western societies. Explores commonalities and differences among women in various societies and cultures. Specific societies or regions covered vary by instructor.

**ISP 210 (5) C**  
**Contemporary Asia: Issues and Influences**

Contemporary issues and influences of selected Asian countries regionally and globally. Emphasizes responses to the problems and challenges of economic, political and social development.

**Japanese**

**JAPN& 121 (5) C|N**  
**Japanese I**

For students who have not previously studied Japanese. Intro to Japanese conversation, grammar, culture, and the Japanese Hiragana & Katakana writing systems.

**JAPN& 122 (5) C|N**  
**Japanese II**

Continuation of JAPN&121. Includes development of speaking, listening, reading, and writing skills. Introduces the kanji (Chinese character) writing system. Students learn to read up to 86 Kanji characters.

**JAPN& 123 (5) C|N**  
**Japanese III**

Continues the development of language skills in all areas. Presents another 60 characters.

**Landscape Horticulture**

**LHO 110 (5) S**  
**Integrated Pest and Weed Management**

Learn the principles of plant health care, integrated pest and weed management for landscape plants. Recognize common landscape weeds and invasive species. Basic information on integrated strategies for insect, disease and weed management. Covers Washington State pesticide laws, safety, and environmental concerns. Preparation for the WSDA pesticide license exam with the goal of obtaining a pesticide applicator/consultant license.

**LHO 111 (4) S**  
**Greenhouse Operations**

Experience plant growth and development through crop production. Manage plant health, environments and growth media from propagation to sales. An introduction to greenhouse structures and systems.

**LHO 115 (4) S**  
**Fall Plant Identification**

Using fall seasonal features of interest, knowledge of plant adaptations, structures, and growth, identify and properly use ornamental shrubs, trees, vines, and ground covers adapted to and utilized in the Pacific Northwest landscapes.

**LHO 116 (4) S**  
**Winter Plant Identification**

Using winter seasonal features of interest, knowledge of plant adaptations, structures, and growth, identify and properly use ornamental shrubs, trees, vines, and ground covers adapted to and utilized in the Pacific Northwest landscapes.

**LHO 117 (4) S**  
**Spring Plant Identification**

Using spring seasonal features of interest, knowledge of plant adaptations, structures, and growth, identify and properly use ornamental shrubs, trees, vines, and ground covers adapted to and utilized in the Pacific Northwest landscapes.

**LHO 123 (5) S**  
**Residential Landscape Design**

Gain a conceptual foundation in manual drafting, design and the process for residential landscape design. Information on how to complete a landscape design from the preliminary diagram to the final conceptual planting plan including an introduction to CAD and the digital design process.

**LHO 136 (5) S**  
**Irrigation and Drainage**

Gain basic principles of hydraulics, irrigation systems, fixtures and apparatus to install, maintain and trouble shoot existing systems. Application of concepts through field work.

**LHO 139 (4) S**  
**Landscape Maintenance**

Covers sustainable maintenance practices, lawn management, tool and small equipment use, safety, landscape management plans, and the impact of design on maintenance requirements.

**LHO 140 (4) S**  
**Introduction to Arboriculture**

Explore the current science and practice of managing trees in urban landscapes. This course will help students prepare for the International Society of Arboriculture's Certified Arborist Examination.

**LHO 152 (3) S**  
**Soils**

Uncover the mysteries of soil through in-depth study of soil properties, management and conservation. Explore the plant-soil-water relationship, urban soils, assessment of soils on site, soil fertility and plant nutrition.

**LHO 155 (4) S**  
**Pruning**

Learn the art and science of pruning through lecture, demonstration, and extensive field practice. Develop skill at pruning broadleaf trees and shrubs, conifers, fruit trees, vines, and roses.

**LHO 189 (4) S****Introduction to Landscape Construction**

Introduction to the standards and procedures of the landscape construction industry. Covers the proper and accepted methods of a multitude of landscape installations. Includes construction specifications, project sequencing and safety practices.

**LHO 196 (4) S****Capstone: Planning and Design**

Integration of design concepts, processes, and plant knowledge to produce a landscape design. Preliminary diagram to final conceptual planting plan, including CAD and the digital design process. Emphasis on aspects of plant materials to achieve a pre-determined style, theme, or user response. Increase sophistication and use of plant selection, placement, planting patterns, and structures. On-site consulting and other professional services discussed and practiced.

**LHO 197 (1-7) S****Internship in Landscape Horticulture**

Students apply horticultural knowledge and skills learned throughout the LHO program directly to the local industry. Course credit can be earned through current employment or the development of opportunities found in conjunction with the WorkSource Office. Student must complete hours and submit a Training Agreement, Learning Outcomes, and a Self-Evaluation in order to pass. Prerequisite: Approval from a Faculty Mentor (Instructor) and Embedded Career Specialist.

**LHO 198 (3) S****Greenhouse and Nursery Practicum**

Hands-on application of knowledge, and development of skills in nursery and greenhouse plant production, propagation, maintenance, marketing and retail sales. Includes Saturday Garden Center open dates. Prerequisites: LHO 111 or instructor permission.

**LHO 210 (4) S****Plant Problem Diagnostics**

Learn to diagnose and manage plant problems and write prescriptions for their management: insect, disease, cultural, and environmental maladies. This course will stress a total plant health care approach that utilizes cultural, biological, and chemical strategies. Pesticide recertification credits available pending WSDA approval.

**LHO 215 (4) S****Plant Propagation**

Learn the art and science of plant propagation by seed, cuttings, and division. Examine the art of grafting. Hands on instruction and field trips to plant production facilities. Recommended for Success: LHO 111.

**LHO 250 (5) S****Small Business for Horticulture**

Introduction to the organization and operation of a horticulture-related small business. Includes success and failure factors through accurate estimating, and bidding individual projects, developing annual contracts, calculating business costs, minimizing and controlling risk. Guidance in how to write a business plan. Familiarization with industry opportunities and standards.

**LHO 255 (4) S****Edible Trees Shrubs and Vines**

Explore edible perennial plants and the benefits of their incorporation into the landscape, community and home gardens. Examine their impact on resources and urban sustainability. Covers selection, culture, maintenance and siting of plants through field trips, site visits and in-service learning.

**LHO 296 (5) S****Capstone: Implementation**

The second capstone course. A start to finish experience installing the landscape project from LHO 196. From site analysis to planting, develop skills in standard trade procedures and techniques for residential landscaping. Covers care and safe use of tools used in landscape construction.

**LHO 299 (1-4) S****Special Topics**

Special individual or group study topic in the landscape horticulture field.

**Learning Center Seattle****LCS 90 (1-15) C****Learning Center Seattle 090**

Focuses on integrating basic skills instruction in the context of college and career readiness. Develops reading, writing, math, and communication skills to prepare for a high school equivalency credential as well as for entry into college programs and the world of work.

**Learning Communities****LCS 90 (1-15) C****Learning Center Seattle 090**

Focuses on integrating basic skills instruction in the context of college and career readiness. Develops reading, writing, math, and communication skills to prepare for a high school equivalency credential as well as for entry into college programs and the world of work.

**Library Research****INFO 101 (1-5) C|N|S****Introduction to Information Studies**

Develops critical thinking in the research process. Examine strategies for locating and using information resources. Emphasizes proficiency using electronic resources and other research tools and retrieval techniques. Explores information policy issues such as copyright, censorship and freedom of information.

**INFO 102 (1) S****Info in Action Research Basics**

Covers the process to get started with a research project and gain a solid understanding of research options.

**INFO 104 (1) S****Info in Action Research Databases**

Explores periodical databases for research purposes, including basic database structure and the variety of databases available. Focuses on research strategies and database features to retrieve and evaluate articles on a topic. Prereq: Eligible for ENGL& 101.

**INFO 105 (1) S****Info in Action Scholarly Information**

Intro to scholarly communications that form the basis of new information, including where these communications are published, how to search periodicals databases for scholarly articles, and how to evaluate and cite sources for academic research.

**INFO 106 (1) S****Info in Action Web Research**

Examines the Internet as a conduit for research information from a wide range of sources. Discover strategies for uncovering difficult to find deep web resources and evaluating content from multiple sources.



**INFO 300 (1-5) N**

### Information Literacy for Undergraduate Research

Explores strategies, topics, and concepts to develop research practices for Bachelor's level study. Focuses on in-depth investigation of the organization, retrieval, and evaluation of professional and discipline-specific digital and print information sources.

### Life Skills to Work

**LST 65 (14) S**

#### Life Skills to Work for Pre-College Success

This class is designed to provide students without a high school diploma instruction in life skills for pre-college success. Students will focus on learning math, reading, science and social studies by using everyday examples. In addition, there will be an emphasis on transitioning back into the community while preparing for high school completion alternatives and pre-college testing.

**LST 85 (4) S**

#### Stop the Turn Stile Lifestyle

This prep course provides the skills necessary for new KCCC/CCAP court referrals to jumpstart the cognitive learning process for GED and LSW classes.

**LST 91 (2) S**

#### Life Skills to Work Part 1

Course emphasizes the construction of resilience skills and healthy behavioral auto-pilots in order for justice-involved students to positively transition from the criminal justice system to post-secondary education, the workplace and society. The curriculum was designed for students who have experienced childhood trauma, as defined in the CDC-Kaiser Permanente Adverse Childhood Experiences study of 1998, to address student's criminogenic needs through a trauma-informed lens.

**LST 92 (2) S**

#### Life Skills to Work Part 2

Course emphasizes the construction of resilience skills and healthy behavioral auto-pilots in order for justice-involved students to positively transition from the criminal justice system to post-secondary education, the workplace and society. This curriculum was designed for students who have experienced childhood trauma, as defined in the CDC-Kaiser Permanente Adverse Childhood Experiences study of 1998, to address student's criminogenic needs through a trauma-informed lens.

**LST 93 (3) S**

#### Life Skills to Work Part 3

Course emphasizes the construction of resilience skills and healthy behavioral auto-pilots in order for justice-involved students to positively transition from the criminal justice system to post-secondary education, the workplace and society. This curriculum has been designed for students who have experienced childhood trauma, as defined in the CDC-Kaiser Permanente Adverse Childhood Experiences study of 1998, to address student's criminogenic needs through a trauma-informed lens.

**LST 98 (7) S**

#### Moral Reconciliation Therapy

No Description Available

### Linguistics

**LAN 101 (5) C**

#### Introduction to Linguistics

Intro to the study of natural language. Presents the similarities in the basics of language as an instrument of thought and communication. Covers the sources for cultural differentiation between all linguistic materials.

### Literature

**LIT 234 (5) C**

#### Telling Stories: Identity in History & Folklore

Analyzes the process of identity creation and declaration in mythology, history and folklore through myths, stories and historical events. Focuses on anecdotes, narratives and humor to delineate individual, national and group identities. Includes quarter-long group and individual projects.

### Marine Technology

**MGO 101 (3) C**

#### Introduction to Shop and Tools

Provides training in proper use of hand tools, power tools (both hand and stationary) and measuring instruments commonly used in mechanical trades. Covers safe work practices, including safety equipment, work procedures, etiquette and regulatory considerations. Includes fastenings, bearings, seals, gasketing methods and other relevant materials and equipment.

**MGO 103 (3) C**

#### Proficiency in Survival Craft

A study of survival craft commonly found aboard ships today. Training in lifeboat operation and handling congruous to that required for the U.S. Coast Guard rating of Lifeboatman. Includes lifeboat nomenclature and equipment, launching procedures, handling by oars, inflatables and other types of lifesaving equipment. Course is Coast Guard approved.

**MGO 105 (2) C**

#### Leadership and Management

Examines relevant concepts and principles in management, leadership and organizational communication as they apply aboard ship. Emphasizes instilling an attitude and work ethic required to realize the objectives of Social Responsibility advocated by the STCW Code. Satisfies the General Education Requirement in human relations.

**MGO 111 (3) C**

#### Seamanship

Study in seamanship to prepare for employment aboard ship. Includes training in seamanship congruous to that required for the U.S. Coast Guard rating of Able Seaman (AB). Includes nomenclature, ship structure, vessel equipment, deck fittings, knots and splices, rigging and watchstanding duties.

**MGO 112 (2) C**

#### Marlinspike

Practical instruction in use of line, cordage, wire rope and splicing methods. Includes reeving tackles and rigging stages, boat-swains' chairs, pilot ladders and emergency steering gear.

**MGO 119 (3) C****Marine Mathematics**

Reviews algebraic and trigonometric methods. Includes the basics of signed numbers, linear equations, fractions, percentages, plane geometry, measurement and variables which represent additional aspects of mathematics required to solve shipboard problems. Satisfies the General Education Requirement in computation.

**MGO 120 (2) C****Vessel Maintenance**

Practical experience in vessel cleaning maintenance procedures and routine operation of a ship. Tasks include washing, sanding, scaling, chipping, grinding, priming, painting, stenciling and other assigned work both on the interior and exterior of training vessels. Focus on proper technique, optimal resource utilization, cost effectiveness and corrosion prevention.

**MGO 123 (3) C****Basic Piloting and Navigation**

Introductory course focuses on chart navigation and basic methods of piloting. Emphasis on the use of charts and nautical publications, the IALS 'B' buoyage system and solving standard navigation problems. Learn to determine geographic and luminous ranges of lights; correct for compass error, set and drift; plot dead reckoning tracks, running fixes and lines of position; solve time, speed and distance equations; predict tides and tidal currents; calculate simple ETA; formulate anchorage procedures.

**MGO 124 (2) C****Basic Vessel Handling**

Covers fundamentals of ship handling for small vessels based on single-screw theory. Instruction in ship handling techniques includes backing and filling, 'Y-backing,' emergency stopping, flanking, and docking and undocking. Uses a small training vessel.

**MGO 127 (4) C****Fundamentals of Marine Electricity**

Fundamentals of AC and DC electricity and elementary electronics. Focuses on basic theory, measurements and instruments, routine maintenance of electrical components, and general operation of shipboard electrical systems.

**MGO 133 (6) C****Seamanship Practicum**

Introductory underway practicum. Receive indoctrination to both watchstanding duties and shipboard responsibilities of an able seaman. Perform all deck-related tasks one might expect to encounter when actually at sea. Involves 12-hour voyages weekly aboard SMA's training vessels.

**MGO 137 (2) C****Electronic Navigation AIDS**

An introductory course in standard electronic equipment and systems used to aid in navigation and communication. Topics covered include radar, gyro compass, depth-sounder, Loran C, RDF, GPS, GMDSS and radiotelephone. Receive specific training in radar piloting and collision avoidance theory using SMA's computer radar simulator.

**MGO 140 (2) C****Nautical Rules of the Road**

Provides a comprehensive study of navigation rules and regulations including purpose, technical provisions, and application. Provides a comparative study of the international (COLREGS) and inland (U.S. domestic) rules, with an emphasis on practical interpretation and application.

**MGO 147 (6) C****Marine Engineering Practicum**

Introductory underway practicum. Receive an indoctrination to both watchstanding duties and shipboard responsibilities of a marine engineer. Covers how to read vessel blueprints, trace machinery systems and troubleshoot simulated malfunctions. Involves 12-hour voyages weekly aboard SMA's training vessels.

**MGO 166 (6) C****Navigation Practicum**

Advanced underway practicum. Under supervision, assume role of mate aboard ship and be responsible for navigating the training vessel and operating all related navigational equipment as well as directing the deck crew while underway. Demonstrate competency, proficiency and confidence in navigating a vessel without guidance. Includes 12-hour voyages weekly aboard SMA's training vessels.

**MGO 177 (6) C****Advanced Engineering Practicum**

Advanced underway practicum. Under supervision, assume the role of Designated Duty Engineer aboard ship and be responsible for all facets of the operation of the engine room and related equipment while the training vessel is underway. Demonstrate competency, proficiency and confidence in running an engine room without guidance. Involves weekly 12-hour voyages aboard SMA's training vessels.

**MGO 200 (1-5) C****At Sea Internship**

Provides real-world at-sea experience on vessels of at least 500 gross tons that operate beyond the boundary line. During 30-60 day internship demonstrate mastery of the competencies outlined in Table A-II/4 of STCW for ratings forming part of navigational watch or Table A-III/4 of STCW for ratings forming part of an engineering watch.

**MTS 100 (2) C****Rating Forming Part of a Navigation Watch**

Students will learn the basic skills required for the STCW endorsement as Rating Forming Part of a Navigation Watch (RFPNW). Instruction will focus on helm and lookout watchstanding, as well as an introduction to the Collision Regulations (COLREGS).

**MTS 101 (2) C****Engineering for Deck Ratings**

This course is intended to provide deck program students with a survey of basic marine engineering nomenclature, principles, and systems. Emphasis is on subjects of particular relevance to deck crew members, including rounds, maintenance, fueling and other in-port operations, and pollution control.

**MTS 201 (2) C****Naval Architecture**

Survey of ship design and construction of all types of vessels. Emphasis on basic naval architecture and management considerations regarding ship structure. Includes hull structure and components, vessel design process, design stresses, tonnage measurements and load line assignments.

**FINDING COURSES**

Course names and course prefixes are cross-referenced in an index beginning on page 227. For example:

**PREFIX TO COURSE**

HIN . . . . . Watch Technology

**COURSE TO PREFIX**

Watch Technology . . . . . HIN

Common Course Numbering explanation is on page 226.

**MTS 202 (2) C**  
**Stability**

Covers principles, terms and procedures used in the determination of transverse, longitudinal and damage stability of ships. Includes physical laws affecting a floating body, effects of cargo operations, loose water, fuel consumption, grounding and flooding on vessel stability. Includes analyses of case studies involving loss of stability and how to perform trim and stability calculations.

**MTS 210 (2) C**  
**Marine Meteorology**

A non-mathematical intro to meteorology with specific emphasis on marine applications. Focuses on ocean weather phenomena as they impact vessel operations and the role of the ship's officer in observing, recording and analyzing developing weather patterns.

**MTS 212 (3) C**  
**Auxiliary Machinery and Ship Design**

Intro to auxiliary machinery. Includes heat exchangers, pumps, air ejectors, steering gear, distilling plants, pressure vessels, piping systems, and cargo handling equipment.

**MTS 217 (3) C**  
**RFPEW Introduction**

This course provides a basic introduction to engineroom watchstanding, with an emphasis on making good rounds, watch handover, log-keeping, and communication. Students will be introduced to principles of diesel engines and steam plants, and will learn common tasks that are routine to engine room operations.

**MTS 221 (4) C**  
**Applied Marine Electricity**

An applied course in AC and CD motors and generator applications. In this course the student will apply AC and DC electrical theory to typical marine equipment. Topics covered include: 3-phase circuits and transformers, DC machines, AC machines, batteries and power electronics. The student receives practical experience in operating marine electrical equipment in the laboratory, on a panel board simulator and aboard ship.

**MTS 223 (3) C**  
**Advanced Piloting and Navigation**

Continuation of MGO 123. Emphasizes advanced aspects of navigation and piloting essential to ocean voyaging. Studies methods for determining ETA of CPA by distance off; learn navigational techniques for ocean sailing and perform advanced ETA computations involving time conversion. Includes use of a sextant in determining position and range, measuring speed by RPM, fuel consumption and use of the speed log.

**MTS 228 (5) C**  
**Marine Hydraulics**

Basic survey course utilizing lectures, laboratory experiments, and practical demonstrations. Students will perform routine-maintenance, troubleshooting and repair of marine hydraulic equipment. The student will be required to disassemble, analyze and re-assemble various hydraulic components.

**MTS 233 (5) C**  
**Marine Refrigeration**

Fundamentals of refrigeration cycles, system components, common refrigerants, theory of operation and preventive maintenance techniques as they apply in the marine industry.

**MTS 257 (4) C**  
**Advanced Diesel Engines**

Continuation of MTS 217. Advanced training in the disassembly and rebuilding of marine diesel engines. Special emphasis on air intake systems, fuel injectors, governors, lubrication systems, cylinder wear, ring wear, piston clearances, bearing wear and crankshaft alignment.

**MTS 263 (3) C**  
**QMED: Diesel Engines**

Provides knowledge and understanding of diesel engine principles and component systems, while providing the student with practical applications/exercises in a laboratory setting to apply understanding of engine monitoring and demonstrate engine maintenance skills.

**MTS 284 (2) C**  
**Shipboard Pollution Prevention**

Using a non-technical format, review issues in pollution prevention and control as they impact on the duties and tasks performed by deck and/or engineering personnel onboard ship.

**MTS 285 (4) C**  
**QMED: Steam Applications/Turbines**

Combines theory and applied training in operating steam boilers and propulsion turbines. Covers the principles, operation, maintenance and repair of marine boilers.

**MTS 294 (2) C**  
**License Seminar**

Seminar on licensure knowledge requirements for deck/engineering candidates preparing to take the U.S. Coast Guard deck/engineering exams. Learn to consult and reference the Code of Federal Regulations, Title 46 and other publications.

**Math**

**MATH& 107 (5) C|N|S**  
**MATH in Society**

Intended for non-science majors; fulfills QSR requirement for AA Degree. Topics include financial computations (e.g. loans and interest), modeling linear and exponential growth (e.g. population growth and disease spread), and basic probability and statistics (e.g. understanding data and risk), with an emphasis on applications. Other topics selected by instructor.

**MATH& 131 (5) N|S**  
**MATH for Elementary Education 1**

Covers the mathematics elementary teachers are responsible for teaching at K-8 levels, including computing with whole numbers, fractions, decimals and percents; multiplicative comparisons and reasoning; ratio, rates, and proportions; negative numbers; algebra and graphing; relationships between time, distance and rate; patterns and functions.

**MATH& 132 (5) S**  
**MATH for Elementary Education 2**

Covers the mathematics elementary teachers are responsible for teaching at K-8 levels, including polyhedra, polygons, symmetry, tessellations, size changes, curves and curved surfaces, transformations, length, angles, area and surface area, volume, measure formulas, quantifying uncertainty, simulating probabilistic situations; sampling; and organizing and interpreting data with one and two variables.

**MATH& 141 (5) C|N|S**  
**Precalculus I**

The sequence Math& 141 and Math& 142 covers polynomial, rational, exponential and logarithmic functions; related functional and algebraic topics; topics in analytic geometry; systems of equations; trig and inverse trig functions; right triangle and oblique triangle trig; polar coordinates; vectors; and related trig applications. Fulfills the QSR requirement for A.A. degree.

**MATH& 142 (5) C|N|S**  
**Precalculus II**

The sequence Math& 141 and Math& 142 covers polynomial, rational, exponential and logarithmic functions; related functional and algebraic topics; topics in analytic geometry; systems of equations; trig and inverse trig functions; right triangle and oblique triangle trig; polar coordinates; vectors; and related trig applications. Fulfills the QSR requirement for A.A. degree.

**MATH& 146 (5) C|N|S**  
**Introduction to Statistics**

Covers descriptive methods, probability and probability distributions, samples, decisions, hypothesis testing and statistical inferences. Fulfills QSR requirement for A.A. degree

**MATH& 148 (5) C|N|S**  
**Business Calculus**

Explores introductory topics in differential and integral calculus, with particular emphasis on understanding the principal concepts and their applications to business.

**MATH& 151 (5) C|N|S**  
**Calculus I**

The sequence Math& 151, Math& 152 and Math&163 covers limits; differential calculus and its applications; integral calculus and its applications; an introduction to differential equations; Taylor series; vector geometry in three dimensions; multivariable calculus; partial differentiation; and double integrals in Cartesian and polar coordinates, and applications.

**MATH& 152 (5) C|N|S**  
**Calculus II**

The sequence MATH&151, &152 and &163 covers limits, differential calculus and its applications, integral calculus and its applications, intro to differential equations, series including Taylor series, vector geometry in three dimensions, multivariable calculus, partial differentiation, double integrals in Cartesian and polar coordinates and applications. Fulfills QSR requirement for A.A. degree.

**MATH& 163 (5) C|N|S**  
**Calculus 3**

The sequence MATH&151, &152 and &163 covers limits, differential calculus and its applications, integral calculus and its applications, intro to differential equations, series including Taylor series, vector geometry in three dimensions, multivariable calculus, partial differentiation, double integrals in Cartesian and polar coordinates and applications. Fulfills QSR requirement for A.A. degree.

**MATH 38 (3) C**  
**MATH 98 Support**

Math 038 is a support course designed to be taken concurrently with Math 98 to improve student success in the classroom. Covers prerequisite skills necessary to learn the content of MATH 98, such as arithmetic with real numbers, order of operations, algebraic expressions, slope-intercept form of a linear equation, solving equations, graphing, exponents and radicals and skills for academic success.

**MATH 41 (3) C**  
**MATH 141 Support**

Math 041 is a support course designed to be taken concurrently with Math& 141 to improve student success in the classroom. Covers prerequisite skills needed to learn the content of MATH& 141, such as order of operations, algebraic expressions, solving equations and inequalities, graphing, functions, using graphing calculators, and skills for academic success. This course also provides on-going support for the MATH& 141 course topics.

**MATH 46 (3) C**  
**MATH 146 Support**

Math 046 is a support course to be taken concurrently with MATH& 146, and is intended for students who have not met the MATH& 146 prerequisites. Covers those prerequisite skills necessary to learn the content of MATH& 146, such as numeracy, proportional reasoning, equations/formulas, inequalities, graphs, and skills for academic success.

**MATH 67 (3) C**  
**MATH 107 and 116 Support**

Math 067 is a course taken concurrently with either Math&107 or Math116 to improve student success in the college-level math course.

**MATH 80 (5) C|N**  
**Preparatory Mathematics**

Computer-based, self-paced math course covering all topics from Basic College Mathematics through Intermediate Algebra. Provides an opportunity to accelerate through the developmental math sequence.

**MATH 81 (5) C|N|S**  
**Basic Math Skills**

Covers operations with whole numbers, fractions, decimals and signed numbers, order of operations, ratios, proportions, percents, measurement, and geometry.

**MATH 83 (5) S**  
**Arithmetic**

High school-level course emphasizing the structure of the number system. Review of fundamental arithmetic, particularly the addition and subtraction of fractions and decimals. Intro to elementary algebraic concepts and primary concepts of probability, statistics and geometry. Reviews problem-solving strategies and applications.

**MATH 84 (5) N|S**  
**Algebra I**

Basic operations with algebraic expressions; solving and graphing linear equations and inequalities; solving absolute value equations; systems of linear equations; applications of linear equations and systems; laws of exponents; operations on polynomials.

