

2025-2027 CATALOG



SEATTLE COLLEGES
North • Central • South

Seattle College District

Siegal Administrative Center
1500 Harvard Avenue
Seattle, Washington 98122
206.934.4100

seattlecolleges.edu

Seattle Central College

1701 Broadway
Seattle, Washington 98122
206.934.3800

seattlecentral.edu

North Seattle College

9600 College Way N
Seattle, Washington 98103
206.934.3600

northseattle.edu

South Seattle College

6000 16th Avenue SW
Seattle, Washington 98106
206.934.5300

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

Board of Trustees

Teresita Batayola, Louise Chernin, Colleen Echohawk, Rosa Peralta, Brian Surratt

Chancellor

Rosie Rimando-Chareunsap



This catalog is published for information purposes and is designed to assist prospective students in program planning. Every effort is made to ensure accuracy at the time of publication; however, the catalog is not an irrevocable contract between the student and Seattle Colleges. The colleges reserve the option to amend, modify, or revise any content or provisions of this catalog without notice, because of changes in policies, personnel, curricula, or funding. For the most current information, go to seattlecolleges.edu/academics/academic-catalog.

Published Fall 2025

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 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
 Design – C
 Digital Art and Photography – N, S
 Drama – 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
 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, C
 Kinesiology, Sports and Exercise Science – S
 Math – N, C, S
 Physics – N, C
 Physics and Astronomy – S
 Sustainable Building Science Technology – S



Skilled Trades and Technical Training

Airport Ground Support Equipment – S
 Automotive Technology – S
 Aviation Maintenance 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

Table of Contents

About Seattle Colleges	3
Mission, Vision, and Values	3
Accreditation	3
Annual Profile	3
The Washington State Board for Community and Technical Colleges (SBCTC)	4
Land and Labor Acknowledgement	4
Campuses and Centers	5
e-Learning	7
Information Technology Services	7
International Programs	8
Seattle Colleges Foundation	9
SCCtv	10
Seattle Promise	11
Degrees and Training	12
Bachelor's Degrees	12
Tuition Rates Upper Division Courses	14
Career and Technical Education	15
Certificate Programs	16
College Transfer Overview	17
College Transfer – North Seattle College	25
College Transfer – Seattle Central College	31
College Transfer – South Seattle College	34
Continuing Education	39
Corporate and Customized Training	40
High School Programs: College Concurrent Programs	41
High School Programs: College Preparation Programs	42
Pre-college and ESL	43
Enrollment and Funding	45
1. Apply	45
2. Plan Your Funding	46
3. Placement for Classes	51
4. Registration	51
5. Pay and Prepare	52
Tuition Rates Lower Division Courses	53
Graduation Requirements and Academic Recognition	55
Grading & Transcripts	56
Student Conduct, Rights, and Responsibilities	58
North Seattle College	64
Overview & Campus Profile	64
Student Services	65
Campus Life	70
Learning Outcomes	73

Areas of Study	74
Arts, Design, and Graphics	74
Business and Accounting	75
Education and Human Services	85
Health and Medical	90
Science, Technology, Engineering, and Math	94
Skilled Trades and Technical Training	103
Social Sciences, Humanities, and Language	113

Seattle Central College	116
Overview & Campus Profile	116
Student Services	118
Campus Life	125
Learning Outcomes	128
Areas of Study	130
Arts, Design, and Graphics	130
Business and Accounting	133
Culinary, Hospitality, and Wine	135
Education and Human Services	137
Health and Medical	141
Science, Technology, Engineering, and Math	150
Skilled Trades and Technical Training	160
Social Sciences, Humanities, and Language	163

South Seattle College	166
Overview & Campus Profile	166
Student Services	168
Campus Life	174
Learning Outcomes	176
Areas of Study	177
Arts, Design, and Graphics	177
Business and Accounting	178
Culinary, Hospitality, and Wine	179
Health and Medical	186
Science, Technology, Engineering, and Math	187
Skilled Trades and Technical Training	190
Social Sciences, Humanities, and Language	201

Combined Campus Course Descriptions

Common Course Numbering	202
Course/Prefix & Prefix/Course Indices	203
Combined Course Descriptions	204

Faculty & Administration	321
District Office	321
Seattle Central College	323
North Seattle College	328
South Seattle College	333

Academic Calendar

Summer 2025–Spring 2026	inside back cover

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

Accreditation of an institution of higher education by the Northwest Commission on Colleges and Universities 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 which has available the necessary resources to achieve its stated purposes through appropriate educational 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 Northwest Commission on Colleges and Universities 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 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 the Northwest Commission on Colleges and Universities should be directed to the administrative staff of the institution. Individuals may also contact the commission.

Northwest Commission on Colleges and Universities
8060 165th Avenue NE, Suite 100, Redmond, WA 98052
(425) 558-4224 • www.nwccu.org

2023–2024* Annual Profiles

Annual Attendance 32,800

SPECIAL ENROLLMENTS 2023–2024

(Unduplicated headcount across the district)

Distance Education/eLearning	15,956
Running Start	1,886
International Students	1,306
Worker Retraining	1,131

DEGREES & CERTIFICATES 2023–2024

Annual Awarded	4,108

EMPLOYEES 2023–2024

Total	1,993
Teaching Faculty	1,080
full-time/part-time	312/673
Non-teaching Faculty	15
Classified	547
Exempt	446

Students

Average Age	31
Ethnic Diversity	46%
Male/Female	42%/47%
With Bachelor or Higher Degrees	5%
Full-time/Part-time Attendance	37%/63%

Programs

College Transfer	30%
Career and Technical	30%
Basic Education	13%
Other	31%

Course Funding Sources

State-funded	75%
Contract-supported	17%
Student-supported	8%

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

* Source: Seattle College District database

The Washington State Board for Community and Technical Colleges (SBCTC)

The Washington State Community College system was established by the Community College Act of 1967. The Washington State Board for Community and Technical Colleges (SBCTC) directs Washington state's system of 34 public community and technical colleges, including North Seattle College, Seattle Central College, and South Seattle College. Along with administering the Community and Technical College Act, the SBCTC offers member colleges statewide leadership and general direction, coordination, and advocacy.

Additionally, the SBCTC provides information technology and data services to its 34 member colleges, including:

- **The Online Admissions Application Portal (OAAP)** for Washington State Community and Technical Colleges (apply.ctc.edu)
- **ctcLink**, a centralized data system that offers students, faculty, and staff anytime, anywhere access to manage their college business (seattlecolleges.edu/ctclink)

ctcLink allows users to:

- Register for classes
- View transcripts and academic records from SBCTC member colleges
- Manage student finances and pay tuition
- Access financial aid information and accept financial aid
- Manage profile and contact information

The SBCTC also coordinates the development of educational and workforce training opportunities, along with the Workforce Training and Education Coordinating Board.

For more information, visit www.sbctc.edu.



**COMMUNITY AND
TECHNICAL COLLEGES**
Washington State Board

Land and Labor Acknowledgement

Today we recognize and honor the original people and stewards of the lands and waters where we now gather—lands and waters that are the traditional home of Coast Salish people, the ancestral home of the Suquamish, Tulalip, and Muckleshoot nations, and the treaty area of the Muckleshoot and Suquamish. We strive to uphold our government-to-government relationship mandated in the treaties signed by their ancestors.

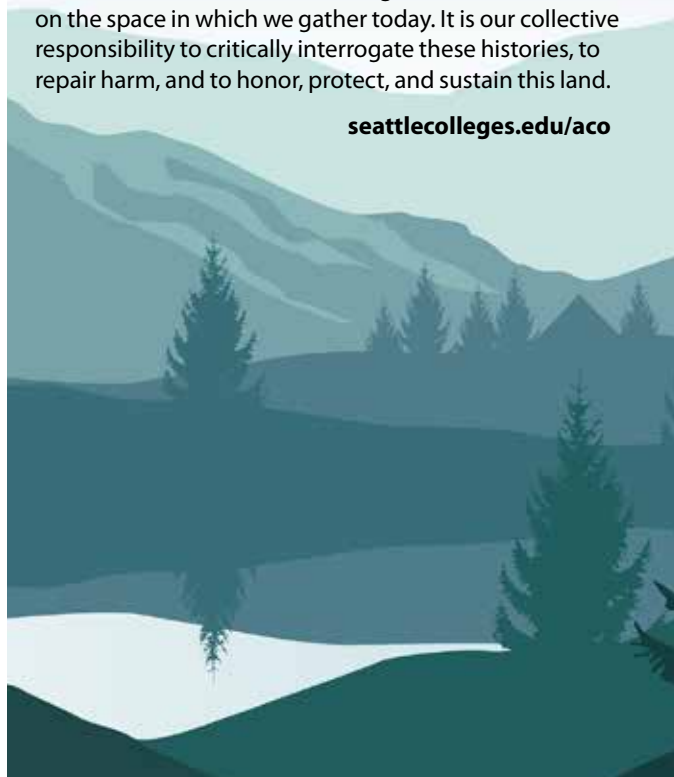
Today, we honor the survival, the adaptations, the forced assimilation, and the resilience and creativity of Native peoples—past, present, and future. We encourage you to consider their responsibilities to the people and land, both here and elsewhere, and to stand in solidarity with Native, Indigenous,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



Campuses and Centers

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

The district office is located at Siegal Center, one block south of Seattle Central's Broadway Edison Building in Seattle's Capitol Hill neighborhood. 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 Access, Community, and Opportunity (ACO); Advancement/Foundation; the Chancellor's Office; Finance and Operations; Human Resources; Information Technology; Public Relations and Strategic Initiatives; Strategic Enrollment Management; and Workforce Education—have offices here that serve the entire district.

Seattle Central College

1701 Broadway
Seattle, WA 98122
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. In addition to its main campus on Capitol Hill, Seattle Central administers three specialty training centers.



Health Education Center at Pacific Tower

1200 12th Avenue S
Seattle, WA 98144

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

Administered by 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

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 116.

North Seattle College

**9600 College Way North
Seattle, WA 98103
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 64.



South Seattle College

**6000 16th Avenue SW
Seattle, WA 98106
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**

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**

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 166.

e-Learning/Distance Learning

District eLearning: seattlecolleges.edu/programs/elearning
North Seattle College: northseattle.edu/programs/elearning
Seattle Central College: seattlecentral.edu/programs/elearning
South Seattle College: southseattle.edu/programs/elearning

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 AA degree at their own pace.

eLearning courses are designed for students who cannot or do not want to come to campus because of their work schedules, family needs, or because they prefer the online or hybrid structure of learning. eLearning students can control their own schedules by working with the course materials at their convenience within the framework of the

course syllabus. However, the courses are not self-paced; classes begin and end on the same schedule as regular campus classes. Depending on the instructor, there are also regular assignments, and exams are due on specific days. Online learning requires you to have good time management and communication skills, as well as being comfortable around technology.

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.

Information Technology (IT) Services

IT Services provides Seattle Colleges with IT equipment and software and provides support to students, faculty, and staff. In-person lab computers, remote computer access, printing, and WiFi are available for Seattle Colleges enrolled students at all campuses and satellite locations.

Computer Labs

itservices.seattlecolleges.edu/computer-labs-wifi

For all labs and locations, the URL above provides current information on hours, availability, and contact information, as well as links to the Help Desk, documentation and more.

IT Help Desk

itservices.seattlecolleges.edu/it-help-desk
ticket request: helpdesk.seattlecolleges.edu
email: ithelp@seattlecolleges.edu

Need tech help? Reach out to our Help Desk for troubleshooting and support.

Enrolled students, as well as employees and staff, may opt to submit ticket requests or seek in-person help at one of the on-campus Help Desks.

Currently enrolled students may use chat, email, or phone options listed for each location.

For problems related to your MySeattleColleges account, be prepared to show picture ID and provide ctcLink ID number.

Remote Access to Computers

Currently enrolled students can remote login to computer labs from off-campus and access specialty software computer labs and a subset of open lab/general use computers. Visit the following links for remote access to lab computers and the software that is installed on them:

remoteaccess.labstats.com/seattle-north
remoteaccess.labstats.com/seattle-central
remoteaccess.labstats.com/seattle-south



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 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. 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 information, visit our dedicated website at intl.seattlecolleges.edu.

Specific questions from prospective international students can be directed to IntlFutureStudent@seattlecolleges.edu.

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

North Seattle College: IntlNorth@seattlecolleges.edu

Seattle Central College: IntlCentral@seattlecolleges.edu

South Seattle College: IntlSouth@seattlecolleges.edu



Admission Guidelines

- First-time inquiries should complete our online form at intl.seattlecolleges.edu/request/information. All other inquiries from prospective students, including applicants and admitted students, should contact IntlFutureStudent@seattlecolleges.edu.
- Applicants must demonstrate that they have the means to pay international student tuition rates and other necessary expenses to meet visa requirements.
- Applicants must be at least 16 years of age and have completed 9th 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 visit our website: 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.

For detailed information go to intl.seattlecolleges.edu/study-abroad

For questions regarding Global Engagement please contact 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.

Seattle Colleges Foundation

(206) 934-2939

advancement@seattlecolleges.edu
foundation.seattlecolleges.edu

Seattle Colleges' Office of Advancement **supports the mission, work, and impact of North, Central and South Seattle Colleges**, working closely with college leaders, instructors and staff to identify priorities and pursue promising philanthropic opportunities. Resources raised are stewarded by the Seattle Colleges Foundation, a 501(c)(3) nonprofit organization governed by a board of distinguished community and business leaders.

In early 2025, the Advancement team and the Foundation concluded a **\$50 million fundraising campaign**—the largest in the colleges' history. Proceeds are supporting student scholarships and services, innovative new study programs, and enhancements to backbone programs like

financial aid administration. As a new campaign is readied, the Advancement Team is concertedly raising added dollars for student supports and partnering with the colleges' workforce development leaders to prepare instructors and students for an AI-inflected future.

The Advancement team and Foundation are driven by values of service to the Seattle Colleges' community; transparency and prudence in the management of money; access and opportunity for all whom the colleges serve; and integrity and ethics in our fundraising and communications.

By reinforcing the mission and impact of Seattle Colleges, the Office of Advancement and the Seattle Colleges Foundation are **making higher education accessible and transformative** for all in our city, no matter background, income, or life story. Join in the work at seattlecolleges.edu/foundation.



Some of the 276 Seattle Colleges students who received Foundation scholarships and graduated in 2025.



Seattle Colleges Cable Television (SCCtv)

(206) 934-3966
seattlecolleges.tv

Seattle Colleges Cable Television, SCCtv, offers high-quality educational and community programming, video production and live-stream services. Emmy-award-winning SCCtv creates unique original programming, as well as high-quality video, for Seattle Colleges and non-college clients.

SCCtv broadcasts to Seattle residents on Comcast Channel 28 and Wave Channel 19, and simulcast streams to the world

via at seattlecolleges.tv. Broadcast programming features academic programs throughout the Seattle Colleges along with other educational content. Programming information is available on the website.

In January 2021 SCCtv launched a new education channel, Knowledge Northwest (KNW), broadcasting original educational content created by SCCtv and education partners, like the University of Washington. KNW can be seen throughout Seattle and King County on Comcast Channel 77 and Wave Ch 23, and live simulcast streams at seattlecolleges.tv.



Seattle Promise

seattlecolleges.edu/promise

Seattle Promise is 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. 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 fees, books, course supplies, etc. to those with financial need.

“ I will remember my Seattle Promise mentor. He paved the way to where I am today in my academic journey. ”
 – Aniyah G.

The program also provides personal support and guidance from 12th grade through associate degree completion to ensure student success, as well as priority access to ORCA transit cards, Path to UW advisors and programming and other transfer pathways, paid internships through the Seattle Youth Employment Program, mentoring through Project Baldwin, WSOS scholarship funds, and more.

Seattle Promise—an example of Seattle Colleges’ civic and educational partnerships—has been recognized by *The Seattle Times* as a flagship program leading the way for other promise programs in the region.



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

This program prepares graduates with the knowledge and skills required for employment in the field of accounting. The degree builds on an associate in 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).

“I'll remember how life changing the teachers, faculty, and staff have been. They inspired me to do more than I ever thought possible, and encouraged me the whole way. They convinced me I had potential, and could change the world.”

– Rayne R.

Application Development at North

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

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

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

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

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 at North

northseattle.edu/programs/bas-early-childhood-education

This program provides professional training for early care and education professionals, allowing them to keep pace with the increasing professionalization of the field. The anti-racist, anti-bias curriculum aligns with accreditation standards established by the National Association for the Education of Young Children and the Council for Accreditation of Educator Preparation. There are virtual, online and Spanish language options.

Hospitality Management at South

southseattle.edu/programs/bas/hospitality-management

This program focuses on applied management training in the hospitality industry. Students learn a broad set of competencies to prepare them for leadership positions in marketing, sales, event management, human resources, finance, accounting, and operations. The global hospitality industry includes tourism, hotel operations, airlines, 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.

International Business at North

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.

Residential and Commercial Property Management at North

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

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

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.

“I'll remember the great professors I had during my journey.”

– Aaron L.

Bachelor of Applied Science in Teacher Education – Academy for Rising Educators (BAS-TE-ARE) at Central

The Bachelor of Applied Science in Teacher Education program prepares graduates to become culturally responsive elementary school teachers in Washington State. This program emphasizes relationship-based, student-centered pedagogy and equips future educators to engage in critical community discourse.

Designed primarily for graduates of the Academy for Rising Educators' unique AAS-T/AADTA dual degree, the BAS-TE-ARE curriculum provides comprehensive training in key areas essential for future educators. Curriculum Planning & Instruction focuses on developing effective lesson plans and instructional strategies to engage students. Teaching with Technology emphasizes the integration of digital tools to enhance learning experiences and adapt to modern classrooms. Language & Culture in Education explores diverse linguistic and cultural backgrounds, equipping educators to support all learners effectively. Finally, Assessment & Evaluation prepares educators to implement meaningful assessments that measure student progress and success in K-12 settings.

Graduates of this program will be well-prepared to enter the teaching profession with the skills, knowledge, and cultural awareness needed to make a meaningful impact in their communities.

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 2025–Summer 2026 Tuition Rates for BAS (Upper Division) Courses

CREDITS	BAS RESIDENT	BAS NON-RESIDENT	NON-RESIDENT INTERNATIONAL
1	\$ 255.94	\$ 274.92	\$ 718.88
2	511.88	549.84	437.76
3	767.82	824.76	2,156.64
4	1,023.76	1,099.68	2,875.52
5	1,279.70	1,374.60	3,594.40
6	1,535.64	1,649.52	4,313.28
7	1,791.58	1,924.44	5,032.16
8	2,047.52	2,199.36	5,751.04
9	2,303.46	2,474.28	6,469.92
10	2,559.40	2,749.20	7,188.80
11	2,572.69	2,763.50	7,203.10
12	2,585.98	2,777.80	7,217.40
13	2,599.27	2,792.10	7,231.70
14	2,612.56	2,806.40	7,246.00
15	2,625.85	2,820.70	7,260.30
16	2,639.14	2,835.00	7,274.60
17	2,652.43	2,849.30	7,288.90
18	2,665.72	2,863.60	7,303.20
19	2,908.09	3,105.97	8,008.51
20	3,150.46	3,348.34	8,713.82
21	3,392.83	3,590.71	9,419.13
22	3,635.20	3,833.08	10,124.44
23	3,877.57	4,075.45	10,829.75
24	4,119.94	4,317.82	11,535.06
25	4,362.31	4,560.19	12,240.37

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

“I came in with hopes, but also a lot of doubts. Along the way, I found mentors who believed in me, classmates who became like family, and projects that helped me reconnect with my roots and community. I laughed, cried, and stayed up late—through it all, I learned what I’m truly capable of. That journey will always stay with me.”

– Safiyo A.

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 Academic Programs website at seattlecolleges.edu/programs.

Short-term Certificates

seattlecolleges.edu/shortcertificates

These 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.

Career and Technical Degrees and Certificates

Short-Term Certificates

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

Associate in Applied Science Degree and One-Year Certificates

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

Associate in Applied Science - Transfer 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 Degree

Compared with traditional bachelor's degrees, our BAS 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 (prior learning) is a term used to describe learning gained outside of 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.

Associate in Applied Science (AAS) Degree

The AAS degree prepares students for employment through development of technical and related skills. To earn an AAS 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. 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 AAS programs and some courses in AAS degree programs may transfer to four-year colleges or universities. Consult a program advisor or transfer institution concerning course transferability prior to enrollment.

Associate in Applied Science–Transfer (AAS-T) Degree

The AAS-T degree is designed to serve as the first two years of an applied bachelor's degree. Select partner institutions also accept AAS-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 AAS-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 AAS-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 AAS-T degree.

Bachelor of Applied Science (BAS) Degree and Bachelor of Science (BS) Degree

See page 12.

Certificate Programs

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 AAS 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 AAS-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 AAS 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.

“Anyone who keeps learning stays young. The beautiful thing about learning is that no one can take it away from you. Have the courage to follow your heart and intuition.”

– Selenge B.

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.

Transfer Degrees Summary

C-Central N-North S-South
DTA – Direct Transfer Agreement

Associate in Arts (AA-DTA) C,N,S
Two-year degree designed to transfer to a four-year college or university.

Associate in Business (AB) C,N,S
Two-year degree designed to transfer to a four-year college or university.

Associate in Computer Science (CSC-DTA/MRP) C,N,S
Two-year degree designed to transfer to computer science baccalaureate programs in Washington.

Associate in Nursing (DTA/MRP) C
Two-year degree designed to prepare a student for licensure as a registered nurse through Washington State community and technical colleges, as well as for entry into a Bachelor of Science in Nursing completion degree.

Associate in Science – Transfer (AS-T) C,N,S
Two-year degree designed to transfer to a four-year college or university in two major areas of science.
Track 1 Biological sciences, environmental/resource sciences, chemistry, geology, and earth sciences
Track 2 Engineering, physics, and atmospheric science

Associate in Science – Transfer Track 2, Engineering MRP (AS-T 2/MRP)
Two-year degree designed to transfer to participating Washington state Engineering programs in the following pathways:
■ BioEngineering and Chemical Engineering N
■ Computer and Electrical Engineering N,S
■ Civil and Mechanical Engineering, N,S

Associate in Fine Arts (AFA) N
Two-year degree designed to transfer to a four-year college or university.

Students planning to transfer to a specific college or university should work with a transfer advisor and request information from the baccalaureate institution(s) they want to attend.

- Associate in Arts (AA-DTA)
- Associate in Business (AB-DTA/MRP)
- Associate in Computer Science (CSC-DTA/MRP)
- Associate in Nursing (DTA/MRP)
- Associate in Science – Transfer (AS-T), Track 1
- Associate in Science – Transfer (AS-T), Track 2
- Associate in Science – Transfer Bioengineering and Chemical Engineering Track 2/MRP
- Associate in Science – Transfer Computer and Electrical Engineering Track 2/MRP
- Associate in Science – Transfer Civil and Mechanical Engineering Track 2/MRP
- Associate in Fine Arts (AFA)

Associate in Arts (AA-DTA)

The Associate in Arts (AA) – Direct Transfer Agreement (DTA) degree is a 90-credit transfer degree that fulfills the general education requirements for most four-year degrees in the arts, humanities and social sciences. To earn the AA 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.

AA Degree Learning Outcomes

The Seattle Colleges AA 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 (AB-DTA)

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 in Computer Science (CSC-DTA/MRP)

The Associate in Computer Science is a Direct Transfer Agreement designed to satisfy lower division general education and computer science requirements at Washington's four-year colleges and universities. 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.

Associate in Nursing (DTA/MRP)

The Associate in Nursing DTA/MRP degree prepares students for the challenging career of being a registered nurse. The program is approved by the Washington State Nursing Care Quality Assurance Commission and is nationally accredited by the Accreditation Commission for Education in Nursing.

Associate in Science–Transfer (AS-T)

The Associate in Science (AS-T) 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. Track 1: Biological sciences, environmental/resources sciences, chemistry, geology, and earth sciences
2. Track 2: Engineering, computer science, physics, and atmospheric science

Students should contact an advisor for specific program requirements.

Associate in Science–Transfer Track 2, Engineering MRP (AS-T 2/MRP)

The Associate in Science Track 2 Engineering is a Major Related Program degree that prepares students for engineering majors in one of the following pathways:

- BioEngineering and Chemical Engineering (includes Biomass Resources Science & Engineering)
- Computer and Electrical Engineering
- Civil and Mechanical Engineering (includes Environmental, Aeronautical and Industrial Engineering)

Associate in Fine Arts (AFA)

North Seattle College offers an Associate in Fine Arts degree designed for students pursuing visual arts. With successful completion of the AFA degree, students will build a strong, dynamic, portfolio, prepare for further education in the visual arts, and be equipped to enter the creative economy.

See North, page 29.

College Transfer AA Degree Requirements

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

Special Requirements included within the 90-credit total

Within the 90 credits required for the AA 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,, &131**, &132**, 136†, &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 &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
- Transfer accounting, business, and 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 AA 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*, 105, 106,, 111*, 112*, 113*, 114*, 115*, 121*, 122*, 123*, 124*, 170, 171, 190, 191, 201*, 202*, 203*, 204*, 210*, 211*, 212*, 213*, 214*, 215*, 216*, 221*, 222*, 223*, 240*, 251, 252, 253, 254, 255, 256, 280*, 281*, 282*, 283*, 284*, 285*, 290,

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

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

Communication: CMST &101, &102, 205, &210, 211, &220, &230, 240, 245, 295

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

English: ENGL 104,, &111, &112, &113, &114, 115, 116, 120, 125, 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 &101, 105, 110, 115, 120, 121, 125, 130, 135, 140, 145, 150, 155, 160, 200, 210, 215 234, 261, 270

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

Journalism: JRN 101, 102, 103

Linguistics: LAN 101, 110

Literature: LIT 234, 236, 238

Music: MUSC &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*, 154*, 156*, 157*, 158*, 160, 161, 163, 164*, 165*, 166*, 171*, 172*, 173*, 182*, 185, 186, 204, 205, 213, 221*, 222*, 223*, &231, &232, &233

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

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, 158, 160, 200, 201

Anthropology: ANTH &100, &106, 130, 135, 190, 201, &206, &210, 211, 212, 213, &216, &227, &228, 250, 270, 275, 297

American Sign Language: ASL 120, 125

Biology: BIOL 150

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

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

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

History: HIST 105, 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, 268, 269, 273, 281

Humanities: HUM &101, 105, 112, 121, 170, 201, 215, 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, 109, 120, &200, 205, 207, 209, 210, 217, &220, 225, 230, 235, 241, 245, 250, 255, 257, 260, 294

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

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*, 125*, 201

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

Botany: BOT 112*, 113*

Chemistry: CHEM &110*, 117*, &121*, &122*, &131*, &139, &161*, &162*, &163*, 191*, 192*, 211*, &241, &242, &243, &251*, &252*, 255, 256, &261, &262, &263

Environmental Science: ENVS &100, &101*, 120, 160, 170, 199, 201, 202*, 203, 204*, 205, 206*, 208, 216*, 221

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

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

Meteorology: MEY 100

Nutrition: NUTR &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 111, 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, &114, 142, &214, &215, &224, &225, 240, 271

Math: All MATH college transfer courses number 102 and above. Technical math courses NOT usable for transfer purposes.

Philosophy: PHIL, &120

Psychology: PSYC 222

Total Credits Required for Associate in 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 in arts degree, associate in 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 AA, AB, AS, or AS-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 202.

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 AA or AS degree should make sure they have also met the admission requirements for the transfer institution. Completion of the AA 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

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
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.

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 in Arts and Associate in 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
- University of Puget Sound
- Walla Walla University
- WGU Washington
- Whitworth University

Tribal Colleges and Universities

- Northwest Indian College

ASSOCIATE IN SCIENCE – TRANSFER (AS-T) DEGREES AS-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 IN SCIENCE – TRANSFER (AS-T) DEGREES**AS-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

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

Community and Technical Colleges

- Bellevue College
- North Seattle College

**ASSOCIATE IN SCIENCE – TRANSFER TRACK 2
ENGINEERING AS-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

NURSING RN-BSN 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

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

- Eastern Washington University: BS in Technology, Applied Technology Option

College Transfer – North Seattle College

Academic Programs

(206) 934-3658
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 in Arts (AA-DTA) and Associate in Science (AS-T) degrees, North also offers an Associate in Business (AB-DTA/MRP) degree, an Associate in Computer Science (CSC-DTA/MRP) and an Associate in Fine Arts (AFA) degree in Art. For detailed information on the AA-DTA degree, see page 17.

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 AA, AFA, AB, AS or CSC degree must meet minimum standards of preparation. Those whose records and placement results 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 in Arts (AA-DTA)

Direct Transfer Agreement

This 90-credit transfer degree fulfills the general education requirements for most four-year degrees in arts, humanities and social sciences. To earn the AA-DTA 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 Seattle Colleges (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 17 for college transfer course requirements for AA-DTA degree.

First Year Experience course requirement at North: HDC 101 2 credits of electives. Some students may qualify for an exemption. To see if you qualify, please contact your advisor or retention specialist. If not taking HDC 101, substitute with two credits of electives.

“What I’ll remember most are awesome experiences and caring professors.”
– Mark Y.

Associate in Arts: Science Focus (AA-DTA)

The Associate in Arts: Science Focus is a direct transfer agreement degree that can prepare students for many science majors. 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.

AA-DTA: Science 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 one of the Seattle Colleges awarding the degree.

BASIC REQUIREMENTS - ENGLISH

ENGL& 101	English Composition I	5
ENGL& 102	Composition II	5
	Communication Skills	10
	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

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; 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.	
Natural World 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 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 three different prefixes and include a two-quarter sequence of courses; 10 credits must be in a lab science.

Associate in Science–Transfer (AS-T)

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

AS 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 one of the Seattle Colleges awarding the degree.

Two different study options are offered:

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

Course requirements and GPA admission requirements vary from one transfer university to another.

Associate in Science–Transfer (AS-T) Track 1

The Associate in Science degree: Track 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

MATH& 151	Calculus I	5
MATH& 152	Calculus II	5
Choose one of the following		
Math& 163	Calculus III	5
Math& 146	Introduction to Statistics	5
Math 211	Elements of Statistical Methods	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.	

Visual, Literary and Performing Arts or Individuals, Cultures and Societies	5

MAJOR PREPARATION – CHEMISTRY SEQUENCE

CHEM& 161	General Chemistry I with lab	6
CHEM& 162	General Chemistry II with lab	6
CHEM& 163	General Chemistry III with lab	6

LABORATORY SEQUENCE

Choose one of the following sequences required for your major:

BIOL& 211, 212, 213 or

PHYS& 114, 115, 116 or

PHYS& 221, 222, 223

ADDITIONAL MAJOR PREP

22

Remaining credits may include prerequisites for the major, additional major course work or other general education or university requirements as approved by an advisor. Courses include Biology, Chemistry, Environmental Science, Geology or Earth Science. ENGL& 102 is recommended.

Associate in Science–Transfer (AS-T) Track 2

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

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

BASIC REQUIREMENTS – MATHEMATICS

MATH& 151	Calculus I	5
MATH& 152	Calculus II	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.	
Visual, Literary and Performing Arts or Individuals, Cultures and Societies	5

MAJOR PREPARATION

CHEM& 161	General Chemistry I with lab 6 or other science recommended by advisor	
Physics sequence – choose one series		
PHYS& 114, 115, 116		15
PHYS& 221, 222, 223		15
Additional Calculus or Statistics: Choose one of the following		
Math& 163	Calculus III	5
Math& 146	Introduction to Statistics	5
Math 211	Elements of Statistical Methods	5

ADDITIONAL MAJOR PREP 35

Remaining credits may include prerequisites for the major, additional major course work or other general education or university requirements as approved by an advisor. Courses may be in Engineering, Computer Science, or related disciplines.

Associate in Science–Transfer Track 2, Engineering MRP (AS-T 2/MRP)

This degree prepares students to transfer to Engineering majors at universities in Washington in three different pathways:

- BioEngineering and Chemical Engineering
- Civil and Mechanical Engineering
- Computer and Electrical Engineering

Each pathway includes specific pre-major coursework, requires 90 or more college-level credits with a 2.0 GPA and 15 credits in residence at the college.

BioEngineering and Chemical Engineering AS-T 2/MRP

BASIC REQUIREMENTS – ENGLISH

ENGL& 101	English Composition I	5

BASIC REQUIREMENTS – MATHEMATICS

MATH& 151	Calculus I	5
MATH& 152	Calculus II	5
MATH& 163	Calculus III	5
MATH 238	Differential Equations	5

AREAS OF KNOWLEDGE DISTRIBUTION REQUIREMENTS

See advisor for list of approved courses.

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

An ECON course is recommended. 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.

Visual, Literary and Performing Arts or Individuals, Cultures and Societies	5

MAJOR PREPARATION 46-49

PHYS& 221, 222, 223	15
CHEM& 161, 162, 163	18
CHEM& 241	4
CHEM& 251	4
CHEM& 242 and 252 OR BIOL& 211	5-8

ADDITIONAL MAJOR PREPARATION 1-18

Select 3 courses based on major requirements. Courses may include computer programming, engineering, linear algebra, vector calculus, majors-level biology, biochemistry, organic chemistry or technical writing.

Required elective: ENGR 110 or HDC 101. Some students may qualify for an exemption. To see if you qualify, please contact your advisor or retention specialist. If not taking ENGR 110 or HDC 101, substitute with other electives.