**MATH 85 (5) N|S**  
**Algebra II**

Elementary algebra topics include factoring polynomials, operations on rational and radical expressions, graphing quadratic equations, solving quadratic, rational, and radical equations, and applications.

**MATH 86 (5) S**  
**Geometry I**

Covers points, lines and angles, triangles, parallel lines, polygons, proofs on congruence and similarity of triangles. Calculator required.

**MATH 87 (5) C**  
**Foundations of Algebra**

Basic concepts of algebra that form a foundation for Intermediate Algebra. Topics include evaluating expressions, properties of variables, solving basic linear equations and inequalities, graphing lines in slope-intercept form, interpreting slope and intercepts, solving systems of linear equations by graphing, basic rules of exponents, basic rules of roots, solving simple quadratic equations, and basic polynomial arithmetic.

**MATH 88 (5) C**  
**Intermediate Algebra in Context**

A quantitative reasoning course in which ideas, concepts, and skills from algebra are applied to real-world contexts. Designed, with MATH 087, to prepare non-STEM students for courses such as MATH 107, 116, and 146. Extensive collaborative learning is utilized. Technology is applied appropriately. Reading and writing are both central elements of the course.

**MATH 89 (1-5) N|S**  
**Independent Study of Basic Math**

Linked with math, physics and chemistry classes. Individual focus of study in arithmetic, algebra, study skills and math anxiety. You must meet with the instructor.

**MATH 90 (1-5) N|S**  
**Mathematical Modules**

This is a review and/or refresher course on different topics in math ranging from basic math to college algebra. It is in module form and can be taken anytime during the quarter. Computer with broadband connection required.

**MATH 91 (5) C**  
**Descriptive Statistics with Algebra 1**

For non-STEM majors. First of 3 Statway courses for teaching statistics with integrated algebra. Covers concepts and methods of statistics with emphasis on data analysis, collecting data, graphical and numerical descriptions, correlation and simple linear regression. Application problems are multidisciplinary and multicultural. Completion of Statway sequence results in credit for college-level statistics course.

**MATH 92 (5) C**  
**Descriptive Statistics with Algebra 2**

For non-STEM majors. Second of 3 Statway courses for teaching statistics with integrated algebra. Continuation of content from MATH 091. Completion of Statway sequence results in credit for a college-level statistics course.

**MATH 94 (5) S**  
**Introductory & Intermediate Algebra I**

Covers basic math review, linear equations and inequalities in one and two variables, systems of linear equations, and exponents and polynomials.

**MATH 96 (2) C**  
**Preparation for Intermediate Algebra**

A bridge course between the Foundations of Algebra course (MATH 087) and our Intermediate Algebra course (MATH 098). Designed for future STEM majors and those wishing to fulfill an Intermediate Algebra (MATH 098) prerequisite for transfer to a 4-year institution. Covers polynomial math, square root math, solving quadratic equations, and graphing parabolas.

**MATH 97 (5) N**  
**Elementary Algebra**

Includes linear and quadratic equations and graphs, inequalities, exponents, polynomials, and an introduction to rational expressions and radicals, all covered at an accelerated pace.

**MATH 98 (5) C|N|S**  
**Intermediate Algebra**

Covers real number system, polynomial, rational, radical, exponential and logarithmic expressions and equations, linear and quadratic graphs, linear systems of equations and intro to functions.

**MATH 99 (2) N**  
**Essentials of Intermediate Algebra**

Co-requisite course for Math& 107, Math in Society, and Math& 146, Introduction to Statistics. Covers algebra topics needed for students to be successful in Math& 107 or Math& 146. Topics include percents, ratios, rates, linear equations, function notation, negative and fractional exponents, and an introduction to exponential and logarithmic functions.

**MATH 102 (5) S**  
**College Algebra**

For students in Math and Science. Bridges the gap between Intermediate Algebra and Pre-Calculus functions. Strongly recommended in preparation for MATH& 141(S).

**MATH 110 (3) C|S**  
**Applied Math for Technicians**

Emphasizes application of mathematics in professional technical courses.

**MATH 116 (5) C|N|S**  
**Applications of Math: Mngmnt, Life and Soc Sci**

Explores functions and graphs as found in business and the social sciences. Students utilize linear, polynomial, exponential and logarithmic functions, solve systems of equations and inequalities, and learn applications of the growth of money.

**MATH 136 (5) C**  
**Inferential Statistics**

For non-STEM majors. Third of 3 Statway courses (MATH 091, 092, 136) for teaching statistics with integrated algebra. Continuation of content from MATH 092. Completion of Statway sequence results in credit for a college-level statistics course.

**MATH 140 (5) C**  
**Precalculus: Computer Based**

Examines polynomial, rational, exponential, logarithmic, & trigonometric functions; & related functional, algebraic, & geometric topics & applications. Computer-based, self-paced course requiring online access code. Replaces Math& 141 &/or Math& 142.

**MATH 198 (1-5) S****Mathematics Workshop**

A problem-solving workshop using math topics considered appropriate by the instructor. May include study skills, note-taking systems, test-taking strategies and group problem-solving approaches.

**MATH 211 (5) N****Elements of Statistical Methods**

The course will examine numerical and categorical data, analyze sampling distributions, perform inference on numerical and categorical data, and explore relationship between quantitative variables. A statistical programming language will be used for statistical computation and graphics. Prereq: MATH 116 or MATH& 141 with a 2.0 or higher, or placement test.

**MATH 220 (5) C|N|S****Linear Algebra**

Intro to linear algebra and its implications. Includes systems of linear equations, matrices, determinants, vector spaces, inner product spaces, eigenvalue problems, and similarity transformations.

**MATH 224 (5) C|N|S****Vector Calculus**

Continuation of MATH& 163. Includes vector-valued functions, vector fields, line and surface integrals and the theorems of Green, Gauss and Stokes, vector operators and the extension of the calculus to the vectors in 2-D and 3-D space.

**MATH 238 (5) C|N|S****Differential Equations**

Covers first order differential equations, second order differential equations, their applications, and Laplace transforms. Covers the elementary theory of differential equations and the interrelationship between pure mathematics and applied mathematics.

**MATH 299 (1-5) C|N****Independent Study**

Independent study of problems or topics of special interest.

**Medical Assisting****AMA 117 (5) N****Medical Terminology**

This course covers the terminology surrounding anatomy, physiology, pathology, tests, and treatments. The student will learn basic medical word structure and language. An overview of the body including cavities and regions, anatomical planes and directional terms, divisions of the spine, and individual body systems. Spelling, pronunciation, and listening are practiced. Open to all students in healthcare professions. Contact the Workforce Instruction Division at (206) 934-3790 or Advising at (206) 934-3658 for information and to register. Note: This course replaces AHI 100 Introduction to Medical Vocabulary. Permission required.

**Meteorology****MEY 100 (5) C****Meteorology**

Intro to the composition, structure, motions and origin of the atmosphere; forecasting; climates and how they have changed through time; and effects of human activities on weather and climate.

**Microcomputer Mgmt. / Computer Info. Systems****CIS 197 (1-5) C****Work Experience-Computer Information Systems**

Integrates educational studies with supervised work/internship experience. Provides individualized opportunities to apply computer information systems knowledge and skills in the workplace. Includes developing work experience learning outcomes and monitoring achievement through self-evaluation and faculty and supervisor evaluations.

**Multi-Occupation in Engineering and Technology****MOET 100 (20) S****MOET On the Job Training**

Course that recognizes the on the job training portion of the Multi Occupation in Engineering and Technology Degree. Credit is evaluated based on a portfolio developed documenting 6,000 hours of related industry on the job training.

**MOET 101 (1-5) S****Multi Occupation Engineering & Tech Orientation**

Introductory course for students pursuing the Multi Occupation in Engineering & Technology (MOET) AAS-T degree. Course orients students to the college and program including introduction to learning technology, college systems, preparation of portfolio, and preparation for learning in an online and classroom environment.

**MOET 210 (4) S****Capstone in Engineering & Technology**

The MOET Capstone is the culmination of the degree where students engage in a hands-on project related to sustainable technology.

**Music****MUSC& 105 (5) C|N|S****Music Appreciation**

Every culture on the planet creates and appreciates music. This course explores the deep human connections to music through the study of a variety of musical styles as they relate to history, culture, ethics, aesthetics, and technology. Students will develop listening skills and philosophical frameworks to increase their enjoyment and understanding of music.

**MUSC& 141 (5) C****Music Theory I**

Covers rudiments of music notation, scales, intervals and triads. Development of aural skills rhythmic, melodic and harmonic, through sight-reading and dictation. Includes simple music composition analysis and correlated keyboard exercises. For music majors and minors.

**FINDING COURSES**

Course names and course prefixes are cross-referenced in an index beginning on page 227. For example:

**PREFIX TO COURSE**

HIN . . . . . Watch Technology

**COURSE TO PREFIX**

Watch Technology . . . . . HIN

Common Course Numbering explanation is on page 226.

**MUSC 109 (5) S****World Beat: Global Studies Through Music**

Examines societal beliefs, identity, history, world view, values and aspirations expressed by selected non-Western cultures (or groups within these cultures) through music. Features both traditional and contemporary popular music.

**MUSC 110 (5) C|N****Introduction to World Music**

Covers the music of selected societies of the world within their cultural context. Using musical concepts on a cross-cultural basis, examine various cultural areas and societies.

**MUSC 111 (5) C****All About That Beat: Hip Hop and Jazz Syntheses**

This course explores the musical, cultural, genre melding connections of Urban Hip Hop with Jazz. Examines both isolated collaborations and ongoing points of influence, such as rhythm and beats, while identifying the different ways in which Hip Hop and Jazz Artists have embraced other styles, cultures in their own music.

**MUSC 113 (5) N****Music in the United States**

Overview of musical developments in the United States from Colonial times to the present, using live performances, videotapes and recordings. Examines contributions of ethnic/minority groups and the relevant social issues connected with these musical experiences.

**MUSC 116 (5) C|S****Rock Music I - Early Influences Through 1970**

Examines rock music as a musical, social, cultural, economic and political force. Emphasizes the early years of rock music development through 1970. Highlights include the first wave of rock & roll in the 1950s, black pop of the 1960s (Motown and Stax Records), and psychedelic rock. Fulfills the Integrated Studies and US Cultures requirement.

**MUSC 117 (5) S****Rock Music II: Rock Music 1970 - Present**

Examines rock music as a musical, social, cultural, economic and political force. Emphasizes rock music evolution post-1970. Highlights include heavy metal, punk rock, dance oriented pop, grunge, and indie - as well as rock music influences on other genres such as country and hip hop. Fulfills the Integrated Studies and US Cultures requirement. Rock Music I is not a prerequisite.

**MUSC 118 (5) C****Electronic Music: Origins to Edm**

The course will survey the history of Electronic Music from its early Twentieth Century roots to present day Electronic Dance Music (EDM). The course will focus on technological innovations and the applications of those technologies resulting in compelling electronic music compositions and respective electronic music genres world-wide.

**MUSC 119 (2) C****Beginning Group Instruction: Voice**

Students explore and strengthen their individual singing voice. Technique and repertoire are major focuses. Expressivity and overall musicianship are fostered. Students learn about the wide variety of communication tools available to them. Importance of lyric analysis, awareness of melodic shapes, and overall interpretation is stressed. Pieces are chosen based on student's needs as well as tastes. Open to all levels.

**MUSC 120 (2) C****Intermediate Group Instruction: Voice**

Continuation of MUSC 119. Students continue to explore and strengthen their individual singing voice, develop greater technique, choose voice-specific repertoire, and memorize musical literature. Importance of lyric analysis, awareness of melodic shapes, and overall interpretation continue to be stressed. Students will select pieces based on current skill level and personal preference.

**MUSC 124 (1-5) C****Create Music From Beats to Melody**

A fun and interactive approach to the study of basic musicianship and music fundamentals. Students learn the essential musical elements such as rhythm, melody, harmony, and to interpret them by ear and on the written page. Students are encouraged to use a digital audio workstation to create original music. This is a music class for beginning level students. No prior musical training is required.

**MUSC 125 (5) N****Creative Music Fundamentals**

Introduces basic music theory topics including music notation, meter, rhythm, scales, and key signatures, along with introductory piano and musical composition skills.

**MUSC 126 (5) C|S****Group Piano - Level 1**

As an introduction to piano in a group setting, students in this course develop foundations in piano technique and reading (music notation), along with improvisation and songwriting/composition basics. MUSC126 is the first in a sequence of group piano courses. No musical experience necessary. This course has an additional fee to cover course materials, practice room access, and take-home practice instruments.

**MUSC 127 (5) C|S****Group Piano - Level 2**

Students in this course continue to build their piano technique and reading (music notation) skills, and are introduced to new approaches to improvisation and songwriting/composition. MUSC127 is the second in a sequence of group piano courses. This course has an additional fee to cover course materials, practice room access, and take-home practice instruments.

**MUSC 128 (5) C|S****Group Piano - Level 3**

Students in this course continue to build their piano technique and reading (music notation) skills, and are introduced to new approaches to improvisation and songwriting/composition. MUSC128 is the third in a sequence of group piano courses. This course has an additional fee to cover course materials, practice room access, and take-home practice instruments.

**MUSC 130 (1-2) C|N|S****Individual Instruction: Voice**

Private instruction in vocal performance (singing) with a focus on technique, repertoire, and expressive musicianship. Instructor & student meet weekly for 10 lessons (1 cr. = 30 min/week; 2 cr. = 60 min/week) and co-create curriculum based on student's interests & goals. Open to all levels & may be repeated for credit. ADDITIONAL FEE charged for all individual instruction.

**MUSC 135 (1-2) N|S****Individual Instruction: Drums/Percussion**

Private instruction in drum set, hand percussion, and mallet percussion (when available). Instructor & student co-create curriculum based on student's interests & goals. Open to all levels & may be repeated for credit. Credit hours vary. ADDITIONAL FEE charged for all individual instruction.

**MUSC 136 (1-2) N|S****Individual Instruction: Songwriting/Composition**

Private instruction in songwriting and composition. Instructor & student co-create curriculum based on student's interests & goals. Open to all levels & may be repeated for credit. Credit hours vary. ADDITIONAL FEE charged for all individual instruction.

**MUSC 138 (1-2) C|N****Individual Instruction: Guitar**

Credit hours vary. May be repeated. An additional fee is charged for all individual instruction in this series. Prereq: Permission.

**MUSC 154 (1-2) N****Symphonic Band**

Features the finest in Wind band literature, both contemporary and traditional. Membership by audition.

**MUSC 160 (5) S****Blues to Hip Hop**

Explores the blues and other early African American musical styles, with a focus on how these styles influenced the development of rock, soul, funk, pop, and hip hop music and culture. Musical study in this course is placed within the historical context of social, economic and political forces within American society.

**MUSC 167 (5) S****Introduction to Songwriting**

In this course, students learn how to write songs in a variety of musical styles. Those with prior experience will further refine their songwriting craft. While the piano will be our primary instrument in class, students are encouraged to utilize other instruments they have experience with and/or access to. Piano keyboards will be available for students to check out for the duration of the quarter. No musical experience necessary, just bring your excitement to create new music!

**MUSC 171 (1-2) C|N|S****Individual Instruction: Piano**

Private instruction in piano. Instructor & student co-create curriculum based on student's interests & goals. Open to all levels & may be repeated for credit. Credit hours vary. ADDITIONAL FEE charged for all individual instruction.

**MUSC 185 (5) C|N****Computer Music and Recording**

Intro to the technical skills of electronic music production and recording. Covers the basic elements of music including listening, improvising, recording, arranging, mixing and digital editing. Create original music using stimuli. Learn mixing and audio production, including sound shaping, effects use and midi sequencing. Open to all students.

**MUSC 186 (5) C****Digital Music Production and Song Writing**

Sequel to Music 185. Expands knowledge of digital music production through learning intermediate level techniques for composing, producing, and performing songs. Covers computer-based recording, synthesis, and notation for the composer/arranger. Focuses on fundamentals of MIDI, sequencing, sampling, basic signal processing, and practical production skills using current digital technology. Includes writing of original material during lab sessions.

**MUSC 193 (5) N****Black Musical Expression & Identity: U.S.**

This course takes a cultural historical perspective on the musical expressions, and development of an ethnic identity (through music) by people of African descent in the United States. The course traces a variety of musical styles such as early slave songs, spirituals, gospel blues, jazz, funk and soul, rap and hip hop. It also explores the traditions of the rural South at the turn of the century and the oral expressions found on the streets of urban America throughout the United States

**MUSC 204 (5) C|N****History of Jazz**

Traces the roots of jazz in America, through films, lectures, recordings and live performances. Includes Rag, New Orleans, New York, Chicago, Kansas City, the Big Band era, Blues, Be-bop, Hard Bop, the New Thing, Free Form, Electric and Fusion Styles.

**MUSC 221 (2) C****Group Piano - 4th Quarter**

Continuation of MUSC128. Technique, repertoire, and theory, with emphasis on classical compositions.

**MUSC 222 (2) C****Group Piano - 5th Quarter**

Continuation of MUSC 221.

**MUSC 223 (2) C****Group Piano - 6th Quarter**

Continuation of MUSC 222.

**MUSC 299 (1-5) C****Practicum in Music**

Research musical performance in an area of interest determined by student and instructor.

**Network Infrastructure****NTI 400 (5) C****Identity & Information/Content Security**

Explores architectures & technology to enhance the security & trustworthiness of information delivery processes. Examines: identity management in a global marketplace; key laws managing content/data; & methods of risk management & risk control. Explores brand management & continuous delivery/content management for cloudcentric business models, & methods for information governance when working with enterprise & cloud content.

**NTI 440 (5) C****Devops and Enterprise Admin for the Cloud (SRE)**

Focuses on DevOps and SRE (Site Reliability Engineering) administration practices for Internet Services. Examine techniques to design, build, & run cloud services. Use core skills: UNIX/Linux system administration, networking, & hardware-based operating systems maintenance. Not a coding class. Investigate highly available, fast, & secure scalable services. Evaluate cloud systems against performance metrics.



**NTI 460 (5) C****DevOps Practicum, BASIT Networking**

Develop and deploy DevOps tools for either an external client/approved project. Determine suitability, cost benefit analysis, ongoing maintenance needs in deploying DevOps. For example: develop/implement a deployment plan to orchestrate infrastructure builds programmatically in the public cloud, use configuration management, & work with cloud native templates.

**NTI 470 (5) C****Internship/Capstone Project, BASIT Networking**

For the IT Networking (Bachelor of Applied Science) program. Students complete an internship or arrange to complete a capstone project, applying the skills learned in the classroom to the workplace. Students write a culminating paper, reflecting on their experience and integrating it with their classroom learning.

**New Media****NME 110 (6) C****New Media I**

Course provides students with authentic tasks and projects preparing them for real-world work demands encountered in their respective fields. Students work collaboratively in a project-based curriculum, exploring the role of communications in the context of New Media and society. Additional objectives of New Media are to develop skills that form the basis for future career work in the creative arts disciplines—all of which relate to general media—and to begin to establish professional contacts.

**NME 120 (6) C****New Media II**

This interdisciplinary SCCC Creative Academy course, second of a three-course series, brings together Graphic Design and Photography students to apply skills to complete integrative design assignments. Students are given authentic tasks and projects preparing them for real-world work demands encountered in their respective fields. Students work collaboratively in this project-based curriculum, exploring the role and interplay of design and communications in the context of New Media and society.

**NME 130 (6) C****New Media III**

This is the final of a three course series in which advanced techniques will be applied and explored. The course provides students from Design and Photography with authentic tasks and projects preparing them for real-world work demands encountered in their respective fields. Students work collaboratively in a project-based curriculum, exploring the role of communications in the context of New Media and society.

**Nursing – Associate in Nursing DTA/MRP****NURS 101 (4) C****Fundamentals of Nursing**

Introduction to the profession of nursing and core nursing concepts organized around the framework of Gordon's Functional Health Patterns. Covers principles of critical thinking, use of the nursing process, the role of the nurse in health care, cultural views of health, and principles of growth and development.

**NURS 102 (3) C****Medical-Surgical Nursing I**

Focuses on comprehensive understanding of the physiology of homeostasis and the effects of patient self-efficacy, culture, environment, and illness. Covers alterations of fluid and electrolyte balance, acid-base balance, chronic neurological conditions, sensory deficits, diabetes, and wound care from the perspective of Gordon's Functional Health Patterns.

**NURS 103 (3) C****Medical-Surgical Nursing II**

Focuses on the application of the nursing process to patients from the perspective of Gordon's functional health patterns. Emphasizes the care of adult patients with nutrition-metabolic, activity-exercise, and elimination functional health patterns. Pharmacology related to the course content and patient responses to cultural practices and beliefs are integrated.

**NURS 111 (2) C****Skills Lab I**

Builds upon the application of foundational nursing concepts and skills in the laboratory environment. Gordon's Functional Health Patterns and the nursing process are used as the framework for assessment and patient-centered care planning for patients with risk for or actual dysfunctional health patterns.

**NURS 112 (3) C****Nursing Practice I**

Builds upon the application of foundational nursing concepts discussed in prior and current nursing courses in supervised direct or simulated care for adult and gerontologic patients. Gordon's Functional Health Patterns and the nursing process are used as the framework for assessment and patient-centered care for patients at risk for or with alterations in functional health patterns.

**NURS 113 (1) C****Skills Lab II**

Builds upon and provides in-depth and advanced application of foundational nursing concepts and skills in a laboratory or simulated environment. Gordon's Functional Health Patterns and the nursing process are used as the framework for assessment and patient-centered care planning for patients with risk for or actual dysfunctional health patterns.

**NURS 121 (3) C****Nursing Practice**

Focuses on the application of foundational nursing concepts and skills in supervised direct or simulated care for adult and gerontologic patients in long term care settings. Gordon's Functional Health Patterns and the nursing process are used as the organizing framework for assessment and patient-centered care planning.

**NURS 123 (4) C****Nursing Practice II**

Builds upon the application of foundational nursing concepts discussed in prior and current nursing courses in supervised direct or simulated care for adult patients with medical-surgical conditions. Gordon's Functional Health Patterns and the nursing process are used as the framework for assessment and patient-centered care for patients at risk for or actual dysfunctional health patterns.

**NURS 132 (3) C**  
**Behavioral Health Nursing**

Focuses on application of the nursing process to patients from the perspective of Gordon's functional health patterns. Emphasizes care of patients with cognitive-perceptual, self-perception/self-concept, role-relationship, coping/stress-tolerance and sexuality-reproductive dysfunctional health patterns. Nurse/patient relationships, therapeutic communication, safety, related pharmacology, identification of barriers to care and the impact of cultural practices/beliefs are integrated.

**NURS 142 (3) C**  
**Behavioral Health Practice**

Builds upon the application of foundational nursing concepts discussed in prior and current nursing courses in supervised direct or simulated care for patients with behavioral health conditions. Gordon's Functional Health Patterns and the nursing process are used as the framework for assessment and patient-centered care for patients at risk for or actual dysfunctional health patterns.

**NURS 204 (5) C**  
**Medical-Surgical Nursing III**

Focuses on the application of the nursing process to patients from the perspective of Gordon's functional health patterns. Emphasizes the care of adult patients with nutrition-metabolic, activity-exercise, and health perception-health management dysfunctional health patterns. Pharmacology related to the course content and patient responses to cultural practices and beliefs are integrated.

**NURS 205 (4) C**  
**Medical-Surgical Nursing IV**

Focuses on the application of the nursing process to patients from the perspective of Gordon's functional health patterns. Emphasizes the care of adult patients with nutrition-metabolic, activity-exercise, cognitive-perceptual, health-perception/health-management, and self-perception/self-concept dysfunctional health patterns. Pharmacology related to the course content and patient responses to cultural practices and beliefs are integrated.

**NURS 206 (3) C**  
**Health Promotion and Managing Care in Nursing**

Overview of the major theories and models that guide health promotion interventions including environmental, sociocultural, and economic factors that influence health care practices. Emphasis is placed on evidence-based strategies to promote individual, family, and community health for diverse populations. Gordon's Functional Health Patterns serve as the organizing framework for assessing the health of individuals, families, and communities.

**NURS 214 (3) C**  
**Nursing Practice III**

Builds upon the application of foundational nursing concepts discussed in prior and current nursing courses in supervised direct or simulated care for adult patients with medical-surgical conditions. Emphasis is on nursing skills, communication, and clinical judgment in order to plan and implement evidence-based care for patients at risk for or actual dysfunctional health patterns.

**NURS 215 (3) C**  
**Maternal Nursing**

Focuses on application of the nursing process to maternal-newborn patients from the perspective of Gordon's Functional Health patterns. Emphasizes care of maternal-newborn patients at risk for or with actual nutritional-metabolic, activity-exercise, role-relationship, and cognitive-perceptual dysfunctional health patterns and adult patients with sexuality-reproductive dysfunctional health patterns. Related pharmacology and cultural practices and beliefs are integrated.

**NURS 216 (5) C**  
**Nursing Practice IV**

Expands upon the application of concepts discussed in prior and current nursing courses in a supervised or simulated care setting. Emphasis on nursing skills, communication, and clinical judgment in order to plan and implement evidence-based care for patients experiencing alterations in multiple dysfunctional health patterns.

**NURS 224 (3) C**  
**Pediatric Nursing**

Focuses upon application of the nursing process to pediatric patients from the perspective of Gordon's Functional Health Patterns. Emphasizes care of pediatric patients with risk for or actual alteration in nutritional-metabolic, activity-exercise, elimination, health-perception/health management, cognitive-perceptual, and self-perception/self-concept dysfunctional health patterns. Related pharmacology and specific cultural practices and beliefs are integrated.

**NURS 225 (1) C**  
**Maternal Practice**

Builds upon the application of foundational nursing concepts discussed in prior and current nursing courses in supervised direct or simulated care for maternity and newborn patients. Gordon's Functional Health Patterns and the nursing process are used as the framework for assessment and patient-centered care for patients at risk for or with alterations in functional health patterns.

**NURS 226 (3) C**  
**Transitions to Professional Nursing Role**

Focuses on leadership, management of care, and professionalism as the student transitions into the healthcare system as a professional nurse. Legal obligations, licensure requirements, organizational culture, self-care, healthcare informatics, and evidenced-based practice are emphasized.

**NURS 234 (1) C**  
**Pediatric Practice**

Builds upon the application of foundational nursing concepts discussed in prior and current nursing courses in supervised direct or simulated care for pediatric patients. Gordon's Functional Health Patterns and the nursing process are used as the framework for assessment and patient-centered care for pediatric patients at risk for or with alterations in functional health patterns.

**Nursing****NURS 101 (4) C**  
**Fundamentals of Nursing**

Introduction to the profession of nursing and core nursing concepts organized around the framework of Gordon's Functional Health Patterns. Covers principles of critical thinking, use of the nursing process, the role of the nurse in health care, cultural views of health, and principles of growth and development.

**FINDING COURSES**

Course names and course prefixes are cross-referenced in an index beginning on page 227. For example:

**PREFIX TO COURSE**

HIN . . . . . Watch Technology

**COURSE TO PREFIX**

Watch Technology . . . . . HIN

Common Course Numbering explanation is on page 226.

**NURS 102 (3) C**  
**Medical-Surgical Nursing I**

Focuses on comprehensive understanding of the physiology of homeostasis and the effects of patient self-efficacy, culture, environment, and illness. Covers alterations of fluid and electrolyte balance, acid-base balance, chronic neurological conditions, sensory deficits, diabetes, and wound care from the perspective of Gordon's Functional Health Patterns.

**NURS 103 (3) C**  
**Medical-Surgical Nursing II**

Focuses on the application of the nursing process to patients from the perspective of Gordon's functional health patterns. Emphasizes the care of adult patients with nutrition-metabolic, activity-exercise, and elimination functional health patterns. Pharmacology related to the course content and patient responses to cultural practices and beliefs are integrated.

**NURS 111 (2) C**  
**Skills Lab I**

Builds upon the application of foundational nursing concepts and skills in the laboratory environment. Gordon's Functional Health Patterns and the nursing process are used as the framework for assessment and patient-centered care planning for patients with risk for or actual dysfunctional health patterns.

**NURS 112 (3) C**  
**Nursing Practice I**

Builds upon the application of foundational nursing concepts discussed in prior and current nursing courses in supervised direct or simulated care for adult and gerontologic patients. Gordon's Functional Health Patterns and the nursing process are used as the framework for assessment and patient-centered care for patients at risk for or with alterations in functional health patterns.

**NURS 113 (1) C**  
**Skills Lab II**

Builds upon and provides in-depth and advanced application of foundational nursing concepts and skills in a laboratory or simulated environment. Gordon's Functional Health Patterns and the nursing process are used as the framework for assessment and patient-centered care planning for patients with risk for or actual dysfunctional health patterns.

**NURS 121 (3) C**  
**Nursing Practice**

Focuses on the application of foundational nursing concepts and skills in supervised direct or simulated care for adult and gerontologic patients in long term care settings. Gordon's Functional Health Patterns and the nursing process are used as the organizing framework for assessment and patient-centered care planning.

**NURS 123 (4) C**  
**Nursing Practice II**

Builds upon the application of foundational nursing concepts discussed in prior and current nursing courses in supervised direct or simulated care for adult patients with medical-surgical conditions. Gordon's Functional Health Patterns and the nursing process are used as the framework for assessment and patient-centered care for patients at risk for or actual dysfunctional health patterns.

**NURS 132 (3) C**  
**Behavioral Health Nursing**

Focuses on application of the nursing process to patients from the perspective of Gordon's functional health patterns. Emphasizes care of patients with cognitive-perceptual, self-perception/self-concept, role-relationship, coping/stress-tolerance and sexuality-reproductive dysfunctional health patterns. Nurse/patient relationships, therapeutic communication, safety, related pharmacology, identification of barriers to care and the impact of cultural practices/beliefs are integrated.

**NURS 142 (3) C**  
**Behavioral Health Practice**

Builds upon the application of foundational nursing concepts discussed in prior and current nursing courses in supervised direct or simulated care for patients with behavioral health conditions. Gordon's Functional Health Patterns and the nursing process are used as the framework for assessment and patient-centered care for patients at risk for or actual dysfunctional health patterns.

**NURS 204 (5) C**  
**Medical-Surgical Nursing III**

Focuses on the application of the nursing process to patients from the perspective of Gordon's functional health patterns. Emphasizes the care of adult patients with nutrition-metabolic, activity-exercise, and health perception-health management dysfunctional health patterns. Pharmacology related to the course content and patient responses to cultural practices and beliefs are integrated.

**NURS 205 (4) C**  
**Medical-Surgical Nursing IV**

Focuses on the application of the nursing process to patients from the perspective of Gordon's functional health patterns. Emphasizes the care of adult patients with nutrition-metabolic, activity-exercise, cognitive-perceptual, health-perception/health-management, and self-perception/self-concept dysfunctional health patterns. Pharmacology related to the course content and patient responses to cultural practices and beliefs are integrated.

**NURS 206 (3) C**  
**Health Promotion and Managing Care in Nursing**

Overview of the major theories and models that guide health promotion interventions including environmental, sociocultural, and economic factors that influence health care practices. Emphasis is placed on evidence-based strategies to promote individual, family, and community health for diverse populations. Gordon's Functional Health Patterns serve as the organizing framework for assessing the health of individuals, families, and communities.

**NURS 214 (3) C**  
**Nursing Practice III**

Builds upon the application of foundational nursing concepts discussed in prior and current nursing courses in supervised direct or simulated care for adult patients with medical-surgical conditions. Emphasis is on nursing skills, communication, and clinical judgment in order to plan and implement evidence-based care for patients at risk for or actual dysfunctional health patterns.

**NURS 215 (3) C**  
**Maternal Nursing**

Focuses on application of the nursing process to maternal-newborn patients from the perspective of Gordon's Functional Health patterns. Emphasizes care of maternal-newborn patients at risk for or with actual nutritional-metabolic, activity-exercise, role-relationship, and cognitive-perceptual dysfunctional health patterns and adult patients with sexuality-reproductive dysfunctional health patterns. Related pharmacology and cultural practices and beliefs are integrated.

**NURS 216 (5) C**  
**Nursing Practice IV**

Expands upon the application of concepts discussed in prior and current nursing courses in a supervised or simulated care setting. Emphasis on nursing skills, communication, and clinical judgment in order to plan and implement evidence-based care for patients experiencing alterations in multiple dysfunctional health patterns.

**NURS 224 (3) C**  
**Pediatric Nursing**

Focuses upon application of the nursing process to pediatric patients from the perspective of Gordon's Functional Health Patterns. Emphasizes care of pediatric patients with risk for or actual alteration in nutritional-metabolic, activity-exercise, elimination, health-perception/health management, cognitive-perceptual, and self-perception/self-concept dysfunctional health patterns. Related pharmacology and specific cultural practices and beliefs are integrated.

**NURS 225 (1) C**  
**Maternal Practice**

Builds upon the application of foundational nursing concepts discussed in prior and current nursing courses in supervised direct or simulated care for maternity and newborn patients. Gordon's Functional Health Patterns and the nursing process are used as the framework for assessment and patient-centered care for patients at risk for or with alterations in functional health patterns.

**NURS 226 (3) C**  
**Transitions to Professional Nursing Role**

Focuses on leadership, management of care, and professionalism as the student transitions into the healthcare system as a professional nurse. Legal obligations, licensure requirements, organizational culture, self-care, healthcare informatics, and evidenced-based practice are emphasized.

**NURS 234 (1) C**  
**Pediatric Practice**

Builds upon the application of foundational nursing concepts discussed in prior and current nursing courses in supervised direct or simulated care for pediatric patients. Gordon's Functional Health Patterns and the nursing process are used as the framework for assessment and patient-centered care for pediatric patients at risk for or with alterations in functional health patterns.

**Nutrition****NUTR& 101 (5) C|N|S**  
**Nutrition**

Introduction to human nutrition with an emphasis on the relationship of nutrition to growth, development, health, and physical and mental functioning across the lifespan. Sources, functions, interrelationships, and human requirements of proteins, carbohydrates, fat, minerals, vitamins and water will be examined. Topics also include analysis of personal dietary habits, public health issues such as obesity and access to food and food security, and the role of nutrition in chronic disease.

**Oceanography****OCEA& 100 (5) C**  
**Introduction to Oceanography**

Explores the basic fields of ocean science: geological, biological, chemical and physical oceanography. Investigates challenges related to the ocean such as natural disasters, climate change, whaling, and fisheries decline. Lab science.

**OCEA& 101 (5) C**  
**Introduction to Oceanography with Lab**

Explores the basic fields of ocean science: geological, biological, chemical and physical oceanography. Investigates challenges related to the ocean such as natural disaster potential, climate change, whaling, and fisheries decline. Lab science.

**Parent Ed****FAM 49 (1-3) S**  
**Parent Education Child Study Lab: 0-12 Months**  
No Description Available**FAM 51 (1-3) C**  
**Parent Education: 12-24 Months**  
For parents and toddlers ages 1-2 years**FAM 52 (1-3) C**  
**Parent Education: 12-24 Months**  
No Description Available**FAM 53 (1-3) S**  
**Parent Education Child Study Lab: 12-24 Months**  
No Description Available**FAM 54 (1-3) S**  
**Parent Education Child Study Lab: 12-24 Months**  
No Description Available**FAM 55 (1-3) S**  
**Parent Education Child Study Lab: 12-24 Months**  
No Description Available**FAM 61 (3) C**  
**Parent Education: 24-36 Months**  
For parents and older infants ages 6 months-1 year**FAM 62 (1-3) C**  
**Parent Education: 24-36 Months**  
No Description Available**FAM 63 (1-3) S**  
**Parent Education Child Study Lab: 24-36 Months**  
No Description Available

**FAM 64 (1-3) S**  
**Parent Education Child Study Lab: 24-36 Months**  
 No Description Available

**FAM 65 (1-3) S**  
**Parent Education Child Study Lab: 24-36 Months**  
 No Description Available

**FAM 71 (1-3) C**  
**Parent Education: 36-48 Months**  
 No Description Available

**FAM 72 (1-3) C**  
**Parent Education: 36-48 Months**  
 No Description Available

**FAM 73 (1-3) S**  
**Parent Education Child Study Lab: 36-48 Months**  
 No Description Available

**FAM 74 (1-3) S**  
**Parent Education Child Study Lab: 36-48 Months**  
 No Description Available

**FAM 75 (1-3) S**  
**Parent Education Child Study Lab: 36-48 Months**  
 No Description Available

**FAM 81 (1-3) C**  
**Parent Education: 48-60 Months**  
 No Description Available

**FAM 82 (1-3) C**  
**Parent Education: 48-60 Months**  
 No Description Available

**FAM 83 (1-3) S**  
**Parent Education Child Study Lab: 48-60 Months**  
 No Description Available

**FAM 84 (1-3) S**  
**Parent Education Child Study Lab: 48-60 Months**  
 No Description Available

**FAM 85 (1-3) S**  
**Parent Education Child Study Lab: 48-60 Months**  
 No Description Available

**FAM 93 (1-3) S**  
**Parent Education Child Study Lab: 24-60 Months**  
 No Description Available

**FAM 145 (1-3) N**  
**Parent Education: 0-12 Months**

Students with children, birth through 12 months of age, enroll in Parent Education/Child Study Laboratory classes. The students attend the laboratory class one day a week with their child and one evening each month. The Parent Education/Child Study Laboratory is financed by student fees in addition to required college tuition. Participation and attendance in these classes are required. The student is also expected to fulfill specific obligations of individual classes. Students are welcomed and encouraged to attend any other related workshops or classes offered in Parent Education or Early Childhood.

**FAM 146 (1-3) N**  
**Parent Education: 0-12 Months**

Students with children, birth through 12 months of age, enroll in Parent Education/Child Study Laboratory classes. The students attend the laboratory class one day a week with their child and one evening each month. The Parent Education/Child Study Laboratory is financed by student fees in addition to required college tuition. Participation and attendance in these classes are required. The student is also expected to fulfill specific obligations of individual classes. Students are welcomed and encouraged to attend any other related workshops or classes offered in Parent Education or Early Childhood.

**FAM 147 (1-3) N**  
**Parent Education: 0-12 Months**

Students with children, birth through 12 months of age, enroll in Parent Education/Child Study Laboratory classes. The students attend the laboratory class one day a week with their child and one evening each month. The Parent Education/Child Study Laboratory is financed by student fees in addition to required college tuition. Participation and attendance in these classes are required. The student is also expected to fulfill specific obligations of individual classes. Students are welcomed and encouraged to attend any other related workshops or classes offered in Parent Education or Early Childhood.

**FAM 148 (1-3) N**  
**Parent Education: 0-12 Months**

Students with children, birth through 12 months of age, enroll in Parent Education/Child Study Laboratory classes. The students attend the laboratory class one day a week with their child and one evening each month. The Parent Education/Child Study Laboratory is financed by student fees in addition to required college tuition. Participation and attendance in these classes are required. The student is also expected to fulfill specific obligations of individual classes. Students are welcomed and encouraged to attend any other related workshops or classes offered in Parent Education or Early Childhood.

**FAM 149 (1-3) N**  
**Parent Child Study Lab II**

Students are parents of children, birth through six years of age, who enroll in Parent Education/Child Study Laboratory. The students participate in the laboratory as able and attend parent education opportunities as scheduled. Students are welcomed and encouraged to attend other related workshops or classes offered in Parent Education or Early Childhood. This class is intended primarily for a second parent of a child in a Parent Education/Child Study Laboratory to enroll, with the first parent enrolled in a FAM 146-147-148, 156-157-158, 166-167-168, 176-177-178, or 187-188 course.

**FAM 155 (1-3) N**  
**Parent Education: 12-24 Months**

Students with children, 12 through 24 months of age, enroll in Parent Education/Child Study Laboratory classes. The students attend the laboratory class one day a week with their child and one evening each month. The Parent Education/Child Study Laboratory is financed by student fees in addition to required college tuition. Participation and attendance in these classes are required. The student is also expected to fulfill specific obligations of individual classes. Students are welcomed and encouraged to attend any other related workshops or classes offered in Parent Education or Early Childhood.



**FINDING COURSES**

Course names and course prefixes are cross-referenced in an index beginning on page 227. For example:

**PREFIX TO COURSE**

HIN . . . . . Watch Technology

**COURSE TO PREFIX**

Watch Technology . . . . . HIN

Common Course Numbering explanation is on page 226.

**FAM 177 (1-3) N**  
**Parent Education: 36-60 Months**

Students with children, 36 through 60 months of age, enroll in Parent Education/Child Study Laboratory classes. The students attend the laboratory class one day a week with their child and one evening each month. The Parent Education/Child Study Laboratory is financed by student fees in addition to required college tuition. Participation and attendance in these classes are required. The student is also expected to fulfill specific obligations of individual classes. Students are welcomed and encouraged to attend any other related workshops or classes offered in Parent Education or Early Childhood.

**FAM 178 (1-3) N**  
**Parent Education: 36-60 Months**

Students with children, 36 through 60 months of age, enroll in Parent Education/Child Study Laboratory classes. The students attend the laboratory class one day a week with their child and one evening each month. The Parent Education/Child Study Laboratory is financed by student fees in addition to required college tuition. Participation and attendance in these classes are required. The student is also expected to fulfill specific obligations of individual classes. Students are welcomed and encouraged to attend any other related workshops or classes offered in Parent Education or Early Childhood.

**FAM 184 (5) N**  
**Understanding Children**

This course is designed for students with children birth through 18 years of age in their care. The course enables students to extract and adopt principles applicable to parenting, teaching, and child development. There will be a different focus of study each quarter. Tuition is \$80.00 plus a \$35 Distance Learning fee for a total of \$115.00. For questions contact: beth.goss@seattlecolleges.edu, Mara.Mulcahy@seattlecolleges.edu or Betty Williams at (206) 934-4571. This course replaces FAM 180 Special Topics for Parents of Young Children.

**FAM 186 (1-3) N**  
**Parent Ed: 48-72 Months**

Students with children, 48 through 72 months of age, enroll in Parent Education/Child Study Laboratory classes. The students attend the laboratory class one day a week with their child and one evening each month. The Parent Education/Child Study Laboratory is financed by student fees in addition to required college tuition. Participation and attendance in these classes are required. The student is also expected to fulfill specific obligations of individual classes. Students are welcomed and encouraged to attend any other related workshops or classes offered in Parent Education or Early Childhood.

**FAM 187 (1-3) N**  
**Parent Education: 48-72 Months**

Students with children, 48 through 72 months of age, enroll in Parent Education/Child Study Laboratory classes. The students attend the laboratory class one day a week with their child and one evening each month. The Parent Education/Child Study Laboratory is financed by student fees in addition to required college tuition. Participation and attendance in these classes are required. The student is also expected to fulfill specific obligations of individual classes. Students are welcomed and encouraged to attend any other related workshops or classes offered in Parent Education or Early Childhood.

**FAM 188 (1-3) N**  
**Parent Education: 48-72 Months**

Students with children, 48 through 72 months of age, enroll in Parent Education/Child Study Laboratory classes. The students attend the laboratory class one day a week with their child and one evening each month. The Parent Education/Child Study Laboratory is financed by student fees in addition to required college tuition. Participation and attendance in these classes are required. The student is also expected to fulfill specific obligations of individual classes. Students are welcomed and encouraged to attend any other related workshops or classes offered in Parent Education or Early Childhood.

**FAM 196 (1-3) N**  
**Parent Ed: Special Programs**

This class is for students enrolled in Parent Education/Child Study Laboratory: Special Programs classes. The course format includes lectures, discussions, and laboratory experiences designed to explore current research as it applies to child development. Students also fulfill specific obligations of individual classes. The course enables students to extract and adopt principles applicable to parenting, teaching, and child development.

**FAM 197 (1-3) N**  
**Parent Education: Special Programs**

Students in this class may include children's teachers, as well as parents and caregivers, who enroll in the Parent Education/Child Study Laboratory. Students participate in the laboratory as able, and attend parent education opportunities as scheduled. Students are welcomed and encouraged to attend other related workshops or classes offered in Parent Education or Child Development.

**FAM 198 (1-3) N**  
**Parent Education: Special Programs**

Students in this class may include children's teachers, as well as parents and caregivers, who enroll in the Parent Education/Child Study Laboratory. Students participate in the laboratory as able, and attend parent education opportunities as scheduled. Students are welcomed and encouraged to attend other related workshops or classes offered in Parent Education or Child Development.

**FAM 199 (1-3) N****Parent Education: Special Program**

This class is for students enrolled in Parent Education/ Child Study Laboratory: Special Programs classes. The course format includes lectures, discussions, and laboratory experiences designed to explore current research as applies to child development. Students also fulfill specific obligations of individual classes. The course enables students to extract and adopt principles applicable to parenting, teaching, and child development.

**Pharmacy Technician (AHI)****PHA 115 (3) N****Orientation to Pharmacy Practice**

This course will review the contributions made by nations of the world to the practice of pharmacy past and present. Course will review the role of professional pharmacy organizations, past and present, to improving the practice of pharmacy and the role of pharmacy personnel. Students will also learn about new drug development, drug distribution, and the role of the pharmacy technician in drug procurement. Course material will cover the types of sites which currently employ pharmacy technicians including an analysis of the role of pharmacy technicians in these various job settings. Current trends which may effect the future direction for pharmacy technicians will also be discussed. Registration limited to students enrolled in the Pharmacy Technician program. Permission required.

**PHA 120 (3) N****Pharmacy Calculations**

Covers mathematics review with an introduction to calculations encountered in pharmacy practice. Registration limited to students enrolled in the Pharmacy Technician program. Permission required.

**PHA 130 (2) N****Over the Counter Drugs**

In this course students will learn common disorders in which consumers seek advice about self-treatment. This course reviews the use of non-prescription drugs for these selected disorders. Students also learn questions to ask consumers which will help the pharmacist determine whether self-treatment is indicated or additional medical care should be sought. Registration limited to students enrolled in the Pharmacy Technician program. Permission required.

**PHA 140 (3) N****Sterile Products and Aseptic Technique I**

Introduction to sterile products and aseptic techniques in hospital settings. The devices and manipulation techniques necessary to maintain sterility and mechanics of a hospital pharmacy are discussed and practiced in laboratory exercises. Registration limited to students enrolled in the Pharmacy Technician program. Permission required.

**PHA 141 (3) N****Sterile Products and Aseptic Technique II**

Continuation of PHA 140. Focus on the preparation of cardiac and other titerable drips, IV antibiotics, chemotherapy, IVPs and TPNs. Intro to hospital application software. Includes lab. Registration limited to students enrolled in the Pharmacy Technician program. Permission required.

**PHA 146 (2) N****Communications in Pharmacy Practice**

This course will examine communication processes to see how they are influenced by the values, behaviors and beliefs that are defined by culture. It will also explore communication within the pharmacy setting incorporating law.

**PHA 150 (3) N****Pharmacology I**

This course will review the principals of drug action including introduction to pharmacokinetics and pharmacodynamics. Students will also study the anatomy and physiology of the nervous system and discuss drugs used in the treatment of disorders of the nervous system. Registration limited to students enrolled in the Pharmacy Technician program. Permission required.

**PHA 151 (2) N****Pharmacology II**

This course is a continuation of PHA 150. Students will briefly study the anatomy and physiology of the cardiovascular system, gastrointestinal system, endocrine system, respiratory system. Emphasis will be placed on treatment of diseases of cardiovascular, gastrointestinal, and respiratory systems. Students will also discuss treatment of bacterial and viral infections. Registration limited to students enrolled in the Pharmacy Technician program. Permission required.

**PHA 160 (3) N****Pharmacy Technology I**

This course will review the history of computers in pharmacy, current practice applications, and future trends. Legal and ethical issues surrounding information collection and retrieval will also be addressed. The laboratory component of this course is designed to provide students with the skills and knowledge needed to process prescriptions using pharmacy software. Students will gain proficiency in the use of ambulatory care prescription processing software. Registration limited to students enrolled in the Pharmacy Technician program. Permission required.

**PHA 161 (3) N****Pharmacy Technology II**

This course is designed to introduce students to the TOP 200 drugs. Skills gained in PHA 160 will be integrated into this course. Students will use pharmacy software to process real prescriptions in the pharmacy lab. Computerized insurance billing and report generation will be explored. Students will be introduced to hospital and nursing home application software. Registration is limited to students enrolled in the Pharmacy Technician program. Permission required.

**PHA 170 (5) N****Pharmacy Records Management**

This course is designed to provide skills required to practice effectively in an ambulatory care practice setting. Students learn to interpret prescription contents, top 100 drugs, inventory control procedures, tasks associated with procurement of pharmaceuticals, to complete and file records for third party reimbursement and requirements for completing and filing prescription records. Registration limited to students enrolled in the Pharmacy Technician program. Permission required.

**PHA 180 (2) N****Healthcare Systems, Insurance and Billing**

Introduction to healthcare systems, pharmacy billing, and the contractual relationships between pharmacies, manufacturers, and wholesalers. Course covers basics of US healthcare, insurance overview, and current billing practices. Course will include workshops for practical skill development, such as billing insurance, problem-solving adjudication issues, prior authorization submissions and allocating resources for affordable patient medication costs.



**PHA 185 (3) N**  
**Pharmacy Law and Ethics**

Pharmacy Law and Ethics covers the federal and state laws governing pharmacy practice and the commonly encountered ethical dilemmas in the field of pharmacy. Introduces ethical decision making models and practical problem solving solutions that are utilized in the pharmacy.

**PHA 190 (1-13) N**  
**Pharmacy Technician Externship**

The pharmacy technician practicum is designed to enable students to obtain hands on experience in a pharmacy setting. Students are introduced to all aspects of the pharmacy technicians job at the site in which they have been placed. Students will be placed in at least two different settings (an inpatient setting and an ambulatory care setting). Inpatient settings include: nursing home, inpatient hospital, and home infusion. Ambulatory care settings include: chain pharmacy, independent pharmacy, and outpatient hospital/clinic pharmacy. Registration is limited to students enrolled in the Pharmacy Technician program. Permission required.

**PHA 191 (1) N**  
**Job Skills and National Exam Preparation**

This course will cover job hunting skills, resume, and cover letter writing techniques and the interview process. In addition, it will provide the necessary information for the students to complete the national exam.

**Philosophy****PHIL& 101 (5) C|N|S**  
**Introduction to Philosophy**

Introduction to philosophical thought and issues, intellectual systems, and the writings of various philosophers. Covers the nature of philosophy, the meaning of knowledge, values, reality, and related subjects.

**PHIL& 120 (5) C|N**  
**Symbolic Logic**

Symbolic logic provides a tool for analyzing and evaluating statements and deductive arguments. This introductory course focuses on both sentence and quantificational logic. The meaning of language and its place in the reasoning process is discussed and analyzed.

**PHIL 102 (5) C|N**  
**Contemporary Moral Problems**

Covers philosophical consideration of some of the major moral problems of modern society and civilization, such as discrimination, abortion, euthanasia, animal rights, world hunger and homelessness. Examines the issue of what means are justified in trying to bring about social change.

**PHIL 110 (5) N|S**  
**Introduction to Social Ethics**

Includes philosophical analysis of current or perennial issues in public affairs, such as the nature and scope of freedom in society, the justification of democratic government and the nature of social justice.

**PHIL 111 (5) N|S**  
**Introduction to Bioethics**

Examines ethical questions surrounding clinical medical practice, ethical issues in biomedical research and more general ethical questions concerning the maintenance and improvement of the health and well-being of communities at local and global levels. Focuses on newly emerging infectious diseases (AIDS, drug-resistant tuberculosis) and on environmentally-induced diseases, such as asthma, cancers, chemical sensitivity and reproductive disorders.

**PHIL 131 (1) C**  
**Ethics and Policy in Healthcare I**

Explores values, ethics, and legal decision-making frameworks and policies used to support the well-being of people. Introduces ethical and legal principles governing healthcare with a focus on nursing practice including historic milestones in nursing.

**PHIL 132 (2) C**  
**Ethics and Policy in Healthcare II**

The Ethics and Policy in Healthcare series explores values, ethics, and legal decision-making frameworks and policies used to support the well-being of people. This second course in the three-course series presents organizational structures, legal considerations, policies, procedures, and ethical principles/theories related to healthcare.