TOTAL CREDITS	90-104

Civil and Mechanical Engineering AS-T 2/MRP

This pathway can also include Aeronautical and Environmental Engineering.

BASIC REQUIREMENTS – ENGLISH

ENGL& 101	English Composition I	5

BASIC REQUIREMENTS – MATHEMATICS

MATH& 151	Calculus I	5
MATH& 152	Calculus II	5
MATH& 163	Calculus III	5
MATH 220	Linear Algebra	5
MATH 238	Differential Equations	5

AREAS OF KNOWLEDGE DISTRIBUTION REQUIREMENTS

See advisor for list of approved courses.

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

An ECON course is recommended. 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.

Visual, Literary and Performing Arts or Individuals, Cultures and Societies	5

MAJOR PREPARATION 42 CREDITS

PHYS& 221, 222, 223	15
CHEM& 161, 162	12
ENGR& 214 Statics	5
ENGR& 215 Dynamics	5
ENGR& 225 Mechanics of Materials	5

ADDITIONAL MAJOR PREPARATION**11-24**

Select 4 courses based on major requirements. May include computer programming, engineering, vector calculus, biology, chemistry or technical writing.

Recommended: ENGR 240 5

MATH 224 recommended for Mechanical Engineering majors

Required elective: ENGR 110 or HDC 101. Some students may qualify for an exemption. To see if you qualify, please contact your advisor or retention specialist. If not taking ENGR 110 or HDC 101, substitute with other electives.

TOTAL CREDITS 98-111

Computer or Electrical Engineering AS-T 2/MRP

BASIC REQUIREMENTS – ENGLISH

ENGL& 101 English Composition I 5

BASIC REQUIREMENTS – MATHEMATICS

MATH& 151 Calculus I 5

MATH& 152 Calculus II 5

MATH& 163 Calculus III 5

MATH 220 Linear Algebra 5

MATH 238 Differential Equations 5

AREAS OF KNOWLEDGE DISTRIBUTION REQUIREMENTS

See advisor for list of approved courses.

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

An ECON course is recommended 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.

Visual, Literary and Performing Arts or Individuals,

Cultures and Societies 5

MAJOR REQUIREMENTS**31**

PHYS& 221, 222, 223 15

CHEM& 161 General Chemistry I 6

ENGR& 204 Circuits 5

CSC 142 Computer Programming I 5

ADDITIONAL MAJOR PREPARATION**15-29**

Select five courses based on major requirements for intended university. May include computer programming, engineering, vector calculus, biology, chemistry or technical writing.

Recommended: CSC 143 Computer Programming II 5

Required elective: ENGR 110 or HDC 101. Some students may qualify for an exemption. To see if you qualify, please contact your advisor or retention specialist. If not taking ENGR 110 or HDC 101, substitute with other electives.

TOTAL CREDITS 91 - 105

Associate in Business (AB-DTA/MRP)

Direct Transfer Agreement

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.

AB 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 one of the Seattle Colleges 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

AREAS OF KNOWLEDGE DISTRIBUTION REQUIREMENTS

Choose from a minimum of two different prefixes with no more than 10 credits in a discipline area.

Visual, Literary, and Performing Arts 15

Individual, Cultures, and Societies 15

ECON& 201 Micro Economics 5

ECON& 202 Macro Economics 5

Non-ECON course 5

The Natural World 15

MATH& 148 Business Calculus 5

Following can be substituted:

MATH&151 Calculus I 5

Physical, Biological, and/or Earth Sciences	10
Note: Must include at least one 5-credit laboratory course	
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
General Elective	5
U.S. Cultures: One course required, take as part of basic, distribution and elective requirements	
TOTAL PROGRAM CREDITS	90

Associate In Computer Science (CSC-DTA/MRP)

The Associate in Computer Science is a Direct Transfer Agreement designed to satisfy lower division general education and computer science requirements at Washington's four-year colleges and universities. Degree requirements include satisfactory completion of at least 95 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.

GENERAL EDUCATION COURSES

ENGL& 101 English Composition I	5
Choose one based on transfer institution.	
ENGL& 102 English Composition II	5
ENGL& 235 Technical Writing	5
CMST& 220 Public Speaking	5
Composition	10
MATH& 151 Calculus I	5
Quantitative/Symbolic Reasoning	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; 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.	
Natural World	15
2 lab sciences for science or engineering majors	10
Math& 152 or additional lab science	5

MAJOR REQUIREMENTS

Computer Programming 1 and 2	10-15
CSC 110* introduction to Computer Programming	5
CSC 142 Computer Programming I	5
CSC 143 Computer Programming II	5
*Or equivalent prerequisite	

UNIVERSITY SPECIFIC REQUIREMENTS AND ELECTIVES 20-35 CREDITS

Select courses required for your intended major/university with your advisor.

ENGR 110 OR HDC 101* Required.	2
Other course options include ENGL& 235, MATH, PHYS&. Some students may qualify for an exemption. To see if you qualify, please contact your advisor or retention specialist. If not taking ENGR 110 or HDC 101, substitute with two credits of electives.	

Associate in Fine Arts in Art (AFA)

Arts, Humanities and Social Sciences

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

North Seattle College's Art Program provides a solid foundation in studio art, coupled with an emphasis on a range of techniques and materials not generally offered in community colleges. The wide array of affordable courses includes ceramics, drawing, computer art, 2-D and 3-D design, metal design, printmaking, painting, jewelry-making, and sculpture — as well as art history. The North Seattle College Art Gallery showcases celebrated artists of regional and international renown. The exhibition schedule, visiting artist lecture series and cross disciplinary programming bring contemporary art and critical thought from a diversity of artists right to your classroom. The gallery attracts visitors from the campus and larger community and offers work-study positions for real-world training in art handling and exhibition design. Art instructors are successful working artists, respected in their fields and serving as both role models and mentors. NSC art studios are well-equipped and updated.

Enrollment in North's art program requires no prior experience in art. All classes are transferable and fulfill general education requirements for an Associate in Arts degree or a specialized Associate in Fine Arts (AFA) degree, a 45 credit Certificate in Fine Art (CFA), or 50 credit Certificate of Jewelry Design (CJD).

Candidates for the Associate in Fine Arts degree must complete a minimum of 90 college level credits (numbered 100 and above) with a cumulative grade point average (GPA) of 2.0 or higher. Students must submit a digital portfolio with documentation of 15-20 pieces made during their time at North. Portfolios are completed during ART 290 - Art Business.

Associate in Fine Arts (AFA) in Art**REQUIRED COURSES****45**

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	5
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 290	The Art Business.....	5

GENERAL EDUCATION COURSES**20**

Individuals, Cultures & Societies	5
The Natural World	5
Computation Course	5
Select 5 credits from notated courses below:	
MATH& 107 (or above), BUS 124, ACCT 110 (or above) or PHIL& 120	5
ENGL& 101 English Composition I	5

STUDIO ART ELECTIVES**25**

Students must take at least 5 credits from group I (2D studio) and at least 5 credits from group II (3D studio) and complete a third level (3 quarter sequence) of at least one medium.

ART ELECTIVES GROUP 1: 2-DIMENSIONAL ART

ART 106	Color Theory	5
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 216	Motion Graphics + Animation Art	5
ART 240	Book Arts	5

GROUP 1 - 2-DIMENSIONAL ART**MINIMUM 5****ART ELECTIVES GROUP 2: 3-DIMENSIONAL ART**

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 280	Metal Object Design: Form and Function	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

GROUP 2 - 3-DIMENSIONAL ART**MINIMUM 5****TOTAL PROGRAM CREDITS****MINIMUM 90 + PORTFOLIO**

College Transfer – Seattle Central College

Transfer Academic Programs (206) 934-5469

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 in Arts or Associate in 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 AA or AS 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 AA degree curriculum.

See page 25 for more information on AA and AS degree requirements.

Associate in Arts (AA-DTA) Direct Transfer Agreement

This 90-credit transfer degree fulfills the general education requirements for most four-year degrees in arts, humanities and social sciences. To earn the AA-DTA 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.

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 in Arts (AA), Associate in Science (AS), or Associate in Business (AB-DTA/MRP) 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 AA and AAS-T. No additional credits are required for the dual degree or emphasis. See Advising for more information.

Emphasis in Equity and Social Justice

The Equity and Social Justice emphasis can be completed with either the AA or AS 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 AA or AS 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 AA or AS 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 AA 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 in Arts (AA-DTA) and Associate in Applied Science (AAS-T) in Allied Health or Education 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 Elementary Education Bachelor of Applied Science (BAS)

Associate in Science–Transfer (AS-T)

The Associate in Science (AS-T) is designed to transfer to a four-year college or university in the state of Washington. AS 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.

Contact an advisor for more information on this program.

Associate in Business (AB-DTA/MRP)

The Associate in Business (AB-DTA/MRP) 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 AB 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.

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

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

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

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

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

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.

MATH& 146	Introduction to Statistics	5

Following can be substituted:

BUS 210 – Bus & Econ Statistic (5)

Credits from this class applied toward the 15 credits required for Natural World

Visual, Literary, and Performing Arts	15

Minimum of two different subjects.

Individual, Cultures, and Societies	5
Select course with a non-ECON prefix from the list from approved courses.	
The Natural World	5
Minimum of two different subjects.	
Natural World – Lab Science	5
Minimum of two different subjects.	

ELECTIVES

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 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, Math, and Business (STEM-B) Division**

The Associate in 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 in Science (AS) 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
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



College Transfer – South Seattle College

SOUTH

34

College Transfer

College Transfer Programs

(206) 934-6600

www.southseattle.edu/programs/college-transfer

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

Students are encouraged to attain an Associate in Arts or Associate in 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 25 for college transfer course requirements for AA or AS degree.

Associate in Arts (AA) Direct Transfer Agreement

The Associate in Arts (AA) 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 AA 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
BASIC REQUIREMENTS CREDITS		15

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
QUANTITATIVE/SYMBOLIC REASONING CREDITS		5

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)

ELECTIVES PROGRAM CREDITS 30

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 in Business (AB-DTA/MRP)

The Associate in Business (AB-DTA/MRP) 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 AB 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 in Science – Transfer (AS-T)

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

AS-T 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 (Track 1)
2. Engineering, physics, and atmospheric science. (Track 2)

Course requirements and GPA admission requirements vary from one transfer university to another.

Associate in Science—Track 1 (AS-T 1)

The Associate in Science degree: Track 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

MATH& 151	Calculus I	5
MATH& 152	Calculus II	5
Choose one of the following		
Math& 163	Calculus III	5
Math& 146	Introduction to Statistics	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.	
Visual, Literary and Performing Arts or Individuals, Cultures and Societies	5

MAJOR PREPARATION – CHEMISTRY SEQUENCE

CHEM& 161	General Chemistry I with lab
CHEM& 162	General Chemistry II with lab
CHEM& 163	General Chemistry III with lab

LABORATORY SEQUENCE

Choose one of the following sequences required for your major

BIOL& 211, 212, 213	OR
PHYS& 114, 115, 116	OR
PHYS& 221, 222, 223	

ADDITIONAL MAJOR PREP – 22 CREDITS

Remaining credits may include prerequisites for the major, additional major course work or other general education or university requirements as approved by an advisor. Courses include Biology, Chemistry, Environmental Science, Geology. ENGL& 102 is recommended.

Associate in Science—Track 2 (AS-T 2)

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

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

BASIC REQUIREMENTS – MATHEMATICS

MATH& 151	Calculus I	5
MATH& 152	Calculus II	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.	
Visual, Literary and Performing Arts or Individuals, Cultures and Societies	5

MAJOR PREPARATION

CHEM&161 General Chemistry I with lab or other science recommended by advisor

Physics sequence – choose one series

PHYS& 114, 115, 116	15
PHYS& 221, 222, 223	15

ADDITIONAL CALCULUS OR STATISTICS

Choose one of the following

Math& 163	Calculus III	5
Math& 146	Introduction to Statistics	5

ADDITIONAL MAJOR PREP – 35 CREDITS

Remaining credits may include prerequisites for the major, additional major course work or other general education or university requirements as approved by an advisor. Courses may be in Engineering, Computer Science, or related disciplines.

Associate in Science–Transfer Track 2, Engineering MRP (AS-T 2/MRP)

This degree prepares students to transfer to Engineering majors at universities in Washington in two different pathways:

- Civil and Mechanical Engineering
- Computer and Electrical Engineering

Each pathway includes specific pre-major coursework, requires 90 or more college-level credits with a 2.0 GPA and 15 credits in residence at the college.

Civil and Mechanical Engineering AS-T 2/MRP

This pathway can also include Aeronautical and Environmental Engineering

BASIC REQUIREMENTS – ENGLISH

ENGL& 101 English Composition I 5

BASIC REQUIREMENTS – MATHEMATICS

MATH& 151 Calculus I 5

MATH& 152 Calculus II 5

MATH& 163 Calculus III 5

MATH 220 Linear Algebra 5

MATH 238 Differential Equations 5

AREAS OF KNOWLEDGE DISTRIBUTION REQUIREMENTS

See advisor for list of approved courses

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

An ECON course is recommended 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.

Visual, Literary and Performing Arts or Individuals,

Cultures and Societies 5

MAJOR PREPARATION 42

PHYS& 221, 222, 223 15

CHEM& 161, 162 12

ENGR& 214 Statics 5

ENGR& 215 Dynamics 5

ENGR& 225 Mechanics of Materials 5

ADDITIONAL MAJOR PREPARATION 11-24

Select 4 courses based on major requirements. May include computer programming, engineering, vector calculus, biology, chemistry or technical writing

Recommended: ENGR 240 (5)

MATH 224 recommended for Mechanical Engineering majors

TOTAL CREDITS 98-111

Computer or Electrical Engineering AS-T 2/MRP

BASIC REQUIREMENTS – ENGLISH

ENGL& 101 English Composition I 5

BASIC REQUIREMENTS – MATHEMATICS

MATH& 151 Calculus I 5

MATH& 152 Calculus II 5

MATH& 163 Calculus III 5

MATH 220 Linear Algebra 5

MATH 238 Differential Equations 5

AREAS OF KNOWLEDGE DISTRIBUTION REQUIREMENTS

See advisor for list of approved courses

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

An ECON course is recommended 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.

Visual, Literary and Performing Arts or Individuals,

Cultures and Societies 5

MAJOR REQUIREMENTS 31

PHYS& 221, 222, 223 15

CHEM& 161 General Chemistry I 6

ENGR& 204 Circuits 5

CSC 142 Computer Programming I 5

ADDITIONAL MAJOR PREPARATION 15-29

Select 5 courses based on major requirements for intended university. May include computer programming, engineering, vector calculus, biology, chemistry or technical writing

Recommended: CSC 143 Computer Programming II (5)

TOTAL CREDITS 91 - 105



Associate In Computer Science (CSC-DTA/MRP)

The Associate in Computer Science is a Direct Transfer Agreement designed to satisfy lower division general education and computer science requirements at Washington's four-year colleges and universities. Degree requirements include Degree requirements include satisfactory completion of at least 95 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.

GENERAL EDUCATION COURSES

ENGL& 101	English Composition I	5
Choose one based on transfer institution		
ENGL& 102	English Composition II.....	5
ENGL& 235	Technical Writing.....	5
CMST& 220	Public Speaking	5
Composition	.....	10
MATH& 151	Calculus I	5
Quantitative/Symbolic Reasoning	.....	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; 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.	
Natural World	15
2 lab sciences for science or engineering majors	10
Math& 152 or additional lab science	5

MAJOR REQUIREMENTS

Computer Programming 1 and 2	10-15
CSC 110* introduction to Computer Programming	5
CSC 142 Computer Programming I	5
CSC 143 Computer Programming II	5

*Or equivalent prerequisite

UNIVERSITY SPECIFIC REQUIREMENTS AND ELECTIVES 20-35 CREDITS

Select courses required for your intended major/university with your advisor.



Continuing Education

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

- Personal enrichment
- Professional development
- 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

North Seattle College: (206) 934-3705 learnatnorth.org

South Seattle College: (206) 934-5339 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 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 by:

- Providing relevant training to upskill workforces and give companies a competitive advantage.
- Offering 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.

**Mike Nielsen, Executive Director
of Corporate and Continuing Education**
(206) 934-5856

mike.nielsen@seattlecolleges.edu

**Liz Strongman, Associate Director,
Seattle Colleges Corporate & Customized Training**
(206) 934-6853

liz.strongman@seattlecolleges.edu



High School Programs: College Concurrent Programs

Running Start

Central (206) 934-3836
seattlecentral.edu/running-start

North (206) 934-7768
northseattle.edu/running-start

South (206) 934 - 6478
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.



“I’m grateful to have had a second chance to rebuild my relationship with education. The teachers in my program not only helped me, but they understood the challenges I faced getting my high school diploma. I was home schooled all of my life, was limited to opportunities, and told I didn’t deserve an education. Do not let people convince you to lower your abilities of what you can do.”

– Olivia S.

High School Programs: College Preparation Programs

Learning Center Seattle – Central

206-934-4301

Learningcenter@seattlecolleges.edu /

seattlecentral.edu/programs/basic-and-transitional-studies/learning-center-seattle

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, 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 until they earn their associate degree (AA)/college certificate or until they age out of the program. Eligible students will also receive many wraparound services such as support with college readiness, job readiness trainings, career exploration, IEP/504 support, paid internships, 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.

Career Link High School – South

(206) 934-6475

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.

“I will remember the joy and dedication my instructors had in class as well as the students who, like me, believed in the power of second chances.”

– Gloria L.

TRIO Educational Talent Search – South

(206) 934-5871

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

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

seattlecentral.edu/programs/basic-and-transitional-studies

North Seattle College

Basic & Transitional Studies

(206) 934-4720

BTS@seattlecolleges.edu

northseattle.edu/basic-and-transitional-studies/

South Seattle College

Basic & Transitional Studies

(206) 934-5363

southseattle.edu/basic-transitional-studies



I will remember:

- The dedication and care that I received from staff and instructors.
- Attaining my goals with ease and finding pride in myself.
- Getting the encouragement to continue my education and learning to believe that I have access to life changing opportunities.

– Thorn J.

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 8.

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 8.

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

North (206) 934-6030

northseattle.edu/basic-and-transitional-studies/i-best

South (206) 934-5363

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.

“ I discovered that school isn't just about classes and assignments—it's about trusting yourself, embracing mistakes as part of the process, and being open to new opportunities. Through the diverse perspectives of instructors and fellow students, I grew more confident and learned the value of shared experiences. ”

– Sinit H..

Enrollment and Funding

Five Steps to Enrolling

1. **Apply**
2. **Plan your Funding**
3. **Placement for Courses**
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 earned a GED; 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;

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 courses. Individuals admitted into such courses 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.

Underage 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 on each college's website.

New Student Admission

To apply, students complete and submit an online admissions application. The online application is available at seattlecolleges.edu by clicking on Get Started, Apply Today.

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

- **North:** northseattle.edu/enroll-now
- **Central:** seattlecentral.edu/getstarted
- **South:** southseattle.edu/steps-enroll

For assistance with the online application, students may visit the college they want to attend for help (North, Central, or South).

Students who maintain continuous enrollment at a college do not need to re-apply for admission each term. Continuously enrolled students will receive returning student enrollment appointments for each upcoming term.

Transfer Student Admission

New transfer students will complete and submit an online admissions application to the college they want to attend (North, Central, or South).

Students who have earned credits at another college that they would like applied towards their certificate or degree requirements must submit an official transcript to the college of their choice (North, Central, or South). Official transcripts will be evaluated upon written request. A transfer credit evaluation form is available in the Registrar's Office at each campus and online.

Note: For some programs, high school transcripts may be required. Check with the 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 Seattle Colleges campuses without paying more than the maximum tuition at any one college. However, additional course or college fees may be incurred at the college.

Note: Financial aid recipients may receive aid through only one college. Students must contact the Financial Aid Office at their home college four weeks prior to the beginning of the quarter if they 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 three 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 who are 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 49 for more information.

Residency Requirements

A student's initial residency for tuition purposes is determined by the student's responses to the citizenship and residency questions on the admissions application. Non-resident students pay a higher tuition rate than resident students do. Some visa and immigration statuses are eligible for resident tuition rates with proper documentation.

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.

Any current non-resident student who wishes to be recourseified as a resident student must complete the residency recourseification process by the 30th calendar day of the quarter. The process includes completing a Residence Questionnaire and providing supporting documentation. Residency courseification is determined at the individual college and does not roll-over.

Detailed information is available online at seattlecolleges.edu/getting-started/residency. Contact the Registration Office at the college of choice for more information.

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, Permanent Residents, or eligible non-citizens to be eligible for the waiver. The waiver charges a tuition rate very close to resident tuition. There is no one-year wait requirement. Once students have met the one-year domicile requirement and are in compliance with Washington State laws to establish permanent in-state residency, they may submit a Residence Questionnaire with supporting documentation to be reviewed for residency recourseification 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 their "non-resident" status.

International Student Admission

See page 8 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, or 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, and other financial concerns.

North

northseattle.edu/financial-aid

FinancialAid.North@seattlecolleges.edu

(206) 934-3688

Central

seattlecentral.edu/finaid

FinancialAid.Central@seattlecolleges.edu

(206) 934-3844

South

southseattle.edu/financial-aid

financialsouth@seattlecolleges.edu

(206) 934-5317

Determination of Financial Aid and 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 Student Aid Index (SAI) 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 (student financial aid budget) is in the Conditions of Award 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 SAI is calculated.

Types of Financial Aid Available

Three basic kinds of federal and state 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 College Grant (WCG), 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 for eligible students. 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 meet 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 (U.S. citizens or eligible noncitizens)
 - Washington Application for State Financial Aid (WASFA) – <https://wsac.wa.gov/wasfa> (undocumented Washington state residents or DACA recipients)
- Submit all required supplemental documentation as requested by the college. 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. Find out more and access an interactive questionnaire at: <https://wsac.wa.gov/WASFAelig>
- 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. To view the institution's contract with BankMobile and FAQ visit 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 and 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 works with 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) courses 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 eligible students assistance with tuition, fees, books, supplies, and other educational expenses every quarter through Workforce Education programs. Interested students can see if they prequalify for Opportunity Grants, Worker Retraining, Basic Food Employment and Training, and WorkFirst funds by visiting Start Next Quarter at startnextquarter.org. 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

North

northseattle.edu/workforce-education
nworkforce@seattlecolleges.edu
 (206) 934-3787

Central

seattlecentral.edu/enrollment-and-funding/financial-aid-and-funding/workforce-services
WorkforceServices@seattlecolleges.edu
 (206) 934-3854

South

southseattle.edu/programs/workforce-education
workforcesouth@seattlecolleges.edu
 (206) 934-5835

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. The scholarship provides up to 45 credits in tuition and fees and \$1,000 for books and supplies per academic year.

Eligibility for the Opportunity Grant (must meet all of the following)

- Washington State resident
- No prior college degree from the United States (Associate or higher)
- Enroll in an approved pathway of program
- 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 demonstrate financial need as determined by the Financial Aid Office

***Program varies by college. For detailed information, students may visit the Workforce Funding website of each college.*

Worker Retraining Program

The Worker Retraining program provides funding for laid off, unemployed, and dislocated workers who need training in order to return to the workforce. The emphasis is on retraining and rapid re-employment. Training options include career training programs (certificates and AAS degrees), GED, high school completion, and ESL courses. If a student qualifies, they may receive assistance with tuition, books and supplies, educational planning and advising, and support with CAT/TB application and TAA paperwork.

Worker Retraining Expanded Eligibility for Vulnerable Workers

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

- Currently employed in an occupation that is “not in demand” according to the demand/decline list for the student’s county. To check the demand/decline lists, go to fortress.wa.gov/esd/employmentdata/reports-publications/occupational-reports/occupations-in-demand.
- Do not have a previous degree or certificate and have completed less than one year of college education (less than 45 college credits).
- Need to learn new skills in order to keep employment.

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 courses to increase their opportunities for employment. If a student qualifies, they may receive funding for tuition, textbooks, and a parking permit or ORCA transit pass if funding is available.

Students may be eligible for the BFET program if they 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. A student’s DSHS case manager will need to approve their program of study. If a student qualifies, they may receive funding for tuition and textbooks.

Students may be eligible for WorkFirst if they are receiving TANF cash assistance and have an electronic referral from their DSHS case manager.

Financial Assistance for Veterans and Military Personnel

Veterans Services Office

North

northseattle.edu/veterans-military-services
NSCCVeterans@seattlecolleges.edu
(206) 934-7309

Central

seattlecentral.edu/campus-life/student-support-and-services/veterans
StudentSupport.central@seattlecolleges.edu
(206) 934-4491

South

southseattle.edu/veteran-affairs-benefits
sccva@seattlecolleges.edu
(206) 934-5811

The Veterans Services Office at each campus provides services to help veterans and eligible dependents receive and maintain Veterans Affairs (VA) educational benefits while in school. These benefits include the Montgomery G.I. Bill®, Post 9/11 G.I. Bill®, Veteran Readiness & Employment (VR&#), Montgomery GI Bill® (MGIB-SR) 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 if eligible, 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 a Certificate of Eligibility letter, DD-21, member4, Joint Services Transcripts (JST) and Community College of the Air Force (CCAF) transcripts and other 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 college 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 within the first quarter of enrollment 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 courses 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.

Seattle Central College offers nursing classes at the three campuses of the Seattle Colleges District: Seattle Central, North Seattle, and South Seattle. Students will have the opportunity to designate a preference of campus when applying to the program. The program admission requirements and the selection process are the same for all campuses.

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/."

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 (100%), is determined by the federal government to be a prisoner of war (POW) or missing in action (MIA), or lost their life from combat or service-related injuries 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 for more information.

“I'm grateful for a team of wonderful, incredible, skilled, experienced, and patient instructors.”
— Paul W.

Department of Defense Tuition Assistance for Active Duty Military

North Seattle College, Seattle Central College, and South Seattle College are approved institutions in the DoD MOU program at 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. After applying and being approved for Tuition Assistance through the Education Center located on Joint Base Lewis-McChord, 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: course, test, examination, laboratory, course 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 course, test, examination, presentation, or other event, the grade may be awarded without makeup.

3. Placement for Courses

Placement assists students and advisors in selecting the right courses for student success and educational planning. Contact the Testing and Assessment Office at your campus or college website for a complete list of placement options, exemptions, current assessments, fees, guidelines, and additional information.

North Testing Center
northseattle.edu/testing
NSCTesting@seattlecolleges.edu
 (206) 934-3674

Central Testing Office
seattlecentral.edu/testing
Testing.Central@seattlecolleges.edu
 (206) 934-6344

South Student Assessment Services
southseattle.edu/placement
studentplacement@seattlecolleges.edu
 (206) 934-6767

Placement Reciprocity

Under the Washington State Placement Reciprocity Agreement, Seattle Colleges will accept English and Math placement scores from other Washington State community and technical colleges to use for comparable class placement at each college.

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 courses. 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 – Advising Center
northseattle.edu/advising
AdvisorNorth@seattlecolleges.edu
 (206) 934-3658

Central – Academic Advising Center
seattlecentral.edu/advising
AdvisorCentral@seattlecolleges.edu
 (206) 934-4068

South – Advising Center
southseattle.edu/advising
AdvisorSouth@seattlecolleges.edu
 (206) 934-5387

Registration

Seattle Colleges requires official enrollment before a student may enter any course. Official enrollment is the process of registering for courses and payment of tuition and fees. Students may register for courses by using campus online services (see below) or completing an enrollment form in person at the Registration Office.

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.

Online Services

Online registration via the college websites is available for students seven days a week. Students can use online services to add and drop courses, view quarterly grades, view unofficial transcripts, look up enrollment appointments, check financial status, or pay for courses 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.

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 course 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 course if the student's name is not on the course roster. Students who are officially enrolled in credit courses must be in attendance or communicate with the instructor no later than the first scheduled course. Students who are absent without prior approval of the instructor or the division/departments 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 course 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 course on the first day; instead, they should officially drop or withdraw. See "Dropping Courses."

Adding Courses

Once the quarter begins, students may add courses through the end of the 10th day of the quarter or the eighth day in Summer Quarter. Instructor permission is required if full and after the designated online registration period ends during the first week of the quarter. Students may add courses 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 courses 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 Courses

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 the Summer Quarter, students may withdraw from a course 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 the 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" grade for the course 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 the Summer Quarter, students may not officially withdraw from a course regardless of academic status.

Students cannot officially drop a course by simply informing the instructor of the withdrawal or by ceasing to attend a course. Students must officially withdraw online or at the Registration Office by the college's withdrawal deadline. A student who does not officially withdraw themselves may be issued a failing grade by the course instructor.

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 online through the school's student information system, 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 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 courses and pay the same day in order to enroll again for the upcoming term.

North - Cashier's Office
nscccashier@seattlecolleges.edu
(206) 934-3627

Central - Cashier's Office
cashier.central@seattlecolleges.edu
(206) 934-4108

South - Cashier's Office
sscccashier@seattlecolleges.edu
(206) 934-5388

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. An enrollment fee is charged per quarter. Students taking Continuing Education courses and international students are not eligible for this option. For further information:

North: northseattle.edu/tuition-rates/nelnet-payment-plans

Central: seattlecentral.edu/enrollment-and-funding/enrollment-and-admissions/tuition-rates/payment-plan

South: southseattle.edu/tuition-and-fees/nelnet-payment-plan

Tuition

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 over 18. Tuition for bachelor's degrees (BAS) and Apprenticeship 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.

North: northseattle.edu/tuition-and-fees

Central: seattlecentral.edu/enrollment-and-funding/enrollment-and-admissions/tuition-rates

South: southseattle.edu/tuition-and-fees

eLearning/Distance Education

For current eLearning/Distance Education tuition and fees, see 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**
- **Course/lab fee** 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.

Fall 2025–Summer 2026 Tuition Rates Lower Division Courses

CREDIT	RESIDENT	NON-RESIDENT WAIVER ELIGIBLE	NON-RESIDENT E-LEARNING	NON-RESIDENT INTERNATIONAL
1	\$ 131.96	\$ 150.94	\$ 150.94	\$ 339.30
2	263.92	301.88	301.88	678.60
3	395.88	452.82	452.82	1,017.90
4	527.84	603.76	603.76	1,357.20
5	659.80	754.70	754.70	1,696.50
6	791.76	905.64	905.64	2,035.80
7	923.72	1,056.58	1,056.58	2,375.10
8	1,055.68	1,207.52	1,207.52	2,714.40
9	1,187.64	1,358.46	1,358.46	3,053.70
10	1,319.60	1,509.40	1,509.40	3,393.00
11	1,384.69	1,575.50	1,575.50	3,466.57
12	1,449.78	1,641.60	1,641.60	3,540.14
13	1,514.87	1,707.70	1,707.70	3,613.71
14	1,579.96	1,773.80	1,773.80	3,687.28
15	1,645.05	1,839.90	1,839.90	3,760.85
16	1,710.14	1,906.00	1,906.00	3,834.42
17	1,775.23	1,972.10	1,972.10	3,907.99
18	1,840.32	2,038.20	2,038.20	3,981.56
19	1,958.71	2,156.59	2,156.59	4,307.29
20	2,077.10	2,274.98	2,274.98	4,633.02
21	2,195.49	2,393.37	2,393.37	4,958.75
22	2,313.88	2,511.76	2,511.76	5,284.48
23	2,432.27	2,630.15	2,630.15	5,610.21
24	2,550.66	2,748.54	2,748.54	5,935.94
25	2,669.05	2,866.93	2,866.93	6,261.67

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

Refunds

General Refunds

Refundable tuition and fees will be refunded if complete or partial withdrawal from courses 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 courses 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 courses 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 course	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 Courses

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

No refunds for cancellations within 48 hours of start of course or after course 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 event 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 into 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:

- Basic and Transitional Studies Waiver
- Washington State Employee Space Available Waiver
- Washington State Higher Education Employees Waiver
- Senior Citizen Space Available Waiver
- Non-Resident Tuition 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 and your campus website.

Waivers for Veterans

Contact the Veterans Affairs Office at each campus.

“ I will remember my teachers and how supportive they were to help me reach my goal to graduate. ”
– Delvan R.

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:

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

GPA is determined by dividing total points earned by total credit hours attempted. Many programs and individual course sequences require a minimum of a 2.0 grade to continue with additional courses or studies. Students should know the specific requirements for their intended courses, program, or college-transfer major. Students should meet with an advisor for assistance.

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.

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 course 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 Courses," page 52).

Y – Ongoing Course Used for a course that is two or more quarters in length. The final grade for the course will be reported in 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 course. 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 course 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 22.

Credit by Examination & Credit by Experiential Learning Portfolio

Colleges may award credit by examination to a student not formally enrolled in a course 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 is 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 may obtain an unofficial transcript at no cost by logging into ctcLink. Students who took courses prior to 2016 should contact the Registration office of the college they attended for assistance.

Official, sealed transcripts (a copy of a student's permanent academic record) are required by other institutions when students transfer. A fee is charged for each official transcript requested. Official transcripts may be ordered online at studentclearinghouse.org or may be requested in writing by contacting the Registration Office of the college where the courses were taken.

Testing Centers no longer have GED® records. Test scores must be requested from the GED® Testing Service directly at gedtesting.com/testers/gedrequest-a-transcript.



Student Conduct, Rights, and Responsibilities

Responsibilities & Right to Know

seattlecolleges.edu/students-rights-and-rules

Student Academic Freedom

As members of the college community, students have the right to learn, ask questions, and express ideas freely and responsibly. Academic freedom supports your ability to think critically, explore different viewpoints, and pursue your educational goals.

Seattle Colleges is committed to providing a learning environment that protects these rights and promotes respectful engagement.

Students have the right to:

- Express ideas freely—including asking questions and participating in discussions on campus and in classrooms.
- Choose educational goals—by selecting from college programs, services, and classes, within college policy and state law (see RCW 28B.50.090(3)(b)).
- Fair grading—based on academic performance, not personal opinion, bias, or unfair treatment.
- A respectful learning environment—that is free from unlawful discrimination, harassment, and inappropriate or disrespectful behavior, including sexual harassment.

These rights come with the shared responsibility to maintain an inclusive, respectful, and open learning environment for all. (For more information, see WAC 132F-121-020.)

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 educational agencies and institutions 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 without student 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.

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 ctcLink, the data system serving Washington's community and technical college system. A student's ctcLink 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 ctcLink 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 information for the campus community. Call 911 for 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/campussafety.

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.

National Institutes of Health provides a list of drugs and their dangers and effects: 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 (PP 282.1). 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," (PP 282.2) as defined in Procedure 282.1.2. 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.

This includes sexual harassment as defined in Procedure 283, Title IX Sexual Harassment. Seattle Colleges recognizes its responsibility to investigate, resolve, implement corrective measures, and monitor the educational environment and workplace to stop, remediate, and prevent discrimination on the basis of sex, as required by Title IX of the Educational Amendments of 1972, Title VII of the Civil Rights Act of 1964, the Violence Against Women Reauthorization Act, and Washington State's Law Against Discrimination, and their implementing regulations.

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.

Smoking

Smoking is prohibited indoors and within 25 feet of the entrance to any public building, per Washington state law. North Seattle College, Seattle Central College, and South Seattle College are tobacco-free campuses. 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.

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.

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.

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 isu-tagga, 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.

“It was very hard for me because I am learning English. The teachers are the best. They helped me and the students did too.”

– *Matiurahman R.*

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/pol387). 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)

Seattle Central College, (206) 934-4183

Accessibility Resource Center (seattlecentral.edu/campus-life/student-support-and-services/disability-support)

South Seattle College and Georgetown, (206) 934-5137

Disability Services (southseattle.edu/disability-services)

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.

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

District Policies Relating to Students

View Seattle College policies at 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

Student Complaint Resolution Process

Our institution is committed to ensuring that every student's concerns are heard and addressed fairly. To maintain transparency and support, we offer multiple avenues for resolving complaints. The process is structured in a series of steps designed to address issues at the college level first, with additional state and accrediting agency options available if necessary. By clearly defining these steps, we aim to empower students to seek resolution and improve our educational environment.

Students have three processes for resolving complaints depending on their location:

1. College Complaint Process

Students are first required to follow the college's Student Complaint Process.

North Seattle College
northseattle.edu/student-life/student-conduct-policy

Seattle Central College
seattlecentral.edu/campus-life/student-support-and-services/student-rights-and-responsibilities/complaint-process

South Seattle College
southseattle.edu/student-resources/student-complaints

2A. State Complaint Process for Students Located in Washington

If, after exhausting all options within the college's Student Complaint Process, students located in Washington who are not satisfied with the resolution of their complaint may file a complaint with the Washington State Board for Community and Technical Colleges (SBCTC). The SBCTC maintains a process to investigate complaints brought by community and technical college students in the state of Washington. For information, contact SBCTC Student Services, PO Box 42495, Olympia, WA 98504-2495, (360) 704-4315 or visit <https://www.sbctc.edu/colleges-staff/programs-services/student-services/resources.aspx#consumer>.

2B. State Complaint Process for Students Located Outside Washington

If, after exhausting all options within the college's Student Complaint Process, online students located outside the state of Washington who are not satisfied with the resolution of their complaint, may be eligible to file a complaint with the Washington Student Achievement Counsel (WSAC) or their state's local NC-SARA Portal Entity.

NC-SARA's Local Portal Entity By State:

North Seattle College
northseattle.edu/programs/elearning

Seattle Central College
seattlecentral.edu/programs/elearning/out-of-state-students/complaint-resolution-by-state

South Seattle College
southseattle.edu/student-resources/complaint-resolution-state

The Washington Student Achievement Council (WSAC) has authority to investigate student complaints against specific schools. WSAC may not be able to investigate every student complaint. For information regarding the WSAC complaint process, visit <https://wsac.wa.gov/student-complaints>.

3. Accrediting Agency Complaint Process

In the unlikely event the college and SBCTC complaint processes do not resolve your issue, you can then contact the college's accreditation agency, The Northwest Commission on Colleges and Universities, which is recognized by the Council for Higher Education Accreditation and the U.S. Department of Education.

NWCCU will only consider a Complaint against one of its member institutions that relates solely to eligibility requirements, standards for accreditation, or policies. NWCCU does not, however, provide dispute resolution or appeal services.

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).

“I'll remember the diversity of students and teachers.”
– Caroline A.

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

Admissions	(206) 934-3663
Financial Aid	(206) 934-3688
Registration	(206) 934-3663
TTY	(206) 934-0079

Facts at a Glance*

2023–2024 ANNUAL PROFILES

Annual Attendance	12,074
Special Enrollments	
Distance Education	6,543
Running Start	670
International Students	368
Worker Retraining	496
Students	
Average Age	34
Ethnic Diversity	38%
Male/Female	32%/55%
With Bachelor or Higher Degrees	3%
Full-time/Part-time Attendance	25%/75%
Programs	
College Transfer	26%
Career and Technical	20%
Basic Education	11%
Other	45%
Course Funding Sources	
State-funded	76%
Contract-supported	14%
Student-supported	11%

* Source: Seattle College District Database

Student Services

AANAPISI

api.north@seattlecolleges.edu
northseattle.edu/AANAPISI

The Asian American Native American Pacific Islander Serving Institution (AANAPISI) is a federally funded program that seeks to increase student success outcomes and create a stronger sense of belonging by implementing culturally responsive, sustaining programming and holistic student support services. While our services are tailored for the AANAPISI communities, we welcome and serve all students.

Division for Access, Community, and Opportunity

(206) 934-3719 | edi.north@seattlecolleges.edu
northseattle.edu/aco

The Division for Access, Community, and Opportunity at North Seattle College strives to improve student satisfaction, retention, completion, and job placement, as well as to narrow student performance gaps in partnership with faculty, staff and students. Our mission is to promote access, community, and opportunity (ACO); to ensure just and equitable policies and practices. It is a moral and social justice imperative. We recognize that ensuring our systems and processes are equitable for our Black, Indigenous, and People of Color (BIPOC) students and employees will take intentional action both immediately and over time. The charge of the Division for Access, Community, and Opportunity at Seattle Colleges is to work collaboratively to help achieve the strategic goals of Seattle Colleges with priority focus on student success and equity, diversity, inclusion, and community as a human right for all.

Accessibility Services

Disability Services
(206) 934-3697 | Fax (206) 934-3958
ds@seattlecolleges.edu
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.

Advising

(206) 934-3658 | advisornorth@seattlecolleges.edu
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
northseattle.edu/career-services
Student and Alum Job Board: seattlecolleges.edu/handshake

Career Services provides students with full-time and part-time job listings, limited job search training, and clarification of career and occupational goals. North Seattle College partners with WorkSource to provide students with more opportunities and resources for employment services for job seekers. 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 (click on Career Tools).

Externships and 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.

“ I will remember the kindness, grace, and flexibility of the teachers I had along the way. ”

– Magdalena G.

Internships

(206) 934-3734

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

northseattle.edu/class-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 at the website above.

Computer Labs

(206) 934-3630

website: itservices.seattlecolleges.edu/computer-labs-wifi
remote access: remoteaccess.labstats.com/seattle-north

The Computer Labs are open to all currently enrolled North Seattle College students and have PC and Apple computers with internet connectivity. A ctcLink ID number with photo ID or a MySeattleColleges account is required for access.

IB3303 is in the Instructional Building, northwest corner, third floor (northseattle.edu/locator) map. This lab features 34 computers with a broad assortment of software available for student use, as well as access to black-and-white and color printing at minimal cost.

CC1353A is in the College Center building, southeast corner, first floor. Ring the bell on the door to the lab for assistance and/or lab access. This lab features 32 computers with a broad assortment of software available for student use, as well as access to black-and-white and color printing at minimal cost.

In addition, there are approximately 60 computers available for use in the North Seattle College Library.

Also refer to the Information Technology (IT) Help Desk.

“I’ll remember having my passion for knowledge rekindled by a community that enables it.”

– Valentin D.

Counseling

(206) 934-3676

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

Refer to Accessibility Services.

Financial Aid

(206) 934-3688 | FinancialAid.North@seattleColleges.edu

northseattle.edu/financial-aid

North Seattle College’s Financial Aid Office works to support racial equity and to increase opportunities for student access to and success in higher education by helping them seek, obtain, and understand all financial resources available to them. The Financial Aid Office provides information on student aid eligibility, types of aid available, and policies and guidelines for federal, state and institutional programs. Financial aid staff can assist you in completing the Free Application for Federal Student Aid (FAFSA) and the Washington Application for State Financial Aid (WASFA) or answer any questions along the way.

Financial aid programs—including grants, loans, scholarships, and work-study—help eligible students cover educational expenses such as tuition, books, and other costs while they are enrolled.

See page 46 for more information about the financial aid process.

Funding Navigation Team

www.seattlecolleges.edu/funding-navigation-team

Get personalized support navigating your college funding options. Funding Navigators are available to help you understand what financial resources you may qualify for and guide you through the application process for financial aid, workforce education grant, scholarships and more. Co-located with the financial aid team on each campus, our team offers one-on-one assistance with FAFSA, WASFA, and other funding applications to help you take the next step toward affording college.

International Programs

(206) 934-3672 | IntlNorth@seattlecolleges.edu
intl.seattlecolleges.edu
intl.seattlecolleges.edu/north

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.

Information Technology (IT) Help Desk

Instruction Building (IB) 3303
(206) 934-3630 | ithelp@seattlecolleges.edu
web: itservices.seattlecolleges.edu/it-help-desk
chat: direct.lc.chat/11900901/3
ticket request: helpdesk.seattlecolleges.edu

Need tech help? Reach out to our Help Desk for troubleshooting and support.

Enrolled students, as well as employees and staff, may opt to submit ticket requests or seek in-person help at one of the on-campus Help Desks.

Currently enrolled students may use chat, email, or phone options listed for each location.

For problems related to **your MySeattleColleges account**, be prepared to show picture ID and provide ctcLink ID number.

Launch Pad: One Stop Student Center

CC 2448A | (206) 934-7664
starthere.north@seattlecolleges.edu
northseattle.edu/launch-pad-one-stop-student-center

The Launch Pad provides comprehensive support for new students and students restarting their academic journey at North Seattle College. Our mission is to ensure that students can identify and access key campus resources for academic, financial, and personal support. Through relationship building, direct referrals, and holistic guidance, we are dedicated to meeting students where they are, fostering a welcoming and inclusive environment that empowers students to achieve their academic and personal goals.

Library Services

Library Circulation (206) 934-3607
Reference (206) 934-3609
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.

Opportunity Center for Employment and Education (OCE&E)

(206) 934-6199
nscocceinfo@seattlecolleges.edu
northseattle.edu/ocee

The Opportunity Center 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 Education financial assistance programs, and other organizations—all conveniently located in one building. Students can learn more about how to access the Opportunity Center and its services through the website (above) or through the Opportunity Center Canvas (online learning management system) community.

Project Baldwin

206.934.6459 | pbscholars@seattlecolleges.edu
northseattle.edu/north-men-color

Project Baldwin is a districtwide mentorship initiative to boost completion and transfer outcomes for underrepresented students, specifically for men of color attending any of Seattle Colleges' campuses. Project Baldwin is a collective of students, staff, and faculty who connect to empower each other by building community and brotherhood bonds.

Project Baldwin works toward these student-centered goals:

- Build relationships and brotherhood bonds
- Develop an educational and professional network
- Encourage and nurture educational and career aspirations
- Create a plan for achieving academic and career goals;
- Increase capacity to handle life's challenges with trauma-informed practices
- Increase self-confidence, mental health awareness, and leadership skills

Running Start Support Team

(206) 934-3682 | nscrrstart@seattlecolleges.edu
northseattle.edu/running-start

Students taking part in Running Start, a dual enrollment program, receive both high school and college credit, accelerating their progress through the education system. Advisors at each college are available to answer questions and help students with degree planning so they stay on track to meet both their high school graduation requirements as well as their college course requirements. For more information about Running Start, refer to page 41.

Seattle Promise Support Team

seattlecolleges.edu/promise/north-support-team

In addition to tuition and financial support, Seattle Promise provides participating students with guidance and assistance in making the transition to college and navigating the college experience. Support teams at each college consist of retention specialists, who answer questions, build connections, and direct students to appropriate student services. Seattle Promise scholars check in with their retention specialists each quarter to stay on track to attain their academic goals. (For more information about Seattle Promise, refer to page 11.)

Student Learning Center

Refer to Tutoring Services.

Student Media Center (SMC)

(206) 934-0070
northseattle.edu/student-media-center

Located on the upper floor of North's Library, the SMC provides all current North students with access to media resources and basic instruction, enabling them to incorporate audiovisual and print media into their course assignments, college activities, and presentations.

Student Support Services/Basic Needs

northseattle.edu/basic-needs

As a student, it's not always easy meeting basic needs while attending school and often working and/or taking care of a family. Students face numerous barriers to food, housing, health, and other needs that are crucial to academic and personal success. Several programs at North, and in the community, can help address needs like making sure you have food to eat, help paying for emergencies, keeping a roof over your head, and more as you continue your educational journey.

Testing Center

(206) 934-3674
NSCTesting@seattlecolleges.edu
northseattle.edu/placement-classes

Students seeking a degree or certificate or enrolling in most English or mathematics classes (or classes with English or mathematics prerequisites) must complete placement in these subjects prior to registration so you know which classes they are ready to take. Multiple methods are available for placement, including free online Directed Self Placement tools for English and math. Access to these tools and other tests is available in the Testing Center. For the testing schedule and detailed information, visit the website or the Testing Center.

Transfer Resources

northseattle.edu/programs/college-transfer

Students should contact their advisor or retention specialist for more information.

TRiO

northseattle.edu/trio

TRiO is a federal outreach and Student Support Service program (SSS) designed to identify and provide services for individuals from disadvantaged backgrounds. This program exists to increase the academic success of first-generation and low-income students and students with a disability. We provide a variety of services that promote students' personal, academic, and professional goals at North Seattle College and beyond.

Tutoring Services

Student Learning Center

(206) 934-4752
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.

Veterans Services

School Certifying Official: Gregory Tessensohn
(206) 934-7309 | NSCCVeterans@seattlecolleges.edu
northseattle.edu/office-veterans-services

The Office of Veterans Services at North 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 49 for more information about financial assistance for veterans and military personnel.



Workforce and BFET Programs

(206) 934-3787 | nscwfe@seattlecolleges.edu
northseattle.edu/workforce-education

BFET

The Basic Food Employment and Training (BFET) program provides tuition, fees, required textbook and transportation funding for recipients of federal food assistance (Basic Food or SNAP) to increase employment opportunities. To qualify for the BFET program, you must enroll in an eligible training program and meet the eligibility criteria.

WorkFirst

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 general business, early childhood education, accounting, electronics, Allied Health, EMT, Nursing prerequisites, Pharmacy Technician, 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.

“I will remember the variety of interesting classes taught by passionate professors.”

– Madeline J.

Campus Life

NORTH

70

Campus Life

Art Gallery

(206) 934-4557

nscartgallery@seattlecolleges.eduartgallery.northseattle.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 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 (online)

northseattle.edu/bookstore

Our Seattle Colleges Online Bookstore serves North Seattle, Seattle Central, and South Seattle Colleges. It operates completely online. Visit the website to order textbooks and course materials. Campus-specific information and access to the bookstore website are available on each college's bookstore webpage. The online bookstore simplifies the textbook process and offers a variety of physical and digital textbook formats. Students will find a personalized website experience when they log in with their student account. New, used, eBook, and rental textbook formats may be available, depending on each course.

Note: the former on-campus bookstores at North, Central, and South are closed.

Child Care Center

(206) 934-3644

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 18 months through 5 years old. Call for tours or fee information.

Community and Welcome Center

(206) 934-3719 | edi.north@seattlecolleges.edunorthseattle.edu/aco/community-welcome-center

The Center aims to provide helpful resources for our students, faculty, staff and community that will inform our ongoing quest for racial equity and create a sense of belonging for all. The Center aims to identify and implement equitable strategies to end all racial and other equity gaps at North Seattle College. The President's Cabinet, students, faculty, staff and community stakeholders came together in 2018 to develop the framework for the historic Community and 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:

- Equity and Welcome Center
- Multicultural and Gender Equity Pride Student Lounge
- Virtual student lounges
- United Way Benefits Hub
- College entry navigation help for new students
- Belinda's Closet, supporting students across Seattle Colleges who need professional clothing to wear at interviews, work, and graduation

Food Services and Dining

northseattle.edu/campus-life/food-and-dining

Black Coffee Northwest at the Lily Pad Café

North Seattle College is proud to offer coffee from Black Coffee Northwest, a Black-owned, family-owned, community driven organization, at the Lily Pad Café on the first floor of the College Center building, north corner. In addition to coffee, the café offers delectable pastries, refreshing smoothies, tea, and snacks to perfectly satisfy your pick-me-up needs.

Micro Market at the Grove

Snacks, preheatable meals, cold sandwiches and beverages are available from the Micro Market, located on the first floor in the Grove (HSSR building).

Food Trucks

During each quarter, North hosts food trucks once a week on Tuesdays from 11 a.m. to 2 p.m. Trucks are parked on the West side of campus next to the library.

Housing

northseattle.edu/basic-needs-resources/housing-and-rent-assistance

On-campus housing is not available. Our Housing Resource Navigator is available to help if you need housing or if you have a room or apartment available for students to rent.

Recreation & Fitness

The Roy Flores Wellness Center/ Student Recreation Information Line (206) 934-4591 | rfwc.nsc@seattlecolleges.edu
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.

Safety and Security

Campus Safety and Security Department
(206) 934-3636
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 and Affinity Groups

(206) 934-3641
northseattle.edu/student-leadership-engagement/clubs-affinity-groups

This Student Club 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 and Engagement (SLE) located on the north-end ground floor of the College Center building.

Student Governance Board

(206) 934-3642
northseattle.edu/student-leadership-engagement

The Student Governance Board serves as North's executive student government. The Student Government advocates for the student body by working with faculty, staff, and administration to ensure that student needs and concerns are addressed. The Board, including the student body president, also provides leadership and daily support to the other student boards:

- Club Board
- Events Board
- S&A and UTF Fee Boards

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 receive an hourly wage, training, and mentoring designed to strengthen their leadership skills and to provide a foundation for success.



Student Leadership and Engagement

(206) 934-3642

northseattle.edu/student-leadership-engagement

The office of Student Leadership and Engagement (SLE) administers North's Student Leadership Program which consists of approximately 15 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.

“I will cherish my time at North and the amazing teachers I met along the way.”
— Valerie F.

Transportation and Parking

(206) 934-0060

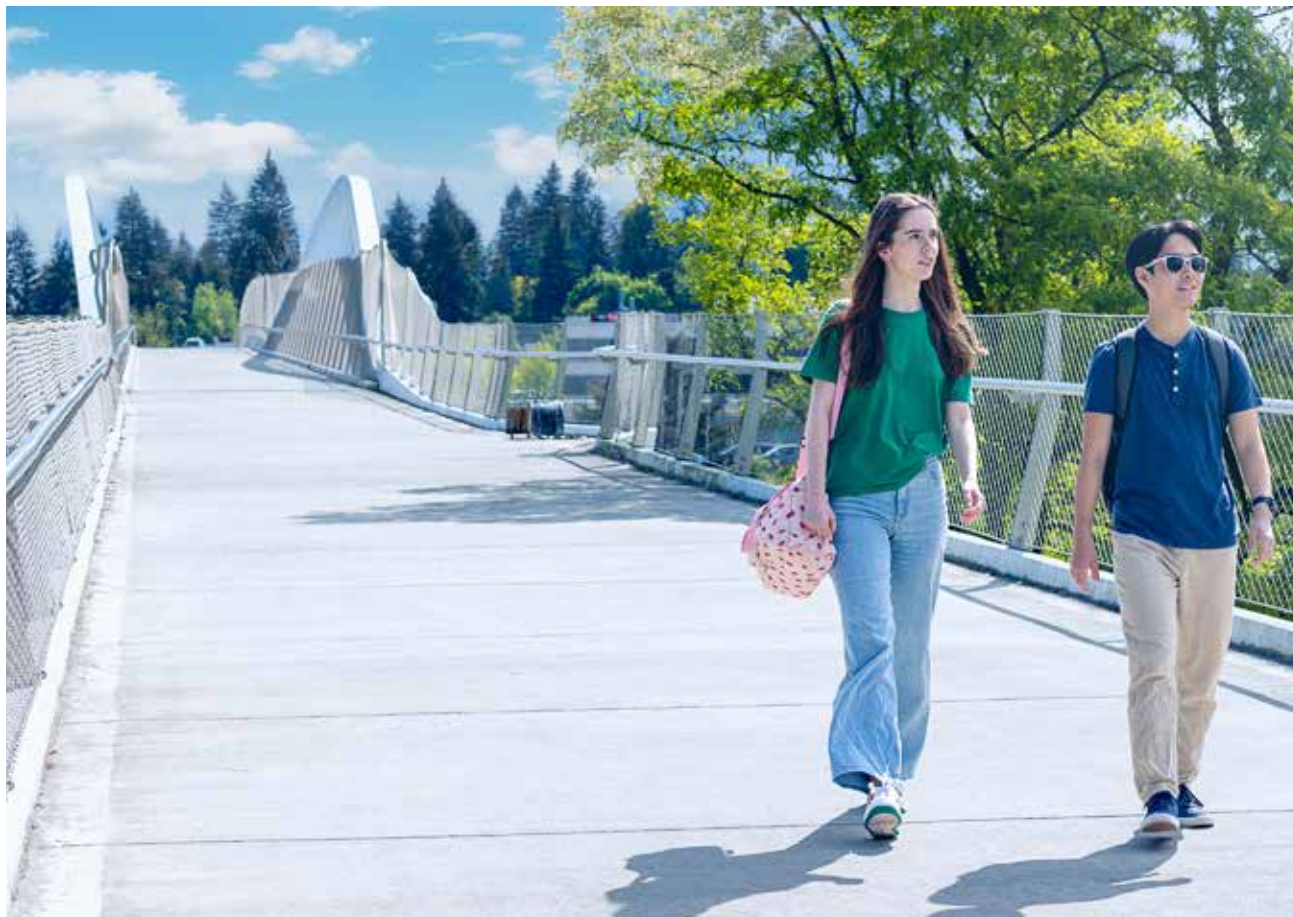
northseattle.edu/transportation

North is easily accessible by bus and Link Light Rail. Four Metro Transit bus routes directly serve the campus. The nearby Northgate Transit Center—accessible via the John Lewis Memorial Pedestrian Bridge over I-5—is a Link Light Rail stop and a major transfer hub for Metro, Community Transit and Sound Transit 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. 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.



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

“I’ll remember excellent instructors and a sense of community.”
– William B.

Associate in Arts Degree Learning Outcomes

See page 17.

Associate in Science Degree Learning Outcomes

Students completing the Associate in 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 (AFA)

This two-year program is designed for students that wish to obtain an Associate in Fine Arts 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 (AFA)

This two-year program is designed for students that wish to obtain an Associate in Fine Arts 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 will also demonstrate collaborative attitude, skills, and knowledge in 3D art media, and will learn 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 (AA-DTA)

This two-year program is designed for students that wish to obtain an Associate in 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 (AFA)

This two-year program is designed for students that wish to obtain an Associate in 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.

Associate in Fine Arts (AFA) in Jewelry and Metals

Arts, Humanities and Social Sciences

The Associate in Fine Arts (AFA) degree with a concentration in Jewelry and Metals is designed to give you a strong portfolio in jewelry design as well as successfully prepare you for further education 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.

North Seattle College has one of the most well-equipped studios in the Pacific Northwest region. Students in this program develop technical skills including fabrication, stone setting, and small-scale metal casting and mold making, as well as creative skills in the field of jewelry, for both fine art expression and commercial application. Students will also demonstrate collaborative attitude, skills, and knowledge, and will learn how to properly set up a studio and to find work in a variety of careers related to jewelry design.

Music (AA-DTA)

This program meets requirements for the Associate in 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 in Applied Science Degree (AAS)

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	131	QuickBooks	5
ACCT&	202	Principles of Accounting II	5
ACCT&	203	Principles of Accounting III	5
ACCT	255	Individual Income Tax	5
ACCT	257	Business Tax Accounting	5
ACCT	267	Not for Profit Financial Management	5
ACCT	271	Ethics in Accounting	5
ACCT	295	Managerial Accounting and Analysis for Business	6
CWE	110	Internship	3

ACCOUNTING AND BUSINESS 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	272	Fraud Examination	5
ACCT	273	Introduction to Financial Crimes	5
ACCT	274	Forensic Accounting	5
BUS	112	Multi-Cultural Issues in the American Workplace	5
BUS	169	Using Computers in Business	5
BUS	280	Business Data Analytics	5
CWE	101	Portfolio, Preparation & Workplace Success	2

RELATED INSTRUCTION

BUS	124	Excel for Business	5
BUS&	201	Business Law	5
Following can be substituted:			
BUS	210	Business and Economic Statistics	5
prerequisite: MATH 098 or higher			
BUS	236	Interpersonal Communications for the Workplace	5

ENGL&	235	Technical Writing	5
Following can be substituted:			
ENGL&	101	English Composition I (5)	5
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 in Applied Science–Transfer Degree (AAS-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-year 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 in 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 and analysis, and a thorough understanding of International Financial Reporting Standards (IFRS). Students from several different business, accounting, and real estate programs will be qualified 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 credits (commonly fulfilled by accounting/business/real estate courses)		

TOTAL PROGRAM CREDITS 180

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 131 QuickBooks 5
ACCT& 202 Principles of Accounting II 5
ACCT 257 Business Tax Accounting 5
ACCT 267 Not for Profit Financial Management 5
ACCT 271 Ethics in Accounting. 5
BUS 124 Excel for Business. 5
BUS 236 Interpersonal Communications
for the Workplace 5
CWE 110 Internship 3
TOTAL PROGRAM CREDITS 43

Business (AB)

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****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	169	Using Computers in Business	5
		Following can be substituted:	
		BUS 156 - Intro to E-Bus/Commerce (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 (AB-DTA)

This program is designed for students that wish to obtain an Associate in 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 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 13 credits, resulting in a Entrepreneurship Foundation Certificate.

PREREQUISITES

Many classes have 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.

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 13

General Business Associate in Applied Science Degree (AAS)

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.

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

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

Note: Students wishing to transfer to an applied baccalaureate degree should consider the General Business AAS-T program.

General Business Associate in Applied Science–Transfer Degree (AAS-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 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 of Applied Science Degree in International Business.

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 VLP courses 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

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 BUS 236 or an approved equivalent		
CWE 110	Internship.	3
Must be taken after BUS 118; May be taken concurrently with BUS 229		

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 to 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.

Real Estate Associate in Applied Science–Transfer Degree (AAS-T)

Business, Engineering & Information Technologies Division

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.

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.

Residential and Commercial Property Management Bachelor of Applied Science Degree (BAS)

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.....		
Individual, Cultures, and Societies.....		
Natural World, the.....		
Must include at least 5 credits of lab science		
U.S. Cultures.....		
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
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



EDUCATION AND HUMAN SERVICES

Early Childhood Education Associate in Applied Science Degree (AAS)

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 Associate in Applied Science–Transfer Degree (AAS-T)

Health & Human Services Division

REQUIREMENTS

CASAS testing is required of all students entering the program. If not completed before, it may take place in the first night of introductory classes.

- Scores of 236 or higher are enrolled in the program with no restrictions.
- Scores between 215-236 are required to enroll in I-BEST Support classes.
- Scores below 215 will be referred to ABE or ESL as appropriate, and can enroll in ECE courses until minimum CASAS scores or placement in ENGL 97 or higher are attained.

Students enrolling in this program should have access to early childhood settings and preschool-aged children. Observations of children and their environments is a requirement of the ECE Curriculum.

In order to successfully complete the program a 2.0 grade or higher is required in all Early Childhood Education courses. A minimum grade of 1.5 is required in the required math class, with a cumulative GPA of 2.0. Students who are on financial aid need to keep a 2.0 GPA each quarter.

Note: Advanced placement testing, work experience, and transfer of credits may result in course waivers credit transfer, and advanced placement.

TECHNICAL SPECIALTY COURSES

CCE 240	Multicultural Dialogues in Early Childhood Educ	3
CCE 261	Readings in Early Childhood Education	1
Credit range: 1 to 6/Total required credits: 1		
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
EDUC 219	Practicum: Instructional Interactions	5
EDUC 222	MATH and Science Methods in ECE	5

GENERAL EDUCATION COURSES

ENGL&101	English Composition I	5
	Natural World, the	5
	U.S. Cultures	5
	Global Studies	5
	Computation or Quantitative course	5
	Any MATH course at 100 level or above.	

GENERAL EDUCATION - HUMAN RELATIONS ELECTIVE

Select total of 5 credits from any of the courses listed below:

BUS 112	Multi-Cultural Issues in the American Workplace	5
BUS 236	Interpersonal Communications for the Workplace	5
BUS 237	Team Skills in the Workplace	5
CMST 205	Multicultural Communication	5
CMST& 210	Interpersonal Communication	5
CMST& 230	Small Group Communication	5
HUM 105	Intercultural Communication	5
PSYC 209	Fundamentals of Psychological Research	5
PSYC 245	Social Psychology	5
	Following can be substituted:	
	SOC 245 - Social Psychology (5)	
PSYC 257	Psychology of Gender	5
	Following can be substituted:	
	WMN 257 - Psychology of Gender (5)	
SOC& 101	Introduction to Sociology	5
TOTAL PROGRAM CREDITS		90

Early Childhood Education Bachelor of Applied Science Degree (BAS)

Health & Human Services Division

The Early Childhood Education Bachelor of Applied Science (BAS) program at North Seattle College prepares students for positions as lead infant/preschool teachers and for administrative and leadership roles in early learning programs and related nonprofit organizations. Through coursework and an embedded practicum, students gain research-based teaching, leadership, and coaching practices. On average, students complete 90 credits beyond their associate degree, though this varies depending on previous coursework.

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/ ENGL 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

Early Childhood Education Outdoor Learning Short Certificate

Health & Human Services Division

TECHNICAL SPECIALTY COURSES

A minimum grade of 2.0 is required in all ECED/EDUC CCE classes

ECED& 105	Introduction to Early Childhood Education	5
ECED& 107	Health, Safety, and Nutrition	5
ECED& 120	Practicum: Nurturing Relationships	2
EDUC& 115	Child Development	5

TOTAL PROGRAM CREDITS 20

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 of 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 of 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 of 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 of 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 of 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

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
TOTAL PROGRAM CREDITS		12

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
TOTAL PROGRAM CREDITS		20

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
TOTAL PROGRAM CREDITS		20

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
TOTAL PROGRAM CREDITS		20



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



“I’ll remember how supportive the teachers were. They really cared and went the extra mile to help us out.”
– Asiya J.

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 in 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.



HEALTH AND MEDICAL

Allied Health Associate in Applied Science–Transfer Degree (AAS-T)

Health & Human Services Division

The Associate in Applied Science - Transfer (AAS-T) degree in Allied Health helps students advance their education and career training in the healthcare field. This degree is for many types of students: students who have already earned a healthcare certificate and want career advancement; students who are interested in starting a career in healthcare; and students who are planning to pursue a Bachelor of Applied Science (BAS) degree program in Community Health & Education or Healthcare Services Management.

Students will develop a rounded education in the health sciences while learning to deliver healthcare as part of a team and improving communication and patient advocacy skills. Students will complete 90 credits of coursework, earning an AAS-T degree in Allied Health. Completing this program prepares graduates for quick entry into a variety of high-demand healthcare careers or to transfer into a BAS program to continue their education.

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.

ALLIED HEALTH COURSES

- At least 10 college credits must be from a completed certificate in an allied health field from an institution accredited by an approved agency (see advising for approved CIP code list). If the certificate was earned longer than five years ago, the students must have been employed in a related healthcare field for at least one year within the past five years.
- If fewer than 30 college credits are transferred in from the certificate, the difference may be made up with credits from the following related courses. Courses should be planned with the help of an advisor based on the student's transfer or career goals:
AMA 117 / ANTH& 205, ANTH 275 / BIOL& 160, BIOL& 241, BIOL& 242, BIOL& 260 / BUS 236 / CHEM& 121, CHEM& 131 / CMST 205, CMST& 210, CMST& 230 / HEA 150 / HUM 105 / NUTR& 101 / PEC 183 / PHIL 111 / PSYC& 100, PSYC& 200, PSYC& 222, PSYC& 230 / SOC& 101

- 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 (below). If more than 30 credits are transferred in, the remainder will be used to fulfill the "Related Electives" requirement.