**PHIL 230 (2) C**  
**Ethics and Policy in Healthcare III**

The Ethics and Policy in Healthcare series explores values, ethics, and legal decision-making frameworks and policies used to support the well-being of people. This third course in the three-course series presents research, leadership, workplace issues, and ethical dilemmas in healthcare with an emphasis on nursing.

**PHIL 298 (1-5) C**  
**Independent Study in Philosophy**

Independent study in selected philosophical topics under faculty supervision.

**Physical Education****PEC 90 (5) S**  
**Physical Education**

Physical Education students will be involved in a variety of activities, designed to improve physical fitness, coordination and sport specific skills. Students may also develop content knowledge pertaining to nutrition, dieting, mental health, the development of fitness plans, and the ability to link the importance of physical activity with life-long endeavors. This course is designed for students to earn high school credit.

**PEC 131 (2) N**  
**Beginning Weight Training**

Beginning Weight Training develops muscular fitness through resistance training, using free weights and weight machines. Workouts consist of individualized programs developed to align with student goals and established weight training principles. In-time instructional feedback and assistance is provided to correct form and technique, and to answer student questions. Related information may include muscle anatomy & physiology, training tactics and supplementation, fitness trends & myths.

**PEC 132 (2) N**

### Intermediate Weight Training

Designed for students with previous weight training experience and knowledge, Intermediate Weight Training develops muscular fitness through resistance training, using free weights and weight machines. Workouts consist of individualized and instructor-driven programs that align with student goals, proper technique, and weight training principles. Intermediate skills & workout designs are presented, advanced exercise assistance is provided, and nutrition & fitness information are included.

**PEC 135 (2) N**

### Circuit Training

Circuit Training incorporates a variety of activities in each session to target cardio stamina, and muscular strength & endurance development. In class, exercises working all the major muscle groups will be assigned at separate stations. At a given station, the student will perform a specific activity for a specific time period, and then rotate to subsequent stations, where different activities and challenges will be completed. Fundamental fitness and nutrition information will be included.

**PEC 136 (2) C|N|S**

### Yoga

This course covers Yoga postures, breathing and meditation practices for physical and mental health. The history, philosophy, benefits and holistic nature of Yoga will be explored as well as the development of a personal practice. All fitness levels are welcome, and all poses can be modified to accommodate physical limitations.

**PEC 139 (2) N**

### Yoga Pilates

Yoga poses and Pilates matwork exercises are integrated into an exercise training program to improve posture, strength, flexibility, coordination, and balance. Breathing and relaxation practice are added to connect body-centered activity with mind-centered activity. Other topics of interest include movement mechanics, fundamental yoga and Pilates principles, nutrition, and other fitness-and health-related themes.

**PEC 143 (2) N|S**

### Walking for Fitness

Develops cardio-respiratory fitness through progressive workouts including warm-ups, walking sessions and cool-downs. Covers safety, walking technique, workout design, and issues and trends related to walking and physical fitness.

**PEC 145 (2) S**

### Jogging

Develop cardio-respiratory fitness through progressive workouts including warm-ups, walking sessions and cool-downs. Covers safety, jogging technique and issues and trends in jogging and physical fitness.

**PEC 150 (1-3) N|S**

### Beginning Physical Fitness

Beginning Physical Fitness includes instruction in developing, executing, and maintaining individualized fitness programs that highlight cardiorespiratory endurance, muscular strength & endurance, and flexibility. Students learn to use cardio & weight machines, free weights, and other equipment, as well as participate in a variety of activities, to help meet personal goals. Information about anatomy & physiology, nutrition, injury prevention, and fitness trends are also included.

**PEC 151 (1-3) N|S**

### Intermediate Physical Fitness

For students with previous fitness training experience, Intermediate Physical Fitness develops cardiorespiratory endurance through walking, jogging or aerobic machines, and muscular fitness via free weights, weight machines, and stretching activities. Individualized and instructor-driven workouts align with student goals, best practices, and established training principles. Intermediate level skills and workout designs are presented, and supplemental fitness information is provided.

**PEC 165 (2) N**

### Body Conditioning

Body Conditioning uses hand-held weights, resistance bands, kettlebells, and/or similar equipment to improve muscular strength, muscular endurance, and flexibility in all of the body's major muscle groups. A variety of exercises and activities are practiced, and particular attention is given to proper technique, safety, and fitness progression. Wellness-related information, such as nutrition, proper hydration, and fitness trends are also included.

**PEC 183 (2) C|N**

### Mindfulness for Success in School, Work & Beyond

An introduction to Mindfulness training. Covers scientific research as it relates to measurable changes in the brain and the rest of the body. Emphasizes the impact of Mindfulness training on studying, job success, and positive personal life management. Group Mindfulness experiences in class and assigned online.

**PEC 199 (2) N**

### Independent Fitness

Basic instruction in developing and maintaining an individualized fitness program. Includes equipment usage and safety, and how fitness-related activity affects the body. Students are required to meet the first two weeks, for one week at mid-term, and one week at end of term, as scheduled. Students will complete lab participation at the NSC Wellness Center during its drop-in hours. Appropriate attire and shoes are required at all sessions. Participation at all scheduled meetings is required.

**PEC 299 (1-2) S**

### Independent Study

Independent study of approved topics in physical education.

## Physics

**PHYS& 100 (5) C**

### Physics for Non-Science Majors

Basic laws of physics, such as motion, sound, gravitation, energy, heat and temperature, electricity and magnetism, light, relativity, quantum theory, and nuclear physics. For non-majors. Non-lab course.

**PHYS& 114 (5) C|N|S**

### General Physics I with Lab

First of three algebra-based courses covering the field of physics. Includes kinematics, vectors, forces, dynamics, work, energy, momentum, torque and gravitation.

**PHYS& 115 (5) C|N|S**

### General Physics II with Lab

Continuation of PHYS& 114. Includes fluids, heat, gas laws, electricity, magnetism and electrical circuits.

**FINDING COURSES**

Course names and course prefixes are cross-referenced in an index beginning on page 227. For example:

**PREFIX TO COURSE**

HIN . . . . . Watch Technology

**COURSE TO PREFIX**

Watch Technology . . . . . HIN

Common Course Numbering explanation is on page 226.

**PHYS& 116 (5) C|N|S**  
**General Physics III with Lab**

Continuation of series. Covers mechanical oscillations, sound, optics, atomic and nuclear physics.

**PHYS& 221 (5) C|N|S**  
**Engineering Physics I**

Development of the basic principles of classical mechanics—kinematics, Newton's laws and the conservation laws using calculus.

**PHYS& 222 (5) C|N|S**  
**Engineering Physics II**

Covers Maxwell's classical laws of electricity and magnetism which developed from the study of the Laws of Coulomb, Ampere, Gauss and Faraday.

**PHYS& 223 (5) C|N|S**  
**Engineering Physics III**

Introduction to waves and oscillations and the study of sound, geometric and physical optics. Covers the dualistic particle-wave nature of microscopic phenomena as an intro to modern physics.

**PHYS 299 (1-5) C|N**  
**Independent Study**

Independent study of physics problems or topics. Prereq: Permission.

**Political Science**

**POLS 90 (5) S**

**Contemporary World Problems**

This Contemporary World Problems course is designed to provide a study of the critical issues and areas in the world, specifically the United States, throughout the 1900s to today. The study of the current world starts in the past, so a large emphasis is placed on historical background and perspective is developed in each area studied. Students will be asked to learn world geography and have a basic understanding of the main world religions and forms of government.

**POLS& 101 (5) C|N**

**Introduction to Political Science**

Explores the origin and development of the study of political science. Examines the origins of government systems, political theory, comparative systems, political socialization, public administration, political parties and elections, technology, political economy, globalization, and international relations. Foundation course for political science studies.

**POLS& 201 (5) S**

**Introduction to Political Theory**

Examines the philosophical foundations of politics and power. Utilizes texts in political philosophy/theory to introduce concepts including justice, citizenship, legitimate authority, power, liberty, rights, and equality.

**POLS& 202 (5) C|N|S**

**American Government**

Survey of the origin and functions of the U.S. government. Examines the Articles of Confederation, the Constitution and the creation of the federal system as well as the three branches of American Government. Analyzes the functions of institutions through the lens of political history and through analysis of current events. Topics include political culture, elections and campaigns, interest groups, the media, and public policies.

**POLS& 203 (5) C|N|S**

**International Relations**

Introduction to international relations and governmental organizations. Examines major issues in the international arena including nationalism, national sovereignty, globalization, international law, economics, security, environmentalism and foreign policy. Emphasis on issues that foster or frustrate world peace and prosperity.

**POLS 111 (5) N**

**The American Presidency**

Explores the evolution of the American presidency. Includes the presidents' personalities, character, leadership and public relations. Examines presidential campaigns and the roles of the president as Chief Diplomat, Chief Executive, Chief of State, Commander-In-Chief and Chief Bureaucrat.

**POLS 170 (5) C**

**Minority Politics in America**

Focuses on socio-political developments leading to current status of minorities in America. Surveys U.S. legislative history and citizenship. Covers critical review of proposed solutions to minority tensions.

**POLS 210 (5) S**

**Cannabis & Social Justice**

This course explores issues of justice, criminalization, history, and inequities of drug prohibition/policies in the United States. Specifically, it considers the evolution of federal and state policies on cannabis. This requires a thorough understanding of prohibition, the 'War on Drugs,' disproportionate enforcement, and long-term impacts on communities of color.

**POLS 298 (1-5) C**

**Independent Study in Political Science**

Independent research and writing on selected political science topics under faculty supervision.

**Professional Technical Teacher Education**

**PTE 468 (3) S**

**Program Management and Recruitment**

Learn all aspects of program management and leadership, including student recruitment. Covers program budgets, staffing, facilities, and scheduling. Develop a recruiting plan for a current program or intended area of instruction. Prerequisite: Current enrollment in Professional Technical Teacher Education BAS program or instructor permission.

**PTE 495 (3) S**  
**Capstone**  
 Project-based course offered during the student's last quarter of study. Draws on all previous classes and internship experiences. Prerequisite: Current enrollment in Professional Technical Teacher Education BAS program or instructor permission.

## Psychology

**PSYC& 100 (5) C|N|S**  
**General Psychology**  
 Introduction to the scientific study of human behavior including research methods, brain and behavior, learning, cognitive psychology, development, personality, abnormal psychology, and social thinking and behavior. Additional topics may include: emotions, perception, motivation, intelligence, genes and evolution, and health. Prereq: ENGL&101 or instructor permission.

**PSYC& 200 (5) C|N|S**  
**Lifespan Psychology**  
 Survey of human physical, psychological, and sociocultural development from conception through death. Emphasis on major developmental theories, research and research methods of studying lifespan development.

**PSYC& 220 (5) C|N|S**  
**Abnormal Psychology**  
 Provides students with an overview of research and theories in abnormal psychology. Emphasis on the psychological, social, historical, cultural, and physiological research into abnormal psychology. Addresses ethical issues of diagnosis and treatment and major diagnostic categories such as anxiety, mood, psychotic, dissociative, eating, and personality disorders, and disorders of childhood and older adulthood.

**PSYC 132 (2) C**  
**Psychosocial Issues in Healthcare I**  
 Explores the influence of culture on psychosocial issues in healthcare for diverse patient populations. Focuses on the application of the nursing process to patients experiencing Self-Perception/Self-Concept and Coping/Stress-Tolerance dysfunctional health patterns related to a substance-related or addictive disorder. Safety, pharmacologic management, and health promotion/maintenance are emphasized.

**PSYC 209 (5) C|N|S**  
**Fundamentals of Psychological Research**  
 Examines the scientific method, hypothesis testing and designs of qualitative and quantitative research. Covers the search for and evaluation of research literature in psychology, descriptive statistical analysis, fundamentals of scientific writing, ethical issues and cross-cultural considerations in psychological research. Includes a research project.

**PSYC 210 (5) C**  
**Personality and Individual Differences**  
 Introduces the study of personality and individual differences, including theory, measurement, and research. Application of psychological principles to problems of everyday living.

**PSYC 222 (5) C|N|S**  
**Survey of Physiological Psychology**  
 Covers workings of the nervous system. Explores the brain's capacity in language, hunger and thirst, learning and memory, emotions, sexual behavior, depression, schizophrenia and repair after injury.

**PSYC 225 (5) S**  
**Psychology of Addiction**  
 Psychology of addiction, a critical examination of the behavior and mental processes associated with addiction. Systemic approaches to investigation through psychosocial, biological, cognitive and sociobehavioral areas in psychology. Lecture, research, presentation and critical examination. 5 credit class. 200 level course. Prerequisite: PSYC 100 General Psychology or SOC 101 Intro to Sociology This is a dual PSYC/SOC course.

**PSYC 230 (5) C|N|S**  
**Human Sexuality**  
 Provides an overview of research and theories in the broad field of human sexuality. Emphasis on the psychological, social, historical, cultural, and physiological research into human sexuality. May be taken as SOC 230.

**PSYC 231 (2) C**  
**Psychosocial Issues in Healthcare II**  
 Focuses on the application of the nursing process to patients experiencing Self-Perception/Self-Concept, Cognitive-Perceptual, and Role-Relationship dysfunctional health patterns related to behavioral health disorders affecting maternal, pediatric, and diverse sexual identity patients. Safety, pharmacologic management, cultural practices, and health promotion/maintenance are emphasized.

**PSYC 232 (1) C**  
**Psychosocial Issues in Healthcare III**  
 Focuses on psychiatric crisis and common interventions in dealing with violence, anger, aggression, suicide, homicide, domestic violence, and elder abuse. At-risk populations with tremendous poverty, physical, and social needs will be identified and strategies for early detection through screening will be examined. Individualized treatment plans for moving into self-management, relapse prevention, and bridging systems will be discussed.

**PSYC 240 (3) C**  
**Psychology of Human Relations**  
 Covers dynamics of organizations and human resources in the workplace: motivational theory, leadership, group processes, organizational theory, participatory management, conflict management and counseling. Primarily for professional-technical students.

**PSYC 245 (5) C|S**  
**Social Psychology**  
 Explores how social settings influence the individual. Examines the effect of others on self-concept, social cognition, aggression, conformity, helping, loving and liking, competition and cooperation, and prejudice and discrimination. Research on contemporary issues around race, gender, and other social identities will be covered and discussed.

**PSYC 250 (5) C**  
**Psychology of African Americans**  
 Provides an in-depth look at contemporary psychological research and issues involving African Americans. Includes Black personality, institutional racism and the educational system, counseling African Americans and methods of dealing with racism in daily life.

**PSYC 255 (5) C**  
**Cognitive Psychology**  
 Overview of the field of cognitive psychology. Addresses current theory and research in the areas of attention, perception, learning, memory, decision-making, language, problem-solving and creativity in both clinical and real world contexts.

**PSYC 257 (5) C**  
**Psychology of Gender**  
 Explores major psychological theories of sex differences. Examines studies of sex-role development and biological and environmental influences that may determine and maintain sex differences in aggression, cognitive abilities, achievement, motivation, affiliation and sexuality. May be taken as WMN 257.

**PSYC 260 (5) C**  
**Psychology of Racism**

Overview of theories and research concerning factors and contexts that contribute to racial/ethnic discrimination in the U.S. and the multilevel consequences for minority groups and the broader U.S. society. Covers socioeconomic, political, and historical structures and their consequences on racial/ethnic identity. Emphasizes how multiculturalism can have a positive impact and provide a safe space for discussion.

**PSYC 298 (1-5) C**  
**Independent Study in Psychology**

Independent study in selected psychology topics under faculty supervision.

**Real Estate****RES 100 (5) N**  
**Real Estate Fundamentals**

Learn the fundamental elements of the real estate industry, including sales and listing practices, financing, appraising, title, real estate law, escrow and property management. Great introduction class for anyone interested in a real estate related career or investing in real estate. RES 100 and RES 140 Real Estate Sales Practices prepare students for the Washington State Real Estate Broker Licensing Exam. (Fulfills 60 DOL pre-licensing clock hours.)

**RES 106 (1) N**  
**Real Estate Fraud**

Become aware of the extent of real estate fraud within the real estate sales, finance and appraisal industries. Gain an overview of numerous past and present fraud cases, the local and national extent of the problem, and the impact on the market place. Find out how to avoid potential fraudulent acts. Don't be part of the problem, be part of the solution! (Fulfills 10 DOL and DFI continuing education clock hours.) Recommend RES 100 which may be taken concurrently.

**RES 120 (2) N**  
**Real Estate Principles of Maintenance and Repair**

Study the maintenance and repair for residential and commercial properties. Learn to recognize maintenance problems and schedule preventative maintenance and repairs. Explore HVAC, roofing, landscaping, and janitorial services. Analyze maintenance and service contracts. (Fulfills 15 DOL continuing education clock hours.)

**RES 125 (2) N**  
**Applications of Real Estate Math**

Develop skills in basic real estate mathematics using the Hewlett Packard HP10BII programmable calculator. Apply a variety of principles for real estate transactions, valuation, finance and other investment analysis. Students purchase and bring to the first day of class HP10BII calculator or may borrow an HP10BII from the Real Estate Program while supplies last. (Fulfills 20 DOL continuing education clock hours.) Recommend RES 100 taken concurrently.

**RES 130 (3) N**  
**Green Real Estate**

Learn how environmental sustainability applies to real estate home sales and listings. Class focuses on an introduction to sustainable design, water and energy efficiency and conservation, smart material choices that affect indoor air quality and occupant health, sustainable site selection, and how to recognize green home buyers - the demographics of green minded consumers. Class qualifies as preparation for the Built Green Real Estate Professional Designation exam. (30 DOL clock hours.)

**RES 140 (3) N**  
**Real Estate Sales and Practice**

Pre-license course prepares the student for the Washington Real Estate Broker's License Exam and to enter the residential real estate sales industry. Highlights of what you will learn include: sales techniques and practices, evaluating, pricing and showing property, listing and purchase/sale agreements, obtaining and servicing listings, qualifying the buyer, negotiating and servicing the sale, agency, planning and budgeting. (Fulfills 30 DOL pre-licensing educational requirement.) Prerequisites: RES 100 or RES 210 (or concurrent enrollment) or real estate experience or by instructor permission.

**RES 164 (5) N**  
**Real Estate Finance Residential**

Explore various financing programs for residential real estate. Learn to prequalify borrowers and generate closing cost worksheets. Gain knowledge about credit reports and credit scoring. Discover how underwriters determine who gets mortgages. Recommend RES 100 and/or RES 125 that can also be taken concurrently. (Fulfills 50 DOL continuing education clock hours.)

**RES 170 (3) N**  
**Real Estate Law**

Review the principles of real estate law, including acquisition, encumbrance, transfer, rights and obligations of parties, and Washington State regulations thereof. (Fulfills 30 DOL continuing education clock hours.) Prerequisites: RES 100 or RES 110 or real estate experience, or instructor permission.

**RES 177 (2) N**  
**Real Estate Taxes**

Covers U.S. income taxes pertaining to real estate. Learn what constantly changing federal income tax laws affect residential, business, and investment properties. (Fulfills 22 DOL continuing education clock hours.)

**RES 197 (3) N**  
**Real Estate Title & Escrow**

Covers methods of clearing title. Provides a foundation in title insurance, various types of liens, encumbrances and other items that affect real property. Presents escrow principles and procedures covering laws that govern and control escrow closing. Learn to work with real estate and escrow documents, escrow closings, and title exceptions. Prerequisite: RES 100 or concurrent enrollment.

**RES 202 (3) N**  
**Multi-Family Property Management**

This course teaches important functions in rental property management, property analysis, rental policies, rental surveys, lease provisions, inspection, building codes, tenant relations, operating policies and financial result analysis. (Fulfills 30 DOL continuing education clock hours.)

**RES 203 (3) N**  
**Property Management-Commercial**

Covers commercial property management, including personnel policies, marketing, tenant management, property maintenance, security, collection, lease provisions, and record-keeping systems. (30 DOL clock hours.)

**RES 217 (3) N**  
**Real Estate Development and Sustainability**

Explore the fundamental principles and procedures involved in developing residential, commercial and industrial real estate. The stages of a development project from its initiation to completion will be discussed in some detail. Although the course is oriented toward the development-related professions, it is also appropriate for people whose main interest is on investments or other aspects of development. (Fulfills 30 DOL clock hours.)

**RES 220 (3) N**

### Real Estate Economics

Use economic principles to analyze the impact that national, regional, community, and neighborhood trends have on real estate values. Study trends in the money market, community growth patterns, land use controls, taxations, etc., in the Puget Sound Region. (Fulfills 30 DOL continuing education clock hours.) Prerequisites: RES 100, or RES 110, or RES 180 or RES 210 which can be taken concurrently, or real estate experience, or real estate license or instructor permission.

**RES 235 (3) N**

### Sales and Marketing

Increase your business and/or market share by incorporating sales and marketing techniques including an action plan. Learn to differentiate yourself/business from your competition and generate effective marketing media strategy. Recommend RES 100 or RES 110 or RES 180 or concurrent enrollment. (30 DOL clock hours).

**RES 260 (5) N**

### Real Estate Finance-Commercial

Gain an understanding of commercial real estate investment. Course outline includes the real estate lending environment, borrowing and lending decisions, and loan underwriting and processing. Determine the value of commercial real estate property with tools that include operating statements and discounted cash flow analysis. (Fulfills 50 DOL continuing education clock hours.) Recommended: RES100, RES125 and BUS124, or real estate experience.

## Residential/Commercial Property Management Bachelor of Applied Science

**RCPM 301 (3) N**

### Principles of Residential Property Management

Introduction to Property Management and management of residential property. Employees, management tools, government involvement, client acquisition and tax requirements, leasing and managing property, and understanding agents' pre-licensing and brokerage requirements.

**RCPM 302 (4) N**

### Stakeholder Relations & Prof Development

Prepare property management students as professionals in a global community. Role-play emphasis on professional presentation, etiquette, culture, business communication, problem identification and solving, network and relationship building with all stakeholders.

**RCPM 303 (3) N**

### Intro to Development and Construction Management

An introduction to the fundamental principles and procedures of real estate development, sustainable construction, and vendor relationships to broaden student understanding of the scope of construction within property management field. Topics include development process, construction management, and tenant improvements.

**RCPM 304 (2) N**

### Principles of Commercial Property Management

Examine and practice management of four types of commercial properties, learning the necessary competencies such as time management, relationship building (owner, staff, tenant, customer and public), problem identification and solving, operations and maintenance management, sustainability, budgeting, leasing and lease administration, safety, security and emergency procedures. Prerequisite: Acceptance into the Residential and Commercial Property Management BAS Program.

**RCPM 310 (2) N**

### Specialty and Affordable Housing

Contemporary issues affecting residential property management including student, senior, military, tax credit housing, Real Estate Investment Trust (REIT), and Accessory Dwelling Units (ADU).

**RCPM 311 (2) N**

### Marketing & Leasing of Residential Real Estate

Effective marketing practices, leasing strategies and tactics designed to attract and retain qualified residential tenants to income producing properties. Students will learn how to gather market data, develop marketing plans, formulate leasing workflows and utilize metrics to improve their marketing and leasing process.

**RCPM 313 (3) N**

### Marketing and Leasing of Commercial Real Estate

Gain an understanding of effective commercial real estate marketing strategies and the leasing processes for commercial real estate. Create a marketing plan to set rental rates, secure new tenants, and effectively position the property to meet the owner's project requirements. Identify technology and social media as tools utilized to market commercial real estate. Understand lease processes, contract components and negotiation.

**RCPM 315 (2) N**

### Introduction to Negotiations

Introduction to negotiation techniques and styles. How to structure agreements to meet your goals. Practice dealing with common challenges in property management field. Prerequisite: Acceptance into the Residential and Commercial Property Management BAS Program.

**RCPM 320 (4) N**

### Financial Accounting for Property Management

Introduces students to the software used by asset management and real estate investment companies.

**RCPM 330 (3) N**

### Leadership and Team Building

Examine the foundational elements of leadership and team building. Review current management thought. Examine and practice the application of current and emerging management topics emphasizing leadership, inspiration, communication, relationship building, team dynamics, organizational development and management of a diverse workforce. Introduces leadership, culture, service, brand and innovation as essential to sustained business excellence.

**RCPM 350 (2) N**

### Revenue Management for Property Management

Study of accounting for corporations, methods of raising capital, analysis of financial statements, introduction to management accounting, product cost accounting systems, profit planning, management performance measures, and capital budgeting.

**FINDING COURSES**

Course names and course prefixes are cross-referenced in an index beginning on page 227. For example:

**PREFIX TO COURSE**

HIN . . . . . Watch Technology

**COURSE TO PREFIX**

Watch Technology . . . . . HIN

Common Course Numbering explanation is on page 226.

**RCPM 401 (5) N**  
**Project Management for Property Management**

This course is an overview of project management from a business perspective with a focus on activities common in property management. Topics will include project estimation, project feasibility, planning, risk management, communication and responsibility planning, scheduling, and project control.

**RCPM 402 (4) N**  
**Supervision and Management**

Organization and coordination of personnel practices and methods. Consideration given to communication, employment, staff orientation and training, working conditions, supervision, performance evaluation, collective bargaining, salary administration, and health and well-being of a diverse work force employed in domestic and international settings

**RCPM 403 (4) N**  
**Real Estate and Fair Housing Law**

Examines the concepts & goals of real estate laws & fair housing laws at the federal, state, & local levels. Attention will be given to how fair housing laws are designed to prevent discrimination in housing. The class will look at the Civil Rights Act of 1964, key court decisions involving fair housing laws & the 1968 Fair Housing Act & applicable state & local laws. Real estate law principles of transfer of interests, contracts, sustainability, agency, & escrow will be analyzed.

**RCPM 410 (2) N**  
**Professional Ethics in Property Management**

Analysis of ethical decisions in property management and case studies affecting property management codes of ethics.

**RCPM 420 (5) N**  
**Sustainable Facilities Management**

Fundamental theory and application of sustainable facilities management including building envelope, heating, ventilation, air conditioning, plumbing, indoor air quality, and fire suppression systems for buildings. Emphasis on system integration and sustainable topics as related to design, construction and management of mechanical construction scope of work. Basic understanding of high performance building and energy efficiency, including fundamentals of residential operations and maintenance.

**RCPM 494 (4) N**  
**Practicum Portfolio**

The property management practicum project is the opportunity for the student to demonstrate the application of RCPM BAS program course content, processes, and principles. Student projects focus on a specific asset type and location. Faculty guide and supervise the student's property management field project, which will be compiled in a portfolio and culminate in a professional presentation.