GENERAL EDUCATION

ENGL& 101	English Composition I	5
HDC 101	Orientation to College Success	2
Recommended to take within first two quarters at North Seattle.		
Note: Some students may qualify for an exemption. To see if you qualify, please contact your advisor or retention specialist. If not taking HDC 10 substitute with two credits of electives.		
MATH& 146	Introduction to Statistics	5
Following can be substituted:		
MATH 211 - Elements of Statistical Methods (5)		
BUS 210 - Business and Economic Statistics (5)		
Visual, Literary and Performing Arts		5
Recommended courses:		
HUM 105 - Intercultural Communications (5)		
or CMST 205 - Multicultural Communications (5)		
Individual, Cultures and Societies		5
Recommended courses:		
PSYC& 100 - General Psychology (5)		
or SOC& 101 - Intro to Sociology (5)		
Natural World - Lab Science		5
Recommended courses:		
CHEM& 121 - Intro to Chemistry (5)		
or BIOL& 160 - General Biology w/ Lab (5)		
Academic course		5
If intending to apply to a BAS program in Allied Health after completion, it is recommended to take ENGL& 102 or a Natural World (NW) science class to satisfy this requirement. See Advising for list of approved courses.		

RELATED ELECTIVES

Elective credits should be planned with the help of an advisor based on the student's transfer or career goals. Consult an advisor for more information. Additional elective credits can be fulfilled by any combination of the following:

Allied health field certificate requirements if more than 30 credits were transferred in from the student's certificate.

ACCT 110	Introduction to Accounting/Bookkeeping I	5
ACCT 120	Introduction to Accounting/Bookkeeping II	5
ACCT 131	QuickBooks	5
ACCT& 201	Principles of Accounting I	5
ACCT& 202	Principles of Accounting II	5
ACCT& 203	Principles of Accounting III	5
BUS course		10
Up to 10 credits of business (BUS) courses.		

Area of Knowledge Course	5
Additional general education credits chosen from the courses tagged as fulfilling the AA degree "Areas of Knowledge" requirements (marked as VLPA*, ICS, or NW in the online course schedule)	
*No more than 10 credits of studio/performing arts VLPA courses will count toward an AAS-T degree.	
Allied Health course	5
Any Allied health courses with the following prefixes: AHD, AHE, AHI, AHL, AMA, CMA, EDT, NUR, PHA, SHS, SURG	
HDC - Human Development course	6
Up to 6 credits of human development (HDC) courses HDC 101 counts for 2 credits of this limit.	
PEC - Physical Education course	3
Up to 3 credits of physical education (PEC) courses.	
TOTAL PROGRAM CREDITS	90

Degree Requirement Details

- Degree requires the completion of at least 90 applicable credits, including transferred-in credits, with a minimum cumulative GPA of 2.0.
- Up to a maximum of 15 credits may have course grades between 1.5 and 2.0; all other courses must be at least 2.0. No course grade under 2.0 will transfer into BAS Allied Health degrees.
- All courses must be numbered 100 or above.
- Students must have earned a certificate of at least 10 credits from an institution accredited by an approved agency in an allied health field (see Advising for Approved CIP Code List). If the certificate was earned longer than five years ago, the students must have been employed in healthcare for at least one year within the past five years.
- At least 15 credits must be earned from North Seattle College.
- AAS-T degree completion does not guarantee admission to a university/major program.

Biomedical Equipment Technology Associate in Applied Science Degree (AAS)

Business, Engineering & Information Technologies Division

This pathway meets AAS in Biomedical Equipment Technology (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	Medical 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	118	Project Management Introduction and Overview	5
EET	109	Mathematical Applications for Circuit Analysis	5
Following can be substituted:			
MATH& 142 - Pre-Calculus 2 (5)			
ENGL&	101	English Composition I	5
Following can be substituted:			
ENGL& 235 - Technical Writing (5)			
Human Relations Elective			5
Any approved Human Relations course.			
Preferred class is: BUS 236 - Interpersonal Communication (5)			
See Advising for list of approved courses.			
US Cultures/Global Studies Elective			5
Any approved US Cultures or Global Studies course.			

TOTAL PROGRAM CREDITS 97



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

“Every teacher opened my mind in a way I didn't even know I could think.”

– Gustavo L.

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 56 credits, resulting in a Pharmacy Technician Certificate. The program is accredited by the American Society of Health-System Pharmacists (ASHP).

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 in Applied Science Degree (AAS)

Health & Human Services Division

This program prepares students to work as Pharmacy Technicians. The degree is a sign of increased competency and readiness for career/salary advancement. Learn basic pharmacy skills (reading prescriptions, order entry, IV medication prep, etc.). Students complete 91 credits, resulting in a Pharmacy Technician AAS. The program is accredited by the American Society of Health-System Pharmacists (ASHP).

PREREQUISITES

- High School Diploma or GED
- Must be 18 years of older (course work pre-requisites must have been completed within the last five years and COMPASS must be done within the last two years for Math and one year for English).
- Immunizations are required to be placed in externship as well as an active Washington Pharmacy Assistant license (issued upon completing the first quarter of the program).
- A minimum 2.0 in all courses is required for program completion.

ENGL&	101	English Composition I	5
		Placement into or completion of ENGL& 101	
MATH	098	Intermediate Algebra	5
		Placement into or completion of MATH 098	

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
		The Pharmacy Technician externship is usually split over a two-quarter time frame.	
		A minimum of 13 credits = 432 externship hours must be completed satisfactorily for certification.	
PHA	191	Job Skills and National Exam Preparation	1

GENERAL EDUCATION COURSES

BUS	236	Interpersonal Communications for the Workplace	5
		Natural World, the	5
		See Advising for list of approved courses.	
U.S.	Cultures		5
		Following can be substituted: Global Studies course (5)	
Communication			5
		Choose from approved list of Communication Electives courses. See Advising for list of approved courses.	
Computation Elective			5
		Choose from approved list of Computation Elective courses. See Advising for list of approved courses.	

ELECTIVES

Elective			10
		Choose ten (10) credits from 100-level and above courses. See Advising for list of approved courses.	

TOTAL PROGRAM CREDITS 91

Prenursing (AS-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 in 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 being 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 (AS-Track 2)

This pathway meets requirements for the Associate in 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 (AS-Track 2)

This pathway meets requirements for the Associate in 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 (AS-Track 1)

This pathway meets requirements for the Associate in 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 (AS-Track 1)

This pathway is designed to meet Associate in 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 Seattle Colleges.

Civil and Environmental Engineering (AS-Track 2)

This pathway meets requirements for the Associate in 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
TOTAL CREDITS			14

Computer Science (ACS-DTA/MRP)

This two-year pathway is designed for students who wish to complete an Associate of Computer Science DTA/MRP degree. 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.

Computer Science Bachelor of Science (BS)

Workforce Instruction

Our Data Science (DS) track is a part of our BS in Computer Science degree. The industry-relevant curriculum will dive into machine learning, deep learning, big data, and ethics in AI. Students interested in careers as data scientists, data engineers, and machine learning engineers should consider this pathway when applying. The DS pathway will teach students how to ethically harness and interpret vast amounts of information, which is an important skill companies look for to make data-driven decisions.

PREREQUISITES FOR BS DS ADMISSION:

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 CS prerequisite courses. Any General Education Requirements taken as part of the associate degree can be transferred into the requirements below.

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	This course can be applied towards fulfillment of the Statistics course (5) needed for Quantitative/Symbolic Reasoning (QSR) requirement (10) This course is recommended for the Data Science (DS) 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&	142	Precalculus II.....	5	This course can be applied towards fulfillment of the Pre-Calculus course (5) needed for Quantitative/Symbolic Reasoning (QSR) requirement (10). MATH& 142 is the recommended course.
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&	151	Calculus I.....	5	This course can be applied towards fulfillment of the Pre-Calculus course (5) needed for Quantitative/Symbolic Reasoning (QSR) requirement (10) MATH& 151 is recommended course.
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
AD	420	Cloud Computing - Software as Service.....	5
CSB	302	Analysis of Algorithms.....	5
CSB	430	Software Design and Implementation.....	5
CSB	440	Computer Science Practicum Internship.....	5

ELECTIVE OPTION - DATA SCIENCE PATHWAY

Total Elective Option Credits Required: 35

Select one option to complete from the Elective Options listed.

Academic Sub-Plan code for this elective: BS_CSDSCIT.

AD	315	Discrete Mathematics in Computer Programming	5
AD	450	Datascience Development	5
CSB	303	AI & Ethics	5
CSB	320	Machine Learning Concepts	5
CSB	410	Deep Learning	5
CSB	425	Big Data Analytics	5
IBN	330	Data Analytics in Business and Accounting	4

ELECTIVE OPTION - COMPUTER SCIENCE PATHWAY

Total Elective Option Credits Required: 35

Select one option to complete from the Elective Options listed.

Academic Sub-Plan code for this elective: BS_CSGENT.

AD	320	Web Application Development	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			
Select from any Humanities course.			
Individual, Cultures, and Societies			
Select from any Social Sciences course.			
Natural World, the			
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			
Select from any Composition, Writing-intensive,			
or Basic Speaking Skills course.			
ENGL& 235 - Technical Writing is recommended.			
Quantitative / Symbolic Reasoning			
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)			
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 in 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

CybersecurityCertificate**Business, Engineering & Information Technologies Division****PREREQUISITES**

MATH 081 with an S or placement into MATH 084 or higher

Placement into ENGL& 101.

TECHNICAL SPECIALTY COURSES

BUS	169	Using Computers in Business	5
CWE	110	Internship	3
Following can be substituted: IT 291 - Network Security Practicum (3) with instructor permission.			
EET	131	IT Essentials I - A+ Certification	5
IT	100	Introduction to Computer Systems and Networks	5
IT	111	Internet and Web Authoring Using XHTML	5
IT	115	Intro to Software Development & Version Control	5
IT	130	Network Essentials	5
Following can be substituted: IT 120 - Network Essentials - Comptia Network+			
IT	138	Linux for Network Administration	5
IT	150	IT Systems Security + ...	5
IT	157	Ethical Hacking	5
IT	231	Linux Operating System	5
Following can be substituted:			
IT 135 - Introduction to Linux			
IT	255	Security 4: Network Forensic & Incident Response	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
TOTAL PROGRAM CREDITS			73

“I’ll remember the commitment
the faculty and professors had
to my education.”
– Mohamed I.

Electrical Engineering (AS-Track 2)

This pathway meets requirements for the Associate in 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.

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

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
		Following can be substituted: EET 108 - Introduction to Fiber Optics (5) or EET 132 - IT Essentials A+ Certification Advanced (5) or EET 137 - Introduction to Robotics (5) or EET 138 - Industrial Robotics (5)	
EET	131	IT Essentials I - A+ Certification	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

EET	203	Programmable Logic Controllers	5
		Following can be substituted:	
		EEL 203 - Industrial Motor Drives (5)	

GENERAL EDUCATION COURSES

EET	109	Mathematical Applications for Circuit Analysis	5
		Following can be substituted: MATH 142 - Pre-Calculus II (5)	
ENGL&	101	English Composition I	5
		Following can be substituted:	
		ENGL& 235 - Technical Writing (5)	
Human Relations Elective			5
		Following can be substituted: BUS 236 - Interpersonal Communication in the Workplace(5) or any approved Human Relations course. BUS 236 - Interpersonal Communication in the Workplace is the preferred course. See Advising for list of approved courses.	

TOTAL PROGRAM CREDITS	53

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
TOTAL PROGRAM CREDITS	49		

Environmental Science (AS-DTA)

This pathway meets the requirements for the Associate in 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 (AS-Track 1)

This pathway meets the requirements for the Associate in 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
TOTAL PROGRAM CREDITS 58

Geology (AS-Track 1)

This pathway meets requirements for the Associate in 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 (AS-Track 2)

This pathway meets requirements for the Associate in 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 in Applied Science – Transfer Degree (AAS-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.	

TOTAL PROGRAM CREDITS 90

IT – Application Development Bachelor of Applied Science Degree (BAS)

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 three-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
		See Advising for list of approved courses.	
		Suggested course(s):	
		CSC 110 - Introduction to Computer Programming	
		or CSC 142 - Computer Programming I	
		or IT 102 - Introduction to Programming	
		or IT 161 - Web Authoring 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	

TECHNICAL SPECIALTY COURSES

AD	311	Intermediate Development 1	5
AD	312	Intermediate Development 2	5
AD	323	Data Engineering	5
AD	331	Artificial Intelligence	5
AD	341	Data Analysis	5
AD	350	Database Technology	5
AD	351	Application Design & Prototyping	5
AD	361	Application Testing	5
AD	371	Application Architecture	5
AD	381	Application Security	5
AD	391	Application Operations	5
AD	400	Project Management in Software Development	5
AD	450	Datascience Development	5
AD	490	Internship/Capstone Project AD-BAS	5

RELATED INSTRUCTION

General Education Prerequisites (Communications [English] + QSR) 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	Five 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.	

TOTAL PROGRAM CREDITS	180

“The Application Development program helped me feel comfortable in many topics I would have otherwise felt were unapproachable.”

– Cameron S.

IT Controlled Electronic Systems Associate in Applied Science Degree (AAS)

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

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
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

IT – Network and Server Administration Specialist Associate in Applied Science Degree (AAS)

Business, Engineering & Information Technologies Division

This degree program prepares students to enter the IT field as IT Managers, Systems Administrators, or IT Specialists. 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 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
TOTAL PROGRAM CREDITS 90

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
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 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

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****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 (AS-DTA)

This pathway meets requirements for the Associate in 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.

“What I'll remember most from my time at North Seattle College is the growth I experienced—both personally and professionally.”

– Tesa P.

Mechanical Engineering

This pathway meets requirements for the Associate in 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 (AS-Track 2)

This pathway meets requirements for the Associate in 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	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	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 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

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: 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 craftsperson 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 in Applied Science–Transfer Degree (AAS-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	AC 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

RELATED INSTRUCTION

ENGL&	101	English Composition I	5
ENGL&	235	Technical Writing	5
MATH&	141	Precalculus 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.		
BUS 112 - Multi-Cultural Communication in the American Workplace is the preferred course.		
Human Relations Elective	.....	5
CMST& 210 - Interpersonal Communications is the preferred course. See Advising for list of approved courses.		
TOTAL PROGRAM CREDITS		102

Electronics Technology Associate in Applied Science Degree (AAS)

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

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	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	AC 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

Total Required Credits for Related Instruction courses: 28-30 (total of all Related Instruction categories listed)

EET	109	Mathematical Applications for Circuit Analysis.....	5
Following can be substituted:			
MATH & 142 - Pre-Calculus II (5)			
ENGL&	101	English Composition I	5
Following can be substituted:			
ENGL& 235 - Technical Writing (5)			

RELATED INSTRUCTION – HUMAN RELATIONS ELECTIVES

BUS	236	Interpersonal Communications for the Workplace	5
Following can be substituted:			
Any approved Human Relations course. BUS 236 - Interpersonal Communications in the Workplace is preferred course. See Advising for list of approved courses.			

RELATED INSTRUCTION - HUMAN RELATIONS ELECTIVE

BUS	236	Interpersonal Communications for the Workplace	5
Following can be substituted:			
Any approved Human Relations course. BUS 236 - Interpersonal Communications in the Workplace is preferred course. See Advising for list of approved courses.			

RELATED INSTRUCTION - US CULTURES/ GLOBAL STUDIES ELECTIVE

BUS	112	Multi-Cultural Issues in the American Workplace	5
Following can be substituted:			
US Cultures course (5) or Global Studies course (5)			
BUS 112 - Multicultural Issues in the U.S. Workplace is the preferred course.			

RELATED INSTRUCTION – TECHNICAL ELECTIVES

Any non-required course(s) from the following departments – CHEM, CSC, EEL, EET, 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&	141	Precalculus I.....	5
Following can be substituted: higher MATH course			

TOTAL PROGRAM CREDITS		109-111

Fire Science Associate in 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

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 in Applied Science Degree (AAS)

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	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	AC 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			
TOTAL PROGRAM CREDITS			101

Industrial Power and Control Certificate**Business, Engineering & Information Technologies Division**

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.

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.

PREREQUISITES

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 an equivalent or higher MATH course			

TECHNICAL SPECIALTY COURSES

EET	105	Introduction to Technology.....	2
EET	106	Introduction to Soldering.....	1
EET	112	Fundamentals of Fluid Power	5
EET	138	Industrial Robotics	5
EET	161	Principles of DC Electronics	5
EET	162	AC 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	201	Energy Generation and Conversion	5
Following can be substituted: EEL 201 - Energy Generation, Conversion and Sustainability (5)			
EET	202	Industrial Motor Controls and Drives	5
Following can be substituted: EEL 202 - Industrial Motor Controls (5)			
EET	203	Programmable Logic Controllers.....	5
Following can be substituted: EEL 203 - Industrial Motor Drives (5)			

RELATED INSTRUCTION

EET	109	Mathematical Applications for Circuit Analysis.....	5
Following can be substituted: MATH& 141 - PreCalculus I (5) or higher MATH course			
ENGL&	101	English Composition I	5
Following can be substituted: ENGL& 235 - Technical Writing (5)			
Human	Relations	Elective	5
See Advising for list of approved Human Relations courses. Preferred course: BUS 236 - Interpersonal Communication in the Workplace.			

TOTAL PROGRAM CREDITS 68

“ I will remember the rigorous
education I got that led me to find
my love of biology and chemistry.”

– Fern T.

IT-Controlled Electronic Systems Associate in Applied Science Degree (AAS)

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

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

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

Mechatronics Associate in Applied Science Degree (AAS)

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	097	English 097: Integrated Reading and Writing I	10
Following can be substituted: ENGL 098 - Integrated Reading and Writing II or 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	162	A. Principles of Electronics	5
EET	201	Energy Generation and Conversion	5
Following can be substituted: EEL 201 - Energy Generation, Conversion and Sustainability (5)			
EET	202	Industrial Motor Controls and Drives	5
Following can be substituted: EEL 202 - Industrial Motor Controls (5)			
EET	203	Programmable Logic Controllers	5
Following can be substituted: EEL 203 - Industrial Motor Drives (5)			

EET	291	Electronics Internship	10
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 114 – Applied Physics (5) or EET 132 - IT Essentials – A+ Certification Advanced (5) or EET 163 - Solid State Electronics (5) or EET 170 - Digital Electronics & PLCs I (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 option selected.			
MFGT	105	Basic Manufacturing	20
Following can be substituted: Shoreline Community College course(s): MFGT 107 - Basic Manufacturing Part A and MFGT 108 - Basic Manufacturing Part B This course is taken at Shoreline Community College			
MFGT	244	Preventative Maintenance	3
This course is taken at Shoreline Community College			
MFGT	245	10 Hour OSHA	1
This course is taken at Shoreline Community College			
MFGT	246	Mechanical Maintenance	5
This course is taken at Shoreline Community College			

RELATED INSTRUCTION

EET	109	Mathematical Applications for Circuit Analysis	5
Following can be substituted: MATH& 142 - Pre-Calculus 2 (5)			
ENGL&	101	English Composition I	5
Following can be substituted: ENGL& 235 - Technical Writing (5) or Shoreline Community College course: BTWRT 215 - Composition, Business Communications (5)			
Human Relations Elective			5
Following can be substituted: BUS 236 - Interpersonal Communications for the Workplace (5) or approved Human Relations Elective or Shoreline Community College course(s): BUS 104 - Human Relations in Business or BUS 105 - Essentials of Human Relations Total credits can be from 2 - 5 based on option selected.			
US Cultures/Global Studies Elective			5
Following can be substituted: BUS 112 - Multicultural Issues in the U.S. Workplace or approved US Cultures/Global Studies Elective or Shoreline Community College course: BUS 103 - Multiculturalism in the Workplace or MCS 105 - Intro to Multiculturalism Studies View List of Approved US Cultures/Global Studies Courses.			

TOTAL PROGRAM CREDITS	96-105

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 in Applied Science Degree (AAS)

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.

TOTAL PROGRAM CREDITS			184

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 in 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

TOTAL PROGRAM CREDITS			164



SOCIAL SCIENCES, HUMANITIES, AND LANGUAGE

Anthropology (AA)

This two-year program is designed for students who wish to complete an Associate in 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 in 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 (AA-DTA)

This two-year program is designed for students who wish to complete an Associate in 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 (AA)

This two-year program is designed for students who wish to complete an Associate in 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 (AA)

This two-year program is designed for students who wish to complete an Associate in 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.

Ethics in Technology (AA-DTA)

This pathway meets requirements for the Associate in Arts Direct-Transfer Agreement (AA-DTA) degree with a concentration in Ethics in Technology. Completion of this degree opens doors to a variety of careers in sectors including technology, non-profits, business, healthcare and education. It allows you to transfer at the junior level into the Bachelor of Science in Computer Science degree program at North Seattle College. It also allows you to transfer at the junior level into Philosophy and related majors at a four-year college or university.

History (AA-DTA)

This two-year program is designed for students who wish to complete an Associate in 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 (AA)

This two-year program is designed for students who wish to complete an Associate in 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 (AA)

This two-year program is designed for students who wish to complete an Associate in 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 (AA-DTA)

This two-year program is designed for students who wish to complete an Associate in 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 (AA)

This two-year program is designed for students who wish to complete an Associate in 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 (AA)

This two-year program is designed for students who wish to complete an Associate in 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.



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 a new career, working toward a degree, learning marketable skills, and making connections. Most of all, it's about becoming a better, more capable you.

Each year, thousands of students choose Seattle Central College, 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. They represent a multitude of ages, races, nationalities, ethnicities, and backgrounds, and this 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 or call (206) 934-3898.



Getting Started at Central

Admissions	(206) 934-5450
International Students	(206) 934-3893
Financial Aid	(206) 934-3844
Information Center	(206) 934-3800
Registration	(206) 934-6918

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

“One of the best things about Seattle Central College is the advisors, especially the Designated School Officials (DSOs). They are incredibly supportive and always go out of their way to help students. In addition, the professors at Central are dedicated and helpful, always willing to provide extra support to ensure students succeed both in and out of the classroom.”

– Zarin B.

Specialized Training Centers

Health Education Center

1200 12th Ave S, HEC 202 Seattle, WA 98144

(206) 934-4347

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*

2023–2024 ANNUAL PROFILES

Annual Attendance	12,088

Special Enrollments

Distance Education	6,550
Running Start	776
International Students	1,058
Worker Retraining	293

Students

Average Age	28
Ethnic Diversity	54%
Male/Female	37%/52%
With Bachelor or Higher Degrees	1%
Full-time/Part-time Attendance	43%/57%

Programs

College Transfer	38%
Career and Technical	22%
Basic Education	12%
Other	29%

Course Funding Sources

State-funded	70%
Contract-supported	20%
Student-supported	10%

* Source: Seattle College District Database

Seattle Maritime Academy

4455 Shilshole Ave NW, Seattle, WA 98107

(206) 934-2647

maritime.seattlecentral.edu

Seattle Maritime Academy's focus is as a professional technical school helping supply the industry with confident and competent 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

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

AANAPISI

(206) 934-5525 | aanapisi.central@seattlecolleges.edu
seattlecentral.edu/AANAPISI

The Asian American Native American Pacific Islander Serving Institution (AANAPISI) is a federally funded program that seeks to increase student success outcomes and create a stronger sense of belonging by implementing culturally responsive, sustaining programming and holistic student support services. While our services are tailored for the AANAPISI communities, we welcome and serve all students.

Division for Access, Community, and Opportunity

BE 1112 | (206) 934-4085 | ACO.Central@seattlecolleges.edu
seattlecentral.edu/ACO

Access, Community, and Opportunity (ACO) is dedicated to advancing equity, student success, and inclusive excellence at Seattle Central. ACO collaborates across departments to create programs and services that affirm the diverse identities, experiences, and needs of our student body.

This office leads campuswide initiatives that foster a supportive institutional climate, including professional development on equity, inclusion, and anti-racism; community-building events; and student engagement activities such as the Annual Students of Color Conference.

By aligning with Seattle Colleges' strategic priorities, ACO works to narrow opportunity gaps, promote culturally responsive practices, and ensure all students have the access and support necessary to achieve their academic, personal, and career goals.

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: complete the Letter of Accommodation request form on the ARC website.

Requesting interpreters: 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 complete new student application on the website or email ARC.Central@seattlecolleges.edu for more information.

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.

Advising Center

(206) 934-4068
seattlecentral.edu/advising

Our programs help students with planning their academic interests and career goals.

The Academic Advising Center

Assists students with pre-program advisement, choosing classes, creating education plans, navigating college resources, and preparing for graduation.

Transfer 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.

Also refer to First-Year and Career Services and Transfer Center.

Career Services

Refer to First Year and Career Services.

Class Schedule Quarterly

(206) 934-3800

seattlecentral.edu/class-schedule

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

Broadway Edison (BE) 3148 | (206) 934-6333

website: itservices.seattlecolleges.edu/computer-labs-wifi

remote access: remoteaccess.labstats.com/seattle-central

Visit the Computer Center on the 3rd floor at the north end of the Broadway Edison building, Room BE3148, for more information. This lab features more than 60 computers with a broad assortment of software available for student use, as well as access to black-and-white and color printing at minimal cost.

The Computer Center is open to all currently enrolled Seattle Central students and has PC and Apple computers with internet connectivity. A ctcLink ID number with photo ID or a MySeattleColleges account is required for access.

In addition, there are approximately 40 computers available for use in the Seattle Central College Library.

Also refer to the Information Technology (IT) Help Desk.

Counseling Services

(206) 934-5407

[seattlecentral.edu/campus-life/](http://seattlecentral.edu/campus-life/student-support-and-services/counseling)

[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.

“As an international student it was easy to adapt and feel at ease at Seattle Central because of the great people.”

– Truegirl K.

Disability Services

Refer to Accessibility Resource Center.

First Year and Career Services

(206) 934-4068 | FYCS.Central@seattlecolleges.edu

seattlecentral.edu/campus-life/student-support-and-services/career-exploration-center

Student and Alum Job Board: seattlecolleges.edu/handshake

First Year and Career Services is dedicated to educating and supporting students as they explore career options, build confidence, and strengthen skills by offering holistic, culturally responsive career development and coaching to help students achieve their personal, academic, and professional goals. Services and resources offered include:

- Tools to explore career opportunities, interests, and academic pathways to get there.
- Resources for resume and cover letter writing skills, and interview preparation.
- Support with networking, job search methods, and scholarship resources.
- Information about First Year Experience programs, events, and support.
- **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.

Financial Aid

(206) 934-3844 | FinancialAid.Central@seattlecolleges.edu
seattlecentral.edu/financial-aid

Seattle Central College's Financial Aid Office works to support racial equity and to increase opportunities for student access to and success in higher education by helping students seek, obtain, and understand all financial resources available to them. The Financial Aid Office provides information on student aid eligibility, types of aid available, and policies and guidelines for federal, state and institutional programs. Financial aid staff can assist you in completing the Free Application for Federal Student Aid (FAFSA) and the Washington Application for State Financial Aid (WASFA) or answer any questions along the way.

Financial aid programs—including grants, loans, scholarships, and work-study—help eligible students cover educational expenses such as tuition, books, and other costs while they are enrolled.

See page 46 for more information about the financial aid process.

Funding Navigation Team

seattlecolleges.edu/funding-navigation-team

Get personalized support navigating your college funding options. Funding Navigators are available to help you understand what financial resources you may qualify for and guide you through the application process for financial aid, workforce education grant, scholarships and more. Co-located with the financial aid team on each campus, our team offers one-on-one assistance with FAFSA, WASFA, and other funding applications to help you take the next step toward affording college.

Information Central

BE1105 | (206) 934-4030

studentleadership.seattlecentral.edu/info-central

Info.Central@seattlecolleges.edu

Information Central is an information desk staffed by students. These Information Central Ambassadors:

- Provide an accessible and knowledgeable staff to answer questions
- Make referrals and direct inquiries to the appropriate offices
- Approve, post, and remove posters in designated campus areas
- Navigate students through basic IT related questions
- Support campus communications, student enrollment, and provide tours of campus.

Information Central Ambassadors strive to provide the highest possible service to students, staff, and the community. They are professionals who take the time to listen, investigate, and help others navigate college. They understand, as students and representatives of Seattle Central College, that Information Central is a place to share knowledge and participate in the learning process.

“It's been a long journey. I've learned so much about my field—it even inspired me to write a book.”

– Taylor R.

Information Technology (IT) Help Desk

Broadway Edison (BE) 3148

(206) 934-6333 | ithelp@seattlecolleges.edu

web: itservices.seattlecolleges.edu/it-help-desk

chat: direct.lc.chat/11900901/3

ticket request: helpdesk.seattlecolleges.edu

Need tech help? Reach out to our Help Desk for trouble-shooting and support.

- Enrolled students, as well as employees and staff, may opt to submit ticket requests or seek in-person help at one of the on-campus Helps Desks.
- Currently enrolled students may use chat, email, or phone options listed for each location.
- For problems related to your MySeattleColleges account, be prepared to show picture ID and provide ctcLink ID number.

International Programs

BE1113 | (206) 934-3893 | IntlCentral@seattlecolleges.edu

intl.seattlecolleges.edu

intl.seattlecolleges.edu/central

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 | library.central@seattlecolleges.edu

seattlecentral.edu/library

Health Education Center Library (206) 934-4041

Wood Technology Center Library (206) 934-2972

Services

Librarians provide research help, online tutorials, and research classes. Help is offered in person and via video meeting, email, phone, and 24/7 live chat. Online research guides cover search tools and sources recommended by librarians to get students started with assignments and projects.

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 support students in all areas of study. Collections include print and online books, periodicals, online research databases, reserve textbooks, and streaming video and music. Students can also access individual and group study spaces, network computers, printers, photocopiers, scanners, graphing calculators, and more.

Project Baldwin

206.934.6459 | pbscholars@seattlecolleges.edu

seattlecentral.edu/project-baldwin-central

Project Baldwin is a districtwide mentorship initiative to boost completion and transfer outcomes for underrepresented students, specifically for men of color attending any of Seattle Colleges' campuses. Project Baldwin is a collective of students, staff, and faculty who connect to empower each other by building community and brotherhood bonds.

Project Baldwin works toward these student-centered goals:

- Build relationships and brotherhood bonds
- Develop an educational and professional network
- Encourage and nurture educational and career aspirations
- Create a plan for achieving academic and career goals;
- Increase capacity to handle life's challenges with trauma-informed practices
- Increase self-confidence, mental health awareness, and leadership skills

Running Start Support Team

(206) 934-3820 | runningstart.central@seattlecolleges.edu

seattlecentral.edu/running-start

Students taking part in Running Start, a dual enrollment program, receive both high school and college credit, accelerating their progress through the education system. Advisors at each college are available to answer questions and help students with degree planning so they stay on track to meet both their high school graduation requirements as well as their college course requirements. For more information about Running Start, refer to page 41.

Seattle Promise Support Team

seattlecolleges.edu/promise/central-support-team

In addition to tuition and financial support, Seattle Promise provides participating students with guidance and assistance in making the transition to college and navigating the college experience. Support teams at each college consist of retention specialists, who answer questions, build connections, and direct students to appropriate student services. Seattle Promise scholars check in with their retention specialists each quarter to stay on track to attain their academic goals. (For more information about Seattle Promise, refer to page 11.)

Student Academic Services/Tutoring

Refer to Tutoring Services.

Student Supports and Programs

Broadway Campus BE3215

StudentSupport.central@seattlecolleges.edu

[seattlecentral.edu/campus-life/](http://seattlecentral.edu/campus-life/student-support-and-services/student-support)

[student-support-and-services/student-support](http://seattlecentral.edu/campus-life/student-support-and-services/student-support)

Childcare Assistance Support

Childcare Assistance Program offers funding, information, and referral resources to students desiring childcare assistance while attending school.

Emergency Funding Support

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.

Food and Stability Resources

The Food and Resource Pantry offers supplemental groceries, toiletries, and school supplies to currently enrolled students on a weekly basis. Students are welcome to ask questions about benefits access, community resources, and other strategies around decreasing expenses and increasing income as a student.

Re-Entry Support Program

Re-Entry Support Programs provides a welcoming, supportive, and responsive learning environment for all currently and formerly incarcerated students.

Also refer to Workforce and BFET Programs.

Testing Office

(206) 934-6344

seattlecentral.edu/testing

Most student seeking a degree or certificate of enrolling in most English or mathematics classes must take DSP placement tests prior to registration. DSP English and Math tests are available only online and help the student and advisor select appropriate classes. This office also offers TEAS, Person Vue / GED Exams and offer a variety of exam proctoring services for other institutions. Testing schedules and detailed descriptions are available online or by phone.

Transfer Center

(206) 934-4068

TransferCenter@seattlecolleges.edu

seattlecentral.edu/campus-life/college-transfer-and-study-abroad-center

Services in the College Transfer Center:

- Planning the steps to transfer
- Finding the right college for you
- Understanding the admissions process
- Guidance on applications
- Personal statement review

Refer to Advising Center for more information.

TRiO

(206) 934-3852

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
- Financial literacy

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 in Science or Associate in Arts) and;

Students who show a need for academic assistance and are highly motivated to graduate and pursue a bachelor's degree

Tutoring Services Student Academic Services/Tutoring

Learning Support Network and Tutoring

seattlecentral.edu/campus-life/student-support-and-services/learning-support-and-tutoring

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..