## Respiratory Care Bachelor of Applied Science in Allied Health

**RCP 320 (4) C**  
**Acute Care Clinical I**

Covers direct application of respiratory care skills in the hospital setting. Focuses on skills for respiratory care practice in acute care. Students treat patients using basic respiratory care techniques and perform physical assessments, chart review, hand washing, and bronchial hygiene techniques. Builds on respiratory care knowledge and skills established in the classroom, lab and clinical setting.

**RCP 323 (2) C**  
**Pathophysiology for Respiratory Care**

Encompasses a study of the concepts and principles by which disease alters the normal function of the cardiopulmonary system. Emphasis will be on development of the respiratory care plan in the context of Respiratory Failure, Asthma, Chronic Obstructive Pulmonary Disease, Cystic Fibrosis, Postoperative Atelectasis, Interstitial Lung Disease, Neuromuscular disease, Bacterial Pneumonia, Tuberculosis, and Sleep Disordered Breathing.

**RCP 328 (4) C**  
**Advanced Therapeutic Approaches**

The second course in the therapeutic approaches series, this course builds upon concepts, knowledge, and skills acquired in AHE 218. Emphasis is on the knowledge and skills necessary to safely and effectively provide artificial airway care, Arterial Blood Gas (ABG) drawing and analysis, bedside monitoring techniques and non-invasive positive pressure ventilation.

**RCP 329 (1) C**  
**Advanced Therapeutic Approaches Equip and Tech**

Covers the application of Respiratory Care therapeutics learned in RCP 328. Learners will apply theory acquired in RCP 328 using models, simulation and laboratory partners for practice. Focuses on the safe and effective application of artificial airway care, Arterial Blood Gas drawing and analysis, bedside monitoring techniques and non-invasive positive pressure ventilation.

**RCP 330 (5) C**  
**Acute Care Clinical II**

Further familiarizes students with hospital-based respiratory care. Students practice direct patient care, treat patients using basic respiratory care techniques, & perform physical assessments. Chart review, hand washing, & bronchial hygiene techniques emphasized. Students use techniques learned in lab & on-site, & build on the foundation of respiratory care knowledge & skills established in the classroom setting.

**RCP 338 (4) C**  
**Fundamentals of Mechanical Ventilation**

The third course in the Respiratory Care Fundamentals series, this course builds upon concepts, knowledge, and skills acquired in RCP 328. Emphasis will be placed on the knowledge and skills necessary to safely prepare, institute, monitor and modify mechanical ventilation in the care of the critically ill adult patient.

**RCP 339 (1) C**  
**Mechanical Ventilation Equipment and Techniques**

Covers the application of Respiratory Care therapeutics learned in RCP 338. Learners will apply theory acquired in RCP 338 using models, simulation and laboratory partners for practice. Focuses on safe and effective application of basic, adult mechanical ventilation.

**RCP 340 (4) C****Adult Critical Care Clinical I**

RCP 340 is the third course in the Respiratory Care clinical series. Emphasis will be placed on integrating respiratory theory knowledge with skills performance by providing the student therapist with the opportunity to practice direct patient care. The learner will be assigned to the Critical Care Unit and will perform the duties associated with the management of the critically ill patient on mechanical ventilation.

**RCP 347 (2) C****Cardiology for Respiratory Care**

Emphasis will be placed on the integration of hemodynamic measurements in the care of the critically ill patient. Various clinical applications and critical care monitoring will be covered in depth. Further emphasis will be placed on the principles of Advanced Cardiac Life Support (ACLS) and the interpretation of electrocardiogram (ECG) data.

**RCP 348 (5) C****Advanced Mechanical Ventilation**

In-depth exploration of the application of mechanical ventilation across the age spectrum. Emphasis on the clinical application of mechanical ventilators and advanced modes of mechanical ventilation.

**RCP 349 (1) C****Adv Mechanical Ventilation Equipment & Technique**

Covers the application of Respiratory Care therapeutics learned in RCP 348. Learners will apply theory acquired in RCP 348 using models, simulation and laboratory partners for practice. Focuses on safe and effective application of advance mechanical ventilation across the age spectrum.

**RCP 450 (6) C****Adult Critical Care Clinical II**

RCP 450 is the fourth course in the Respiratory Care clinical series. Emphasis will be placed on integrating respiratory theory knowledge with skills performance by providing the student therapist with the opportunity to practice direct patient care. The learner will be assigned to the Critical Care Unit and will perform the duties associated with the management of the critically ill patient on mechanical ventilation.

**RCP 451 (2) C****Neonatal/Pediatric Pathophysiology**

An in-depth study of neonatal and pediatric respiratory care. Focuses on diseases specific to caring for our smallest patients. Covers fetal growth and development, labor and delivery, resuscitation, disease processes, assessment and therapy.

**RCP 455 (2) C****Advanced Pharmacology (Respiratory Care)**

Continues the study of medications in the critical care setting and introduces the learner to medications used in the pediatric/perinatal disciplines. Emphasis is on drugs used to treat emergent cardiac abnormalities, common critical care medications, pediatric/perinatal medications and resuscitation products.

**RCP 458 (4) C****Neonatal/Pediatric Respiratory Care**

Emphasis on advanced concepts and skills needed to care for neonatal and pediatric patients. Covers techniques and equipment to manage neonatal and pediatric patients in the acute care environment, including oxygen therapy, bronchial hygiene, airway care, Continuous Positive Airway Pressure and mechanical ventilation.

**RCP 459 (1) C****Neonatal/Pediatric Equipment and Techniques**

Covers the application of Respiratory Care therapeutics in the neonatal/pediatric population learned in RCP 458. In this class learners will apply theory acquired in RCP 458 using models, simulation and laboratory partners for practice. Focuses on safe and effective application of mechanical ventilation and respiratory care therapeutics in the neonatal/pediatric age population.

**RCP 460 (6) C****Neonatal/Pediatric Clinical**

Clinical Practice V (RCP 460) is a continuation of prior clinical experience and is designed to build on the foundation of respiratory care knowledge and skills established in the previous five quarters of the program. This course is designed to provide the student with the knowledge, skills and techniques necessary to safely and effectively treat newborn infants and children suffering from various cardiopulmonary disorders through hands-on experience with the neonatal and/or pediatric patient.

**RCP 463 (2) C****Advanced Pathophysiology for Respiratory Care**

A study of the concepts and principles by which disease alters the normal function of the cardiopulmonary system in critically ill patients. Covers cardiopulmonary assessment and development of the respiratory care plan in the context of: Shock, Pulmonary Thromboembolic disease, Heart Failure, Smoke Inhalation and Burns, Trauma, Near Drowning, Acute Respiratory Distress Syndrome, Chest Trauma, Pneumonia in the critically ill patient, and Lung Cancer.

**RCP 464 (2) C****Pulmonary Rehabilitation and Home Care**

Pulmonary Rehabilitation and Home Care is designed to give the advanced practitioner the knowledge and skills to successfully integrate the technical aspects of Respiratory Care into challenging alternate care settings ethically and safely. Focuses on the concepts, knowledge, and procedures specific to the respiratory care of adults and children with chronic cardiopulmonary disorders, receiving care in the alternative care setting. Emphasis is placed on patient education and health promotion.

**RCP 467 (2) C****Advanced Cardiopulmonary Physiology**

Builds on the topics covered in AHE 217. Covers the interrelationship of cardiopulmonary systems and how the application of therapeutic procedures can alter those normal relationships. Topics include the immunology and fluid transport of the lung, hemodynamics and pulmonary circulation, and additional concepts of acid base physiology. Provides in-depth study of the cardiopulmonary system in the context of critically ill patients.

**RCP 468 (3) C****Adv Cardiopulmonary Diagnostics**

Emphasis will be placed on the theory, application and interpretation of pulmonary function regimens, exercise testing, bronchoscopy, blood gas sampling and analysis, indirect calorimetry and polysomnography. Further emphasis will be placed on the equipment utilized for the aforementioned tests as well as their calibration and quality control.



**RCP 469 (1) C**  
**Diagnostic Equipment and Techniques**

Covers the application of cardiopulmonary diagnostics learned in RCP 468. In this class learners will apply theory acquired in RCP 468 using models, simulation and laboratory partners for practice. Focuses on safe and effective application of diagnostic equipment and procedures across the age spectrum. Covers diagnostic equipment, spirometry, diffusion studies and lung volume determination, cardiopulmonary exercise testing, metabolic studies, bronchoscopy and polysomnography.

**RCP 470 (6) C**  
**Adult Critical Care Clinical III**

Culmination of all previous clinical experiences. Designed to build on the foundation of respiratory care knowledge and skills established in the previous six quarters of the program. Students will be assigned to the Critical Care Unit and will perform all of the required duties of a respiratory therapist in the critical care environment. Emphasis on gaining autonomy and independence in the care of the patient.

**RCP 472 (1) C**  
**Advanced Practitioner Exam Review**

Covers board exams from the National Board for Respiratory Care (NBRC). Emphasizes scope of practice in respiratory care, based on the NBRC exam matrix. Reviews exam format, content tips and techniques for successful completion of the NBRC board exams. Culminates in the mock Therapist Multiple Choice exam.

**RCP 476 (3) C**  
**Advanced Patient Assessment**

Develops skills to make appropriate assessments of respiratory patients through utilizing and analyzing history, physical examination, lab data, Chest X-Rays, Pulmonary Function Tests, and EKG data. Uses a case-based format requiring application of clinical reasoning skills to develop and implement plans of care for the cardiopulmonary patients presented.

**RCP 479 (2) C**  
**Senior Capstone Project I**

A capstone course in the respiratory care program representing the culmination of student learning throughout the program. Students will take on a project using a faculty and/or community mentor to showcase the work they have done in the respiratory care program. The content varies based on student projects and can take on many forms. Projects will be developed in collaboration with faculty and community mentors and are aligned with student interest.

**RCP 480 (2) C**  
**Senior Capstone Project II**

Second in a series after RCP 479. A capstone course in the respiratory care program representing the culmination of student learning throughout the program. Students will take on a project using a faculty and/or community mentor to showcase the work they have done in the respiratory care program. The content varies based on student projects and can take on many forms. Projects will be developed in collaboration with faculty and community mentors and are aligned with student interests.

**Science****SCI 90 (5) S**  
**Science**

Covers major concepts and ideas in science, exploring biology, physics, chemistry, geology, astronomy and ecology. Lab included. Satisfies science requirement of the high school completion program.

**SCI 91 (5) S**  
**Science**

No Description Available

**SCI 111 (1) N**  
**Geology Field Day**

Covers the best of the region's geology, including the Seattle Fault, ancient glaciers, fossil forests, landslides, Cascade Mountains and northeastern Oregon. Lab credit. May be taken as GEOL 111.

**SCI 112 (1) N**  
**NW Field Trip - Seashore Life**

Explores seashore life in the Pacific Ocean and Puget Sound.

**SCI 113 (1) N**  
**Marsh Ecology - Northwest Field Trips**

Explore local wetlands and the organisms that inhabit wetlands ecosystems with a focus on the local animals and plants. Field trips. Lab.

**SCI 121 (5) N**  
**Natural Disasters**

We live in a very scary place. We live in earthquake central, just west of volcano junction, along the tsunami coast, where the mudflows meet the sea. We have regional-scale floods, world-class landslides, record-setting avalanches, and truly horrific forest fires. This course examines the science behind these and other natural disasters, here and around the world, exploring the disciplines of geology, meteorology, oceanography and astronomy in the process. We will be using a combination of hands on labs, open source data sets and online tools to investigate the potential hazards in our own back yards. This is a five-credit course which satisfies the lab science requirement for the AA degree. Lab fee applies.

**SCI 122 (1) N**  
**Zoo Science Field Trip**

A field trip-based short course that introduces the concept of zoos in general, and the running of Woodland Park Zoo in particular. Includes five hours of lecture and a one-day field trip. Counts towards the Natural World requirement. Lab science.

**SCI 197 (1-5) C**  
**Work Experience-Science**

Integrates educational studies with supervised work/internship experience. Provides individualized opportunities to apply science knowledge and skills in the workplace. Includes developing work experience learning outcomes and monitoring achievement through self-evaluation and faculty and supervisor evaluations.

**SCI 296 (10) C**  
**Natural History: Tropical Ecosystems/Travel Crs**

Hands-on learning opportunities for undergraduates and others who undertake domestic and/or foreign travel. Learn outside the classroom and take advantage of cross cultural materials, flora and fauna, geographical locations, geologic formations, museums, terrestrial ecosystems, regional customs and foods, natural history, marine ecosystems, and field trips which are available only through travel.

SCI 297 (10) C

**Natural History: Tropical Ecosystems/Travel**

Hands-on learning opportunities for undergraduates and others who undertake domestic and/or foreign travel. Learn outside the classroom and take advantage of cross cultural materials, flora and fauna, geographical locations, geologic formations, museums, terrestrial ecosystems, regional customs and foods, natural history, marine ecosystems, and field trips which are available only through travel.

**Science, Technology, Engineering & Math**

STEM 111 (3) S

**Stem Exploration: IT All Begins with a Question!**

Covers science process skills such as graphing, data analysis, experimental design, scientific communication, and collaborative work. These are the fundamental skills that scientists and engineers use daily and are needed by students to succeed in any STEM class. The course will use topics from Biology, Chemistry, and/or Physics, but is designed in such a way as to be suitable for students with no science background.

STEM 118 (2) C|S

**Science, Equity, and Social Justice**

Examines the role of science in and its application to, issues of equity and social justice through selected topics. Foundational history and a basic grasp of various topics in STEM introduced. These facts will provide a platform from which to launch an analysis of current issues of inequality in the United States (e.g., systemic oppression of peoples based on race, gender, sexual orientation, etc.).

**Service Learning**

SLN 105 (1-2) C

**Service Learning: Business**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

SLN 106 (2) C

**Service Learning: Business**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

SLN 107 (2) C

**Service Learning: Business**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

SLN 108 (2) C

**Service Learning: Business**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

SLN 110 (1-2) C

**Service Learning: Communications**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

SLN 111 (2) C

**Service Learning: Communications**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

**FINDING COURSES**

Course names and course prefixes are cross-referenced in an index beginning on page 227. For example:

**PREFIX TO COURSE**

HIN ..... Watch Technology

**COURSE TO PREFIX**

Watch Technology ..... HIN

Common Course Numbering explanation is on page 226.

**SLN 112 (2) C**

**Service Learning: Communications**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

**SLN 113 (2) C**

**Service Learning: Communications**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

**SLN 115 (1-2) C**

**Service Learning: English**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

**SLN 116 (1-2) C**

**Service Learning: English**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

**SLN 117 (2) C**

**Service Learning: English**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

**SLN 118 (2) C**

**Service Learning: English**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

**SLN 127 (2) C**

**Service Learning: Hospitality & Culinary Arts**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

**SLN 128 (2) C**

**Service Learning: Hospitality & Culinary Arts**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

**SLN 130 (1-2) C****Service Learning: Humanities**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

**SLN 131 (1-2) C****Service Learning: Humanities**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

**SLN 132 (1-2) C****Service Learning: Humanities**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

**SLN 133 (2) C****Service Learning: Humanities**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

**SLN 135 (2) C****Service Learning: International Program**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

**SLN 136 (2) C****Service Learning: International Program**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

**SLN 137 (2) C****Service Learning: International Program**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

**SLN 138 (2) C****Service Learning: International Program**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

**SLN 140 (1-2) C****Service Learning: Languages & Cultures**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

**SLN 141 (2) C**  
**Service Learning: Languages & Cultures**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

**SLN 142 (2) C**  
**Service Learning: Languages & Cultures**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

**SLN 143 (2) C**  
**Service Learning: Languages & Cultures**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

**SLN 145 (1-2) C**  
**Service Learning: Math**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

**SLN 146 (2) C**  
**Service Learning: Math**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

**SLN 147 (2) C**  
**Service Learning: Math**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

**SLN 148 (2) C**  
**Service Learning: Math**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

**SLN 150 (1-2) C**  
**Service Learning: Science**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

**SLN 151 (2) C**  
**Service Learning: Science**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

**SLN 152 (2) C**  
**Service Learning: Science**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

**SLN 153 (2) C**  
**Service Learning: Science**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

**SLN 155 (1-2) C**  
**Service Learning: Social Science**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

**SLN 156 (1-2) C**  
**Service Learning: Social Science**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

**SLN 157 (2) C**  
**Service Learning: Social Science**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

**SLN 158 (2) C**  
**Service Learning: Social Science**

The Service Learning course enables students to experience community involvement as a central component of life while enhancing course learning, social interaction and social responsibility. The course provides an opportunity for both personal growth and academic exploration, engages students in social action, structures opportunities for research and reflection of the experience, involves supervision, student centered learning, support, recognition, evaluation to meet course competencies and offers participation by and with diverse populations and social issues.

**SLN 299 (2) N**  
**Service Learning Independent Study**

This independent study provides the opportunity for students to earn credit for service to the college and/or community. Activities may include but is not limited to fieldwork, observations, scholarship, and volunteer positions.

**Social & Human Services****CDS 197 (3) C**  
**Field Practicum: Chemical Dependency**

Supervised community-based field experience in which students apply knowledge and develop skills by working in public and private agencies and organizations.

**CDS 198 (3) C**  
**Field Practicum: Chemical Dependency**

Supervised community-based field experience in which students apply knowledge and develop skills by working in public and private agencies and organizations.

**CDS 199 (4) C**  
**Field Practicum: Chemical Dependency**

Supervised community-based field experience in which students apply knowledge and develop skills by working in public and private agencies and organizations.

**SHS 100 (5) C**  
**Introduction to Human Services**

Provides an overview of the social and human services field from the perspective of the individual human services worker. Explores societal conditions, assumptions, and needs that impact delivery of services. Includes discussion of areas of knowledge, professional values, and skills. Examines the characteristics of the human services agency, including professional roles, career opportunities, and challenges.

**SHS 101 (2) C**  
**Chemical Dependency, and Academics**

Designed for the beginning social and human services student, this course provides basic academic, professional, and personal skills vital for academic success. Defines social and human services with a focus on critical thinking, professionalism, time management, learning communities, and the use of campus resources. Prerequisite: Eligibility for ENGL&099 and MATH087/MATH091. Coreq: SHS100.

**SHS 103 (5) C**  
**Social Welfare Policy**

Introduction to social welfare policy, social justice, and systems. Emphasis on social welfare policies, systems, and services designed to respond to social issues: public welfare, child welfare, mental health, chemical dependency, aging, poverty, health, disabilities, and corrections.

**FINDING COURSES**

Course names and course prefixes are cross-referenced in an index beginning on page 227. For example:

**PREFIX TO COURSE**

HIN . . . . . Watch Technology

**COURSE TO PREFIX**

Watch Technology . . . . . HIN

Common Course Numbering explanation is on page 226.

**SHS 106 (5) C****Principles of Interviewing and Counseling**

Intro to beginning-level interviewing and counseling skills in multicultural settings. Demonstration of human services values and knowledge of diverse populations' needs through counseling techniques: developing relationships; identifying problems, solutions, and goals; and evaluating progress.

**SHS 108 (5) C****Group Dynamics & Counseling**

Introduction to group work, including group processes, communication patterns, group and individual goal-setting, leadership, and decision-making. Includes group participation, role-playing, and simulations.

**SHS 121 (5) C****Introduction to Care Navigation**

Introduction to the knowledge, skills, and attitudes necessary to practice care navigation for the benefit of the client. Focus on human services and healthcare systems, social determinants of health, health literacy, chronic illness, risk and protective factors. The first of two courses leading to a certificate in care navigation.

**SHS 122 (5) C****Care Navigation: Systems of Care**

Explores at an advanced level: healthcare communication strategies, health insurance systems, population health management, transitions of care, risk and protective factors in wellness promotion, preventive care, information technology in healthcare, and care plans.

**SHS 130 (5) C****Foundations of Gerontology**

Provides an interdisciplinary overview of the field of gerontology. Psychological, physiological, and biological processes, as well as social theories and ethical practices, are examined in a diverse context.

**SHS 150 (1) C****HIV/AIDS Brief Risk Intervention**

Includes history, trends, transmission, infection control, testing, counseling, BRI, and psychosocial issues. Meets requirements for human services and chemical dependency professionals. Approved by the WA State Division of Alcoholism and Substance Abuse.

**SHS 197 (3) C****Field Placement: Social and Human Services**

Supervised community-based field experience in which students apply knowledge and develop skills by working in public and private agencies and organizations. Prereq: Permission

**SHS 198 (3) C****Field Placement: Social and Human Services**

Work experience in human services agencies, with individual and group supervision provided by agency professionals to share experiences and further develop work-related skills.

**SHS 199 (4) C****Field Placement: Social and Human Services**

Work experience in human services agencies, with individual and group supervision provided by agency professionals to share experiences and further develop work-related skills. Prereq: Permission.

**SHS 205 (5) C****Crisis Intervention and Trauma Informed Care**

Intro to crisis intervention and trauma-informed care techniques for the beginning mental health/human services professional. Students will develop assessment techniques and interviewing skills with populations experiencing mental health concerns, physical health concerns, substance abuse, sexual assault, intimate partner and domestic violence, bereavement, suicide, and other crises.

**SHS 209 (5) C****Grief and Loss in Social and Human Services**

Explores both the grief and loss experiences in the context of the helping professions. Analyzes models and types of grief and loss. Researches resources and interventions for clients in the social and human services. Examines transitions, situations, and circumstances that result in grief and loss, as well as cultural responses to them.

**SHS 210 (3) C****Intro to Diversity in Human Services Practice**

Examines U.S. society and the diversity within it, as well as the effects of societal structures on clients. Topics include an overview of general principles of cultural diversity and cross-cultural services delivery to individuals from many diverse backgrounds.

**SHS 215 (3) C****Adolescent Development and Treatment**

Overview of prevention, assessment and treatment, and recovery and relapse issues of addiction amongst adolescents. Also explores public policies regarding young adults with addiction.

**SHS 230 (3) C****Suicide Risk Assessment**

This class provides an introduction to suicide assessment and prevention. Students will be introduced to topics such as signs and symptoms of suicidal/self-harm behavior, facts and myths about suicidal behavior, conducting an assessment interview, risk factors and protective factors, the treatment of suicidal individuals, the contagion effect, and self-care for those working with suicidal/self-harm individuals.

**SHS 231 (5) C****Pharmacology of Addictions**

Studies pharmacological addictions of alcohol and other drugs. Explores the physiological and psychological effects of drugs, clinical signs, symptoms, and behaviors associated with addiction, effects of drug and alcohol use on the nervous system, drug classifications and medication assisted treatment (MAT). Prereq: SHS 235 with 2.0 GPA; eligibility for ENGL&099, and Math 087 or 091. Meets educational requirements for courses for Substance Use Professional included in WAC 246-811-030.

**SHS 232 (5) C****Addiction, Adolescents and Family Systems**

Explores adolescent and family addiction issues from developmental, clinical, social, cultural and treatment perspectives. Focus is on family theories and conceptual frameworks, the impact of addiction on adolescent and family development, assessment and diagnosis, the progression of addiction/disease for families and adolescents, implications for treatment, aftercare and relapse.

**SHS 233 (5) C****Addictions Counseling**

Introduction to addiction counseling. Evidence-based therapeutic methods such as SBIRT, Motivational Interviewing, Cognitive Behavioral Therapy (CBT), Trauma Informed Care, Relapse Prevention and Seeking Safety will be investigated in the context of cultural diversity. Prerequisites: SHS 235 with 2.0; eligible for ENGL099; and MATH087 or MATH091. Meets educational requirements for courses relating to the substance use disorder professional included in WAC 246-811-030.

**SHS 235 (5) C****Drug Addiction and Society**

Introduction to misuse of and addiction to psychoactive drugs. Includes history, theories, current research, and treatment practices, and the nature of successful recovery as well as prevention concepts.

**SHS 255 (5) C****Mental Health and Co-occurring Disorders**

Overview of mental health and co-occurring disorders. Identification of referral processes, treatment options, barriers unique to this population, services available to the co-occurring disorder consumer in the context of culture, race and ethnicity

**SHS 270 (5) C****Ethics in Human Services and Addiction Studies**

Explores the WA Administrative Codes, federal codes, and professional codes of ethics that apply to human services and substance use disorder professionals. Examines ethical theory, ethical decision-making, and ethical practice in a multicultural context. Meets educational requirements for courses for Substance Use Professional included in WAC 246-811-030.

**SHS 280 (3) C****Case Management in SHS and Addiction Studies**

Examines the roles of human services and substance use disorder professional case managers. Students explore all aspects of case management, including service coordination, screening, ASAM Criteria, assessment and treatment planning.

**Social Sciences Resources****SSC 101 (3) N****Intro to Research Skills**

Develop critical thinking as applied to the research process by examining strategies for locating, evaluating, and using information. Explore issues related to information ethics, such as plagiarism and copyright, in addition to issues related to our contemporary online information environment. Emphasis on developing proficiency using encyclopedias, databases, and the library catalog. Learn to write focused research questions and learn strategies for organizing research.

**SSC 197 (1-5) C****Work Experience-Social Science**

Integrates educational studies with supervised work/internship experience. Provides individualized opportunities to apply social science knowledge and skills in the workplace. Includes developing work experience learning outcomes and monitoring achievement through self-evaluation and faculty and supervisor evaluations.

**SSC 297 (1-10) C****Travel/Study Experience**

Hands-on learning opportunity for students in domestic and/or foreign travel. Focuses on learning outside the classroom and taking advantage of cross-cultural opportunities. Includes historic sites, geographical locations, geological formations, museums, art centers, regional customs and foods, language enhancement, specialized research libraries, local universities and legislatures available only through travel.

**Sociology****SOC& 101 (5) C|N|S****Introduction to Sociology**

Introduces students to the scientific study of society and to several sociological concepts, including socialization, stratification, research methods, social theory, group dynamics, social class, gender, sexuality, race, ethnicity, media, family, deviance, and social and cultural change. Students learn how to connect research to concepts and use the sociological imagination, the relationship between self and society, to deepen their understanding of social life.