IT/BTM Tutoring

Information Technology & Business Technology Management tutoring offers:

- In-person and Zoom tutoring Monday thru Thursday
- Zoom tutoring Sunday
- Located in the SAM Learning Center

Also refer to TRiO.

The Umoja Scholars Program

**(206) 934-3139 | umojacommunity@seattlecolleges.edu
seattlecentral.edu/umoja-scholars-program**

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 Services

(206) 934-4491

va.fa.services@seattlecolleges.edu

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.

See page 49 for more information about financial assistance for veterans and military personnel.

Workforce and BFET Programs

(206) 934-3854

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 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

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. The gallery is named after former Dean of Humanities and Social Sciences, M. Rosetta Hunter. It hosts exhibits and activities that reflect and serve our multicultural student population. The gallery presents approximately nine exhibits throughout the academic year and one summer show. Many feature the work of Seattle Central students, staff, and graduates.

A highlight of the year is the annual Student Invitational, showcasing exceptional work from across disciplines. Open to all students enrolled in 3 or more credits during Spring Quarter, submissions are accepted on the first day of Spring Quarter, and the exhibition opening is typically held in conjunction with Unity Fair in late May.

Gallery hours are typically Monday–Thursday, 10 a.m. to 3 p.m., and we are usually open late for Capitol Hill Art Walk on the second Thursday of each month. Please check the website for current hours and upcoming exhibitions.

Bookstore (online)

seattlecentral.edu/bookstore

Our Seattle Colleges Online Bookstore serves North Seattle, Seattle Central, and South Seattle Colleges. It operates completely online. Visit the website to order textbooks and course materials. Campus-specific information and access to the bookstore website are available on each college's bookstore webpage.

The online bookstore simplifies the textbook process and offers a variety of physical and digital textbook formats. Students will find a personalized website experience when they log in with their student account. New, used, eBook, and rental textbook formats may be available, depending on each course.

Note: the former on-campus bookstores at North, Central, and South are closed.

“The community at Central really makes the school and the experience students have here. I'm extremely grateful to have been a part of it.”

– Daisy B.

Food and Dining

(206) 934-5427
culinary.seattlecentral.edu/restaurants
Open to the public.

The Buzz Pastry Case serves Caffé 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. Check the website for hours.

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. Check the website for hours.

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. See the website for current menus.

Restaurant reservations or private events: (206) 934-5427 or SeattleCulinary@seattlecolleges.edu.

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.

Housing

intl.seattlecolleges.edu/on-campus-housing

On-campus housing at The Studios on Broadway is available to students enrolled at any of the three Seattle Colleges. The apartment-style studios are located across the street from Seattle Central's main classroom building and provide shared housing for nearly 80 students. To live in the studios, you must be at least 17 years of age by the move-in date and responsible enough to live on your own.

All units come furnished with a bed, a desk, a chair, and clothing storage for each resident. Apartments feature high-speed internet and can be connected with phone or television service by request. Each unit has a main room to serve as a shared living space, as well as a sleeping area with a window. The studios include a kitchen with a stove and a refrigerator, a bathroom with a shower, and a storage area.

A meal plan is not included, but the studios are within walking distance of grocery stores and restaurants.

Recreation and Fitness

Charles H. Mitchell Student Activity Center (MAC) |
(206) 934-6315 | MAC.Central@seattlecolleges.edu
seattlecentral.edu/wp/mac
Please check website for current hours of operation

The Mitchell Activity Center (MAC) is a hub for student recreation, wellness, community, and fun. Located across the street from the BE building at 1718 Broadway, “the MAC” 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.

Safety and Security

BE 1108
Campus Security Office
(206) 934-5442 | emergencies call 911
seattlecentral.edu/about/administrative-services/campus-safety-and-security

Seattle Central College Campus Security 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 Campus Security at (206) 934-5442.

See page 59 for more information on personal safety.

Student Clubs

Refer to the Club and Activities Board listed on this page.

“I’ll always remember how Central helped me find my path. As a mom and first-generation student, I pushed through challenges and found purpose. Now I’m ready to transfer to a bachelor’s program and keep growing.”

– Sumaya A.

Student Government

Associated Student Council (ASC)

(206) 934-4057 | SAC 356
studentleadership.seattlecentral.edu/student-boards/associated-student-council-asc

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 student endorsements, and up to three associates who work on specific projects.

Student Leadership Division

(206) 934-6924 SAC 350 (above the bookstore)
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.

Club and Activities Board (CAB)

(206) 934-6335 | SAC 355
studentleadership.seattlecentral.edu/student-clubs

The Club and 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 Website and Publications (SWAP) Team

(206) 934-0943 | BE 4108
seattlecollegian.com

The Student Website and Publications (SWAP) Team is responsible for presenting the voice of students on campus through online publications, such as 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.

Also refer to Student Government: Associated Student Council (ASC).

Theatres

theatres.seattlecentral.edu

Broadway Performance Hall

1625 Broadway Avenue

(just south of the Broadway Edison Building)

The Broadway Performance Hall hosts presentations by faculty, staff, and invited guests as well as student-run performances and events. In addition, arts organizations, community groups, traveling performers, and others host their events here.

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.

Transportation and Parking

Seattle Central Transportation Services | BE 1143

(206) 934-3202 (Parking)

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.

Seattle Central College Alumni Association

alumni.central@seattlecolleges.edu

seattlecentral.edu/alumni

If you finished a class, program, certificate, or a degree Association. The goal of the Alumni Association is to provide graduates and current students with a strong network of Seattle Central College friends and colleagues, and to offer the opportunity for you to stay connected with college. Join today online at seattlecentral.edu/alumni.

There are numerous ways to stay involved with Seattle Central after you have finished your last class.

- Share your success story to be featured in one of our Alumni Spotlights. Submit your story online at go.seattlecolleges.edu/form/central-story.
- Volunteer or mentor.
- Attend one of our Community Events.
- Become a social media ambassador by tagging us on Meta or using the hashtag #seattlecentralcollege.
- Connect with the Seattle Colleges Foundation (foundation.seattlecolleges.edu).
- Visit one of our Seattle Culinary Academy restaurants and enjoy a show on campus at one of our theatres.
- Get your caffeine fix and choose from a variety of pastries or specialty bread at the Buzz Café.
- Take an Alumni Tour and visit some of your favorite professors or instructors. For tours, contact us at alumni.central@seattlecolleges.edu.



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 in 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.

“ I will remember the community and how enthusiastic all the staff and teachers were for me to learn and grow. ”
– Oskar C.

Associate in Science Degree Learning Outcomes

Seattle Central College students completing the AS 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 (AA-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 in Applied Science Degree (AAS)

Business, Information Technologies & Creative Arts Division

The Apparel Design & Development program prepares students for a rewarding, high-demand career in the world of clothing design and manufacturing. Learn to create the next generation of cutting-edge fashion, using industry-standard equipment and design philosophies drawn from real-world talent, as well as how to develop and showcase a strong portfolio of your work. Students will complete 95 credits of coursework over six quarters, earning an Associate in Applied Science degree in Apparel Design & Development. Completing this program grants graduates the skills needed to thrive as part of a design team or on a freelance basis, and prepares them for quick job placement in a competitive field.

PREREQUISITES

APPRL 096	AD&D Skill Development 1	2
APPRL 098	AD&D Skill Development 2	2
APPRL 099	AD&D Skill Development Intensive	6
This course can be substituted in place of taking all of the following three courses:		
APPRL 096	AD&D Skill Development 1 (2)	
APPRL 098	AD&D Skill Development 2 (2)	
APPRL 100	AD&D Skill Development 3 (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 (AA-DTA)

This two-year pathway is designed for students who wish to obtain an Associate in 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 (AA-DTA)

This two-year pathway is designed for students that wish to obtain an Associate in 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.

Design Associate in Applied Science Degree (AAS)

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	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	254	Interactive IV.....	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 (AA-DTA)

This two-year pathway is designed for students who wish to obtain an Associate in 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 (AA-DTA)

This two-year pathway is designed for students who wish to obtain an Associate in 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 in Applied Science Degree (AAS)

Business, Information Technologies & Creative Arts Division

Visual Media is all about using image—both still and moving—to create messages that connect with people. Learn the artistic theory, skills, and business behind effective digital storytelling, using modern photo and video technologies, and earn your Associate in Applied Arts (AAS) degree in Visual Media (formerly Commercial Photography) at Seattle Central College.

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

Business (AB-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

The Advanced Facebook Digital Marketing Certificate is a 25-credit (5 course) digital marketing certificate that includes the three base Facebook digital marketing certificate courses. Students receive a Facebook branded certificate upon completion.

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

“Coming to this school and learning to manage my life on my own has been an eye-opening experience for me.”

– Chingun C.

Business Technology Management Associate in Applied Science Degree (AAS)

Business, Information Technologies & Creative Arts Division

The BTM Associate in Applied Science (AAS) degree is a two-year degree providing in-depth knowledge for organizing, managing, and automating information using current business, applied IT, and communications skills.

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 in Applied Science–Transfer Degree (AAS-T)

Business, Information Technologies & Creative Arts Division

Business Technology Management is an interdisciplinary program that combines business, applied IT, management, and communication skills to manage and automate information flows within and across organizations. Emphasizing project-based learning, program foundations include business cloud computing, data analytics, digital marketing, entrepreneurship, customer relationship management & supervision. The program offers several short-term certificates and degree options in these areas while preparing students for employment in a wide range of industry specialties requiring these skills.

The AAS-T option allows students a pathway to receiving a Bachelor of Applied Science (BAS) degree from several disciplines including accounting, business, international business, property management, building science and others.

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

Business, Information Technologies & Creative Arts Division

BTM One Year Certificate: A 45-credit certificate providing business, management and applied IT fundamentals essential to business technology management. This certificate is the entry pathway to the BTM AAS and AAS-T degree options and includes an internship requirement.

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

Entrepreneurship Certificate

Business, Information Technologies & Creative Arts Division

A 20-credit certificate for students who are interested in applying the ideas and skills of successful entrepreneurs to a variety of organization structures. These include starting a new business, working at a start-up, or implementing new initiatives as an “intrapreneur” in an existing organization (e.g. corporate, government, non-profit). These business modeling, marketing, and finance entrepreneurial skills course credits may be applied to the BTM AAS or AAS-T degrees.

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

A 15-credit (3 course) digital marketing certificate that includes a Facebook branded certificate upon completion. The certificate is for students interested in digital marketing careers and small business owners. Topics covered in detail include digital marketing foundations and strategy, social media marketing, and marketing analytics. This certificate is a pathway to the Advanced Facebook Digital Marketing Certificate.

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

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 in Applied Science Degree (AAS)

Seattle Culinary Academy Hospitality & Culinary Arts Division

The Culinary Arts program gives students a strong and well-rounded foundation of culinary skills, with emphasis on classic and modern cooking techniques and a unique focus on sustainable food sourcing practices. Learn to prepare tantalizing appetizers, sauces, breads, entrees and more, and gain real-world experience planning menus and arranging meals in our student-run restaurants. Students will complete 90 credits of coursework, earning an Associate in Applied Science degree in Culinary Arts. Completing this program prepares graduates for careers as professional chefs, restaurateurs, event planners and more.

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: Specialty Desserts & Breads Associate in Applied Science Degree (AAS)

Seattle Culinary Academy Hospitality & Culinary Arts Division

The Specialty Breads & Desserts program trains students in both the art and science of baking and other food preparation methods. Learn to create artisanal breads, pastries, confections and chocolates, and explore a variety of preservation and fermentation techniques to develop cheeses and more. Students will complete 90 credits of coursework, earning an Associate in Applied Science degree in Specialty Desserts & Breads. Completing this program prepares graduates for careers in restaurants, bakeries, catering and beyond.

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

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 cake decorating. Learn chocolate work with demonstrations on pulled and blown sugar, intricate decoration, and showpieces. 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 four-quarter certificate program. Students may enter the program Fall, Winter or Spring Quarters. The Associate in Applied Science (AAS) degree can be earned with the completion of 15 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 AAS degree.

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 Analysis	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
TOTAL PROGRAM CREDITS			75

“ I will most remember the friends I made and the experiences I've had at the Seattle Culinary Academy as a budding pastry chef. ”

– Calvin J.





EDUCATION AND HUMAN SERVICES

Applied Behavioral Science Bachelor of Applied Science Degree (BAS)

Applied Behavioral Science Department

Seattle Central College offers a Bachelor of Applied Science (BAS) degree in Applied Behavioral Science that is designed to provide you with the education you need to become a leader in the human services field. This program started in 2009, as the only one of its kind in the region, providing a pathway to a four-year degree and career advancement for students with associate degrees in Social and Human Services, Early Childhood and Family Studies, Chemical Dependency, and other related programs, as well as, General Transfer degrees (e.g.: AA/DTA).

The program is designed for people who want to work in human services fields such as, but not limited to: Social Services, Mental Health/Counseling, Chemical Dependency and Rehabilitation, Youth and Family Support Services, Early Childhood Education/Child Welfare, Prevention and Early Intervention, Community Development and Housing, Policy and Advocacy, and many more!

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

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-Occurring 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 in Applied Science – Transfer Degree (AAS-T)

Health and Human Services Division**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

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**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**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

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

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 in Applied Science–Transfer Degree (AAS-T)

Social & Human Services & Child & Family Studies

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

TOTAL PROGRAM CREDITS 90

Social Work (AA-DTA)

This two-year pathway is designed for students who wish to complete an Associate in 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.

Teacher Education Bachelor of Applied Science Degree (BAS)

Health and Human Services Division

Completion of AAS-T in Education, Early Childhood Education or other approved professional technical program such as para-education

GENERAL EDUCATION COURSES

Courses in this category are taken as part of the Education AAS-T degree.

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)

Courses in this category are taken as part of the Education AAS-T degree.

Visual, Literary and Performing Arts 10

Recommended course(s):

ART 101 - Introduction to Design (5) and
HUM 105 - Intercultural Communication (5)

CMST& course 5

Recommended course(s):

CMST& 220 - Public Speaking (5)

INDIVIDUALS, CULTURES AND SOCIETY (ICS)

Courses in this category are taken as part of the Education AAS-T degree.

AME	201	Diversity and Social Justice	5
PSYC&	100	General Psychology	5

NATURAL WORLD (NW)

Courses in this category are taken as part of the Education AAS-T degree.

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

Courses in this category are taken as part of the Education AAS-T degree.

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.

TECHNICAL SPECIALTY COURSES

EDUC 300 Orientation to ARE in BAS Ed Cert 1

EDUC 302 Practicum I..... 1

EDUC 304 Practicum II 1

EDUC 306 Practicum III..... 1

EDUC 308 Practicum VI 1

EDUC 310 Child Development 5

EDUC 340 Assessment 5

EDUC 346 English Language Assessment 3

EDUC 348 Teaching with Technology 2

EDUC 354 Reading Methods 5

EDUC 380 Understanding Learning..... 5

EDUC 400 SEL & Classroom Management..... 5

EDUC 404 Curriculum Planning and Instruction 5

EDUC 420 Special Education Methods..... 5

EDUC 428 Language & Culture 5

EDUC 430 Advanced Language & Literacy/ELL..... 5

EDUC 433 Mathematics I..... 5

EDUC 439 Mathematics II 5

EDUC 450 Social & Legal Foundations of Education 5

EDUC 470 Teacher Residency I 5

EDUC 480 Teacher Residency II 10

EDUC 490 Teacher Residency III 5

TOTAL PROGRAM CREDITS

180





HEALTH AND MEDICAL

Allied Health Associate in Applied Science – Transfer Degree (AAS-T)

Allied Health, Business, Languages & Cultures Division

The Associate in Applied Science - Transfer (AAS-T) degree in Allied Health helps students advance their education and career training in the healthcare field.

This degree is for many types of students: students who have already earned a healthcare certificate and want career advancement; students who are interested in starting a career in healthcare through a dual degree program; and students who are planning to pursue a Bachelor of Applied Science (BAS) degree program in Community Health & Education or Healthcare Services Management.

Students will develop a rounded education in the health sciences while learning to deliver healthcare as part of a team and improving communication and patient advocacy skills.

Students will complete 90 credits of coursework, earning an Associate in Applied Science - Transfer (AAS-T) degree in Allied Health. Completing this program prepares graduates for quick entry into a variety of high-demand healthcare careers or to transfer into an applied bachelor's degree (BAS) program to continue their education.

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			
This option is only for those students currently enrolled in the Respiratory Care program.			
Dental Hygiene (DHY) course			
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			
Following can be substituted:			
Individuals, Cultures and Societies course (5)			
or Natural World course (5)			
Individual, Cultures, and Societies			
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 Chemistry (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 VLPAs will count toward AAS-T degree

TOTAL PROGRAM CREDITS	90

Allied Health: Community Health and Education Bachelor of Applied Science Degree (BAS)

Allied Health Division

The Community Health and Education program prepares students for healthcare and advocacy careers in a variety of settings, including hospitals, clinics, colleges and non-profits. Learn to evaluate local healthcare needs, assess the factors that impact healthcare delivery and design programs to improve community health. Students will complete 180 credits of coursework (including credits already applied towards a relevant associate degree), earning a Bachelor of Applied Science in Allied Health. Completing this program prepares graduates for quick entry into a high-demand and rewarding career field, or to pursue graduate healthcare and education degrees.

This program can help prepare graduates to apply to the MEDEX Physician Assistant (PA) program. Email for details.

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
- MATH& 146 must be taken by or during the first quarter

TECHNICAL SPECIALTY COURSES

The following courses must be completed with a grade of at least 2.5:

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

		Natural World, the	5

Natural World requirement

		Humanities course	5

Visual, Literary, and Performing Arts requirement

		Social Science course	10

Individuals, Cultures, and Societies requirement

		Humanities, Social Science or Natural Science course	15

Including Math or Computer Science course

		Natural World - Lab Science	5

Natural World Lab requirement

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.

Allied Health: Dental Hygiene Bachelor of Applied Science Degree (BAS)

Allied Health Division

The Dental Hygiene program prepares students for a rewarding, high-demand career as a dental hygienist. Develop the applied knowledge and technical expertise needed to excel in the healthcare industry, and gain hands-on experience with professional equipment as you care for patients in the Dental Education Clinic under instructor supervision. Students will complete 195 credits of coursework, earning a Bachelor of Applied Science in Allied Health: Dental Hygiene track. Completing this program prepares graduates for quick job placement in a competitive field and qualifies them for Washington state Registered Dental Hygienist licensure examinations.

GENERAL EDUCATION COURSES (AAS-T)

These are prerequisite courses

BIOL& 160 General Biology W/Lab 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 prerequisites courses (95 credits total), Allied Health Associate in Applied Science-T Degree (AAS-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 (BAS):

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 (BAS)

Allied Health Division

The Healthcare Services Management program prepares students for critical roles in planning, coordinating and supervising healthcare delivery in a variety of professional settings. Learn to evaluate the factors that shape healthcare systems, manage a health services workplace efficiently and analyze relevant laws and regulations to ensure compliance. Students will complete 180 credits of coursework, earning a Bachelor of Applied Science degree in Allied Health. Completing this program prepares graduates for rewarding work in a competitive field, with the knowledge and skills needed to advance in this in-demand career.

PREREQUISITES

- A minimum of one year full-time healthcare work experience (or the equivalent) within the last five 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 (BAS)

Allied Health Division

Seattle Central College's Respiratory Care track is a full-time, face-to-face, rigorous bachelor's degree program that combines classroom training with practical, hands-on experience.

This program will prepare you to become a member of a dedicated healthcare team that treats patients with cardiopulmonary disorders.

How long is the program?

After you have completed the pre-requisites (about two years of work), the Respiratory Care track is 1 part-time quarter plus seven full-time quarters (two more years) after which you graduate with a Bachelor of Applied Science and are ready to apply for a license as a Respiratory Therapist.

This program meets the educational requirements for preparing students to take the national certification exams administered by the National Board for Respiratory Care (nbrcc.org). Students who complete the program and achieve the appropriate credentials can apply for licensure anywhere in the United States where a license is required. A list of contacts for license by state is available at <https://www.aarc.org/advocacy/state-society-resources/state-licensure-contacts>.

PREREQUISITES

Prerequisite credits (60 total) are included in the total credits required for degree.

Completed as part of Allied Health AAS-T degree

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)

Social Science Elective		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 in Applied Science-T Degree (AAS-T) can be awarded.

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

BUS 100	Fundamentals of Supervision	3
Following can be substituted:		
BUS 103	Personnel / Human Resource Management	(3)

TECHNICAL SPECIALTY COURSES

The following courses required for Bachelor of Applied Science Degree (BAS):

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

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

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 in Washington State 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.

PROGRAM REQUIREMENTS

- Attend a SCC EFDA Program Information Session
- Apply to Seattle Colleges
- Complete the SCC directed self-placement for English and Math readiness
- Contact a Seattle Central College Academic advisor to verify that you are program eligible.
- Complete the online EFDA Program Application

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	113	Dental Coronal Anatomy Lab	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

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 Medical Assisting program does not accept advanced placement, transfer credit, or credit for experiential learning.

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**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 Certified 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.

PROGRAM ENTRANCE REQUIREMENTS

Eligibility for the following course(s) is required:

ENGL	098	Integrated Reading and Writing II	10
MATH	098	Intermediate Algebra.....	5
Following can be substituted: DSP			

TECHNICAL SPECIALTY COURSES

NURS	108	Nursing Assistant - Lab Skills and Concepts ...	5.5
Total Required Credits: 4 - 5.5			
NURS	109	Nursing Assistant Clinical	1.5
NURS	110	Nursing Assistant BLS Certification	1
TOTAL PROGRAM CREDITS			13 - 16

Nursing: R.N. Associate in Applied Science –Transfer Degree (AAS-T)

Nursing

The Associate in Nursing DTA/MRP degree prepares students for the challenging career of being a registered nurse. The program is approved by the Washington State Nursing Care Quality Assurance Commission, and is nationally accredited by the Accreditation Commission for Education in Nursing. The program's courses include nursing theory, labs and clinical practice at regional hospitals and facilities. Applications are accepted in spring quarter for fall admission and fall quarter for winter admission. See the Nursing Program website for specific information on prerequisites, corequisites, application deadlines and admission procedures. Graduates are awarded an Associate in Nursing 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.

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
TOTAL PROGRAM CREDITS			108

Nutrition Science (AA-DTA)

This two-year pathway is designed for students who wish to complete an Associate in 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 (AA)

This two-year program is designed for students who wish to complete an Associate in 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**

After completing this two-quarter program, which includes a 400-hour practicum, students are eligible to sit for the CRCST certification exam. Upon passage of the CRCST, students earn the title of registered Sterile Processing/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 in Applied Science–Transfer Degree (AAS-T)**Allied Health, Business, Languages & Cultures Division**

This four-quarter program prepares students to work 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 basic science, anatomy and physiology, medical terminology, surgical functions in the operating room, surgical instrumentation and equipment, and aseptic techniques, with the goal of preparing entry-level surgical technologists who are competent in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains to enter the profession. 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.

The application for Surg Tech opens in December; The program begins summer quarter. Applicants must complete prerequisites by the end of winter quarter to be eligible for admission.

Occupational risk: Surgical technologists have one of the highest rates of injuries and illnesses of all occupations. Injuries may occur due to incidents such as slips, falls, and overexertion. Workers reduce the risk of injury by following safety procedures and practices, such as using proper lifting technique and wearing shoes with slip-resistant soles (BLS, 2024).

PROGRAM ENTRANCE REQUIREMENTS

High School Diploma or GED equivalent in the US

All prerequisites must be completed with a 2.0 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.

AHE 168 Medical Terminology 5
BIOL 128 Survey of Human Anatomy & Physiology 5

Following can be substituted:

BIOL& 241 - Human Anatomy and Physiology I
w/ Lab (5) AND BIOL& 242 - Human Anatomy
and Physiology II w/ Lab (5)

ENGL& 101 English Composition I 5

HUM 105 Intercultural 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)

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 General Psychology 5

Following can be substituted:

PHYS& 200- Lifespan Psychology

TOTAL PROGRAM CREDITS

95





SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH

Aerospace Engineering AS Transfer, Track 2

This pathway is designed for students who wish to complete an Associate in 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 AS Transfer, Track 2

This pathway is designed for students who wish to complete an Associate in 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 (AS Track 1)

This two-year pathway is designed for students who wish to complete an Associate in 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 at Seattle Colleges.

Chemistry (AS Track 1)

This two-year pathway is designed for students who wish to complete an Associate in 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.

Civil & Environmental Engineering AS Transfer, Track 2 (PHST2AS)

This pathway is designed for students who wish to complete an Associate in 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

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
TOTAL PROGRAM CREDITS				15

“I'll remember the time I spent in the chemistry lab and the new friends I made in my classes.”

– James F.

Computer Science ACS DTA/MRP

Computer science (CS) is a dynamic field that allows you to combine creativity with skills in communication, mathematics, and logic. This degree will provide you with the skills to quickly adjust to the rapidly changing computer culture over the course of your career. During your studies, much of your learning will occur while actively working on problems in class, during tutorials, and in the laboratory. Seattle and the Puget Sound areas are a prominent national and international technology hub, with major computer corporations such as Microsoft and Amazon based in this area. Computer science programs are competitive, and this pathway intends to provide students with the needed information to optimize their coursework to meet the direct transfer agreement and prepare for computer science and related majors at universities and colleges in Washington.

Earth Sciences (AS Track 1)

This two-year pathway is designed for students who wish to complete an Associate in 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 in 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 AS Transfer, Track 2 (PHST2AS)

This pathway is designed for students who wish to complete an Associate in 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 (AS Track 1)

This program is designed for students who wish to complete an Associate in 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, policy advisers, and public health consultants. 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 (AS Track 1)

This two-year pathway is designed for students who wish to complete an Associate in 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 (AA Track 1)

This two-year pathway is designed for students who wish to complete an Associate in Arts - 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 (AS-Track 1)

This two-year pathway is designed for students who wish to complete an Associate in 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.

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 Certified Network Professional (CCNP) Short-Term Certificate

Business, Information Technologies & Creative Arts Division

TECHNICAL SPECIALTY COURSES

NTI	340	Software Defined Networking 1	5
NTI	350	Software Defined Networking 2	5
NTI	360	Software Defined Networking 3	5

TOTAL PROGRAM CREDITS 15

Information Technology: CISCO Specialist I Certificate

Information Technology Programs

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: CISCO Specialist II Short-Term Certificate

Information Technology Programs

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

TOTAL PROGRAM CREDITS 16-18

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

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

The certificate in Health Information Technology (Health IT) will prepare you for a career as an IT professional in a medical center or hospital setting. Learn foundational IT skills, gain exposure to the industry standard electronic health record system, and build essential communication and customer service skills. You'll gain access to the many career options within the Health IT field, from Health IT engineer to trainer, manager, and beyond.

TECHNICAL SPECIALTY COURSES

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: Linux Short-Term Certificate

Business, Information Technologies & Creative Arts Division

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

Information Technology: Network Design and Administration Associate in Applied Science –Transfer Degree (AAS-T)

Information Technology Programs

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: 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			
TOTAL PROGRAM CREDITS			98

Information Technology: Network Design and Administration Certificate

Information Technology Programs**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: 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

TOTAL PROGRAM CREDITS 68

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 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

TOTAL PROGRAM CREDITS 40

Information Technology: Networking Bachelor of Applied Science Degree (BAS)

Information Technology Programs

Associate in Applied Science-T Degree (AAS-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
· 10 credits of English (e.g. ENGL& 101 and ENGL& 102); · 5 credits of Visual, Literary, and Performing Arts [VLP] (e.g. HUM 105); · 5 credits of Quantitative/Symbolic Reasoning [Q/SR] (e.g. MATH& 146); · 5 credits of Individual, Cultures, and Societies [ICS] (e.g. PSYC& 100); · 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

TOTAL PROGRAM CREDITS 180



Information Technology: Programming and IT Support Associate in Applied Science –Transfer Degree (AAS-T)

Information Technology Programs

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: 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

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: 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

OPTION D: HEALTHCARE INFORMATION TECHNOLOGY

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 in Applied Science – Transfer Degree (AAS-T)

Information Technology Programs**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			
Suggested course: HUM 105 Intercultural Communication			
Individual, Cultures, and Societies			
Natural World, the			
TOTAL PROGRAM CREDITS 92			

Information Technology: Software Development Certificate

Information Technology Programs

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

TOTAL PROGRAM CREDITS 62

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

TOTAL PROGRAM CREDITS 47

“I’ll remember the tutors who helped me
earn my web development certification.
Also, the staff at Central is the best.”

– William A.

Information Technology: Web Design Associate in Applied Science–Transfer Degree (AAS-T)

Information Technology Programs

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		
Suggested Course: HUM 105		
Intercultural Communication		
Individual, Cultures, and Societies		
Natural World, the		
TOTAL PROGRAM CREDITS		
91		



Information Technology: Web Design Certificate

Information Technology Programs

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 in Applied Science–Transfer Degree (AAS-T)

Information Technology Programs

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

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 in Applied Science–Transfer Degree (AAS-T)

Information Technology Programs

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

Materials Science AS Transfer, Track 2 (PHST2AS)

This pathway is designed for students who wish to complete an Associate in 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.

Math (AS Track 2)

This two-year pathway is designed for students who wish to complete an Associate in 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 AS Transfer, Track 2 (PHST2AS)

This pathway is designed for students who wish to complete an Associate in 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 (AS Track 2)

This two-year pathway is designed for students who wish to complete an Associate in 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 (MDT) program is a US Coast Guard-approved program that combines practical experience and courses in nautical science, computation, communications and human relations. Emphasis is placed on the theory, design, operation and maintenance of deck equipment and applied navigation skills. During the second and third quarters, students gain shipboard experience aboard the college's training vessels. The academic program is followed by a 90-day at-sea internship on a commercial vessel.

Each graduate who successfully completes the 63.5 credit program receives a certificate that the Coast Guard has approved in lieu of the written and practical examination requirements for national endorsement as an Able Seaman and Lifeboatman, as well as the practical requirements for STCW endorsement as a Rating Forming Part of a Navigational Watch (RFPNW). In addition, graduates receive a total of 240 days of sea time credited toward endorsement as an Able Seaman-Special (AB-Special) or credit for one-third of the sea service requirements of any other Able Seaman endorsement.

Note: Students must complete a Coast Guard-approved STCW Basic Training course prior to the at-sea internship.

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 (MET) program is a US Coast Guard-approved program that combines practical experience and courses in engineering, computation, communications and human relations. Emphasis is placed on the theory, design, operation and maintenance of marine propulsion plants and equipment. During the second and third quarters, students gain shipboard experience aboard the college's training vessels. The academic program is followed by a 90-day at-sea internship on a commercial vessel.

Each graduate who successfully completes the 72.5-credit program receives a certificate that the Coast Guard has approved in lieu of the written examination and sea service requirements for national endorsement as a Qualified Member of the Engineering Department (QMED): Fireman/Watertender/Oiler, as well as the practical requirements for STCW endorsement as a Rating Forming Part of an Engineering Watch (RFPEW).

Note: Students must complete a Coast Guard-approved STCW Basic Training course prior to the at-sea internship.

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 not open to the public at this time. Call WTC Registration at (206) 934.5460.

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 in Applied Science Degree (AAS)

2310 South Lane

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 in Applied Science Degree (AAS)

2310 South Lane

The Carpentry program prepares students for employment in residential and light commercial construction trades.

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

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 (AA-DTA)

This two-year pathway is designed for students who wish to complete an Associate in 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 (AA-DTA)

This two-year pathway is designed for students who wish to complete an Associate in 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 (AA-DTA)

This two-year pathway is designed for students who wish to complete an Associate in 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, 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.

Ethnic Studies (AA-DTA)

This two-year pathway is designed for students who wish to complete an Associate in 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 (AA-DTA)

This two-year pathway is designed for students who wish to complete an Associate in 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 (AA-DTA)

This two-year program is designed for students who wish to complete an Associate in 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 (AA-DTA)

This two-year pathway is designed for students who wish to complete an Associate in 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 (AA-DTA)

This two-year pathway is designed for students who wish to complete an Associate in 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 (AA-DTA)

This two-year pathway is designed for students who wish to complete an Associate in 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 (AA-DTA)

This two-year program is designed for students who wish to complete an Associate in 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 (AA-DTA)

This two-year pathway is designed for students who wish to complete an Associate in 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 (AA-DTA)

This two-year pathway is designed for students who wish to complete an Associate in 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 (AA-DTA)

This two-year pathway is designed for students who wish to complete an Associate in 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.

World Languages (AA-DTA)

This two-year pathway is designed for students who wish to complete an Associate in 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

SOUTH

166

About

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.



Getting Started at South

Admissions	(206) 934-7943
Financial Aid	(206) 934-5317
Registration	(206) 934-7938
TDD	(206) 934-5845

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

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

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.

“What I’ll remember most about South is the welcoming, supportive community that made me feel like I belonged.”

– Jesse Y.

Harbor Island Training Center

1731 13th Ave. SW
(206) 934-5394
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*

2023–2024 ANNUAL PROFILES

Annual Attendance 9,675

Special Enrollments

Distance Education 3,295

Running Start 507

International Students 141

Worker Retraining 345

Students**

Average Age 30

Ethnic Diversity 47%

Male/Female 59%/32%

With Bachelor or Higher Degrees 1%

Full-time/Part-time Attendance 40%/60%

Programs

College Transfer 23%

Career and Technical 50%

Basic Education 17%

Other 13%

Course Funding Sources

State-funded 82%

Contract-supported 17%

Student-supported 1%

* Source: Seattle College District Database

Student Services

AANAPISI

(206) 934-5221 | aanapisi.south@seattlecolleges.edu
southseattle.edu/aanapisi

South is one of the first institutions to be designated as an Asian American Native American Pacific Islander Serving Institution (AANAPISI). While our services are tailored for the AANAPISA communities, we welcome and serve all students.