**SOC& 201 (5) C****Social Problems**

Introduces students to core sociological concepts and theories through the lens of social problems. The focus is on examining processes by which members of society define social issues as problems and evaluating social change strategies. Students apply concepts and theories to a range of social problems, such as poverty, crime, discrimination, economic inequality, addiction, health issues, war and terrorism, and environmental issues.

**SOC 102 (5) C****Introduction to American Culture**

Examines American cultural values, beliefs, and practices. Students explore core social institutions, such as the family, politics, and the media and learn about patterns of inequality associated with race, ethnicity, social class, gender, and sexuality. Field trips, films, participation in campus events, and observation activities may support cultural learning and facilitate cross cultural analysis.

**SOC 105 (5) S****Society of Black Americans**

Evaluation of the sociological impact of the African-American experience in relation to various social systems in America.



**SOC 106 (5) C****Sociology of Asian Americans**

Examines Asian American experiences in the United States from a sociological perspective. It focuses on Asian-American racial/ethnic communities and social institutions and explores settlement patterns, education, employment, anti-Asian violence, media representations, family and gendered identities, and political empowerment. Patterns of inequality, including prejudice, discrimination, and the model minority myth, are core themes.

**SOC 150 (5) C|S****Race and Ethnic Relations in the United States**

Examines the majority-minority pattern of interaction in American society. Includes theories of race relations and issues shaping intra- and interracial ethnic relations.

**SOC 215 (5) C|N****Criminology**

Survey of Criminology. Covers legal definitions, research methods, types of criminal behavior, trends and patterns, recidivism, characteristics of offenders, environmental influences, theories of crime and delinquency prevention, and social policy.

**SOC 220 (5) C****Sociology of Gender & Sexuality**

Explores the social construction of sex, sexuality, and gender over time and across cultures. Students critically examine the idea that sex, sexuality, and gender are fixed biological realities and investigate patterns of inequality associated with sex, sexuality, and gender. Sociology courses are web enhanced. Web enhanced courses have a traditional classroom (on campus) structure with an added web component to enhance communication and collaboration.

**SOC 225 (5) S****Psychology of Addiction**

Psychology of addiction, a critical examination of the behavior and mental processes associated with addiction. Systemic approaches to investigation through psychosocial, biological, cognitive and sociobehavioral areas in psychology. Lecture, research, presentation and critical examination. 5 credit class. 200 level course. Prerequisite: PSYC 100 General Psychology or SOC 101 Intro to Sociology This is a dual PSYC/SOC course.

**SOC 230 (5) N|S****Human Sexuality**

Survey of sexual behavior. Covers historical, physiological, psychological and social components of sexuality and its deviations. May be taken as PSYC 230.

**SOC 235 (5) C****Sociology of Health and Medicine**

Examines social factors related to health, healing, and health care. Analyzes impact of culture on definition, treatment, and subjective experience of illness. Emphasizes social determinants of health, including inequities, stress, environment, trauma, and access to resources. Compares health care systems and approaches to social change.

**SOC 240 (5) C****Sociology of Education**

Identifies structural influences on schooling and critically assesses how education works and for whom. Explores issues of school culture, socialization, inequities, power, difference and social change in the organization, practices and effect of education in both US and global contexts. Researches educational inequalities and proposes reforms and improvements.

**SOC 245 (5) S****Social Psychology**

Examines the effect of others on the individual in areas such as self-concept, social cognition, conformity, helping, loving and liking, competition and cooperation and prejudice and discrimination. Research and autobiography by two of the following groups provide content and illustration: African Americans, Asian Americans, Native Americans and Hispanic Americans. May be taken as PSYC 245.

**SOC 253 (5) S****Organizational Behavior**

Organizational behavior as seen through sociological theory. Concepts show how managers can improve organizational effectiveness by attending to the human side of the enterprise. Topics such as leadership, conflict theory, motivation, social interaction theory, power, politics, group dynamics and organizational design are examined for the effects on employees and their performance.

**SOC 271 (5) N****Introduction to Deviance and Social Control**

Examination of deviance, deviant behavior, and social control. Deviance as a social process influenced by power; theories of deviance and deviant behavior; nature and social organization of societal reactions; and social and legal policy issues.

**SOC 298 (1-5) C****Special Topics in Sociology**

Independent study in selected sociology topics under faculty supervision.

**Spanish****SPAN& 121 (5) C|N|S****Spanish I**

Begins the systematic study of Spanish focusing on listening, speaking, reading, writing, grammar, and cultural aspects of the countries in which Spanish is spoken. No prior knowledge of Spanish required.

**SPAN& 122 (5) C|N|S****Spanish II**

Continued systematic study of Spanish focusing on listening, speaking, reading, and writing. Includes study of the cultural aspects of the regions where Spanish is spoken.

**SPAN& 123 (5) C|N|S****Spanish III**

Continuation of SPAN&122. Continuing study with intensive focus on listening, speaking, reading, and writing. Further study of the cultural aspects of the regions where Spanish is spoken.

**Specialty Desserts****BAK 101 (4) C****Baking Theory I: Introductory Principles**

An introduction to mixing and baking methods, and to the scientific principles used in this field. This course covers mise en place; ingredient characteristics and functions; tool and equipment identification, usage, and safety; and trade terminology. Includes discussions on mixing, cooking, and baking methods for: cakes, cookies, quick breads, pastries, pies, tarts, creams, icings, syrups, and sauces. Also includes information on baking history and trade opportunities.

**BAK 102 (3) C****Baking Theory II: Breads and Viennoiserie**

Presents baking theory and ingredients. Includes scientific principles that determine why specific baking techniques work. Emphasizes the formation and exercise of judgment in baking practice, relationships between procedures and products, and evaluation of product quality. Includes discussion of artisan bread production, whole grain baking, European and non-European breads, laminated doughs, and artistic design doughs.

**BAK 103 (4) C****Desserts and Confections Theory I**

Introduces students to three areas: desserts, chocolate and confection work, and decorative media. Covers plated and banquet dessert theory, churn and still frozen desserts, entremet components (including glazes and hydrocolloidal thickeners), and confectionery work with an emphasis on cacao and chocolate. Also introduce students to decorative media used for cakes, entremets, and confections.

**BAK 105 (2) C****Restaurant Baking: Theory**

For culinary arts students. Expands on science and principles of baking, including yeast doughs and formulas, icing techniques, basic cake types and characteristics of desserts.

**BAK 108 (3) C****Baking Theory III: Grains and Sugars**

Explore the unique properties associated with a wide variety of fresh-milled and whole grains as applied to baking as well as alternative sugars in pastry work. Learn scientific principles applied to yeast products, fermented foods, flour and grains.

**BAK 111 (9) C****Baking Lab I**

Covers the fundamentals of professional baking and standard production techniques in a fully functioning bakeshop. Includes mixing, baking, and finishing of cakes, cookies, quick breads, pastries, pies, tarts, creams, icings, syrups, and sauces. Heavy emphasis on: sanitation and safety; professionalism and work ethic; teamwork and personal responsibility; and building organizational skills. Includes training in retail operations, customer service, and product marketing and display.

**BAK 112 (9) C****Baking Lab II: Breads and Viennoiserie**

Artisan bread and viennoiserie production with a focus on professional production. This course covers yeasted and levain breads, rye and whole-grain baking, and laminated and non-laminated enriched doughs. There is heavy emphasis on: sanitation and safety; professionalism and work ethic; teamwork, personal responsibility; and organizational skills. Includes training in retail operations, customer service, and product marketing and display.

**BAK 113 (9) C****Pastry I: Intermediate Techniques**

Builds upon and refines competencies and techniques developed in BAK 111 and BAK 112, and introduces new concepts and methods, including traditional and plated desserts, frozen desserts, garnishing and decorative techniques, advanced mousse cakes, and petit gateaux. Students will gain production experience as they work in teams to provide desserts for banquets, buffets, fine dining, café dining, and a retail display cases. Advanced customer service is covered.

**BAK 115 (1) C****Restaurant Baking: Practicum**

For culinary arts students. Production of baked goods including ganache, custards, creams, puddings, mousses and purees.

**BAK 116 (1) C****Fine Dining Baking: Practicum**

For culinary arts students. Applies baking theory to production of yeast doughs (bread, puff pastry and choux), focaccia, cakes, icings, decorations, mousses, tortes, puff pastries and fine plated desserts.

**BAK 117 (2) C****Introduction to Lacto Fermentation**

This course takes you behind the scenes of the everyday fermented food products we take for granted. Learn the scientific principles of cheesemaking and fermentation-based pickling, as well as fermented ingredients and beverages. Understand the differences between yeast and bacterial fermentation; learn cheese production, including sanitation and safety; become familiar with the processes for making European-style butter, kombucha, vinegar, and other fermented products.

**BAK 118 (8) C****Bakery Lab II - Advanced Techniques & Leadership**

Builds upon skills and knowledge obtained throughout previous quarters in preparation for a capstone practicum. Students will review and practice topics from prior coursework along with introductions to new concepts in advanced-level pastry work, storeroom management, and higher-level organizational skills. They will help manage retail operations and assist with the training of freshman students in the program.

**BAK 123 (2) C****Adv Buff. Desserts/Wed Cakes/ Preservation-Theory**

Learn, analyze, and develop an understanding for the components of successful wedding cakes and petit fours. You will explore current industry standards in regards to flavor profiles, design components and structure. This course includes a review and discussion on a variety of preservation methods and techniques for preserving summer produce.

**BAK 124 (8) C****Adv. Buffet Desserts/Wedding Cakes/ Preservation**

Design and develop a line of wedding cakes and petits fours using the latest industry techniques. Produce jam and preserves using organic fruits and vegetables. Includes practicing the seed to plate cooking model and designing and marketing a bakery display case.

**BAK 125 (8) C****Advanced Desserts and Breads: Practicum**

Design and develop a line of bakery goods. Purchase and inventory goods and calculate cost analysis as an extension of the class project.

**BAK 126 (3) C****Advanced Whole Grain Baking Theory**

Explore the unique properties associated with a wide variety of fresh milled whole grains as applied to baking as well as alternative sugars in pastry work. Learn scientific principles applied to yeast products, fermented foods, and food preservation including flour facts and alcohol fermentation.

**FINDING COURSES**

Course names and course prefixes are cross-referenced in an index beginning on page 227. For example:

**PREFIX TO COURSE**

HIN . . . . . Watch Technology

**COURSE TO PREFIX**

Watch Technology . . . . . HIN

Common Course Numbering explanation is on page 226.

**BAK 127 (1) C**  
**Chef of the Day Capstone**

Students will demonstrate the combined knowledge and skills obtained from all their previous practical and theoretical SDB training. Over the course of six days, students will prepare a variety of bread, pastry, and dessert items, then present them to a panel of evaluators for critique. Along with the baked items, students will provide written information about their projects that includes recipes, production schedules, food cost, and waste reports.

**BAK 130 (3) C**  
**Confections Lab I: Chocolate and Décor**

This course utilizes theoretical knowledge gained from BAK 103 for practical applications in the kitchen. Students will learn different chocolate tempering and decorative techniques; work with sugar and nut pastes for decorative purposes; cook basic crystalline and non-crystalline candies; and learn to make ganaches for molding and enrobing. This class will also touch on non-nutritive sugar substitutes for decorative work.

**BAK 299 (1-5) C**  
**Special Projects/Commercial Baking**

Independent study course for individual projects in the Commercial Baking/Pastry field. Prereq: instructor permission.

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**Supervision and Management**

**SMG 210 (3) S**  
**Project Management**

Covers project planning basics: timelines, evaluation, implementing budgeting concepts and formulating a budget request strategy with specific and measurable outcomes. Focuses on team concepts. Includes computer lab applications.

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**Surgical Technology**

**SURG 111 (6) C**  
**Surgical Lab**

Covers principles and techniques of operating room procedures. Includes gowning and gloving, aseptic technique, creating and maintaining a sterile field, draping materials, basic instrumentation and patient transport.

**SURG 113 (10) C**  
**Surgical Theory I**

Intro to surgical technology, including legal and ethical aspects, relationships with co-workers, hospital organization and inter-departmental relations, physical and psychological aspects of patient care, operating room techniques and procedures.

**SURG 115 (2) C**  
**Clinical Orientation**

Covers observation of the environment, routines, supplies and equipment, patient-team interaction and application of scientific principles.

**SURG 121 (6) C**  
**Surgical Specialty/Professional Prep**

Intro to the principles and practice of surgical pharmacology and anesthesia related to the surgical patient. Learn about minimally invasive surgical instrumentation, equipment and supplies.

**SURG 123 (8) C**  
**Surgical Theory II**

Examines microbiology, pharmacology, and anesthesiology relating to the surgical patient. Includes additional peri-operative care techniques and surgical procedures, pathophysiology, and the technologist's role in surgery. Covers general, orthopedic, gynecological, genitourinary-re productive, and ophthalmic specialties.

**SURG 125 (4) C**  
**Clinical Practice I**

Provides clinical practice, with focus on development of entry-level skills.

**SURG 133 (8) C**  
**Surgical Theory III**

Intro to circulating duties and job applicant skills. Covers advanced surgical specialties such as ear, nose and throat, vascular, cardiovascular, thoracic, neurological, plastic/reconstructive and pediatric procedures.

**SURG 135 (10) C**  
**Clinical Practice II**

Provides advanced clinical practice to develop entry-level skills.

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**Sustainable Building Science Technology**

**SBST 301 (3) S**  
**Building Science**

Overview of the principles of Building Science and how it is applied to the design, operation and maintenance of buildings and their systems. Covers the interaction of those systems, and the careers that use and are impacted by these principles and their applications.

**SBST 302 (2) S**  
**Building Components and Systems**

Overview of building components, space conditioning and lighting systems, their interactions, and the building science issues surrounding and impacting them.

**SBST 314 (2) S**  
**Professional Portfolio**

Document prior work experience by developing an E-portfolio to receive Workforce Experience Practicum credit.

**SBST 315 (10) S**  
**Work Experience Practicum**

Credits based on the successful completion of the Professional Portfolio course SBST 314. Students must have demonstrated 2-5 years of relevant work experience in their area of interest.

**SBST 321 (2) S**  
**Building and Energy Codes in Washington State**

Overview of building and energy codes and requirements: Prerequisite: Admission to BAS-SBST Program.

**SBST 322 (3) S**  
**Energy Analysis and Auditing**

Covers energy auditing and analysis skills for commercial buildings.

**SBST 325 (1-10) S**  
**Sustainable Building Science Technology Internship**

Observe, reflect and practice sustainable building science technology techniques in a technical, post-secondary environment. Find a building science placement in the field of interest and work with a site supervisor to develop and deliver relevant curriculum. The site supervisor and college faculty advisor will evaluate the internship.

**SBST 331 (2) S**  
**Financing Energy Efficiency and Renewable Energy**

Overview of energy economics.

**SBST 333 (4) S**  
**Building Controls for Energy Efficiency**

Overview of building components.

**SBST 401 (2) S**  
**Utility Rates Regulations and Economics**

Overview of utility rate structure.

**SBST 402 (3) S**  
**Lighting**

Overview of building lighting systems.

**SBST 421 (3) S**  
**Energy Policy**

Overview of energy policy.

**SBST 422 (4) S**  
**Facility Management**

Overview of facilities management.

**SBST 431 (4) S**  
**Professional Communication**

Overview of professional communication in the building science industry

**SBST 432 (3) S**  
**Fiscal Management for Facility Managers**

Overview of fiscal management for facility managers.

**SBST 489 (4) S**  
**Sustainable Building Science Technology Capstone**

Develop a project based on previous classes and internship experiences.

**SBST 499 (1-10) S**  
**SBST Independent Study**

Independent study course. Student will conduct individual research and/or special projects related to discipline under the direction of the designated faculty member within the Sustainability Building Science Technology Program.

**Undergraduate Research****UGR 214 (3) C|N**  
**Introduction to Scientific Research**

Prepares students to successfully complete their own independent research project. Topics include application of the scientific method, research methods, critical analysis of primary literature, ethics in research, proposal writing, and presentation techniques.

**UGR 294 (1-5) C|N|S**  
**Independent Research**

Work collaboratively with peers and faculty. Design, complete and publicly present an original research project.

**Visual Media****VME 110 (4) C**  
**Professional Practices I**

Explores the varied career paths found in visual media. Emphasis is placed on creative styles and trends in image making and storytellers of today. Entry-level issues such as working conditions, time management, organizational strategies and professional ethics will also be examined. Students will begin learning the language of media and how to critique work of their peers.

**VME 120 (4) C**  
**Lighting Techniques I**

Covers the basic methods of commercial lighting; the laws, principles, and practices of light; the qualities of direct/indirect sunlight and tungsten light sources; lighting for form, texture. Introduces standards for the safe operation of lighting equipment in a studio environment.

**VME 121 (4) C**  
**Lighting Techniques II**

Covers studio techniques for lighting people. Addresses safe operation of studio equipment for 'portrait lighting' setups. Introduces three-dimensional contrast in a traditional portrait studio setting. Includes subject rapport, subject posing and development of a theme-based narrative using advanced lighting techniques while demonstrating set construction skills. Prerequisite: Successful completion of the program's previous quarter.

**VME 131 (4) C**  
**Conceptual Solutions I**

Emphasizes research and creative problem solving to achieve a successful solution to a stated visual problem. First of two courses. Students experiment with different presentation techniques and deliverables to solve a series of eleven one week assignments designed to force students to be creative in a short amount of time. Prereq: Successful completion of the program through preceding quarter.

**VME 145 (4) C**  
**Digital Imaging I**

Addresses the terminology and ethics of capturing digital images. Covers the functions and operation of HDSLR cameras. Introduces techniques for determining optimum exposures and basic compositional aesthetics. Includes development of an organized file management system utilizing Adobe Lightroom and parametric editing in Capture One.

**VME 146 (4) C**  
**Digital Imaging II**

Covers the creative and technical requirements of digital image optimization using Adobe Photoshop Creative Cloud. Includes interface navigation, tools, layers and filters, creation and manipulation of image selections, adjustments of color and contrast, use of retouching, masking, cropping, and basic image compositing, and the export of images for print and web. Prerequisite: Successful completion of the first quarter of the Associate of Applied Science program in Visual Media.

**VME 147 (4) C**  
**Digital Imaging III**

Introduces advanced image editing techniques and production workflows in Adobe Photoshop. Focuses on precise color correction, refined selections, and multiple image compositing. Includes advanced retouching and image output and evaluation. Requires the creation of a cohesive final project of professional quality utilizing these advanced image editing tools and techniques.

**VME 150 (4) C**  
**Visual Media I**

This course provides a bridge between still and motion working with a DSLR camera. Introduction to the Adobe Premiere and technical aspects of video production. Students will design, shoot, and edit several short projects. They will be introduced to a digital, non-linear, post-production environment.

**VME 151 (4) C**  
**Visual Media II**

This course examines production methods, pre-production and post-production techniques, basic motion graphics, time-lapse video, slow motion and audio design. Working with crane/jib/sliders and other various tools. Students must work collaboratively as well as individually throughout the quarter.

**VME 153 (4) C**  
**Visual Media III**

Builds on production methods, pre-production, and post-production techniques learned in previous courses. Introduces multi-camera solutions, as well as color correction and grading using Adobe SpeedGrade. Emphasis placed on professional audio and sound effects using Pro Tools for mixing and mastering audio. Students learn how to work effectively, and develop and simulate a professional workflow for a specific project.

**VME 160 (4) C**  
**Studio Techniques I**

Focus on portrait & lifestyle photography techniques: seeing and using available light; using on-camera strobe units; choosing appropriate poses & lighting; story-telling sequencing photos; & adding words & music to increase emotional & saleable impact. Includes retail sales materials, presentations, and pricing strategies. Students encouraged to explore solutions and be creative in their approach to visual problem-solving.

**VME 170 (4) C**  
**Audio Production I**

Introduces critical listening techniques, basic analog and digital theory, as well as best practices for sound recording and audio editing to develop skills as effective audio storytellers. In the field, students will learn to use equipment typical to the industry to record ambiences, sound effects, and voices. Using Adobe Audition and Premiere students will layer sounds to create audio narratives.

**VME 197 (3) C**  
**Work Experience - Visual Media**

Integrates educational studies with supervised work/internship experience. Provides individualized opportunities to apply visual media knowledge and skills in the workplace. Includes developing work experience learning outcomes and monitoring achievement through self-evaluation and faculty and supervisor evaluations.

**VME 220 (4) C**  
**Digital Imaging V**

Introduces beginner & intermediate concepts & techniques for creating & rendering motion graphics using Adobe After Effects. Focuses on video compositing & animation, integration of titles, basic green screen & keying skills, & 3d/360 video integration. Requires completion of a cohesive final project that integrates multiple applications of After Effects capabilities and techniques utilizing these image rendering and animation tools.

**VME 232 (4) C**  
**Conceptual Solutions II**

Final of two courses with an emphasis on research and creative problem-solving to achieve a successful solution to a stated visual problem. Students experiment with different presentation techniques and deliverables to solve a series of eleven one-week assignments designed to compel students to be creative in a short amount of time.

**VME 233 (4) C**  
**Conceptual Solutions III**

Third course in a series with an focus on storytelling through photography and video work. This class will emphasize key script elements such as plot structure, character and scene development. Students will use production design and photographic techniques to produce deliverables that have compelling narrative or character traits. The class work will focus on a series of two to three-week assignments which are designed to compel students to be creative in a short amount of time.

**VME 245 (4) C**  
**Audio Production I**

Introduces critical listening techniques, basic analog and digital theory, as well as best practices for sound recording and audio editing to develop skills as effective audio storytellers. In the field, students will learn to use equipment typical to the industry to record ambiences, sound effects, and voices. Using Adobe Audition and Premiere students will layer sounds to create audio narratives.

**VME 250 (4) C**  
**Visual Media IV**

Advanced digital video production focusing on the skills needed to complete professional digital video productions pertaining to location and studio environments. Students will produce material including short documentaries, interviews, studio productions, and music videos. Students will rotate through the roles of a production team while producing projects.

**VME 251 (4) C**  
**Visual Media V**

Begins the final capstone visual media production. Covers the fundamentals of producing & directing techniques of digital video production. In teams, students learn the process of producing a major video production: concepting, script writing, story development, planning, timelines, props, casting, & budgeting. Explores storytelling using 360 video & virtual reality environments to enhance the experience.

**VME 252 (4) C**  
**Visual Media VI**

Builds on the skills and knowledge acquired in previous Visual Media courses. Introduces advanced editing techniques including compositing footage, color balancing, chroma-keying, advanced effects, and sound mixing and manipulation. Concludes with a capstone project that is collaboratively produced and demonstrates advanced skills in editing techniques.

**VME 261 (4) C**  
**Studio Techniques II**

Second in a series of 3 classes focused on technique. Explores how to understand the needs of the client, the audience, & the art direction of a campaign, as well as professional requirements of corporate & editorial photography. Continued work on understanding lighting controls while working on location. Students engage in real projects to develop conceptual and creative solutions to produce images that tell a compelling story.

**VME 262 (4) C**  
**Studio Techniques III**

The final course, in a series of three, focused on technique. Explores how to understand the needs of the client, the audience, and the art direction of a campaign. Focuses on food & product photography, identifying some of the challenges and how to resolve them. It offers an in-depth research and practice on how different foods, textures, & products (metal, glass, fabric, plastic, etc.) respond to different types of light.

**VME 270 (4) C**  
**Professional Business Practices: Visual Media**

Provides practical experience with pricing and negotiating fees, writing proposals and design briefs, organizing efficient timelines, managing workflows, and applying basic accounting and business practices. Students acquire work contracts with a client and apply their design skills in exchange for a fair wage or equitable trade. Students are provided with ethical guidelines for conduct and behavior within the visual media profession.

**VME 276 (4) C**  
**Portfolio Show**

Students will collaboratively participate in the planning and organization of the portfolio show. This will include, but is not limited to, Branding, Marketing, Web-Design and Development, Photography, Videography, Exhibit Design, Social Media and Promotion. Students are required to design and install their own work for the show.

**VME 280 (4) C**  
**Special Projects I**

The first in a series of 3 courses designed to expand current visual media knowledge & skills, offering students the opportunity to work on a major self-initiated visual media project. Emphasizes research and visual experimentation that leads to a successful visual media solution. By engaging in a unique quarter-long project, students have the opportunity to develop strong portfolio pieces with the goal of employment.

**VME 281 (4) C**  
**Special Projects II**

Second in a series of three courses designed to expand current graphic design knowledge and skills, offering students the opportunity to work on a major self-initiated design project. Emphasizes research and the design process that leads to a successful design solution. By engaging in a unique quarter-long project, students have the opportunity to develop strong portfolio pieces with the ultimate goal of employment.

**VME 282 (4) C**  
**Special Projects III**

The last in a series of three courses designed to expand current graphic design knowledge and skills, offering students the opportunity to work on a major self-initiated design project. The course emphasizes research & the design process that leads to a successful design solution. By engaging in a unique quarter-long project, students have the opportunity to develop strong portfolio pieces with the ultimate goal of employment.

**VME 286 (4) C**  
**Portfolio**

Develop, design and prepare a portfolio of work that represents the student's creative voice and professional direction, for presentation to multiple clients, representatives and agencies. Includes various presentation methods, including electronic portfolios. Create marketing materials: business card, stationery and self-promotion.

**Watchmaker****HIN 111 (6) N****Introduction to Watch Technology**

In this introductory course, students will survey the history of time measurement and the watch and clock trade. Students will learn the fundamentals of safe shop practices including lab hazard, accident prevention and first aid. Introduction to trade terminology associated with tools, equipment, technical drawing and measuring devices used in the trade. Use of technical documents to learn terminology and functions of watch components of modern manual wind watch movements.

**HIN 112 (6) N****Watch Technology I: Tools, Equipment & Measurement**

This course will focus on applying knowledge of tools and equipment including care and maintenance in a lab setting. Students will learn the types and appropriate use of jeweler's saw, tweezers, screw drivers, files and the watchmaker's lathe. Students learn the fundamentals of hardening, tempering and annealing steel and measuring techniques and applying the metric system in the use of instruments and gauges. Students will make technical drawings and manufacture tools and parts using drawings.

**HIN 113 (10) N****Watch Technology I: Practicum**

This is a 10 credit practicum where students begin to apply the information and knowledge gained in HIN 111 and HIN 112. In a lab environment, students will develop basic skills in the manufacture and repair of tools and parts for timepieces. Identification and application of tool and equipment use while exercising safety precautions in a watchmaker's shop will provide the context for this direct learning experience.