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

Access, Community, and Opportunity Center

Jerry Brockey Center, Room JMB 146 | (206) 934-6455
southseattle.edu/student-life/aco-center

The Access, Community and Opportunity Center (ACO Center) promotes access, community, and opportunity to all and ensures just and equitable policies and practices. We carry on the goal of supporting the academic, professional, and personal success of students at South Seattle College. We strive to accomplish this goal through providing a supportive environment, resource and scholarship information, in addition to the services mentioned above. The ACO Center empowers student leaders to explore, celebrate, and educate the campus community about access, community, opportunity and social justice.

Current hours of operation are Monday through Thursday, 10 a.m. to 4:30 p.m.

Services provided include:

- Welcoming and Relaxed Environment
- Computer Access and Printer
- Events and Initiatives Promoting Social Justice
- Coffee, Tea, and Snacks
- About the ACO Center

“ I will remember how much teachers cared about students and wanted them to succeed. I had such great teachers who inspired me to do well and further pursue my education. ”

– Amber H.

Access Services

(206) 934-5137 (voice)
 TTY 1-800-833-6384 or 711 for Washington State relay service
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.

Advising Center

(206) 934-5387 | advisorsouth@seattlecolleges.edu
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.



Career Services

WorkSource Career Center

(206) 934-5304 | worksource@seattlecolleges.edu

southseattle.edu/worksource

Student and Alum Job Board: seattlecolleges.edu/handshake

South Seattle College partners with WorkSource to provide students with more opportunities and resources for employment services for job seekers. 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.

Class Schedule – Quarterly

(206) 934-7938

southseattle.edu/class-schedule

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 the class schedule webpage.

Computer Labs

Robert Smith Building RSB 16

(206) 934-5844

website: itservices.seattlecolleges.edu/computer-labs-wifi

remote access: remoteaccess.labstats.com/seattle-south

The Computer Lab is open to all currently enrolled South Seattle College students and has PC computers with internet connectivity. Printing is available at minimal cost. A ctcLink ID number with photo ID or a MySeattleColleges account is required for access.

Visit the Computer Lab in RSB016 for more information. This lab features 3 computers with a broad assortment of software available for student use, as well as access to black-and-white printing at minimal cost.

In addition, there are approximately 30 computers available for use in the South Seattle College Library.

Also refer to the Information Technology (IT) Help Desk.

Counseling Services

(206) 934-6409

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.

Disability Services

Refer to Access Services.

Financial Aid

(206) 934-5317 | financialsouth@seattlecolleges.edu

southseattle.edu/financial-aid

The Financial Aid Office at South Seattle College works to support racial equity and to increase opportunities for student access to and success in higher education by helping them seek, obtain, and understand all financial resources available to them. The Financial Aid Office provides information on student aid eligibility, types of aid available, and policies and guidelines for federal, state, and institutional programs. Financial aid staff can assist you in completing the Free Application for Federal Student Aid (FAFSA) and the Washington Application for State Financial Aid (WASFA) or answer any questions along the way.

Financial aid programs—including grants, loans, scholarships, and work-study—help eligible students cover educational expenses such as tuition, books, and other costs while they are enrolled.

See page 46 for more information about the financial aid process.

Funding Navigation Team

seattlecolleges.edu/funding-navigation-team

Get personalized support navigating your college funding options. Funding Navigators are available to help you understand what financial resources you may qualify for and guide you through the application process for financial aid, workforce education grant, scholarships and more. Co-located with the financial aid team on each campus, our team offers one-on-one assistance with FAFSA, WASFA, and other funding applications to help you take the next step toward affording college.

Information Desk

(206) 934-5300 | infosouth@seattlecolleges.edu
Robert Smith Building Lobby

The Info Desk serves as a central hub for visitors, as well as current and prospective students, providing assistance with campus navigation, referrals to college departments, and general support. We strive to create a welcoming environment by promoting student services, campus resources, and engagement opportunities.

Enrolled students can obtain their student ID card at the Info Desk. This ID is used on campus for library checkouts, access to computer labs, and entry to the Wellness Center. Additionally, your student ID may qualify you for discounts at local businesses, restaurants, and other venues.

Information Technology (IT) Help Desk

Robert Smith Building RSB 16
(206) 934-5844 | ithelp@seattlecolleges.edu
web: itservices.seattlecolleges.edu/it-help-desk
chat: direct.lc.chat/11900901/3
ticket request: helpdesk.seattlecolleges.edu

Need tech help? Reach out to our Help Desk for troubleshooting and support.

Enrolled students, as well as employees and staff, may opt to submit ticket requests or seek in-person help at one of the on-campus Help Desks.

Currently enrolled students may use chat, email, or phone options listed for each location.

For problems related to your MySeattleColleges account, be prepared to show picture ID and provide ctcLink ID number.

International Programs

(206) 934-5360 | IntlSouth@seattlecolleges.edu
intl.seattlecolleges.edu
intl.seattlecolleges.edu/south

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.

Library

(206) 934-6408 | south.library@seattlecolleges.edu
library.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.

Project Baldwin

206.934.6459 | pbscholars@seattlecolleges.edu
southseattle.edu/project-baldwin-south

Project Baldwin is a districtwide mentorship initiative to boost completion and transfer outcomes for underrepresented students, specifically for men of color attending any of Seattle Colleges' campuses. Project Baldwin is a collective of students, staff, and faculty who connect to empower each other by building community and brotherhood bonds.

Project Baldwin works toward these student-centered goals:

- Build relationships and brotherhood bonds
- Develop an educational and professional network
- Encourage and nurture educational and career aspirations
- Create a plan for achieving academic and career goals;
- Increase capacity to handle life's challenges with trauma-informed practices
- Increase self-confidence, mental health awareness, and leadership skills



Running Start Support Team

(206) 934-5387 | RunningStart.South@seattlecolleges.edu
southseattle.edu/running-start

Students taking part in Running Start, a dual enrollment program, receive both high school and college credit, accelerating their progress through the education system. Advisors at each college are available to answer questions and help students with degree planning so they stay on track to meet both their high school graduation requirements as well as their college course requirements.

For more information about Running Start, refer to page 41.

Seattle Promise Support Team

seattlecolleges.edu/promise/south-support-team

In addition to tuition and financial support, Seattle Promise provides participating students with guidance and assistance in making the transition to college and navigating the college experience. Support teams at each college consist of retention specialists, who answer questions, build connections, and direct students to appropriate student services. Seattle Promise scholars check in with their retention specialists each quarter to stay on track to attain their academic goals.

For more information about Seattle Promise, refer to page 11.

Student Support Programs/Basic Needs Benefits Navigation

South's Benefits Navigation provides students with assistance signing up for state assistance through DSHS's Washington Connection for Basic Food Assistance (SNAP/EBT), Temporary Assistance for Needy Families (TANF), and for medical benefits through Washington Health Plan Finder. Students can also seek assistance for finding access to additional community resources on-and off-campus around basic needs like food and housing insecurity.

Emergency Funding

southseattle.edu/emergency-funds

Emergency Funds are a one-time award to assist students with unforeseen expenses that may cause a student to withdraw from school. Our program's purpose is to support South Seattle College students through unexpected financial circumstances so that our students will be able to focus on graduating. Our process involves equity to each student's application. The intention of emergency funds is to help relieve some financial hardship that would prevent a student's academic success.

Food Pantry

Main campus: southseattle.edu/student-life/food-pantry
Georgetown campus: georgetown.southseattle.edu/food-pantry-georgetown-campus

Founded in 2017 by student leaders, South Seattle College's on-campus Food Pantry addresses food insecurity for our students. In addition to providing essential food, we also carry toiletry items and diapers for students in need.

Also refer to Workforce and BFET Programs.

Testing Support Services

southseattle.edu/student-assessment-services/testing-support-services

Proctoring for accommodated exams

South Seattle College's Instructional Support Services works in conjunction with Access Services to offer proctoring for accommodation-based exams in our Testing Center.

Consultation and administrative support for faculty and departments providing in-person exams for online courses

Testing Support Services offers consultation and administrative support to departments, divisions, and faculty. We provide assistance in implementing systems for in-person exams to students enrolled in online and hybrid courses, including research and practical suggestions to help create a version of such a system that works for particular needs.

Transfer Resources

(206) 934-5326
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.

“I'm grateful for a team of wonderful, incredible, skilled, experienced, and patient instructors.”

— Paul W.

TRiO – Student Success Services

(206) 934-6434

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.

Tutoring Services: The Tutoring Center

(206) 934-6650 Library Building - LIB 220

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, CLUE, and MAST) 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.

Business & Accounting Center

(206) 934-6650

Library Building - LIB 203

southseattle.edu/tutoring/business-accounting

Helps with students enrolled in Business, Accounting and Economics courses.

MAST: The Math and Science Tutoring Center

Library Building - LIB 203

(206) 934-5359

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

Library Building - LIB 215

(206) 934-6650

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.

CLUE: Center for Learning and Using English

Library Building - LIB 215

(206) 934-6650

southseattle.edu/tutoring/clue

The CLUE tutors assist all South students with any step of the writing process from brainstorming to paragraph development and organization to editing.

Veterans Services

(206) 934-5811 | ssccva@Seattlecolleges.edu

southseattle.edu/veteran-affairs-benefits

The Veterans Services Office at South Seattle College provides dedicated support to veterans, reservists, active-duty personnel, and eligible family members. We assist students in accessing their Federal Veterans Affairs (VA) Educational Benefits and GI Bill®, process Department of Defense (DOD) Tuition Assistance programs, and administer Washington State Veterans Tuition Waivers.

As a liaison between military veterans, dependents, reservists, guardsmen, and disabled veterans with service-connected disabilities and the Department of Veterans Affairs, our office helps those utilizing GI Bill® education benefits. We also process Washington State tuition waivers for eligible veterans and their dependents, manage DOD tuition assistance vouchers, assist with VA educational benefits paperwork, and provide guidance on VA regulations related to education benefits.

See page 49 for more information about financial assistance for veterans and military personnel.

Welcome Center

206-934-7943 | southwelcomecenter@seattlecolleges.edu
southseattle.edu/welcome-center

The Welcome Center is a joint team that serves prospective students with support in enrolling at South.

Staff members from New Student Services, Outreach, and TRIO Educational Opportunity Center work together to provide a number of services including:

- Exploring degree and certificate pathways
- One-to-one Enrollment Coaching Appointments for support with navigating the Steps to Enroll process
- Completing the admission application
- Understanding funding options (FAFSA, WASFA, Workforce)
- Navigating Veteran student enrollment

Note: TRIO EOC is funded entirely by the Department of Education.

Workforce and BFET Programs

(206) 934-5304 | workforcesouth@seattlecolleges.edu
southseattle.edu/workforce-education

The Workforce Education Office can help students 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.

WorkFirst

South 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, any two-year associates degree, or a high school completion or high school equivalency certificate. Students must also be receiving TANF benefits from DSHS and have a referral.

“The community at South, from faculty and classmates to supervisors, was very inclusive and supportive.”

— Michael M.

Basic Food Education & Training (BFET)

South is a Basic Food, Employment & Training (BFET) provider that provides tuition assistance and support for eligible students. To be eligible, students must be pursuing a career training certificate or degree and currently receiving DSHS federally-issued Basic Food Benefits (SNAP/EBT) and not participating in the BFET program with any other providers.

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 automotive, aviation, culinary, diesel mechanics, landscape horticulture, or wine studies. Students enrolled in any IBEST course or who are completing pre-requisites to enter a program in the medical field are also eligible. Students must be in one of these programs or approved pathways, be income eligible, 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

SOUTH

174

Campus Life

Bookstore (online)

southseattle.edu/bookstore

Our Seattle Colleges Online Bookstore serves North Seattle, Seattle Central, and South Seattle Colleges. It operates completely online. Visit the website to order textbooks and course materials. Campus-specific information and access to the bookstore website are available on each college's bookstore webpage.

The online bookstore simplifies the textbook process and offers a variety of physical and digital textbook formats. Students will find a personalized website experience when they log in with their student account. New, used, eBook, and rental textbook formats may be available, depending on each course.

Note: the former on-campus bookstores at North, Central, and South are closed.

Food and Dining

southseattle.edu/food-dining

Looking for a quick snack, drink, or meal-to-go? **The Culinary Convenience Store** in the Culinary Arts Building (CAB on the campus map) offers a weekly rotation of new items including fresh and packaged international cuisine. Freshly made packaged meals are also available.

In addition, Culinary Arts students prepare and serve award-winning cuisine in two dining rooms, also located in the Food Science Building.

The newly-remodeled **Alki Café** is located in the Culinary Arts Building at the center of campus (CAB on the campus map) and open to students, faculty, staff, and the public. Enjoy a locally roasted espresso with a fresh pastry or grab a sandwich to go with a bubble tea for lunch! We are making fresh offerings every day and growing with our community.

The Alhadeff Grill is open for reservations for groups of 10 or more. Join us for birthdays, book clubs, and other unique events! We offer a 3-course luncheon made by our culinary students for \$25 per person. Each menu is uniquely designed by the students in line with their curriculum. To make a reservation, please contact Alhadeff Grill at (206) 934.6735 or email AlhadeffGrill@seattlecolleges.edu.

Student Life also operates a food pantry, and vending machines are located in several campus locations.

“ I'll remember my supportive professors who took the time to know me as a student. ”

– Kriselle B.

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, Fitness, and Intramurals

Campus Recreation

(206) 934-6670

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.

Wellness Center

(206) 934-6471

southseattle.edu/wellness-center

The Wellness Center is designed to support your fitness, relaxation, and recreational needs. Work out in our weight and cardio rooms, play a game on our indoor and outdoor sports courts, or unwind in our TV lounge. Students, faculty, staff, and alumni are welcome. Lockers and showers are available. Student ID is required. Check the website for hours.



Safety and Security

Main Campus: (206) 235-0911 or ext. 5157

Georgetown Campus: (206) 354-6185

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

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: United Student Association (USA)

(206) 934-6752

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

The Office of Student Life in Room 134 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. These include 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

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

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 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

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, Counseling, Financial Aid, Workforce Education Funding, and Veteran Services.

“Every teacher I had pushed me to be a better person.”
– Arely T.

Learning Outcomes

SOUTH

176

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 in 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

“ I am honored to receive my diploma. It represents the recognition of my hard work, as well as the dedication of my parents to provide me with opportunities such as this. ”

– Yoselyn F.

Areas of Study



ARTS, DESIGN, AND GRAPHICS

2D Fine Arts–Painting & Drawing

This two-year program is designed for students that wish to obtain an Associate in 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.

3D Fine Arts–Ceramics & Sculpture

This two-year program is designed for students that wish to obtain an Associate in 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 (AA)

This two-year program is designed for students that wish to obtain an Associate in 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 (AA)

This two-year program is designed for students that wish to obtain an Associate in 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

Business Information Technology (Business Operations and Project Management Support) Certificate

Technical Education

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 (AA)

This pathway is designed to meet Associate in 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.

“ I'll always remember the inspiration that this campus has given me, in both it's students and professors.”

– Kiera D.





CULINARY, HOSPITALITY, AND WINE

Culinary & Pastry Arts Associate in Applied Science Degree (AAS)

Culinary Arts Department

The Culinary & Pastry Arts Associate in Applied Science (AAS) degree equips students with essential food production and management skills for diverse food service operations. Courses cover inventory control, production, operations analysis, purchasing, supervision, and personnel management.

Hands-on experience is gained through operating South's on-campus dining options, including the Culinary Convenience Store, dynamic food trucks, otters' den pop-ups, and the full-service Alhadeff Grill. Under the guidance of expert chef-instructors, students refine their craft in real-world settings, gaining the practical skills and industry insights needed to thrive in a professional setting.

Developed in collaboration with the hospitality industry, this innovative program provides realistic, career-ready training for immediate employment in the culinary 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.

REQUIREMENTS

To earn an AAS 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 & Pastry Arts Associate in Applied Science –Transfer Degree (AAS-T)

Culinary Arts Department

The Culinary & Pastry Arts Associate in Applied Science Transfer (AAS-T) degree equips students with essential food production and management skills for diverse food service operations. Courses cover inventory control, production, operations analysis, purchasing, supervision, and personnel management.

Hands-on experience is gained through operating South's on-campus dining options, including the Culinary Convenience Store, dynamic food trucks, otters' den pop-ups, and the full-service Alhadeff Grill. Under the guidance of expert chef-instructors, students refine their craft in real-world settings, gaining the practical skills and industry insights needed to thrive in a professional setting.

Developed in collaboration with the hospitality industry, this innovative program provides realistic, career-ready training for immediate employment in the culinary field.

This degree is designed for students to learn technical skills for employment 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 AAS-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 103.0

“ I'll remember most the depth and
breadth of hands-on learning. ”

– Jennifer J.

Culinary & Pastry Arts Certificate

Culinary Arts Department

The Culinary & Pastry Arts certificate program equips students with essential food production and management skills for diverse food service operations. Courses cover inventory control, production, operations analysis, purchasing, supervision, and personnel management.

Hands-on experience is gained through operating South's on-campus dining options, including the Culinary Convenience Store, dynamic food trucks, others' den pop-ups, and the full-service Alhadeff Grill. Under the guidance of expert chef-instructors, students refine their craft in real-world settings, gaining the practical skills and industry insights needed to thrive in a professional setting.

Developed in collaboration with the hospitality industry, this innovative program provides realistic, career-ready training for immediate employment in the culinary 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

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



Hospitality Management Bachelor of Applied Science Degree (BAS)

Technical Education

This program is designed for professionals that have graduated from a two-year associate degree program in areas such as accounting, business information technology, culinary and pastry arts, and other relevant areas of study. The degree program allows students to tailor their education in a way that meets their own personalized interests and career goals within the hospitality workplace experience. The hospitality industry is made up of many different types of businesses with a wide-range of career opportunities for graduates. Our alumni have found work within sporting arenas, convention centers, hotels, restaurants, catering companies, property management firms, and non-profit agencies to name a few.

This program is unique in its focus on providing applied management training. For more information on admission criteria and other questions, Information Sessions.

PROGRAM REQUIREMENTS

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

GENERAL EDUCATION COURSES

ENGL&	101	English Composition I	5
Visual, Literary and Performing Arts			
Individual, Cultures and Societies			
Communication			
Take ENGL& 102 OR any ENGL or CMST.			
Natural World - Lab Science			

“The culinary program was very rewarding. I appreciated the hands-on experience and the great teachers.”

– Archer P.

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)

College Transfer Elective 20

Applicable only for ICS, VLPA, and NW courses. PEC, transfer ACCT, and transfer BUS courses are also accepted.

Students should consider taking either of the following if they need statistics or pursuing masters:

BUS 210 - Bus & Econ Statistic (5)

MATH& 146 - Introduction to Stats (5)

See Advising for list of approved courses.

ELECTIVES

Any college level course above 100. Applicable courses include Professional & Technical Career Training courses with Evaluation Assessment, and any ICS, VLPA, and NW courses. PEC, ACCT, and BUS courses are also accepted.

Many of these courses will be the program requirements from the associate degree transferred into the BAS.

TOTAL PROGRAM CREDITS 180

Meatcutter Associate in Applied Science –Transfer Degree (AAS-T)

Georgetown Campus**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.

TOTAL PROGRAM CREDITS 90

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

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.



Wine Industry: Marketing and Sales of Food & Wine Associate in Applied Science Degree (AAS)

Culinary Arts Department

With the Marketing & Sales of Food & Wine Associate in 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.	4
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
WIN	150	Winery Compliance: Taxes and Legal Issues....	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
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	4
WIN	257	Advanced Food and Wine Pairing Dessert	4

RELATED INSTRUCTION

BUS	116	Business Math/Spreadsheets	5
Following can be substituted: Prof Tech Computation course See Advising for list of approved courses.			
ENGL	107	Applied Composition.....	5
Following can be substituted: Prof Tech Composition course See Advising for list of approved courses.			
SOC	253	Organizational Behavior	5
Following can be substituted: Prof Tech Human Relations course See Advising for list of approved courses.			
Elective		.....	5
See Advising for list of approved courses.			

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 in Applied Science –Transfer Degree (AAS-T)

Culinary Arts Department

With the Marketing & Sales of Food & Wine Associate in 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.	4
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
WIN	150	Winery Compliance: Taxes and Legal Issues.	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
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.	4
WIN	257	Advanced Food and Wine Pairing Dessert.	4

RELATED INSTRUCTION

ENGL&	101	English Composition I.	5
Following can be substituted: AAS-T Composition course See Advising for list of approved courses.			
MATH&	107	MATH in Society.	5
Following can be substituted: AAS-T Computation course See Advising for list of approved courses.			
SOC	253	Organizational Behavior.	5
Following can be substituted: Human Relations course See Advising for list of approved courses.			
General Education (Transferable Elective).			5
See Advising for list of approved courses.			
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.

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 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	132	Wine History: Ancient Times to the Enlightenment.	4
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
Following can be substituted: ProfTech Computation course See Advising for list of approved courses.			
ENGL	107	Applied Composition.	5
Following can be substituted: ProfTech Composition course See Advising for list of approved courses.			
SOC	253	Organizational Behavior.	5
Following can be substituted: ProfTech Human Relations course See Advising for list of approved courses.			

TOTAL PROGRAM CREDITS 51

For more information on the wine industry program, visit
South Seattle's Wine Studies page at: southseattle.edu/programs/wine-studies.

Wine Industry: Wine Production Associate in Applied Science Degree (AAS)

Culinary Arts Department

This program teaches the basic knowledge and skills needed 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.

GENERAL EDUCATION REQUIREMENTS

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	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	201	Advanced Cellar Management & Bottling Operations	3

GENERAL EDUCATION REQUIREMENTS

BUS	116	Business Math/Spreadsheets	5
Following can be substituted: ProfTech Computation (5) See Advising for list of approved courses.			
ENGL	107	Applied Composition	5
Following can be substituted: ProfTech Composition (5) See Advising for list of approved courses.			
SOC	253	Organizational Behavior	5
Following can be substituted: ProfTech Human Relations (5) See Advising for list of approved courses.			
Elective			5
See Advising for list of approved courses.			
TOTAL PROGRAM CREDITS			96

For more information on the wine industry program, visit South Seattle's Wine Studies page at: southseattle.edu/programs/wine-studies.

Wine Industry: Wine Production Associate in Applied Science-Transfer Degree (AAS-T)

Culinary Arts Department

The Wine Production Associate in 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 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	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	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	201	Advanced Cellar Management & Bottling Operations	3

GENERAL EDUCATION REQUIREMENTS

ENGL&	101	English Composition I	5
		Following can be substituted: AAS-T Composition course (5) See Advising for list of approved courses.	
SOC	253	Organizational Behavior	5
		Following can be substituted: Human Relations course (5) See Advising for list of approved courses.	
		General Education (Transferable Elective)	5
		See Advising for list of approved courses.	
TOTAL PROGRAM CREDITS			96

For more information on the wine industry program, visit South Seattle's Wine Studies page at: 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

“Loved all of my wine classes. Learned so much, as there is a lot of information to learn. Raise a glass and cheers!”

– Jennifer N.

WIN	112	Wine Science	5
WIN	122	Wine Chemistry and Microbiology	4
WIN	123	Sensory Evaluation	4
WIN	142	Wine Business – Winery Operations	4

GENERAL EDUCATION REQUIREMENTS

BUS	116	Business Math/Spreadsheets	5
		Following can be substituted: Prof Tech Computation (5) See Advising for list of approved courses.	
ENGL	107	Applied Composition	5
		Following can be substituted: Prof Tech Composition (5) See Advising for list of approved courses.	
SOC	253	Organizational Behavior	5
		Following can be substituted: Prof Tech Human Relations (5) See Advising for list of approved courses.	

TOTAL PROGRAM CREDITS			50

For more information on the wine industry program, visit South Seattle's Wine Studies page at: southseattle.edu/programs/wine-studies.





HEALTH AND MEDICAL

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 (AA)

This two-year program is designed for students that wish to obtain an Associate in 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) (AA)

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 (AA)

This two-year program is designed for students who wish to complete an Associate in 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 (AS)

This two-year program is designed for students who wish to complete an Associate in 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 (AS)

This two-year program is designed for students who wish to complete an Associate in Science degree with an emphasis on Chemistry. Students 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 results analysis. They also gain hands-on experiences in the lab.

Completion of this program opens doors to many 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.

Civil and Mechanical Engineering (AS Transfer, Track 2)

This pre-major pathway is designed to prepare you to transfer at the junior-level into an engineering program at a four-year college or university. The civil engineering profession is concerned with the design and construction of the built environment. Civil engineers plan, design, and construct major facilities, including highways, transit systems, airports, dams, water and wastewater treatment systems, tunnels, energy facilities, harbors, canals, buildings, and bridges. Civil Engineers work on projects on many scales from single homes and roads to complex transportation networks and city planning. This pathway also prepares environmental engineers who manage our air, water, and energy resources and protect society from natural catastrophes, such as earthquakes, and the hazards society itself generates in the form of toxic wastes. The goal of these engineers is to design a better built environment that is more sustainable, more comfortable, and safer for everyone.

Computer and Electrical Engineering (AS Transfer, Track 2)

This pre-major pathway is designed to prepare you to transfer at the junior-level into an engineering program at a four-year college or university. Computer and electrical engineers make the world a better place by starting with a nebulous idea and working with other designers to plan, develop, and prototype to turn it into something real. They use math and science to break down and solve complex and compelling problems and create new electronic and digital products and services. Electrical and computer engineering professionals work at the heart of the most rapidly developing technology humankind has ever seen.



Computer Science ACS DTA/MRP

Computer science (CS) is a dynamic field that allows you to combine creativity with skills in communication, mathematics, and logic. This degree will provide you with the skills to quickly adjust to the rapidly changing computer culture over the course of your career. During your studies, much of your learning will occur while actively working on problems in class, during tutorials, and in the laboratory. Seattle and the Puget Sound areas are a prominent national and international technology hub, with major computer corporations such as Microsoft and Amazon based in this area. Computer science programs are competitive, and this pathway intends to provide students with the needed information to optimize their coursework to meet the direct transfer agreement and prepare for computer science and related majors at universities and colleges in Washington.

Environmental Science (AS)

This two-year program is designed for students who wish to complete an Associate in 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 (AA)

This two-year program is designed for students who wish to complete an Associate in Arts 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.

Kinesiology, Sports, and Exercise Science (AA)

This two-year program is designed for students who wish to complete an Associate in 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.



Math (AA)

This two-year program is designed for students who wish to complete an Associate in 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.

Physics and Astronomy (AA)

This program is designed for students who wish to complete an Associate in 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.

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.

PROGRAM REQUIREMENTS

AA degree or higher from a regionally accredited college or university.

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

PHYS&	114	General Physics I with Lab	5
That meets Natural World - Lab requirement			
Visual, Literary and Performing Arts		.....	5
CMST&220 - Public Speaking is the recommended course			
Individual, Cultures and Societies		.....	5
Communication		.....	5
ENGL&102 - Composition II is the recommended course. See Advising for list of approved courses.			
Mathematics		.....	5
Recommend courses are:			
MATH& 107 - Math in Society (5)			
MATH& 141 - PreCalculus I (5) or higher MATH course			
College Transfer Elective		.....	20
Either of the following are the recommended courses:			
BUS 210 - Business & Economic Statistics (5)			
MATH& 146 - Introduction to Statistics (5)			
Note: MATH& 146 is recommended for students pursuing graduate studies.			
Applicable courses include any ICS, VLPA, NW, courses. PEC courses are also accepted.			

ELECTIVES

Any college level course above 100.

Applicable courses also include Professional & Technical Career Training courses with Evaluation Assessment.

Any ICS, VLPA, NW courses. PEC courses are also accepted

TOTAL PROGRAM CREDITS

180



SKILLED TRADES AND TECHNICAL TRAINING

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
TOTAL PROGRAM CREDITS			18

Automotive 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

Automotive Technology Associate in Applied Science Degree (AAS)

Automotive Technology Training Center

The Automotive Technology Associate in 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 in Applied Science–Transfer Degree (AAS-T)

Automotive Technology Training Center

The Automotive Technology Associate in 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.

Aviation Maintenance Technology Airframe Certificate

Aviation Maintenance Division

RELATED INSTRUCTION

ENGL 107 Applied Composition 5
 Following can be substituted: higher ENGL courses
 SOC 253 Organizational Behavior 5
 Following can be substituted: higher SOC course
 Computation 0
 Instruction embedded in following courses:
 AMT 105 - Aviation Introduction & Context (5)
 AMT 110 - Aviation Electricity & Tech (5)

TOTAL PROGRAM CREDITS 100

“South has helped me find myself again.”
 – Tien L.

Aviation Maintenance Technology Airframe/Powerplant Certificate

Aviation Maintenance Division

This program is designed to prepare incoming students to attain their FAA Airframe and Powerplant license at the end of the program. The 8-quarter program includes theoretical and practical training and the students will learn necessary skills to pursue a career in Aviation Maintenance.

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.

TOTAL PROGRAM CREDITS

120

Aviation Maintenance Technology Associate in Applied Science Degree (AAS)

Aviation Maintenance Division

The Aviation Maintenance Technology Associate in 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.

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.

RELATED INSTRUCTION

Human Relations course 3
See Advising for list of approved courses.
Composition course 5
See Advising for list of approved courses.

TOTAL PROGRAM CREDITS

128

“The smartest and most thoughtful people I have ever met in any school are at South Seattle College.”

– Ryan D.

Aviation Maintenance Technology Associate in Applied Science –Transfer Degree (AAS-T)

Aviation Maintenance Division

The Aviation Maintenance Technology Associate in 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.

RELATED INSTRUCTION

College Transfer course 5
See Advising for list of approved courses.
Human Relations course 5
See Advising for list of approved courses.
Computation course 5
See Advising for list of approved courses.
Composition course 5
See Advising for list of approved courses.

TOTAL PROGRAM CREDITS

140

Aviation Maintenance Technology Powerplant Tech Certificate

Aviation Maintenance Division

South offers both certificate and degree programs in Aviation Maintenance 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 AAS and AAS-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 in 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.

GENERAL EDUCATION COURSES

Communication	5
Following can be substituted:	
ENGL 107 - Applied Composition or higher ENGL course	
Recommended course: ENGL 107 - Applied Composition (5)	
Human Relations course	5
Recommended course: SOC 253 - Organizational Behavior (5)	
TOTAL PROGRAM CREDITS	101.5

Certification in Automatic Transmission/Transaxle Short-Term Certificate

Automotive Technology Training Center

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

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

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

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

TECHNICAL SPECIALTY COURSES

AUT 128	Automotive Engine Diagnose/Remove and Replace	4
AUT 130	Automotive Engine Rebuild.	8
AUT 134	Introduction to Engine Performance	3
TOTAL PROGRAM CREDITS		15

Certificate in Manual Drive Train and Axles Short-Term Certificate

Automotive Technology Training Center

TECHNICAL SPECIALTY COURSES

AUT 112	Manual Transaxles and Clutches	3
AUT 114	Manual Transmissions, Transfer Cases, & Drive Axl	3
TOTAL PROGRAM CREDITS		6

“I’ll remember the connections and lifelong friendships I made.”
— Phetsamone S.

Certificate in Steering and Suspension Short-Term Certificate

Automotive Technology Training Center

TECHNICAL SPECIALTY COURSES

AUT	122	Steering and Suspension	4
AUT	124	Tires and Wheel Alignment	4
TOTAL PROGRAM CREDITS			8

Diesel & Heavy Equipment Technician Associate in Applied Science Degree (AAS)

Diesel Technology Training Center

The Diesel & Heavy Equipment Technician Associate in 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 in 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

HDM	100	Preventive Maintenance and Inspection.....	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	150	Diesel Engine Diagnos/Remove and Replace ..	8
HDM	155	Diesel Engine Rebuild	8
HDM	171	Lift Truck Operator	2
HDM	201	Shop Practices	6
MVM	101	Introduction to Motor Vehicle Maint Technology I	8

GENERAL EDUCATION COURSES

Human Relations course	5
See Advising for list of approved courses.	
Recommended course:	
SOC 253 - Organizational Behavior	5
Computation course	5
See Advising for list of approved courses.	
Recommended course:	
MATH 110 - Applied Math for Technicians	5
Composition course	5
See Advising for list of approved courses.	
Recommended course:	
ENGL 107 - Applied Composition I	111
TOTAL PROGRAM CREDITS	

Diesel & Heavy Equipment Technician Associate in Applied Science–Transfer Degree (AAS-T)

Diesel Technology Training Center

The Diesel & Heavy Equipment Technician Associate in 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 in 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

HDM	100	Preventive Maintenance and	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	150	Diesel Engine Diagnos/Remove and Replace ..	8
HDM	155	Diesel Engine Rebuild	8
HDM	171	Lift Truck Operator	2
HDM	201	Shop Practices	6
MVM	101	Introduction to Motor Vehicle Maint Technology I	8

GENERAL EDUCATION COURSES

Elective	5
Choose course from one of the following Areas of Knowledge: Visual, Literary, and Performing Arts (VLPA)	
Individuals, Cultures, and Societies (ICS)	
The Natural World (NW)	
See Advising for list of approved courses.	
Human Relations course	5
See Advising for list of approved courses.	
Recommended course	
SOC 253 - Organizational Behavior	
Computation course	5
See Advising for list of approved courses.	
Recommended course: MATH& 107 - Math in Society	
Composition course	5
See Advising for list of approved courses.	
Recommended course: ENGL& 101 - English Composition I	
TOTAL PROGRAM CREDITS	118

Diesel & Heavy Equipment Technician Certificate

Diesel Technology Training Center

This 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**TECHNICAL SPECIALTY COURSES**

CSS 123	Flagging and Traffic Control	0

Landscape Horticulture Associate in Applied Science Degree (AAS)

Technical Education**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

“ I am grateful for meeting like-minded plant people that will be my friends for years to come. ”

– Angela G.