**HIN 121 (6) N****Watch Technology II: Professional Knowledge**

Students will learn the formulas used in the manufacturing and repair of the oscillator, barrel, and gear train. The class will also cover cutting geometry, finishing techniques, and watch movement adjustments.

**FINDING COURSES**

Course names and course prefixes are cross-referenced in an index beginning on page 227. For example:

**PREFIX TO COURSE**

HIN . . . . . Watch Technology

**COURSE TO PREFIX**

Watch Technology . . . . . HIN

Common Course Numbering explanation is on page 226.

**HIN 122 (6) N**

**Watch Technology II: the Watchmakers Lathe**

Students will learn advanced lathe techniques using the cross-slide and milling attachment on their watchmaking lathes. Building upon HIN 121, students will undertake projects with increasingly smaller dimensions and tighter tolerances. Students will learn how to produce simple watch components, apply finishing techniques, and practice the competencies assessed on the SAWTA I intermediate exam.

**HIN 123 (10) N**

**Watch Technology II: Practicum**

Practicum where students apply the information and knowledge gained in HIN 121 and HIN 122. In a lab environment, students will further work on the manufacture of tools and parts for timepieces. Students will also continue to work on movement service, adjustments, oiling, and related tasks. Students will practice the competencies assessed on the SAWTA I exam.

**HIN 131 (6) N**

**Watch Technology III: Winding and Setting Mechan**

In this course students learn to correct common errors in the mainspring barrel, the barrel bridge and mainplate. Introduction to common types of setting mechanisms and practice correct disassembly, assessment and adjustment, re-assembly and lubrication procedures. Students learn the mathematical formulas for determining correct size of mainsprings. Pre-req: HIN 121, 122 and 123. Co-req: HIN 132 and 133.

**HIN 132 (6) N**

**Watch Technology III: Watch Gear Trains**

Students are introduced to the mathematics involved in working with the gear train and tooth form, module, pitch and distance between centers including calculations to determine running time and vibrations per hour for mechanical watches and ratios. Students learn to dismantle, assemble, maintain and repair the gear train of a watch. Pre-req: HIN 121, 122 and 123. Co-req: HIN 131 and 133.

**HIN 133 (10) N**

**Watch Technology III: Practicum**

This is a ten-credit practicum in which students will apply the information and knowledge gained in HIN 131 and HIN 132. In lab environment students will practice jewel setting and adjusting. Skills will be developed to prepare for and complete the third WOSTEP intermediate exam (winding, setting, gear train). Students will continue to develop their skills of identification and application of the appropriate tools and equipment while exercising safety precautions in a horological repair shop. Pre-req: HIN 121, 122 and 123. Co-req: HIN 131 and 132.

**HIN 141 (4) N**

**Watch Technology IV: Escapements**

Students are introduced to the role of escapement in the watch. History and development of different escapements and their influence on timekeeping are explored.

**HIN 142 (4) N**

**Watch Technology IV: External Parts**

Students learn about the different case styles and the parts that complete the case including crystals, crowns, push buttons, dials, hands, and gaskets.

**HIN 143 (8) N**

**Watch Technology IV: Practicum**

This is an eight-credit practicum where students apply the information and knowledge gained in HIN 141 and HIN 142.

**HIN 211 (6) N**

**Watch Tech V: Introduction to Precision Timing**

Students are introduced to the concepts of precision timing with emphasis on the eight influences of isochronisms (friction, external influence, regulating pins, escapement, magnetism, temperature, poisoning of balance wheel, poisoning of hairspring). Students will apply the theoretical concepts of precision timing to practice analyzing errors and making corrections to improve the timekeeping of the watches. Heavy focus will be on the escapement and hairspring (theory and adjustments).

**HIN 212 (6) N**

**Watch Tech: Introduction to Automatic Watches**

This course introduces the various self-winding (automatic) mechanisms for watches. Students practice testing, adjusting, disassembly and assembly of automatic mechanisms and study the history and development of these mechanisms.

**HIN 213 (10) N**

**Watch Tech V: Practicum**

Students build upon HIN 211 and HIN 212 coursework, gaining further experience with precision timing, automatic movement service, and the repair/replacement of external casing components. Students will be introduced to customer repairs and short jobs (battery, crystal, crown & stem replacement). They will continue working on case and bracelet refinishing, theory knowledge.

**HIN 221 (6) N**

**Watch Technology VI: Precision Timing II**

Students continue studying the theory and practical application of precision timing principles. Areas of focus include the hairspring, balance, and escapement. Students will work on checking and adjusting these components, fitting them into the overall service of mechanical automatic watches.

**HIN 222 (6) N**

**Watch Technology VI: Automatic Watches II**

Students continue practicing the service of self-winding (automatic) mechanisms in watches. These tasks include testing, adjustment, disassembly/re-assembly, oiling, dialing, and casing. Theory will cover the history, development, and mechanisms behind various types of automatic systems.

**HIN 223 (10) N**  
**Watch Technology VI: Practicum**

Students build upon HIN 221 and HIN 222 coursework, gaining more experience with precision timing, automatic movement service, and the repair/replacement of external casing components. Students will continue working on customer repairs and short jobs, refinish more complex styles of cases and bracelets, and further develop their understanding of related theory.

**HIN 231 (6) N**  
**Watch Technology VII: Advanced Precision Timing**

Students refine the art of precision timing. In this course students synthesize all the previous work in precision timing. The precision of a watch is dependent upon each unit of the watch being clean and well adjusted. In this class students use all the skills developed throughout the program, checking each unit systematically so that repairs are made in a timely fashion. Pre-req: HIN 221, 222 and 223. Co-req: HIN 232 and 233.

**HIN 232 (6) N**  
**Watch Technology VII: Chronographs**

Students learn to repair the main types of chronographs those with column wheels and those with cams. The following material is covered: the function of chronographs, identification of the components of chronographs, checking the general condition of the components, checking the correct fitting of all the components, understanding and correct application of lubrication, identifying errors and carrying out required corrections. Pre-req: HIN 221, 222 and 223. Co-req: HIN 231 and 233.

**HIN 233 (10) N**  
**Watch Technology VII: Practicum**

This a ten-credit practicum in which students will apply the information and knowledge gained in HIN 231 and HIN 232. In lab environment students will practice repairing chronograph watches and continue working on precision timing. Students will further develop their skills of identification and application of the appropriate tools and equipment while exercising safety precautions in a horological repair shop. Pre-req: HIN 221, 222 and 223. Co-req: HIN 231 and 232.

**HIN 241 (4) N**  
**Watch Technology VIII: After-Sales Service**

Students learn the range of skills necessary to manage a watch repair shop.

**HIN 242 (4) N**  
**Watch Technology VIII: Review of Courses**

Highlights of the two-year Watch Technology Program are reviewed in preparation for the final exams.

**HIN 243 (8) N**  
**Watch Technology VIII: Practicum**

This is an eight-credit practicum where students apply the information and knowledge gained in HIN 241 and 242. In a lab environment, students will practice repairing all types of watches and review the theory of watchmaking.

**Welding Fabrication****WFT 100 (5) S**  
**Welding Theory**

Exploration of the applications and criteria for selecting the most widely used welding and weld-related metal joining processes, including, GMAW, FCAW, SMAW, GTAW, submerged metal arc, oxyacetylene, brazing, soldering and cutting, plasma arc cutting and resistance welding. Covers types of welds and weld joints.

**WFT 105 (5) S**  
**Print Reading and Welding Symbols**

Learn to read and interpret industrial prints for both mechanical and structural welded fabrications. Includes interpreting various views and types of prints and welding symbols and their application.

**WFT 111 (5) S**  
**Materials and Testing**

Covers theory and application of metallurgical principles applied to weld design and heat affected zone (HAZ), heat treating and distortion (pre-post), and heat effects on crystalline structure of ferrous and non-ferrous metals. Includes methods of destructive and nondestructive testing.

**WFT 120 (6) S**  
**Intro to Welding Oxyacetylene/Shielded Metal Arc**

Practice safe and efficient use of oxyacetylene flame for cutting and joining applications. Perform sound welds using the Shielded Metal Arc Welding (SMAW) process.

**WFT 121 (6) S**  
**SMAW Shielded Metal Arc Welding**

Learn advance configurations and position for welding with the Shielded Metal Arc Welding process including vertical and overhead. Prepare for the WABO certification testing procedure. Prereq: Placement into Engl 105 and Math 110 or instructor permission. Coreqs: Any of the following: TDR 131, ENGL 101 or ENGL 105 with ICT 103, MAT 110, PSYC 240, WFT 115.

**WFT 124 (6) S**  
**Gas Metal Arc Welding**

Lab practice and competencies with equipment, multiple positions and applications of GMAW uses. Combines weld theory, operation of OXY-Acetylene and SMAW processes, using mild steel, low alloy steel, aluminum, and stainless steel.

**WFT 125 (6) S**  
**FCAW Flux Core Arc Welding**

Lab practice and competencies with equipment, multiple positions and applications of FCAW uses (Inner shield/Duel Shield). Combines weld theory, operation of OXY-Acetylene, and SMAW processes, using mild steel, low alloy and stainless steel.

**WFT 127 (6) S**  
**Gas Tungsten Arc Welding**

Learn equipment, theory of operation and applications of the Gas Tungsten Arc Welding (GTAW) process, also called TIG and Heliarc, that is used in pressure piping systems, aerospace products and with heat-sensitive metals.

**WFT 128 (6) S**  
**Fabrication Carbon Arc/Plasma Arc Cutting**

Learn the practical transfer of blueprint information onto metal using a variety of techniques. Covers applications of geometric shape constructions and divisions in the shop environment. Demonstrate proficiencies with Carbon Arc Cutting, Plasma Arc Cutting, and manual OXY Fuel Cutting.

**WFT 144 (6) S**  
**Shipyard Intensive Welding**

Learn to adapt welding techniques to the marine industry. Apply Flux Core Arc Welding (FCAW), tack welding, joint fit-up, back-gouging and other skills in a shipyard work environment. Includes practice with welds in vertical and overhead positions for marine operations and accomplishing welds outdoors in all weather conditions and in areas not easily accessible.



**WFT 197 (3) S****Industry Internship**

Provides practical work experience and employment contacts by integrating academic studies with actual on-the-job training. Orientation to Internships required prior to registration.

**WFT 201 (6) S****Intermediate Welding 1**

Practice intermediate level configurations and positions for welding. Choose between SMAW, GMAW, FCAW, or GTAW process on mild steel plate or pipe. Students will cut and bevel plate or pipe and fit up in preparation for welding, using oxy fuel and hand tools. Safely set up and use electric arc welding equipment to deposit multi-pass welds.

**WFT 202 (6) S****Advanced Welding 1**

Practice welding technique in preparation for welder certification testing, using SMAW, GMAW, FCAW, or GTAW process on steel plate or pipe. Students will assemble and weld test coupons, then perform destructive testing on test specimens. Students will evaluate weld quality using WABO standards. Students will follow Weld Procedure Specifications (WPS) and complete Welder Performance Qualification Reports (WPQR)

**WFT 220 (8) S****Pipe Shielded Metal Arc (SMAW)**

Learn more advanced configurations and positions for welding with the E 7018, and E 6010 Shielded Metal Arc Welding process on pipe including vertical and overhead. Cut and bevel pipe with oxy fuel and hand tools. Prepare for the WABO pipe certification testing procedure.

**WFT 227 (6) S****Intermediate Welding 2**

A project-oriented set of practical exercises that conveys knowledge of common shop equipment along with theory of operation and applications of the SMAW, GMAW, FCAW, and GTAW processes. Student may fabricate project from choice of provided blueprints or design and create their own preapproved fabrication project.

**WFT 228 (8) S****Pipe Gas Tungsten Arc Welding (GTAW)**

Learn more advanced configurations and position for welding with the Gas Tungsten Arc Welding (GTAW) on pipe including vertical and overhead. Cut and bevel pipe with oxy fuel and hand tools. Prepare for AWS pipe certification testing procedure.

**WFT 238 (6) S****Advanced Welding 2**

Improve fabrication skills including design and development, blueprint reading, layout, cutting processes, fit up, tack welding, final welding and finishing, and product assessment. Student will fabricate project from choice of provided blueprints or design and create their own approved fabrication project.

**WFT 241 (6) S****WABO Test Prep SMAW Plate**

Students practice welding technique in preparation for the Washington Association of Building Officials (WABO) welder certification test, using the Shielded Metal Arc Welding (SMAW) process on steel plate. Students will assemble and weld test coupons, then perform destructive testing on test specimens. Students will evaluate weld quality using WABO standards. Students will follow Weld Procedure Specifications (WPS) and complete Welder Performance Qualification Reports (WPQR)

**WFT 242 (6) S****WABO Test Prep GMAW Plate**

Students practice welding technique in preparation for the Washington Association of Building Officials (WABO) welder certification test, using the Gas Metal Arc Welding (GMAW) process on steel plate. Students will assemble and weld test coupons, then perform destructive testing on test specimens. Students will evaluate weld quality using WABO standards. Students will follow Weld Procedure Specifications (WPS) and complete Weld Performance Qualification Reports (WPQR)

**WFT 243 (6) S****WABO Test Prep FCAW Plate**

Students practice welding technique in preparation for the Washington Association of Building Officials (WABO) welder certification test, using the Flux Core Arc Welding (FCAW) process on steel plate. Students will assemble and weld test coupons, then perform destructive testing on test specimens. Students will evaluate weld quality using WABO standards. Students will follow Weld Procedure Specifications (WPS) and complete Welder Performance Qualification Reports (WPQR)

**WFT 244 (6) S****WABO Test Prep GTAW Plate**

Students practice welding technique in preparation for the Washington Association of Building Officials (WABO) welder certification test, using the Gas Tungsten Arc Welding (GTAW) process on steel plate. Students will assemble and weld test coupons, then perform destructive testing on test specimens. Students will evaluate weld quality using WABO standards. Students will follow Weld Procedure Specifications (WPS) and complete Welder Performance Qualification Reports (WPQR)

**WFT 245 (6) S****WABO Test Prep SMAW Pipe**

Students practice welding technique in preparation for the Washington Association of Building Officials (WABO) welder certification test, using the Shielded Metal Arc Welding (SMAW) process on steel pipe. Students will assemble and weld test coupons, then perform destructive testing on test specimens. Students will evaluate weld quality using WABO standards. Students will follow Weld Procedure Specifications (WPS) and complete Welder Performance Qualification Reports (WPQR)

**WFT 246 (6) S****WABO Test Prep GTAW Pipe**

Students practice welding technique in preparation for the Washington Association of Building Officials (WABO) welder certification test, using the Gas Tungsten Arc Welding (GTAW) process on steel pipe. Students will assemble and weld test coupons, then perform destructive testing on test specimens. Students will evaluate weld quality using WABO standards. Students will follow Weld Procedure Specifications (WPS) and complete Welder Performance Qualification Reports (WPQR)

**WFT 297 (1-12) S****Special Topics in Welding Fabrication**

Special topics for an individual or group in welding fabrication field.

## Wine Technology

**WIN 101 (4) S**

### Introduction to Enology & Viticulture

An introduction to the science of winemaking, history and geographical distribution; grape varieties and wine types; influence of climate and soil; wine fermentation, handling, storage and bottling methods; wine disorders; winery sanitation; legal compliance. Materials fee will be assessed. Students must be 18 years of age to participate in wine tasting.

**WIN 103 (4) S**

### Elements of Wine Production

Introduction to the elementary production of wines including considerations that take place during the harvesting of grapes, transportation, stemming and crush. May include field trip if season permits. Orientated for the beginning student. Materials fee will be assessed. Students must be 18 years of age to participate in wine tasting. Prerequisite: WIN 101,

**WIN 104 (4) S**

### Elements of Wine Production II

Intermediate course in topics in winemaking that will emphasize the theories and practices of various fermentation process, theories of racking, topping, aging, and preservation methods. Materials fee will be assessed. Students must be 18 years of age to participate in wine tasting.

**WIN 105 (4) S**

### Elements of Wine Production III

Advanced overview of topics in winemaking. Emphasizes the final stages of wine production including the usage and maintenance of barrels, introduction to blending wines, and topics in bottling and packaging. Students must be 18 years of age to participate in wine tasting. Wine Program lab fees apply.

**WIN 107 (5) S**

### Winery Production I

Practical application of theories and principles of grape harvest/processing & wine fermentation activities studied and discussed in WIN 103, Elements of Wine Production. This course combines real-time lecture and hands-on practicum. Materials fee will be assessed. Students must be 18 years of age to participate in wine tasting.

**WIN 108 (4) S**

### Winery Production II

Practical application of theories and principles of winter winemaking activities studied and discussed in WIN 104, Elements of Wine Production II. This course combines real-time lecture and hands-on practicum. Materials fee will be assessed. Students must be 18 years of age to participate in wine tasting.

**WIN 109 (4) S**

### Winery Production III

Advanced studies in winemaking. Practical application of the theories and principles of WIN 105. Materials fee will be assessed. Students must be 18 years of age to participate in wine tasting.

**WIN 112 (5) S**

### Wine Science

An introduction to scientific aspects of wine composition and production for the student with a limited background in chemistry and microbiology. The course prepares students to understand scientific material presented in more advanced enology courses. Materials fee will be assessed. Students must be 18 years of age to participate in wine tasting.

**WIN 122 (4) S**

### Wine Chemistry and Microbiology

Covers wine chemistry and microbiology including wine acidity, sulfur dioxide, protein and phenolic equilibria and other concerns. Learn to make informed decisions on style, crush options, cellar practices, fining, stabilization and quality assurance. Materials fee will be assessed. Students must be 18 years of age to participate in wine tasting.

**WIN 123 (4) S**

### Sensory Evaluation

An introduction to wine sensory evaluation methods including statistical analysis of trials, philosophy of wine styles and the common evaluation methods of representative wines used in sensory testing.. Materials fee will be assessed. Students must be 18 years of age to participate in wine tasting.

**WIN 130 (4) S**

### Wine Tourism Introduction

Practical application of principles of tourism to winery brand and sales. Students will engage in a quarter-long practicum for specific case and provide pitch with accompanying research and implementation materials. Wine program fee applies. Students must be over 18.

**WIN 131 (4) S**

### Introduction to Washington Wines

Intro to wines produced in Washington, including history, viticulture practices and winemaking styles. Includes sensory evaluation of representative Washington wines. Materials fee will be assessed. Students must be 18 years of age to participate in wine tasting.

**WIN 132 (3) S**

### Wine History: Ancient Times to the Enlightenment

A survey of wine and its role in history, religion, art, culture and society from pre-history to the Age of Enlightenment. Includes sensory evaluation of representative wines. Materials fee will be assessed. Students must be 18 years of age to participate in wine tasting.

**WIN 133 (4) S**

### Introduction to Wines of the World

Introduction to the world's wine-producing regions, including history, viticulture practices and winemaking styles. The seated class includes sensory evaluation of representative wines. Materials fees will be assessed. The online class encourages tasting groups and provides a guide for creating one. Students must be 18 years of age to participate in wine tasting.

**WIN 141 (4) S**

### Wine Marketing and Sales

Introduction to wine marketing and sales methods, basic approaches to packaging, advertising, promotion, retail and wholesale selling of wine. A materials fee will be assessed. Students must be 18 years of age to participate in wine tasting.

**WIN 142 (4) S**

### Wine Business -Winery Operations

Overview of winery operations with emphasis on inventory, pricing, forecasting, sales methods, allocating and distribution of wine from the manufacturer. The course covers compliance for Washington State. Includes equipment, insurance, bonding, production, general management, and space needs of a winery. Materials fee will be assessed. Students must be 18 years of age to participate in wine tasting.

**FINDING COURSES**

Course names and course prefixes are cross-referenced in an index beginning on page 227. For example:

**PREFIX TO COURSE**

HIN . . . . . Watch Technology

**COURSE TO PREFIX**

Watch Technology . . . . . HIN

Common Course Numbering explanation is on page 226.

**WIN 143 (4) S**  
**Wine Business-Distribution Network and Suppliers**

Further examination of Sales and Distribution. Reviews the roles of brokers and distributors. Topics will include the costs of distribution including margins, mark ups, freight and taxes. Covers decisions related to import and export of wine. Regulatory agencies and legal requirements. Students must be 18 years of age to participate in wine tasting.

**WIN 145 (4) S**  
**Wine Business - Entrepreneurship and Innovation**

Systematic look at components of successful wine-related businesses with emphasis on the decisions faced by entrepreneurs. Concepts of financial management, profitability, break-even analysis, capital budgeting, and cash flow analysis. Students will be exposed to key aspects of the business including creating a business plan, regulatory climate for making and selling wine, and brand promotion. Recommended that WIN 141 and WIN 142 be taken prior to WIN 145 but not required for registration.

**WIN 150 (2) S**  
**Winery Compliance**

A practice-oriented overview of the common compliance issues faced by winery businesses, including: entity formation, licensing, operational compliance, marketing compliance, and taxation. This course will focus on federal and Washington State laws and regulations, and will also introduce key differences in Oregon and California State regulatory schemes. Materials fee will be assessed. Students must be 18 years of age to participate in wine tasting.

**WIN 151 (4) S**  
**Introduction to Food and Wine Pairing**

Learn the basic elements of the character and key components of wines. Includes the four primary taste sensations present in everyday food (salty, sweet, bitter and savory) and how these affect the taste of wine. Material fees will be assessed. Students must be 18 years of age to participate in wine tasting.

**WIN 152 (4) S**  
**Advanced Food and Wine Pairing**

This course will evaluate, discuss and investigate classical and new cuisines and how they can be paired with wines throughout the world. Food preparation demonstrations and various methods of preparation will be covered as it relates to wines. The course will focus on classic cuisines, new cuisines and regional preparations and wines paired with them. Material fees will be assessed. Students must be 18 years of age to participate in wine tasting.

**WIN 160 (4) S**  
**Sommelier Service and Beverage Management**

This class will focus on product knowledge, professional standards in service, and management of alcoholic beverages in retail and foodservice industry. The student will gain practical knowledge of table service, regulations, and compliance, conducting tastings, cellar management, and pricing, cost controls, and development of wine lists. Students must be 18 years of age to participate in wine tasting.

**WIN 170 (4) S**  
**Food & Wine Pairing: Other Ferments**

An introduction to beer sensory evaluation, service and food pairing methods. The course will cover beer history including Purity Laws, the brewing process, ingredients, beer styles, brewery operation and quality control, beer categories and styles. The student will study the business of beer including the purchasing, storage and handling of beer, beer manufacture and distribution. Materials fee will be assessed. Students must be 18 years of age to participate in tasting.

**WIN 197 (1-5) S**  
**Internship in Wine Technology**

Students apply academic learning and skills in wine making, marketing, distribution, and industries related to their field study. Course credit can be earned through current employment or the development of opportunity or leads found in conjunction with the WorkSource Office. Student must complete hours and submit a Training Agreement, Learning Outcomes, and a Self-Evaluation in order to pass. Prerequisite: approval from a Faculty Mentor (Instructor) and Embedded Career Specialist.

**WIN 224 (3) S**  
**Advanced Sensory Evaluation**

A continuation of WIN 123, Sensory Evaluation, with more focus on blind tastings, anatomy of the human sensory receptors, and a strong focus on classical style comparisons. Group work, group tastings, varietal expressions, and production methods which bring about aromas and characteristic will be explored. Materials fee will be assessed. Students must be 18 years of age to participate in wine tasting.

**WIN 233 (4) S**  
**Advanced Wines of the World - France & Spain**

In depth study of France and Spain's wine producing regions including grape varieties, origin of cultivars, geological exploration, vine cultivation and viticulture, history of the regions winemaking, food specific to each region, and regulations for wine categories. Sensory evaluation of representative wines assessed in each class. Materials fees will be assessed. Students must be 18 years of age to participate in wine tasting. Prerequisites: WIN 133

**WIN 235 (4) S**  
**Advanced Wines of the World: New World**

In depth exploration of the New World wine producing regions, including identifying key differences in production, taste, cost, and other factors making each wine region unique. Explore the influence of the increasingly important role of varieties since the 20th century. Sensory evaluation of representative wines assessed in each class. Materials fee will be assessed. Students must be 18 years of age to participate in wine tasting.

**WIN 253 (3) S****Advanced Food and Wine Pairing: Old World**

Advanced course designed to provide an appreciation of the history and culture of food and wine traditions with a focus on Old World Wine including France, Italy, Greece, Turkey, Austria and Germany. Focus on major grape varieties, appellations, laws, geography, climate and soils that define the terroir of each grape growing region. Material fees will be assessed. Students must be 18 years of age to participate in wine tasting.

**WIN 257 (4) S****Food & Wine Pairing: Cheeses & Desserts**

A focused study of the cohesive pairing in bringing desserts and wine together. Course covers the various styles and production of sweet, fortified and dessert wine and the history and development of desserts, pastry and confection. Included in this class will be the production and plating, pairing and presentation of wine and desserts as partners. Material fees will be assessed. Students must be 18 years of age to participate in wine tasting. Prerequisite: WIN 151 or concurrent enrollment.

**Women's Studies**

See *Gender & Women's Studies*, page xxx.

**Wood Construction****WCO 197 (1-8) C****Work Experience-Wood Construction**

Integrates educational studies with supervised work/internship experience. Provides individualized opportunities to apply wood construction knowledge and skills in the workplace. Includes developing work experience learning outcomes and monitoring achievement through self-evaluation and faculty and supervisor evaluations.

**WCO 299 (1-18) C****Special Projects Boatbuilding**

Special Projects in Boatbuilding

**Wood Technology Center****WTC 110 (18) C****Introduction to Professional Woodworking**

Intro to wood construction skills and safety, including safe operation of basic hand and power tools, wood construction terminology and materials.

**WTC 131 (14) C****Introduction to Composite Boatbuilding**

Introduces fiberglass boatbuilding as well as wood joinery. Students work in teams to lay up, by hand, a complete fiberglass hull and then trim it with wood. Industry standards in safety and production will be modeled. Prereq: WTC 110 with a minimum GPA of 2.0.

**WTC 132 (4) C****Introduction to Marine Electrical Systems**

Introduces basic AC and DC electrical systems as found on recreational and small commercial vessels. Safe installation and troubleshooting of engine starting and charging systems, DC house systems for lights, pumps, navigational gear and shore power AC systems. Prereq: WTC 110 with minimum GPA 2.0.