Landscape Horticulture Associate in Applied Science–Transfer Degree (AAS-T)

Technical Education

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

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

TECHNICAL SPECIALTY COURSES

MFGT	105	Basic Manufacturing	20
MFGT	106	Intermediate Manufacturing.....	20
MFGT	120	Advanced Manufacturing.....	20
TOTAL PROGRAM CREDITS			60

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
TOTAL PROGRAM CREDITS			37

Multi-Occupation in Engineering and Technology Associate in Applied Science –Transfer Degree (AAS-T)

Apprenticeship Division

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
TOTAL PROGRAM CREDITS			90

Multi-Occupation Trades Associate in Applied Science Degree (AAS)

Apprenticeship Division

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.			

TOTAL PROGRAM CREDITS			83-85

Multi-Occupation Trades Associate in Applied Science –Transfer Degree (AAS-T)

Apprenticeship Division

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

SEA Airport Ground Support Equipment Certificate

Diesel Technology Training Center

South's Airport Ground Support Equipment Certificate program is the first publicly offered program of its kind in the United States. Students learn to maintain and repair airport ground support equipment used to service and support aircraft while they are on the tarmac, ensuring smooth and efficient operations. The certificate is offered through our Diesel and Heavy Equipment Technology program, which has strong industry ties including partnerships with the Port of Seattle, Port Jobs & Airport University, Paccar, Peterbilt Motors Company and Kenworth Truck Company.

PREREQUISITES

HDM 110	Introduction to Electrical	8
MVM 101	Introduction to Motor Vehicle Maint Technology I	8

TECHNICAL SPECIALTY COURSES

Choose 4 or more courses from those listed below for a total of 48 credits

HDM 100	Preventive Maintenance and Inspection	8
HDM 101	Introduction to Heavy Duty	3
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 150	Diesel Engine Diagnos/ Remove and Replace	8
HDM 155	Diesel Engine Rebuild	8
TOTAL PROGRAM CREDITS		48

Welding Fabrication Technology Associate in Applied Science Degree (AAS)

Technical Education

The Welding Fabrication Technology Associate in 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
WFT	297	Special Topics in Welding Fabrication.....	2

RELATED INSTRUCTION

ENGL	107	Applied Composition.....	5
ENGR	115	CAD CNC Plasma Table Programming and Operation	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)	

TOTAL PROGRAM CREDITS 93-97

Welding Fabrication Technology Associate in Applied Science – Transfer Degree (AAS-T)

Technical Education

The Welding Fabrication Technology Associate in 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

ENGR	115	CAD CNC Plasma Table Programming and Operation	5
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 total of 24 credits from the courses listed below:

WFT	144	Shipyard Intensive Welding	6
WFT	197	Industry Internship.....	3
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	240	Visual Welding Inspection	5
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	297	Special Topics in Welding Fabrication.....	6

Credit range: 1 -12 / Total required credits: 6

RELATED INSTRUCTION

ENGL&	101	English Composition I	5
MATH&	107	MATH in Society.....	5
		Following can be substituted: higher level MATH course	
PSYC&	100	General Psychology	5
		Following can be substituted: SOC& 101 - Introduction to Sociology (5)	
Visual, Literary and Performing Arts		.....	5
		Following can be substituted: Individuals, Cultures, and Societies course	

TOTAL PROGRAM CREDITS 102

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 Level 1 Short-Term Certificate

Technical Education

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

Welding Level 2 Short-Term Certificate

Technical Education

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

Welding Level 3 Short-Term Certificate

Technical Education

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

Welding Level 4 Short-Term Certificate

Technical Education

TECHNICAL ELECTIVES

Choose one course from the following list:

WFT	227	Intermediate Welding 2 is the preferred course	
WFT	220	Pipe Shielded Metal Arc (SMAW)	8
WFT	227	Advanced Fabrication I	7
WFT 227 is preferred course			
WFT	228	Pipe Gas Tungsten Arc Welding (GTAW).....	8
WFT	238	Advanced Fabrication II.....	7
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
WFT	297	Special Topics in Welding Fabrication.....	6

Credit range: 1 to 12

Total required credits for WFT 297: 6

TOTAL PROGRAM CREDITS	12

Welding Level 5 Short-Term Certificate

Technical Education

TECHNICAL ELECTIVES

Choose one course from the following:

WFT	220	Pipe Shielded Metal Arc (SMAW)	8
WFT	227	Advanced Fabrication I	7
WFT	228	Pipe Gas Tungsten Arc Welding (GTAW).....	8
WFT	238	Advanced Fabrication II.....	7
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	297	Special Topics in Welding Fabrication.....	6

Credit range: 1 to 12

Total required credits for WFT 297: 6

TOTAL PROGRAM CREDITS	12



SOCIAL SCIENCES, HUMANITIES, AND LANGUAGE

Communication Studies (AA-DTA)

This two-year program is designed for students who wish to complete an Associate in 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 (AA-DTA)

This two-year program is designed for students who wish to complete an Associate in 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 (AA-DTA)

This two-year program is designed for students who wish to complete an Associate in 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 (AA)

This two-year program is designed for students who wish to complete an Associate in 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 (AA)

This two-year program is designed for students who wish to complete an Associate in 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 (AA-DTA)

This two-year program is designed for students who wish to complete an Associate in 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.

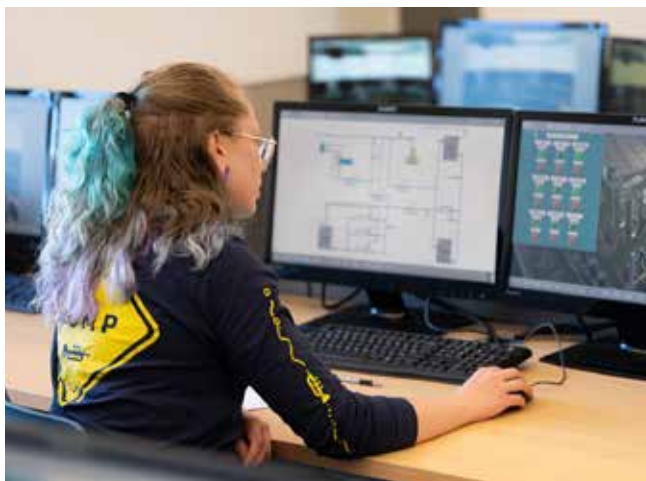
Completion of this degree allows students to transfer at the junior level to a Psychology program at a four-year college or university, as well as opening doors to entry level employment in many sectors including non-profit, social work, healthcare, education, business, and government.

Combined Campus Course Descriptions

SEATTLECOLLEGES

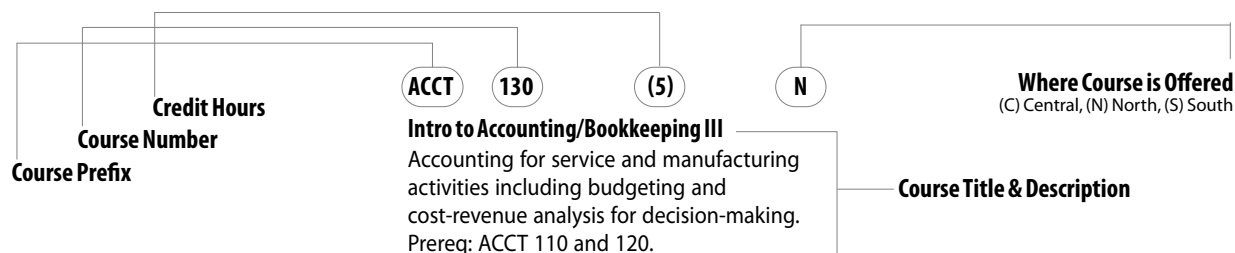
202

Course Descriptions



Brief descriptions of courses offered at the Seattle Colleges are listed here. Guides on pages 203-204 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.

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.

ABE	Adult Basic Education
ABS	Applied Behavioral Science B.A.S.
ACCT	Accounting
AD	Application Development B.A.S.
AHE	Allied Health/Dental Hygiene
AIA	Accounting Information Systems
AMA	Medical Assisting
AME	American Ethnic Studies
AMT	Aviation Maintenance Technology
ANTH	Anthropology
APPRL	Apparel Design & Development
ARAB	Arabic
ART	Art
ASL	American Sign Language
ASTR	Astronomy
AUT	Automotive Technology
BAK	Specialty Desserts & Breads
BIOL	Biology
BOT	Botany
BTM	Business Technology Management
BTS	Basic & Transitional Studies
BUS	Business
CCE	Early Childhood Education
CDS	Chemical Dependency – see Social & Human Services
CFS	Early Childhood & Family Studies B.A.S.
CHED	Community Health Education
CHEM	Chemistry
CHIN	Chinese
CIS	Computer Information Systems
CIV	Civics - Career Link
CMA	Certified Medical Assistant
CMS	Community Service
CMST	Communication
CSB	Computer Science B.A.S.
CSC	Computer Science
CUL	Culinary Arts
CWE	Cooperative Education/Work Experience
DAST	Dental Assisting
DES	Graphic Design
DHY	Dental Hygiene B.A.S.
DRMA	Drama
ECE	Early Childhood & Family Studies B.A.S.
ECED	Early Childhood Education

EDUC	Education
EET	Electronics Technology
EFDA	Expanded Function Dental Auxiliary
ENGL	English
ENGR	Engineering
ENVS	Environmental Sciences
ESL	English as a Second Language
FAM	Parent Education/ Senior Adult Education
FIRE	Fire Science
FSD	Restaurant Production – see Culinary Arts
GED	General Education Development
GEOG	Geography
GEOL	Geology
GERM	German
HDC	Human Development
HDM	Diesel & Heavy Equipment Technology
HEA	Health
HIN	Watch Technology
HIST	History
HMG	Hospitality Management B.A.S.
HOS	Hospitality
HSC	High School Completion – Adult Basic Education
HSM	Healthcare Services Management B.A.S.
HUM	Humanities
IBN	International Business B.A.S.
IFS	Industrial First Aid
INFO	Library Research
INTS	Integrated Studies
ISD, ISP	International & Intercultural Studies
IT, ITL	Information Technology
JAPN	Japanese
JSPCT	Job Skills
LAN	Linguistics
LCS	Learning Center Seattle
LHO	Landscape Horticulture
LIT	Literature
LST	Life Skills to Work
MATH	Mathematics
MEY	Meteorology
MGO	Marine Technology
MOET	Multi-Occupation in Engineering and Technology

MTS	Marine Technology
MUSC	Music
MVM	Automotive Technology
NME	New Media
NTI	Network Infrastructure
NURS	Nursing
NUTR	Nutrition
OCEA	Oceanography
PEC	Physical Education
PHA	Pharmacy Technician
PHIL	Philosophy
PHYS	Physics
POLS	Political Science
PSYC	Psychology
PTE	Professional Technical Teacher Education B.A.S.
RCP	Respiratory Care Bachelor of Applied Science
RCPM	Residential/Commercial Property Management Bachelor of Applied Science
RES	Real Estate
SBST	Sustainable Building Science Technology B.A.S.
SCI	Science
SHS	Social & Human Services
SLN	Service Learning
SMG	Supervision & Management
SOC	Sociology
SPAN	Spanish
SPS	Survey of Hearing Impairment
SSC	Social Sciences
SURG	Surgical Technology
TDR	Drafting: Architectural Engineering Drafting & Engineering Graphics & Design Technology
UGR	Undergraduate Research
VME	Visual Media
WFT	Welding Fabrication Technology
WIN	Wine Industry Training
WMN	Women's Studies
WTC	Wood Technology Center

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, MVM
Aviation Maintenance Technology	AMT
Basic & Transitional Studies	BTS
Biology	BIOL
Botany	BOT
Business	BUS
Business Technology Management	BTM
Certified Medical Assistant	CMA
Chemical Dependency – see Social & Human Services	CDS
Chemistry	CHEM
Chinese	CHIN
Civics - Career Link	CIV
Communication	CMST
Community Health Education	CHED
Community Service	CMS
Computer Information Systems	CIS
Computer Science	CSC
Computer Science B.A.S.	CSB
Cooperative Education/Work Experience	CWE
Culinary Arts	CUL
Dental Assisting	DAST
Dental Hygiene B.A.S.	DHY
Diesel & Heavy Equipment Technology	HDM
Drafting: Architectural Engineering Drafting & Engineering Graphics & Design Technology	TDR
Drama	DRMA
Early Childhood & Family Studies B.A.S.	CFS, ECE
Early Childhood Education	CCE, ECED

Education	EDUC
Electronics Technology	EET
Engineering	ENGR
English	ENGL
English as a Second Language	ESL
Environmental Sciences	ENVS
Expanded Function Dental Auxiliary	EFDA
Fire Science	FIRE
Gender & Women's Studies	WMN
General Education Development	GED
Geography	GEOG
Geology	GEOL
German	GERM
Graphic Design	DES
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
Industrial First Aid	IFS
Information Technology	IT, ITL
Integrated Studies	INTS
International & Intercultural Studies	ISD, ISP
International Business B.A.S.	IBN
Japanese	JAPN
Job Skills	JSPCT
Landscape Horticulture	LHO
Learning Center Seattle	LCS
Library Research	INFO
Life Skills to Work	LST
Linguistics	LAN
Literature	LIT
Marine Technology	MGO, MTS
Mathematics	MATH
Medical Assisting	AMA
Meteorology	MEY
Multi-Occupation in Engineering and Technology	MOET
Music	MUSC

Network Infrastructure	NTI
New Media	NME
Nursing	NURS
Nutrition	NUTR
Oceanography	OCEA
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
Real Estate	RES
Residential/Commercial Property Management Bachelor of Applied Science	RCPM
Respiratory Care Bachelor of Applied Science	RCP, RCPM
Restaurant Production – see Culinary Arts	FSD
Science	SCI
Service Learning	SLN
Social & Human Services	SHS
Social Sciences	SSC
Sociology	SOC
Spanish	SPAN
Specialty Desserts & Breads	BAK
Supervision & Management	SMG
Survey of Hearing Impairment	SPS
Surgical Technology	SURG
Sustainable Building Science Technology B.A.S.	SBST
Undergraduate Research	UGR
Visual Media	VME
Watch Technology	HIN
Welding Fabrication Technology	WFT
Wine Industry Training	WIN
Women's Studies	WMN
Wood Technology Center	WTC

FINDING COURSES

Course names and course prefixes are cross-referenced in an index beginning on page 203. For example:

PREFIX TO COURSE

HIN Watch Technology

COURSE TO PREFIX

Watch Technology HIN

Common Course Numbering explanation is on page 202.

Accounting**ACCT& 201 (5) C|N|S
Principles of Accounting I**

Introduces and 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**

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. The course culminates with the optional opportunity to take a certification exam to become an Intuit Certified Bookkeeping Professional.

**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 the optional opportunity to take a certification exam through Intuit to become an Intuit QuickBooks Certified User.

**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).

**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.

**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 271 (5) N
Applied Ethics in Accounting

Learn and cultivate the ethical commitment needed to ensure work in the business world meets the highest standards of integrity, independence and objectivity. Understand obligations and professional responsibilities of bookkeepers and accounting professionals by studying real world issues and develop a personalized ethics tool for making ethical decisions in the workplace.

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

More advanced 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 (C,S). Covers the basics of Microsoft Office applications.

ABE 49 (1-15) C|N|S
Basic Skills Support for Professional/ Tech Prgrms

Provides specific support to assist students in completing 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 (1-5) 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 (?) 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/HSC21+ Students**

This course serves as an orientation class for new ABE or GED students. Students receive an orientation to NSCC's ABE or GED program and to the program's and the college's resources and services.

ABE 80 (?) 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.

FINDING COURSES

Course names and course prefixes are cross-referenced in an index beginning on page 203. For example:

PREFIX TO COURSE

HIN Watch Technology

COURSE TO PREFIX

Watch Technology HIN

Common Course Numbering explanation is on page 202.

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.

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|S**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

Examines the historical and contemporary cultural changes to global food systems. Analyzes the global economy through nutrition and cuisine in politics, identity and social difference, public health, indigenous and decolonial foodways, and food justice and activism. This course meets the requirements for the Global 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 prerequired 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.

FINDING COURSES

Course names and course prefixes are cross-referenced in an index beginning on page 203. For example:

PREFIX TO COURSE

HIN Watch Technology

COURSE TO PREFIX

Watch Technology HIN

Common Course Numbering explanation is on page 202.

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.

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 (?) 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 (?) 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

Beginning 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) C|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) C|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.

FINDING COURSES

Course names and course prefixes are cross-referenced in an index beginning on page 203. For example:

PREFIX TO COURSE

HIN Watch Technology

COURSE TO PREFIX

Watch Technology HIN

Common Course Numbering explanation is on page 202.

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 & 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 not 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. Includes lectures, software demos, digital image making exercises, projects and readings. Previous drawing/design and basic computer skills strongly recommended.

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 Art & Graphic Design II**

Continuation of ART 210. 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.

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. This course has an Art Lab Course Fee.

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. Prereq: ART 222 or permission.

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) C|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) C|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 (?) 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
Art Business

Fundamentals of the business aspects of art, including designing and packaging the portfolio for A.F.A./C.F.A. degrees, photographing artwork, building a resume, marketing, copyrights, contracts, and other essential business practices. Recommended: Students should be in their final year of the AFA, CFA, or CJD degree, and/or have successfully completed two college-level art courses with plans to pursue Art for a degree or career. 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|N|S**
Survey of Astronomy

Astronomy studies the solar system, stars, galaxies, and origin of the universe! This survey course will familiarize students with what we know about these exciting objects and how we know it. Students also explore the dynamic topic by reading current research literature.

ASTR 125 (?) 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 (?) 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 (?) 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 Maint 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 (?) 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 (?) 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 (?) 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 (?) 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 210 (15) S**Airframe Electricity & Inspection**

Students will complete the Airframe portion of the curriculum required to qualify to be tested for an FAA Airframe Certificate in this class. Students will engage with new material on many airframe subjects and be given the opportunity to rediscover and review material learned in previous aviation courses. Hands-on learning opportunities will be mixed with theory to connect subjects and provide greater proficiency that will prepare you for certification testing.

AMT 214 (?) 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.

FINDING COURSES

Course names and course prefixes are cross-referenced in an index beginning on page 203. For example:

PREFIX TO COURSE

HIN Watch Technology

COURSE TO PREFIX

Watch Technology HIN

Common Course Numbering explanation is on page 202.

AMT 215 (?) 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 225 (15) S
Powerplant Theory and Maintenance

This is the first of two courses required to be eligible to take FAA Powerplant Certification tests. Students will investigate theory and design of reciprocating and turbine powerplants. Projects will give you in-depth knowledge of them as you disassemble and investigate examples in the shop. Students will improve your mechanical skills as you measure, inspect, and reassemble engines. This will include accessories such as fuel metering, exhaust, and cooling systems.

AMT 230 (15) S
Advanced Powerplant and Inspection

The eighth and final step to FAA Airframe and Powerplant Certification in which students acquire skills with tools and knowledge of real aircraft, systems, and components through hands-on exercises. Investigate aircraft equipment and maintain safety procedures critical to the aviation industry. Knowledge of aircraft systems, manuals, diagrams, and schematics is put to use troubleshooting procedures. Students perform inspections, repairs and operational tests of powerplant and systems.

AMT 234 (?) 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 (?) 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 (?) 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 (?) 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.

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.

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.

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 226 (5) N
Advertising & Sales Promotion

This course presents elements of advertising and sales promotion. Students will gain an understanding of strategy, branding, lead generation, messaging, creative choices, selection of appropriate media, traditional and digital, developing an integrated marketing communications plan, and tracking and analyzing campaigns. The class will also study the social, ethical, and economic aspects of advertising and promotion. Required: ENGL&101 or ENGL&235; Strongly recommended: BUS 114.

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 Communication for the U.S. Workplace

Course teaches responsive interpersonal communication skills. Students learn ways to adapt communication to meet business needs. Class activities introduce students to cultural diversity, non-verbal communication, conflict management, and individual's influence on communication. Techniques for making business presentations and prep for employment interviews are covered. NOTE: English Language (ESL) Level 6 or above is recommended.

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 everyday. Learn the basics of descriptive, predictive, and prescriptive 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.

BUS 298 (1-5) S
Special Topics: Business
Prereq: Permission.**BUS 299 (1-5) C|N**
Independent Study: Business

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 (?) 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 (?) C
Excel

Introduces key concepts to develop and analyze business spreadsheets. Topics include formulas, formatting, functions, charts, and working with multiple workbooks.

BTM 104 (?) 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.

FINDING COURSES

Course names and course prefixes are cross-referenced in an index beginning on page 203. For example:

PREFIX TO COURSE

HIN Watch Technology

COURSE TO PREFIX

Watch Technology HIN

Common Course Numbering explanation is on page 202.

BTM 112 (5) C
Data Analysis & Visualization

Explores the use of 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 (?) 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.

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 (?) 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 utilizes National Healthcareers Association (NHA) and SIMTICS virtual simulated clinic introducing students to phlebotomy, CLIA waived test theories, procedures and values, specimen handling and transport, safe clinical practices, and effective medical record documentation and practical application skills as related to the Certified Clinical Medical Assistant (CCMA) exam required to work in the state of Washington.

CMA 107 (8) C|N**Medication Administration & Pharmacology**

Covers 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 simulation software 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.

CHEM 299 (1-5) C
Independent Study: Chemistry

Independent study of approved topics in the chemical sciences.

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.

CHIN& 123 (5) C
Chinese III

Continuation of CHIN& 122. Prereq: CHIN& 122 or permission.

Civics – Career Link**CIV 90 (5) S**
Civics

Civics is the study of government—federal, state, local—and the rights and responsibility of citizens as well as the rights and responsibilities of residents, regardless of their status. Civics is essential to democracy. A democratic government cannot survive without freedom of the speech, the right to assemble, freedom from persecution, and a well-informed citizenry.

Communication**CMST& 101 (5) C|N|S**
Introduction to Communication

Introduction to human communication as a context-specific and transactional process, including interpersonal, intercultural, small group, and mass communication. Covers verbal and nonverbal messages, listening, self-concept and perception, and the role of technology, society, culture, and power in communication both in-person and online.

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|S
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.

FINDING COURSES

Course names and course prefixes are cross-referenced in an index beginning on page 203. For example:

PREFIX TO COURSE

HIN Watch Technology

COURSE TO PREFIX

Watch Technology HIN

Common Course Numbering explanation is on page 202.

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.

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 (?) 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.

CSB 430 (5) N

Software Design & Implementation

Explores concepts and techniques for design and construction of reliable and maintainable software systems in modern high-level languages, program structure, program design, program-correctness approaches, software testing, and event-driven programming (e.g., graphical user interface). Includes substantial project and software-team experience.

CSB 435 (5) N

Secure Software Development

Examines techniques, methodologies, and processes for development of robust, secure software. Security development process, threat modeling, common software vulnerabilities, web site vulnerabilities, defensive coding practices, security testing.

CSB 440 (5) N

Internship/Capstone Project, CS-BS

In this course for the Bachelor of Science in Computer Science, students shall complete a capstone project or arrange and complete an internship, applying the skills learned in the coursework to the workplace. Students write a culminating paper, reflecting on their experience and integrating it with classroom learning.

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 student's 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 to 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 (?) 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 (?) 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.

FINDING COURSES

Course names and course prefixes are cross-referenced in an index beginning on page 203. For example:

PREFIX TO COURSE

HIN Watch Technology

COURSE TO PREFIX

Watch Technology HIN

Common Course Numbering explanation is on page 202.

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 (?) 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**Independ Project/Culinar**

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**Culinary Foundations: Global Approaches**

Broaden and advance foundational culinary principles such as protein preparation, cooking methods, and knife skills through Global contexts. Using culturally relevant Asian food ingredients and flavor profiles, the course builds upon previous courses in this series. Prerequisites: Successful completion of both FSD165 and FSD100.

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 (?) 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.

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.

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 (4) 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 (1) 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 (2) 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 healthcare 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.

FINDING COURSES

Course names and course prefixes are cross-referenced in an index beginning on page 203. For example:

PREFIX TO COURSE

HIN Watch Technology

COURSE TO PREFIX

Watch Technology HIN

Common Course Numbering explanation is on page 202.

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.

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 (?) 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 198 (1-2) 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 199 (1-2) 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 evaluation.

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.

FINDING COURSES

Course names and course prefixes are cross-referenced in an index beginning on page 203. For example:

PREFIX TO COURSE

HIN Watch Technology

COURSE TO PREFIX

Watch Technology HIN

Common Course Numbering explanation is on page 202.

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 fo 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.

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.

ECED& 107 (5) C|N
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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.

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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.

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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.

FINDING COURSES

Course names and course prefixes are cross-referenced in an index beginning on page 203. For example:

PREFIX TO COURSE

HIN Watch Technology

COURSE TO PREFIX

Watch Technology HIN

Common Course Numbering explanation is on page 202.

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

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. Computer Lab Fee.

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 sensors, end effectors, and systems. Prerequisite: Placement into Math 084, or EET 109 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. 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.

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 197 (1-10) N**Special Topics in Electronics**

Study of selected topics considered appropriate by the instructor and/or faculty. Course content, format and projects vary. Prereq: Permission.

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

Explores career options in engineering through activities and guest speakers. Includes study skills, academic and professional planning, the engineering design process, group projects and engineering challenges.

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 (?) 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 (?) 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 (?) 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 (?) 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 (?) 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 (?) 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 (?) 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: TDR 111 or instructors permission. Open lab. Computer lab fee.

TDR 113 (?) 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 (?) 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 (?) 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 (?) 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 (?) 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 (?) 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 (?) 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 (?) 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 (?) 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 (?) 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 (?) 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 (?) 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 (?) 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 (?) 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.

FINDING COURSES

Course names and course prefixes are cross-referenced in an index beginning on page 203. For example:

PREFIX TO COURSE

HIN Watch Technology

COURSE TO PREFIX

Watch Technology HIN

Common Course Numbering explanation is on page 202.

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.

ENGL& 236 (5) S
Creative Writing: Explorations

Introduces a variety of creative writing forms, genres and techniques. Emphasizes 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& 238 (5) S
Creative Writing: Poetries

Introduces students to the craft of writing poetry with an emphasis on developing a writing practice and one's own poetic voice and style. Explores a diverse range of poetic forms and genres such as haiku, sonnets, ghazals, odes, elegies; free verse, experimental, and hybrid forms; and poetry in non-textual genres such as comic arts, visual art, film, music, and some poetic theory. Students will compose and workshop new drafts and assemble a final portfolio.

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 (?) 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 (?) 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 (1-10) 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
English Grammar for Effective Writing

Study of English sentence structure with an emphasis on making stylistic choices based on purpose and audience.

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
Lgbt 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|S
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

Students read, discuss and write short stories, flash fiction, and other short pieces in a variety of fiction genres. Introduces how to develop characters, setting, point of view, plot structure, description, and other crucial elements of fiction. Emphasizes process and progress over product, encouraging creative exploration.

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).

ENGL 199 (?) 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 (?) 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, and 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|N
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 SSCC'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 (life skills), jobs (employability), and school (academic skills).

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 (life skills), jobs (employability), and school (academic skills).

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 (life skills), jobs (employability skills), and school (academic skills).

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

For low-beginning ESL students. Learn basic English vocabulary and grammar. Practice basic listening and speaking skills in the context of daily life (life skills), jobs (employability skills), and school (academic skills). Placement in ESL 11, 12, or 13 or placement by ESL Advisor.

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 (life skills), jobs (employability skills), and school (academic skills).

ESL 22 (1-15) N
English as a Second Language-Level 2B

For high-beginning ESL students. Learn high-beginning English vocabulary and grammar. Practice high-beginning reading, writing, listening, and speaking skills in the context of daily life (life skills), jobs (employability skills), and school (academic skills).

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

For beginning ESL students. Learn beginning English vocabulary and grammar. Practice beginning listening and speaking skills in the context of daily life (life skills), jobs (employability skills), and school (academic skills).

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 (life skills), jobs (employability skills), and school (academic skills).

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 (life skills), jobs (employability skills), and school (academic skills).

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

For low-intermediate ESL students. Learn low-intermediate English vocabulary and grammar. Practice low-intermediate speaking and listening skills in the context of daily life (life skills), jobs (employability skills), and school (academic skills).

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 (life skills), jobs (employability skills), and school (academic skills).

ESL 42 (1-15) C|N
English as a Second Language-Level 4b

For intermediate ESL students. Learn more intermediate English vocabulary and grammar. Practice more intermediate reading, writing, listening, and speaking skills in the context of daily life (life skills), jobs (employability skills), and school (academic skills).

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. Learn intermediate English vocabulary and grammar. Practice intermediate speaking and listening skills in the context of daily life (life skills), jobs (employability skills), and school (academic skills).

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 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 (life skills), jobs (employability skills), and school (academic skills) with a greater focus on academic English skills to prepare for transitioning into college academic or professional/technical classes.

FINDING COURSES

Course names and course prefixes are cross-referenced in an index beginning on page 203. For example:

PREFIX TO COURSE
HIN Watch Technology

COURSE TO PREFIX
Watch Technology HIN

Common Course Numbering explanation is on page 202.

ESL 52 (1-15) N
English as a Second Language - Level 5b

For high-intermediate ESL students. Learn more high-intermediate English vocabulary and grammar. Practice more high-intermediate reading, writing, listening, and speaking skills in the context of daily life (life skills), jobs (employability skills), and school (academic skills) with continued focus 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 high-intermediate ESL students. Learn high-intermediate English vocabulary and grammar. Practice high-intermediate speaking and listening skills in the context of daily life (life skills), jobs (employability skills), and school (academic skills).

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 (life skills), jobs (employability skills), and school (academic skills) with continued focus 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

For advanced ESL students. Learn more advanced English vocabulary and grammar. Practice more advanced reading, writing, listening, and speaking skills in the context of daily life (life skills), jobs (employability skills), and school (academic skills) with continued focus on academic English skills to prepare for transitioning into college academic or professional/technical classes.

ESL 65 (1-15) N|S
ESL Reading and Writing 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

For advanced ESL students. Learn advanced English vocabulary and grammar. Practice advanced speaking and listening skills in the context of daily life (life skills), jobs (employability skills), and school (academic skills).

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.

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 140 (5) C **Women in American History**

Surveys U.S. women's roles, work, status, accomplishments, issues and movements, from the pre-Colonial period to the present.

WMN 200 (5) C|N|S **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|N
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 213 (5) C
Women and Politics

Intro to concepts of power and policy issues as they relate to women. Covers theoretical, historical and empirical studies of women's participation in social and political movements nationally and internationally. Includes women's diverse roles in relation to family, economics, labor, government and law.

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.

GED 64 (1-15) C
Adv Computer Assisted GED Preparation Level 6

Improves general reading, writing, math and test-taking skills for the GED tests through the use of micro-computers and relevant basic skills software.

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.

FINDING COURSES

Course names and course prefixes are cross-referenced in an index beginning on page 203. For example:

PREFIX TO COURSE

HIN Watch Technology

COURSE TO PREFIX

Watch Technology HIN

Common Course Numbering explanation is on page 202.

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 (?) 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 (?) 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 (?) 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.

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 180 (5) N
Women's Health Issues

Holistically examines current health topics particularly relevant to those identifying as women, but may be experienced by others, too. Students will study how these concerns impact our communities, focusing on both controllable behaviors, as well as non-controllable or hard-to-control environments. Students will explore potential solutions to these challenges, fostering opportunities for increased awareness and self-empowerment. The class will be facilitated using an intersectional lens.

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 Mngmt. 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.

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.

FINDING COURSES

Course names and course prefixes are cross-referenced in an index beginning on page 203. For example:

PREFIX TO COURSE

HIN Watch Technology

COURSE TO PREFIX

Watch Technology HIN

Common Course Numbering explanation is on page 202.

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 (?) 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) C|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 (?) 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'hôtel duties, supervision of opening/closing, training of wait staff and kitchen liaison duties.

HOS 105 (?) 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 (?) 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.

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|S
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 (1-3) 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& 101 (5) N**
Introduction to Humanities

An interdisciplinary-based introduction into the Humanities through inquiry into cultures and cultural artifacts from throughout history and around the globe. Examines the interconnected roles of history, art, and philosophy in understanding the values and beliefs involved in the formation and operation of societies and how these relate to conception of the individual and issues concerning the human condition.

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

FINDING COURSES

Course names and course prefixes are cross-referenced in an index beginning on page 203. For example:

PREFIX TO COURSE

HIN Watch Technology

COURSE TO PREFIX

Watch Technology HIN

Common Course Numbering explanation is on page 202.