**WTC 133 (10) C****Wooden Boat Joinery and Repair**

Construction and repair of both contemporary and traditional wooden boats. Topics include: tools, wood types, adhesives, pattern making and interior joinery on wood and composite vessels. Personal and shop safety are emphasized. Prereq: WTC 131 and WTC 132 with a minimum GPA 2.0 for each course.

**WTC 134 (8) C****Introduction to Marine Mechanical Systems**

Introduces basic gas and diesel engine operating principles, service, maintenance and troubleshooting. Course also covers marine sanitation systems, various marine pumps and plumbing. Prereq: WTC 131 and WTC 132 with minimum GPA 2.0 for each course.

**WTC 135 (14) C****Advanced Composites**

Complex fiberglass boatbuilding and repair problems, including repair of damaged fiberglass structures, plug and mold building, and advanced composites, including resin infusion. Direct hands-on experience in safe and productive use of machinery and supplies is emphasized.

**WTC 136 (4) C****Marine Electrical II**

Advanced vessel electrical systems, sizing of battery banks, AC battery charging systems, inverter systems, engine operation gauge systems, gen-sets and galvanic corrosion. Preparation for ABYC Marine Electrical Certification exam.

**WTC 138 (1-18) C****Advanced Wooden Boat Joinery and Repair**

Provides the opportunity to build one's own boat or undertake a more comprehensive boat restoration project. Emphasis is on performance in a professional manner in safety and project execution. Course is optional.

**WTC 141 (18) C****Residential Remodel and Preservation Carpentry**

Covers specific techniques in residential remodeling including bathrooms and kitchens, stairs, scaffolding design and construction, sheetrock demolition, installation and repair and siding application.

**WTC 142 (4) C****Introduction to Carpentry and Blueprint Reading**

Focuses on career pathways, craftsmanship, vocabulary, blueprint reading, and jobsite and tool safety. Covers materials, products, tools and best practices for constructing sustainable residential and light commercial construction. Emphasizes developing a strong work ethic, communication skills and collaboration strategies.

**WTC 143 (5) C****Building Site System Site Selection to Layout**

Develops skills in site selection, building layout, surveying, and moisture management. Covers appropriate selection of appropriate materials, products, tools and best practices for sustainable residential and light commercial construction.

**WTC 144 (9) C****Foundation System Forms to Concrete Finishes**

Develops skills in building foundations including form construction, concrete and cement placement, reinforcement and finishing. Covers appropriate selection of materials, products, tools and best practices for sustainable residential and light commercial construction.

**WTC 145 (9) C**  
**Framing Systems Floor to Ceiling**

Develops skills in structural framing systems including building physics, framing layout, alternative and traditional framing techniques and energy efficiency strategies. Covers appropriate selection of materials, products, tools and best practices for sustainable residential and light commercial construction.

**WTC 146 (5) C**  
**Roof System Framing to Roofing Installation**

Develops skills in roof systems including framing styles, roofing techniques, flashing, ventilation, roofing materials, and installation strategies and techniques. Covers appropriate selection of materials, products, tools and best practices for sustainable residential and light commercial construction.

**WTC 147 (4) C**  
**Stair System Rough Framing to Finished Stairwell**

Develops skills in stair systems, including interior and exterior framing styles, layout techniques, and design strategies and techniques. Covers appropriate selection of materials, products, tools and best practices for constructing durable stairways in residential and light commercial buildings.

**WTC 148 (9) C**  
**Exterior Finishes Building Enclosure Finish Trim**

Develops skills in building exterior systems including building enclosure design, siding installation techniques, installing insulation, window types and installation, flashing techniques and strategies, and trim design and installation techniques. Covers appropriate selection of materials, products, tools and best practices for sustainable residential and light commercial construction.

**WTC 149 (9) C**  
**Interior Finishes Door Installation to Trim**

Develops skills in building interior systems including drywall installation and finishing, door and trim installation, finish carpentry techniques and strategies. Covers appropriate selection of materials, products, tools and best practices for sustainable residential and light commercial construction.

**WTC 151 (18) C**  
**Intro to Cabinetmaking Fundamentals**

Learn to work safely and efficiently with hand, portable, and stationary tools to produce jigs and fixtures to increase productivity. Covers basic principles of joining and assembling, blueprint reading, layout procedures, developing a cut list, milling procedures, and fabrication techniques to successfully produce required projects. Use working drawings, layout on a story stick or on a CAD program to construct a router table.

**WTC 153 (18) C**  
**Basic Cabinetmaking Fundamentals**

Build a series of jigs and fixtures to produce basic traditional joinery. Use working drawings to produce a frameless cabinet based on the 32mm system of cabinet construction, and a face frame cabinet for personal hand tool storage. Includes workplace standards for self-confidence, interpersonal communication and safe use of equipment and tools, and individual skills development.

**WTC 155 (18) C**  
**Adv Cabinetmaking Architectural Woodworking Fund**

Design, layout and construct three pieces of furniture using advanced joinery techniques, applications of veneers, and previously learned construction techniques. Emphasizes mortise and tenon joinery, tapered legs and application of basic veneering techniques. Within certain criteria, choose own dimensions, materials and detailing.

**WTC 157 (18) C**  
**Independent Capstone Project**

Propose a culminating project of interior furnishings (casework, furniture, and millwork) of a custom or limited production fabrication. Devise a coherent engineering approach to the concept and manage all project tasks. Emphasizes individual time management, problem solving, creativity, and professional growth. Expand fabrication skills. All projects must be faculty approved.

**WTC 161 (1-2) C**  
**Construction Job Readiness**

Prepare for entry-level employment as a beginning apprentice in a building/construction trade. Focuses on job hunting materials and skills, entry requirements for various trades, and knowledge of the union apprenticeship system.

**WTC 163 (2) C**  
**Blueprint Reading**

Learn basic blueprint terms and symbols and follow the plan in a construction application. Focuses on job hunting materials and skills.

**WTC 164 (0.5) C**  
**Industrial 1st Aid/CPR/AED**

Covers cardiopulmonary resuscitation (CPR) and basic industrial first aid as it applies to the building and construction trades. Learn to apply correct life saving techniques, assess and treat the sick and injured.

**WTC 165 (0.5) C**  
**Road Flagging**

Prepare for road flagging certification. Learn to establish and maintain a safe traffic flow in a construction zone, understand hazardous and safe behaviors in flagger situations, and review material to successfully pass the Washington State 3-year flagger certification examination.

**WTC 167 (9) C**  
**Const Trades Training I**

Survey of skills and responsibilities of 12 building/construction trades. Visit the training centers of several trades: carpentry, laborer, electrician, plumber, drywall installer, brick layer, painter, cement mason, sheet metal worker, and ironworker.

**WTC 172 (1) C**  
**Forklift Operation & Crt**

Covers functions and parts of a forklift, OSHA forklift regulations, safety habits, and proper picking, placing, and moving of a variety of loads through a work site. Take the test to become an OSHA certified forklift operator, a federal requirement in industry.

**WTC 174 (2) C**  
**Construction Tools & Materials**

Focuses on construction-related hand and power tools, equipment and materials. Students learn proper use and terminology, and practice hands-on skills training in the safe and appropriate use of construction related hand and power tools, equipment and materials.

**WTC 177 (1) C**  
**Fitness and Nutrition I**

Develop competency in personal dietary management and physical fitness through regular stretching and aerobic exercise to assure a more injury free and healthier career in construction.

**WTC 179 (1) C**

**OSHA 10 Safety**

Occupational Safety and Health Administration regulates construction safety, and certifies workers on safety practices. OSHA 10 (first level) provides 10 hours of safety training: intro to OSHA, personal protective equipment, stairways and ladders, electrical, fall protection, confined space, scaffolds, cranes, excavations, and materials handling.

**WTC 203 (3) C**

**Introduction to Vectorworks**

Introduction to drafting and design using the cross-platform program Vectorworks. Offered at the Wood Technology Center.

# Seattle Colleges District VI Administration

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B.A., Seattle Pacific University  
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B.A., M.Ed., University of Washington***BRIANNE SANCHEZ****Dean, Student Achievement & Registrar***A.A., Edmonds Community College  
B.S., University of Phoenix***Faculty****ABERCROMBIE, STEVE****B.A.S., Sustainable Building Science  
Technology***B.A., University of Washington  
M.S., The Evergreen State College***ALAVI, ZAHRA****ESL***B.A., University of California  
M.A. TESOL, Columbia Teachers College  
Certificate in Teaching of Composition/  
Postsecondary Reading, San Francisco  
Certificate in Diversity and Equity Training,  
New York City Dept. of Education***ALLEN, MICHAELANN****HEALTHCARE & HUMAN SERVICES***M.A. Education***ALI, ABOUBAKER****ESL***B.S., State University of New York***AMARATUNGE, ANTON****Aviation Maintenance Technology***A.A.S., South Seattle Community College  
B.S., Embry-Riddle Aeronautical University  
M.Ed., University of Washington, Bothell***ANGEL, LAWRENCE****Economics****ANDERSEN, HOWARD****Automotive Technology***A.A.S., Chemeketa Community College  
ASE Master Certified Automotive  
and Heavy Duty  
ASE Undercar, Alternative Fuels,  
and Advanced Drivability Specialist  
Professional Technical Teaching Certificate***ANGEL, LARRY****Economics***B.S., California Polytechnic State University  
M.S., California State University  
Ph.D., University of Washington***AZPITARTE, MARIA****Nursing***M.N. RN, University of Portland***BARNES, HALEY****Workforce Instruction****BARR, JULIAN****College Transfer****BART, DONELLE****ESL***B.A., Augustana College  
M.Ed., Western Washington University***BELLOWS-ROCHFORT, HALIMAH****ESL***B.S., New York University  
M.A., University of Exeter  
M.S., San Francisco State University***BENNETT, DAVID****Aviation***A.A.S., South Seattle Community College  
B.A., B.S., Washington State University***BENTLEY, JAMES****Aviation***A.A.S., South Seattle Community College  
B.A.S., South Seattle College***BLYTHE-GOODMAN, SUSAN****Career Link***M.Ed. University of Washington***BOEHM, DAYLENE****Physical Fitness/Nutrition***B.S., Seattle Pacific University  
M.S., Central Washington University***BRAUBURGER, ANALEA****Psychology & Spanish***B.S., Arizona State University  
M.S., Pennsylvania State University***BRUN, CHARLOTTE****Library***B.A., Sciences Po, France  
M.L.I.S., University of Western Ontario***BRUNETTE, KATHRYN****Intensive English Language Program***B.S., Western Washington University  
M.A.-TESOL, Portland State University***BURTON, GILA****Justice Involved Solutions***M.S., University of Washington***CALAVITTA, JOHN PAUL****College Transfer****CAMPBELL, ANGELA****Counselor****CARLE, CAITLIN M.****English***B.S., University of Missouri  
M.A., Western Washington University***CASTLETON, BARBARA****Intensive English Language Program***B.S., University of Oregon  
M.A.-TESOL, The Ohio University***CLAPPER, KIRK (DOUG)****Automotive Technology***Northshore Vocation School  
ASE Certification***COLLINS, DOUGLAS****ESL***B.A., University of Florida  
M.A., University of Washington***COATES-WHITE, STEPHEN J.****Counseling***B.A., Whitman College  
M.Ed., Seattle University*

**CUSHNIE, LARRY**  
**Political Science**

*M.A., University of Washington*  
*M.A., International Institute*  
*Ph.D., University of Washington*

**DAANE, ABIGAIL**  
**Physics**

*M.S., Clemson University*  
*Ph.D., Seattle Pacific University*

**DARIN, JOHN**  
**Hospitality Programs****DE LEON, SHEILA**  
**ESL**

*B.A., University of Washington*  
*M. Ed-TESOL, Seattle University*

**DI FRANCO, JORDAN**  
**Chemistry****DILLON, DEANN**  
**College Transfer****DORMAN, RYAN**  
**Math**

*B.A., B.S., M.A., University of Washington*

**DOWNES, RICHARD**  
**Math**

*B.S., University of Minnesota*  
*M.S., Oregon State University*  
*M.S., Ph.D., University of Washington*  
*Registered Mechanical Engineer,*  
*State of Washington*

**ENDSLEY, STEPHANIE**  
**Chemistry**

*B.A., Gustavus Adolphus College*  
*M.S., University of Washington*

**ENGEL, ALBERT**  
**Engineering**

*B.S., Vanderbilt University*  
*M.S., Stanford University*

**EYRE, MEI'LANI**  
**Library**

*B.S.E.E.*  
*M.S. Applied Physics*  
*Ph.D. Education, Professional Studies*

**FUJIMOTO, AKEMI**  
**ESL**

*B.A., English, Soka University, Japan*  
*M.I.T., School for International Training*

**GANDHAM, RAVI**  
**Computer Science**

*B.S., Nagarjuna University, India*  
*M.S., University of Georgia*

**GARCIA, JOSEPH E.**  
**Justice Involved Solutions**

*M.A., Occidental College*

**GORLAND, GARY**  
**ESL**

*B.A., Michigan State University*  
*M.Ed. University of Washington*

**GROLLMUS, DENISE**  
**Communication**

*B. A., Oberlin College*  
*M.F.A., Pennsylvania State University*  
*Ph.D., University of Washington*

**GUERICKE, DAPHNE**  
**ESL**

*B.A., University of Goettingen, Germany*  
*M.A., University of Hamburg, Germany*  
*M.A., University of Colorado - Boulder*

**HANKINSON, STEPHANIE**  
**English**

*B.A., University of California, Davis*  
*M.A., California State University, Sacramento*  
*Ph.D., University of Washington*

**HARNESS, JANE**  
**High School 21+/GED®/College Prep**

*B.A., M.A., Seattle University*

**HARRIS, CHRISTOPHER**  
**Pastry & Specialty Baking**

*Professional Technical Teaching Certificate,*  
*Western Culinary Institute*

**HATFIELD, DAVID**  
**Hospitality & Service Operations**

**HIRSHBERG, WENDI**  
**Home & Family Life**  
*B.A., Washington State University*

**HOLDEN, KRISTA**  
**Counselor**

**HUNTLEY, REBECCA**  
**Home & Family Life**  
*B.A., Washington State University*  
*M.A., University of Denver*

**INGELS, DANIELLE**  
**Workforce Education**

**ISHII, JONATHAN**  
**Justice Involved Solutions**  
*B.A., Seattle University*

**JACOBS, BELLAMY**  
**Library****JHINGRAN, NANYA**  
**College Transfer**

**JOINER, ANNE**  
**Intensive English Language Program**  
*B.A., University of Washington*  
*M.A., TESOL, Eastern Michigan University*

**JOHNSON, KENNETH**  
**Welding****JUN, MOONKU**  
**Hospitality Programs****KIKUCHI, PAUL**  
**Music**

*B.A., Bennington College*  
*M.F.A., California Institute of the Arts*

**KILGORE, TERYN**  
**Auto Mechanic****KING, SHANNON**  
**Intensive English Language Program**

*B.A., University of Kansas*  
*M.A.-TESOL, Seattle University*

**KINGSTON, LAURA**  
**English**

*B.A., Pacific Lutheran University*  
*M.A., Western Washington University*

**KORSUNSKY, ALEXANDER**  
**College Transfer****KRULL, DAVID**  
**B.A.S., Hospitality Management**

*B.A., University of Washington*  
*J.D., Seattle University School of Law*

**KUWADA, KALI**  
**Psychology**

*B.A., Western Washington University*  
*M.A., Antioch University*  
*M.A., University of Washington*  
*Ph.D., Antioch University*

**LARSEN, GWENDOLYN (ASTRID)**  
**Psychology**

*B.A., Montana State University*  
*M.A., Antioch University*

**LOEBE, DAVID**  
**ESL**

*B.A., University of Washington*  
*M.Ed.-TESOL, University of Georgia*

**LOPEZ, DAVID**  
**HISTORY**

**LOPEZ, LETICIA (TISH)**  
**English**  
*A.A., Ventura Community College*  
*B.A., Claremont McKenna College*  
*M.A., University of Washington*

**LYSAKER, KRISTIN**  
**ESL**

*B.A., University of Wisconsin*  
*M.Ed., Seattle University*

**MADISON, DEREK**  
**Mathematics**  
*M.A., University of Washington*

**MAGNUS, NATALIE**  
**College Transfer**

**MATSUO, AMIKO****Art**

B.A., University of California, Los Angeles  
M.F.A., Kansas State University

**MCCALL, SCOTT****College Transfer****MCARTHUR, SANDY****Mathematics**

B.A., University of Puget Sound  
M.A., University of Washington

**MCCARTHY, REBECCA****Academic Programs**

B.F.A., Cornish College of the Arts  
M.L.S., Rollins College  
Ph.D., Florida Atlantic University

**MCDONOUGH, JILL****ESL / High School 21+ / GED® / College Prep.**

B.A., Western Washington University  
TESOL Certificate, Western Washington University  
M.Ed., Seattle University

**MCKNIGHT, KELLY****English**

B.A., University of Texas at Austin  
M.Ed., Western Washington University

**MILLER, TINA****ESL**

B.A., Wheaton College, Illinois  
TESOL Certificate, California State University

**MUJAHID, HARIS****Accounting**

M.B.A., Franklin University

**MURCIA, RUBEN****Biology**

B.S., Universidad de Montemorelos  
M.S., San Diego State University

**MURPHY, MARK****WORKFORCE INSTRUCTION****NACHMAN, JON****High School 21+ / GED® / College Prep**

B.A., University of Michigan  
M.A., University of Washington

**NAYLOR, PATRICIA****Library**

M.L.I.S., University of Washington

**OLSON, HENRY****Microbiology**

B.S., The University of British Columbia  
Ph.D., University of Washington

**OOSTMAN, STEPHANIE****Welding Fabrication****PETERSON, CURTIS****Career Link**

B.S., Minnesota State University Moorhead  
M. Ed., University of Washington

**PETERSON, RICHARD****Workforce Education****PIKUL, JESSICA****Chemistry**

B.A., Reed College  
Ph.D., University of Washington  
Graduate Certificate in Environmental Management

**POST, FRANK****Math**

B.A., M.Ed., University of Washington

**QUININE, DONTÉ****Communication**

B.A., Oregon State University  
M.A., Gonzaga University

**ROMANESCHI, TERESA****Short-Term Training Program, Intensive English Language Program, Pivot Point**

B.A., University of Washington  
TESOL Certificate, Seattle Pacific University  
M. Ed., University of Washington

**RUPIK, DOUGLAS****Professional Technical****SAENZ, ADELA****Short-Term Training Program**

B.A., Western Washington University  
M.A., University of Phoenix

**SAUER, MARTIN****Mathematics**

B.A., M.B.A., Washington State University

**SCHER, KARL****Intensive English Language Program**

B.A., Western Washington University  
M.Ed., Seattle University

**SCHOENE, ELIZABETH****Physics**

B.S., Harvey Mudd College  
Ph.D., University of Oregon

**SILAS, BARBARA****ESL**

B.A., University of Oregon  
M.A., TESOL, Seattle University

**SIMMONS, NATALIE****Mathematics**

B.S., Washington State University  
M.A., Antioch University

**SKAMSER, SARAH****Landscape and Horticulture**

B.S., Michigan State University  
State of Washington Landscaper Certificate & Nursery Certificate  
Professional Technical Teaching Certificate

**SPENCE, DREW****Justice Involved Solutions****SPIZZIRRI, LEO****Math**

B.S., University of Washington  
M.A., University of California, Santa Cruz

**STOFER, ANNETTE****ESL/Intensive****English Language Program**

B.A., Iowa State University  
K-12 Certification, University of Iowa  
Advanced TESOL Certification, Seattle University

**STRONGMAN, ELIZABETH****Short-Term Training Program**

B.A., M.Ed., Seattle Pacific University

**TALBOT, PAIGE****English**

B.A., Lewis & Clark College  
M.A., University of Colorado

**THOMPSON, MICHAEL****History & Literature**

B.A., M.A., Ph.D., Washington State University

**TOUTONGHI, JOHN****Math**

B.S., Seattle University  
M.A., University of Washington

**TRAN, ASHA****Spanish**

B.A., Earlham College  
M.A., University of Washington

**VEGA, AMANDA****Anatomy & Physiology**

B.S., University of Mount Union  
M.S., Ph.D., University of Wisconsin

**VU, BAXI****ESL**

B.S., M.A., Seattle University

**WACHER, ABIGAIL****Math**

B.S., Simon Fraser University  
M.S., University of British Columbia  
Ph.D., Oxford University

**WARD, MOLLY****Career Link**

B.A., Washington State University  
M.A., University of Washington

**WHITHAM, KATHREN**

**English & Humanities**

*B.A., M.A., Western Washington University*

**WILLIS-OGUNTUWASE, YVONNE**

**Counseling**

*A.A., Seattle Central Community College*

*B.A., University of Washington*

*M.A., Seattle University*

**WINELAND, WENDY**

**Career Link**

**WOOD, TIMOTHY**

**Career Link**

**YEDLIN, REBECCA**

**High School 21+ / GED® / College Prep**

*B.A., Evergreen State College*

*M.S., Capella University Online Learning*

**ZOU, JIAN**

**Math**

*B.S., Wuhan University of Industry, China*

*M.S., Ph.D., University of Toronto*

# ACADEMIC CALENDAR

## Summer Quarter 2023

Classes begin Mon, June 26  
Independence Day Holiday Tues, July 4  
Quarter ends Fri, Aug 18

## Fall Quarter 2023

Classes begin Tues, Sept 26  
Veterans Day holiday Fri, Nov 10  
Thanksgiving holidays Thu–Fri, Nov 23–24  
Quarter ends Fri, Dec 15

## Winter Quarter 2024

Classes begin Tues, Jan 2  
Dr. Martin Luther King Jr. holiday Mon, Jan 15  
Presidents Day holiday Mon, Feb 19  
Quarter ends Wed, Mar 20

## Spring Quarter 2024

Classes begin Mon, Apr 1  
Memorial Day holiday Mon, May 27  
Quarter ends Fri, June 14

Calendar subject to change; please verify dates with the colleges.



## SeattleCollegesAlerts

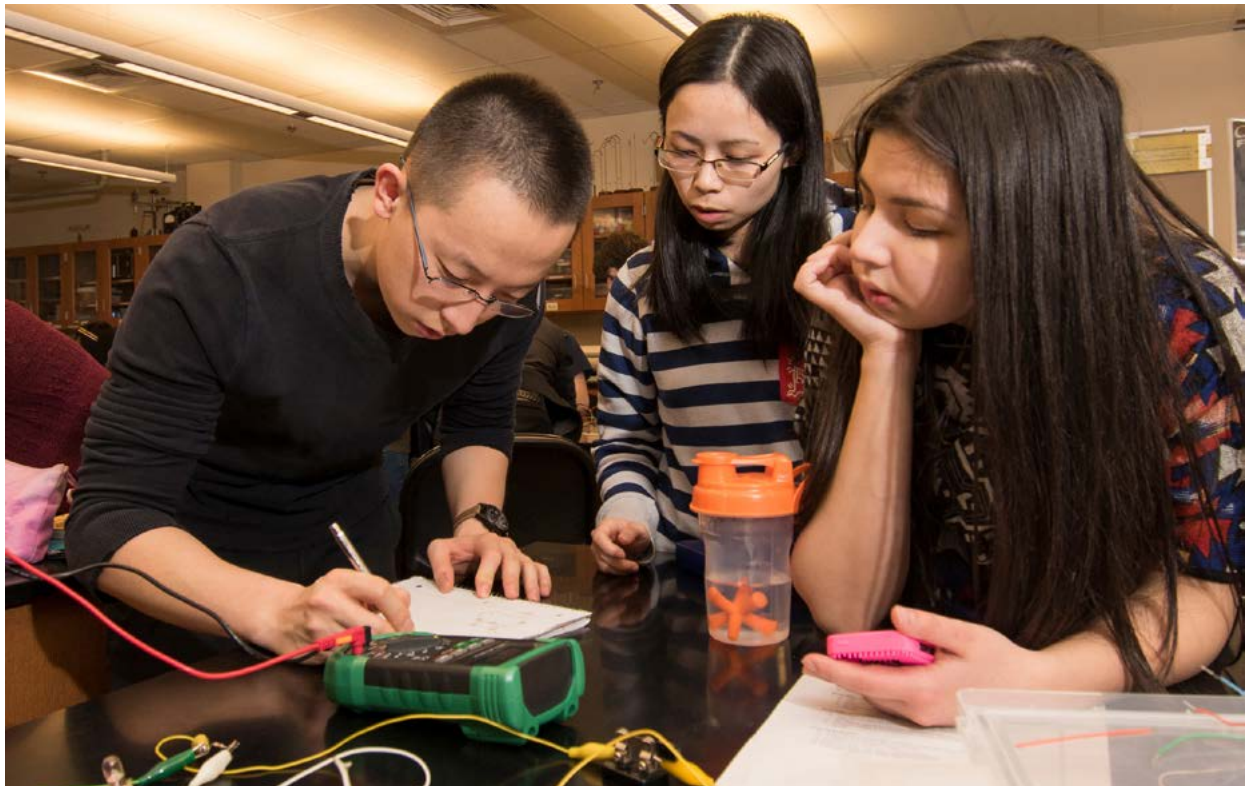
Students are encouraged to sign up to receive emergency text messages to cell phones and personal emails through SeattleCollegesAlerts. The SeattleCollegesAlerts system will make a best effort to send messages if there is an emergency that causes the campus to close unexpectedly or if there is an incident that may pose a safety concern for the community. For more information or to sign up, go to the link on your campus website or at [www.seattlecolleges.edu](http://www.seattlecolleges.edu) or send an email to [alerts@seattlecolleges.edu](mailto:alerts@seattlecolleges.edu).

## EMERGENCY CLOSURES

Closures of classes or offices due to weather or other emergencies will be relayed to major radio and television stations and posted on the website of the Public Schools Emergency Communications System at

<http://flashalert.net/>  
(Select colleges & universities,  
then select your college)

Every effort is also made to provide information on main campus phone lines and websites.







**SEATTLE COLLEGES**

*North · Central · South*

**Seattle College District VI**

District Administrative Office

1500 Harvard Avenue

Seattle, WA 98122-3803

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