HUM 121 (?) 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
Media, Power, and Social Change

This course will examine how contemporary media such as film, television, news media, and social media reflect and reinforce dominant ideologies. This course will explore 1) the ways in which media constructs meaning about race, gender, class, sexuality, and other social positions; and 2) how media can be used to question and challenge oppression.

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|S
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.

Industrial Technology

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.

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.

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 OS 3 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 (?) 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 145 (2) C
Introduction to Healthcare IT

This course provides an overview of the healthcare, health information technology, and health information management systems. It also introduces the principal institutions and participants in healthcare systems, explains what they do, and discusses the interactions between them. Designed for students who have previous experience in IT or healthcare, and to serve as a pathway into healthcare IT careers.

IT 146 (?) 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 (?) 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.

FINDING COURSES

Course names and course prefixes are cross-referenced in an index beginning on page 203. For example:

PREFIX TO COURSE

HIN Watch Technology

COURSE TO PREFIX

Watch Technology HIN

Common Course Numbering explanation is on page 202.

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|N
Independent Study
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.

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.

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
Intro to the American College for Int'l Students

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

ISP 201 (5) C

Contemporary Globalization

An overview of the major historical changes that have shaped and challenged contemporary globalization. Students will explore global issues through themes such as wealth and poverty; race and ethnicity, belief systems; population, health and human rights; environment and sustainability; gender and sexuality; and governance, conflict and cooperation.

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.

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.

Internship

IIP 101 (1) C

Internship Preparation: Exploration & Job Search

The International Internship Work Experience provides international students with a meaningful work experience in the United States related to their career objectives. It is based on the principle that one learns not only through academic achievement but also through practical experience. IIP 100 - 102 prepares students for employment in the United States. IIP is a seminar participants attend with IIP 150, the actual work experience.

IIP 102 (1) C

Internship Preparation: Skill Application/Com Exp

The International Internship Work Experience provides international students with a meaningful work experience in the United States related to their career objectives. It is based on the principle that one learns not only through academic achievement but also through practical experience. IIP 100 - 102 prepares students for employment in the United States. IIP is a seminar participants attend with IIP 150, the actual work experience.

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.

Job Skills

JSPCT 503 (0.0) S

Information Technology

Information Technology

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 (?) 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.

FINDING COURSES

Course names and course prefixes are cross-referenced in an index beginning on page 203. For example:

PREFIX TO COURSE

HIN Watch Technology

COURSE TO PREFIX

Watch Technology HIN

Common Course Numbering explanation is on page 202.

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 (1-5) S
Intro to Academic Research**

Does academic research make you feel nervous or intimidated? Gain confidence in the research process and understand the whys of citation beyond avoiding plagiarism. We will demystify the academic research process while developing skills to find and cite quality sources. Students will curate meaningful and diverse sources to create a nuanced scholarly conversation. We will also learn about the political economy of academic publishing and recognize inequity in publication, citation, and access.

**INFO 106 (1-5) S
Research in the Digital Age**

Our digital world allows us to learn from a variety of ever-changing formats beyond textbooks. In this course we'll examine how to create and access information online, learn how social media and AI fit into research and develop skills to effectively find and evaluate digital information. We'll also explore how power dynamics affect the content we do (or don't) see online and learn how to mitigate the algorithm to find the information we need.

**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 17 (1-7) S
Write Your Next Chapter**

This class gently guides participants towards greater awareness, presence, and self-compassion in their daily lives through research-backed mindfulness practices and strategies. In this class, we use music listening and singing as trauma-informed, healing-centered practices, offering students the opportunity to safely gain confidence in mindfulness techniques in community and as a group.

**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 jump-start 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 autopilots 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 autopilots 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 autopilots 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 Reconation 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.

Manufacturing Technology

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.

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 DC 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.

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.

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 DC 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.

FINDING COURSES

Course names and course prefixes are cross-referenced in an index beginning on page 203. For example:

PREFIX TO COURSE

HIN Watch Technology

COURSE TO PREFIX

Watch Technology HIN

Common Course Numbering explanation is on page 202.

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, 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& 163 (5) C|N|S
Calculus 3

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 33 (2) N
Elements of Math for Early Childhood Educators

Co-requisite course for MATH133, Contextualized Math for ECE Professionals. Covers algebra topics needed for students to be successful in MATH133. Topics include basic arithmetic, ratios, rates, percents, measurements, linear equations, exponents, roots, and radicals, exponential and logarithmic functions, and geometric formulas.

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 (1-5) 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 (?) 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 (?) 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 (?) 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 (?) 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 93 (5) S
Intermediate Algebra Essentials

Intermediate Algebra Essentials covers numerical & graphical literacy; linear equations, inequalities, systems & graphs; introduction to functions & functional notation; integer & rational exponents with radical expressions; polynomial expressions with operations & factoring; quadratic equations & functions; exponential & logarithmic functions.

MATH 94 (?) 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 (?) 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 133 (5) N**Contextualize Math for ECE Professionals**

Early educators gain skills and confidence to identify, evaluate, and navigate math concepts in their profession. They will gain an understanding of the usefulness of math concepts and be able to share their skills and knowledge in their personal and professional lives. Topics covered: arithmetic, algebra and graphing, interpreting and analyzing data, proportions, percents, measurement and spatial sense, patterns and functions, relationship between time, distance and rate.

MATH 136 (?) 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 (?) 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. Learn 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.

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 (?) 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 (?) 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.

FINDING COURSES

Course names and course prefixes are cross-referenced in an index beginning on page 203. For example:

PREFIX TO COURSE

HIN Watch Technology

COURSE TO PREFIX

Watch Technology HIN

Common Course Numbering explanation is on page 202.

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 (1cr. = 30min/week; 2cr. = 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 133 (1-2) S
Individual Instruction: Music Production

Individual instruction in music recording and production. Instructor and student will co-create curriculum based on each student's interests and goals. This course is open to all levels, may be taken for 1 or 2 credits, and may be repeated for credit. ADDITIONAL FEE is charged for all individual instruction. Instructor permission required.

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 149 (2) N
Jazz Combo

A course designed to develop small ensemble skills in the jazz musician, as a vocalist or instrumentalist. A performance class requiring reading and improvisational skills.

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 (?) 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 (?) 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 (?) 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 (?) C**Devops Practicum, BAS IT 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 (?) C**Internship/Capstone Project, BAS IT 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 107 (1-8) C
Nursing Assistant Certified Theory

Covers theory concepts for the Nursing Assistant Certified Program following the curriculum mandated by Washington State Board of Nursing (WABON) requirements.

NURS 108 (1-6) C
Nursing Assistant - Lab Skills and Concepts

Supervised laboratory component of Nurse Assistant Program. Combination of Nursing Assistant lab skills and didactic in lab setting.

NURS 109 (2) C
Nursing Assistant Clinical

Supervised clinical rotation in healthcare setting for Nursing Assistant Program.

NURS 110 (1) C
Nursing Assistant BIs Certification

AHA BLS for healthcare providers certification for students in Nursing Assistant Program

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.

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 107 (1-8) C
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Covers theory concepts for the Nursing Assistant Certified Program following the curriculum mandated by Washington State Board of Nursing (WABON) requirements.

NURS 108 (1-6) C
Nursing Assistant - Lab Skills and Concepts

Supervised laboratory component of Nurse Assistant Program. Combination of Nursing Assistant lab skills and didactic in lab setting.

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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.

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HIN Watch Technology

COURSE TO PREFIX

Watch Technology HIN

Common Course Numbering explanation is on page 202.

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
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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 47 (1-3) S
Parent Education Child Study Lab: 0-12 Months
No Description Available.

FAM 48 (1-3) S
Parent Education Child Study Lab: 0-12 Months
No Description Available.

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|S
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 94 (1-3) S
Parent Education Child Study Lab: 24-60 Months
 No Description Available.

FAM 95 (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.

FAM 156 (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 203. For example:

PREFIX TO COURSE

HIN Watch Technology

COURSE TO PREFIX

Watch Technology HIN

Common Course Numbering explanation is on page 202.

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 (?) 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 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.

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 179 (2) N
Dance Fusion

We will practice a variety of dance-based movements borrowed from Latin, contemporary, hip-hop, swing, jazz, and other styles, performed to music in an exploratory or free-style environment. Choreography is much simpler than traditional dance or dance fitness classes, with 2-4 short moves repeated through any one piece of music. Emphasis is on individualizing, moving safely, and having fun. Plan to learn and experience how the body and mind respond to movement. No dance experience? No problem.

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.

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.

FINDING COURSES

Course names and course prefixes are cross-referenced in an index beginning on page 203. For example:

PREFIX TO COURSE

HIN Watch Technology

COURSE TO PREFIX

Watch Technology HIN

Common Course Numbering explanation is on page 202.

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& 101 (5) C|N|S
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 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 1900's to today. The study of the current world starts in the past, so a large emphasis is place 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 108 (5) C
The Politics of Sex and Gender

Intro to concepts of power and policy issues as they relate to women. Covers theoretical, historical and empirical studies of women's participation in social and political movements nationally and internationally. Includes women's diverse roles in relation to family, economics, labor, government and law.

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|N
Independent Study in Political Science

Independent research and writing on selected political science topics under faculty supervision.

Professional Technical Teacher Education

PTE 468 (?) 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 (?) 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.

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

Psychological Disorders

Provides students with an overview of research and theories related to psychological disorders. Emphasis on the psychological, social, historical, cultural, and physiological research into psychological disorders. 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|N|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 270 (5) S
Psychology of Cults

This course explores major psychological theories and research on how and why cults form, succeed, and fail. This includes psychological topics of conformity, belonging, cooperation, leadership, followership, persuasion, social influence, deindividuation, power, decision making, confirmation bias, rationalization, and more. Students will understand psychological influences and perspectives from both cult leaders and members through various case studies throughout global history.

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-licensure 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.

FINDING COURSES

Course names and course prefixes are cross-referenced in an index beginning on page 203. For example:

PREFIX TO COURSE

HIN Watch Technology

COURSE TO PREFIX

Watch Technology HIN

Common Course Numbering explanation is on page 202.

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.

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 116 (1) N**Edible Plants - Northwest Field Trip**

Focuses on edible and medicinal plants of the Pacific Northwest. Lab credit.

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 (?) 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 (?) 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 (?) 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 (?) 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 (?) 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.

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HIN Watch Technology

COURSE TO PREFIX

Watch Technology HIN

Common Course Numbering explanation is on page 202.

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 (?) C

Service Learning: Communications

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SLN 112 (?) C

Service Learning: Communications

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SLN 113 (?) 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 (?) 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 (?) C

Service Learning: English

064---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 120 (1-2) C
Service Learning: Health & Human Services

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 121 (1-2) C
Service Learning: Health & Human Services

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 122 (?) C
Service Learning: Health & Human Services

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 123 (?) C
Service Learning: Health & Human Services

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 (?) 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 (?) 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 (?) 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 (?) 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 (?) 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 (?) 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 (?) 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 (?) 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 (?) 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.

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HIN Watch Technology

COURSE TO PREFIX

Watch Technology HIN

Common Course Numbering explanation is on page 202.

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 (?) 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 (?) 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
SHS, 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. Co-req: 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.

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 (?) 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 (?) 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 (?) 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 ENGL099, 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 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 120 (1-5) S**Sociology of the Media**

Uses the sociological perspective to examine print and electronic media, including television, film, news, and advertising. Students analyze the impact of media institutions on identity formation and on social, political, and cultural discourse. Students also assess how American cultural values shape and are shaped by the media, both historically and in the present.

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) N|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**Science and Practice of Baking with Chocolate**

Presents advanced theory and ingredients in the chocolate making process, fair trade practices, cacao bean growing and chocolate making. Learn the scientific principles of sugar process, sugar alcohol, sugar cooking stages, fat functions and characteristics.

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.

FINDING COURSES

Course names and course prefixes are cross-referenced in an index beginning on page 203. For example:

PREFIX TO COURSE

HIN Watch Technology

COURSE TO PREFIX

Watch Technology HIN

Common Course Numbering explanation is on page 202.

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 (?) 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 (?) 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 (?) 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 (?) 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.

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.

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.

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.

Survey of Hearing Impairment**SPS 141 (9) C****Sterile Processing Services 141**

Provides advanced clinical practice to develop entry-level skills. Prereq: AHE 140 w. a 2.0.

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 SBSTT 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 Internsh**

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 (1-5) 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 HD/SLR 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 ambiances, 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 ambiances, 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.

FINDING COURSES

Course names and course prefixes are cross-referenced in an index beginning on page 203. For example:

PREFIX TO COURSE

HIN Watch Technology

COURSE TO PREFIX

Watch Technology HIN

Common Course Numbering explanation is on page 202.

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 & Measureme

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.

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

Introduction to Automatic Watches â€” 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/Dual 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

Shipyards 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 (?) 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 (?) 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 (?) 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 (?) 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 (?) 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 (?) 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 (?) 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 (?) 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 (?) 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 (4) S**Wine History**

A survey of wine and its role in history, religion, art, culture and society from pre-history to the new world and the modern era. 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.

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 (?) 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 (?) S**Advanced Sensory Evaluation**

A continuation of WIN 123, Sensory Evaluation, with more focus on blind tastings, anatomy of the human sensory preceptors, 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 (?) 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 varietals, 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 255.

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 (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.

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 Access, Community, and Opportunity**
B.S., Montana State University

eLearning

JULIA ANDERSON
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 eLearning**
*B.S.W., Northwestern State University
 M.S.W., University of Texas at Arlington*

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**Vice Chancellor of Finance
 and Business Affairs**
*B.S., Walla Walla University
 M.B.A., Washington State University
 Certified Public Accountant*

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**North Business Operations
 Interim Director
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Operations Manager, Finance & IT

ANGELA GURNEY
Director of Purchasing Services
B.S., Central Washington University

LOLITA KHACHATUROVA
**South Business Operations
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CHARLENE RIOS
Director of Accounting
*B.A., University of San Diego
 M.S., Capella University*

DAVID WILLIAMS
Director of Financial Reporting
*B.A., Eastern Washington University
 Certified Public Accountant*

VACANT
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Vice Chancellor of Advancement
B.A., Southern Methodist University

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*M.B.A., Quantic School
 of Business and Technology*

KATARINA JENKIN
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*B.S., Berry College
 M.L.I.S., San Jose State University*

Human Resources & Employee Services

JENNIFER DIXON
Vice Chancellor for Human Resources
*B.A., Western Washington University
 J.D., Thomas M. Cooley Law School*

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 & Diversity Recruitment**

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Director of Compliance
M.S.O.L., Regis University

SCOTT RIXON
**Director of Human Resources
 Seattle Central College**
B.B.A., University of Washington

PETRINA SIMS
**Associate Director of
 Payroll and Benefits**
A.A., North Seattle College

VACANT
**Director of Human Resources
 North Seattle College**

Information Technology

CINDY RICHE
**Associate Vice Chancellor
 Chief Information Office**
*B.A., University of Puget Sound
 M.S.W., University of Washington
 MAOM, Northwest Institute of
 Acupuncture and Oriental Medicine
 Ph.D., University of Washington*

HEATHER EMLUND
Operations Manager, Finance & IT

MARIA ALES
Client Services Manager, Central

PABLO BASILIO
**Client Services Manager
 South and North**
*B.A., University of Washington
 M.B.A., Western Governors University*

MEGAN COURT
Academic Programs Systems Manager
*B.A., University of Minnesota, Twin Cities
 M.A., Hamline University*

THARY KHUN
Enterprise Applications
Servers Manager
B.A.S., Central Washington University

KIRSTI THOMAS
Manager, Library Technical Services
B.A., University of Delaware
M.L.S., University of Texas at Austin

ANDREW SWANSEN
Director, Information Technology
B.A., University of Illinois
M.B.A. University of Illinois

VACANT
Enterprise Applications
Integrations Manager

International Programs

LESLIE AEST
Director of International
Marketing & Outreach
Interim Director of
International Admissions
B.A., University of California
M.A., California State University

HISHAM OTHMAN
Director of International Finance
B.A., University of Washington

DELEASHA VINCENT
Director of International
Student Services
B.A., Trinity Western University
M.A., Biola University

Public Relations & Strategic Initiatives

EARNEST PHILLIPS
Vice Chancellor of Public Relations
& Strategic Initiatives
B.A., Brigham Young University
M.P.A., University of Nevada, Las Vegas

BARBARA CHILDS
Associate Vice Chancellor of Public
Relations & Strategic Initiatives
B.A., Brigham Young University

TRACY PHUTIKANIT
Executive Assistant to the VC & AVC of
Public Relations & Strategic Initiatives
B.S., University of California, Riverside
M.Ed., Seattle University

NICK GREENLEE
Director of Student Recruitment
B.A., Northwest University
M.A., Yonsei University

REED WACKER
Web Team Lead

Seattle Colleges Cable Television

TOM BUTTERWORTH
General Manager, SCCtv
B.A., Western Washington University

DEAN CUCCIA
Director of Programming

GREGORY PODESTA
Web Product Manager

Seattle Promise

MELODY MCMILLAN
Senior Executive Director
Seattle Promise
B.A., Georgia Southern University
M.A., University of Louisville
Ph.D., Dartmouth College

KATIE BATES
Director of Retention
Seattle Promise at North
B.A., Gonzaga University
M.A., Seattle University

CHRISTIAN GRANLUND
Director of Outreach
B.A., Washington State University

LISA MALIK
Director of Research and Planning
Seattle Promise
B.S., Marlboro College

ALEX MILAN
Director of Retention, Seattle Promise
A.A., Burlington County College
B.A., Rutgers University
M.Ed., University of Washington

DANIELA SALDANA GURGOL
Director of Retention
Seattle Promise at South
A.A., Southwestern College
B.A., Simmons University
M.A., University of San Diego

Strategic Enrollment Management

CEDRIC B. HOWARD
Associate Vice Chancellor of
Strategic Enrollment Management
B.S., Georgia College and State University
M.Ed., University of Tennessee
Ed.D., Capella University
Ed.D., University of Memphis

TRACY PHUTIKANIT
Executive Assistant to the
Associate Vice Chancellor of
Strategic Enrollment Management
B.S., University of California, Riverside
M.Ed., Seattle University

BECKY THOMPSON
Executive Director of Financial Aid
B.A., Eastern Washington University
Certified Public Accountant

KIM BOBBITT
Director of Financial Aid
Funds Management
B.A., PSCC

VLANOUSE SAINTVIL-KERLEGRAND
Director of Financial Aid
Processing and Technology
B.A.S., Polk State College
J.M., Florida State University

MORIAH SHISTLE
Director, Title III Cooperative SIP Grant
B.A., University of South Florida
M.Ed., Seattle University

Union Representatives

HELENA RIBEIRO
President, AFT Seattle Community
Colleges Local 1789
B.A., University of Arizona
*Ph.D., The Graduate Center of
the City University of New York*

JOHNNY DWYER
President, Washington Federation
of State Employees Local 304

JEFF ENG
Co-President, AFT Seattle
Professional Staff Local 6550
B.S., University of Vermont
M.Ed., Seattle University

DONNA PHAM
Co-President, AFT Seattle
Professional Staff Local 6550
B.A., San Francisco State University

Workforce & Economic Development

DALIA SHERIF
Senior Executive Director
of Workforce Development
M.B.A., Edinburgh Business School
Ph.D., Grand Canyon University

MIKE NIELSEN
Executive Director for Corporate Training
and Continuing Education
B.A., University of Wisconsin, Madison
M.Ed., Western Washington University

Central Faculty & Administration

Office of the President

CHANTAE RECASNER Interim President, Vice Chancellor of Institutional Effectiveness

B.A., Loyola University New Orleans
M.A., M.B.O.E., The Ohio State University
Ph.D., University Of Cincinnati

VACANT

Executive Assistant to the President

IGNACIO ALCARON Director of Grants and Planning

GRANT BOWKER Director of Auxiliary Services

JENNI BRANSTAD Executive Director of Institutional Effectiveness Ph.D., University of Washington

SEAN CHESTERFIELD Director, Safety & Security

LINCOLN FERRIS Advisor to the Presidents and Chancellor B.A., University of Wisconsin

DARRELL JAMIESON Theaters Manager

REBECCA JANSSON Director, Mainstay B.S., M.S., University of Florida Rehabilitation Counselor Certificate, Commission on Rehabilitation

SERENA MANZO Executive Director of Guided Pathways B.A., Azusa Pacific University M.Ed., Seattle University

DENISE PIERCE Manager, Parking and Transportation Services

ADAM RUSSELL Director of Communications

VACANT Vice President of Administrative Services

Instruction

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ALEXIS MCCAMEY Interim Executive Assistant to the Vice President of Instruction B.A., Seattle University

DALE BATEMAN Dean, Seattle Maritime Academy B.S., U.S. Coast Guard Academy M.A., Yale University Divinity School

JEFFREY BERMUDEZ Director, Basic & Transitional Studies

CHELSIA BERRY Associate Dean, STEM-Business B.A., Dillard University M.Ed., Ed.D., Howard University

JOHN BOWERS Interim Dean Basic & Transitional Studies

LISA BURKE Manager, Continuing Education Marketing

JAIME CÁRDENAS Dean, Arts, Humanities, & Social Sciences B.A., M.A., Ph.D., University of California

LAUREN CLINE Dean of Nursing B.S.N., University of Washington, Bothell M.N., University of Washington, Bothell Ed.D., Seattle University

MAUREEN DEVERY Acting Associate Dean Wood Technology Center

LYNN KANNE Dean, Libraries, eLearning, and Employee Development B.A., University of California M.L.S., University of Washington

WADE KENDALL Director of Dental Programs

AIMEE LEPAGE Associate Dean of Culinary

MARILYN MCCAMEY Director of Instructional Operations

TOYA MOORE Program Director, Medical Assisting

ERIKA ROLDAN GUZMAN Director, Learning Center

PAT RUSSELL Executive Dean Healthcare and Human Services Psy.D., Antioch University Seattle

ALISON SHURTLEFF Associate Dean of Nursing B.S., Brigham Young University B.S.N., Jacksonville University M.S.N., Aspen University

RACHAEL ST. CLAIR Director, Continuing Education B.A., Central Washington University M.A., City University of Seattle LMHC, State of WA

MONICA VIHARO Associate Dean, Arts, Humanities & Social Sciences Ph.D., University of Washington

NIRAJ WAGH Dean, STEM-Business B.S., Michigan State University M.S., The Ohio State University Ed.D., University of Florida

Student Services

DIANE COLEMAN Interim Vice President of Student Services Dean, Enrollment Services B.A., University of Maryland University College B.A., M.A., Dominican University of California

KATE MIKHNEVICH Executive Assistant to the Vice President of Student Services

SHERRELL BREWER Interim Director, UMOJA

CEBRINA CHAVEZ Director, Accessibility Resources Center A.A.S., B.A.S., Seattle Central College

TODD HAAK Manager, Running Start B.F.A., Concordia University M.P.A., University of Washington

LISA LINVILLE Registrar

CRYSTINA MAI MOSTAD Student Conduct Officer/Title IX Coordinator (Students) A.A., North Seattle College

BUCKY MCKENZIE Interim Director Admissions & Outreach

KIMBERLY MCRAE Dean, Student Success B.A., Alabama State University M.Ed., City University Ed.D., Northeastern University

DANA PARKER Director, TRIO/STEM

MOLLY PETTIFORD
Director, Student Support
B.A., Clark University
M.Ed., Antioch University

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Interim Director, Student Leadership

TONY VO
Director, Title III

TUYET TRAN
Director, Financial Aid & Veteran Affairs

CAROLYNN TULLUCK
**Director of Advising, Transfer,
 and Running Start**

Faculty

LAUREN K. ACHESON
Dental Hygiene
A.A.S.-T., Seattle Central College
B.S., University of California
M.L.A., University of Washington

MARK H. AINSWORTH
Biology
B.A., Kenyon College
Ph.D., University of California

YESHEWAWOIN AREGAYE
Math
B.S., M.S., Wichita State University

OLIVIA ATKINSON
Arts, Humanities & Social Sciences

MARIA AZPITARTE
Nursing
M.N. R.N., University of Portland

ELIZABETH AZUTILLO
Nursing

KRYSTLE M. BALHAN
Psychology
B.A., Illinois Wesleyan University
M.S., Ph.D., Colorado State University

VERONICA M. BARRERA-KOLB
Humanities
B.A., Evergreen State College
M.A., Pacific Oaks College Northwest
Ph.D., University of Washington

BETH BEADLING
Nursing
B.A., Washington State University
B.S.N., University of Washington
M.S.N., Drexel University

RICCO BONICALZI
Astronomy, Math, & Physics
B.A., Occidental College
M.A., SUNY Stony Brook
Ph.D., University of Washington

JANINE BUIS
Nursing
B.S.N., Grand Canyon University
M.B.A., Rivier College

EMILY S. CASTILLO
Institute of English
B.A., Northern Arizona University
M.A., TESOL, Northern Arizona University

CHRISTOPHER CHAN
Anthropology

CATIE CHAPLAN
Wood Construction
B.A., Colgate University
*Certificate in Marine Carpentry,
 Seattle Central College*

JORDAN CHARLTON
English

KATIE L. CHENU
**Environmental Science
 & Oceanography**
B.S., Worcester Polytechnic Institute
*M.S., Ph.D., Scripps Institution
 of Oceanography*

JENNIFER J. CLARK
Respiratory Care
A.A.S., Seattle Central College
B.A., University of Oklahoma
*M.P.H., Tulane School of Public Health
 and Tropical Medicine*

DOUGLAS COLE
English
B.A., San Diego State University
M.A., Western Washington University

COLLEEN COMIDY
Institute of English
B.A., M.A., University of Washington
M.A., New York University

CHRISTOPHER CONLEY
English as a Second Language
B.A., Minnesota State University
*M.A., TESOL School for International
 Training*

TRACY COOK
Dental Hygiene

PAUL M. CROON
English
B.A., University of Washington
M.A., University of Illinois at Chicago

THOMAS CROTTY
Marine Technology

KATY DICHTER
Library
B.A., Northwestern University
M.L.S., University of Washington

MICHELLE R. DOUMA
Drama & English
B.A., Calvin College
M.A., Purdue University
Ph.D., University of Oregon

MEREDITH DURANT
Dental Hygiene

RANDY EARLE
Faculty/Counselor, TRIO
B.A., Gettysburg College
M.A., Lewis and Clark College
M.A., Seattle University

DAVE ELLENWOOD
Library
B.A., Lewis and Clark College
M.L.I.S., University of Illinois

ERIK A. FADIMAN
Graphic Design
B.A., University of California

MONTE FAISON III
Business Information Technology

MICHAEL FAUCETTE
English
B.A., University of California
B.A., M.A., Ph.D., University of Washington

TIMOTHY FEAGAN
Healthcare & Human Services
B.A., Eastern Washington University

MARYANN L. FIRPO
Math
B.S., University of Washington
M.S., Western Washington University

ALEC FISHER
Arts, Humanities & Social Sciences
B.A., University of Southern Maine

ARLENE FORD
Physics and Computer Science
B.S., Midwestern State University
*M.S., Certificate in Business,
 Ph.D., Texas A&M University*

ANDREA C. FORERO
English as a Second Language
B.A., University of Washington
*M.A., TESOL, School for International
 Training Graduate Institute*

TATIANA GARMENDIA**Art**

A.A., Miami Dade Community College
 B.F.A., Florida International University
 M.F.A., Pratt Institute of Art

JACQUELINE GEORGE**English as a Second Language**

B.A., Central College
 M.A., Washington State University

KATIE GOURD-ASCENCIO**Nursing**

B.S.N., M.S.N., Western Governors University

ANNA HACKMAN**Humanities**

B.A., University of Washington
 M.S., University of Arizona
 Ph.D., University of New Orleans

MARINA L. HALVERSON**Biology & Oceanography**

A.A., Rochester Community
 & Technical College
 B.S., University of Minnesota
 M.S., University of Hawaii

RUBY HANSRA**Counseling**

B.A., Simon Fraser University, BC, Canada
 M.S.W., Eastern Washington University

CHRISTOPHER HARRIS**Seattle Culinary Academy**

Professional Technical Teaching Certificate,
 Western Culinary Institute

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B.S., M.S., Christian-Albrechts-Universität,
 Germany
 Ph.D., University of Washington

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 M.S., Marymount University

EDWYNA M. HO**Social & Human Services**

B.S., Colorado State University
 M.S.W., Professional Technical Teaching
 Certificate, University of Washington

BLISS HOLLOWAY**Visual Media**

B.A., American University of Rome
 B.F.A., Art Center College of Design
 M.A., Argosy University

JOHN W. HORTON**English**

B.A., Evergreen State College
 M.A., Western Washington University
 M.F.A., University of Washington

ASEFEH HOUSHYARI**Economics****LENA HRISTOVA****Nursing****EMILY K. HUDON****Institute of English**

B.A., Western Washington University
 M.A., TESOL, Seattle Pacific University

VALERIE HUNT**Applied Behavioral Science**

B.A., Rhodes College
 M.A., University of Southern California
 Ph.D., University of Washington

GREG JACKSON**Computing Computers**

A.A.S., North Seattle College

ANNA M. JACOBS**Math**

B.S., Gonzaga University
 M.S., Loyola University Chicago

CHARLES JEFFREYS**Psychology**

B.A., Tennessee State University
 M.A., Antioch University

PHEBE B. JEWELL**English**

B.A., Simon Fraser University, Canada
 M.A., Ph.D., University of Washington

ALYSSA JOCSON PORTER**Library**

B.A., Seattle University
 M.L.I.S., University of Washington

ANNIE C. JOHN**General Educational Development**

B.A., University of Calabar, Nigeria
 M.A., University of Port Harcourt, Nigeria

BRYAN J. JOHNS**Math**

B.S., Colorado School of Mines
 M.S., University of Washington

KAREN E. JURGENSEN**Seattle Culinary Academy**

A.A., Professional Technical Teaching
 Certificate, Seattle Art Institute

LAURA C. KEMPEN**French & Literature**

B.A., University of the Pacific
 M.A., Stanford University
 Ph.D., University of Washington

VARIN KEOKITVON**Seattle Culinary Academy**

A.A.S., Seattle Central College

DOL KHANAL**Mathematics**

B.S., M.S., Tribhuvan University-Nepal
 M.S., University of Nevada

BRIAN KIRK**Music**

B.A., California State University
 M.A., Ph.D., New York University

TANYA KNANNLEIN**School of Apparel Design
& Development**

B.F.A., B.A., Professional Technical Teaching
 Certificate, Washington University

PETER R. KNUTSON**Anthropology**

B.A., New School for Social Research
 Ph.D., University of Washington

SAMUEL LAHER**Wood Technology Center**

A.A.S., Seattle Central Community College

TRACY LAI**History**

B.A., University of California
 M.Ed., University of Washington

ALTHEA LAZZARO**Library**

B.A., Oberlin College
 M.A., University of London
 M.L.I.S., University of Washington

FRANCOIS B. LEPEINTRE**Computer Science, Engineering,
& Physics**

M.E., Ecole Centrale de Paris
 M.S., Ph.D., University of Washington

ANN E. LEVINE**English as a Second Language**

B.A., Indiana University
 M.A., Arizona State University
 MATESOL and Teaching Certificate,
 Seattle Pacific University

CARL L. LIVINGSTON**Political Science**

B.A., Oral Roberts University
 J.D., University of Notre Dame

JOY LOCKE**Nursing***B.S.N., M.S.N., University of Washington***ADRIENNE M. LUGG****English as a Second Language****General Educational Development***B.A., Evergreen State College**M.A., Antioch University**TESOL Certificate, Seattle University***SCOTT J. MAHONEY****Respiratory Care***A.A., North Idaho College**A.A.S., Spokane Community College**B.A., Gonzaga University**Professional Technical Teaching Certificate***PEGGY F. MARTIN-WATERS****Social & Human Services***B.A., M.Ed., Professional Technical Teaching**Certificate, Western Washington University***ADRIANNA MARTINEZ****Library****KAITLIN M. MCCLANAHAN****English***B.A., Gonzaga University**M.F.A., University of Nevada***GEORGE MCGUIRE****Biology****JAY MCLEAN-RIGGS****Anatomy and Physiology,****Global Health, Biology***B.S., Washington State University**M.D., M.P.H., Yale University***STANISLAVA V. MEREDITH****Information Technology Instruction***B.S., M.B.A., St. Martin's University***EDWARD L. MESSERLY****Information Technology Instruction***B.A., University of Washington**M.F.A., University of Southern California**M.S., City University**Certificates: Film Animation, AFI**Certifications: MCSE, MCSA, MCP, MCP&I,**MCT, A+, Network+, Security+, IBM, DEL,**Toshiba, Compaq, HP, Apple, Cisco, N***MICHELLE MORADO****History****LAWRENCE MORALES****Math***B.A., California State University**M.S., Brown University**Ph.D., University of Washington***SCOTT MOY****Apparel & Design****JANE M. MUHICH****Math***B.S., University of California, Los Angeles**Teaching Credential, California**State University**M.Ed., University of Washington***ROBERT W. NATOLI****Business Technology Management***B.A., Seattle University**M.A., Professional Technical Teaching**Certificate, Simon Fraser University***TAKAMI NIEDA****English***B.A., Stanford University**M.A., Georgetown University***KAYLEEN U. OKA****Sociology***B.A., Carleton University**M.A., School for International Training**Ph.D., University of Toronto, Canada***ELAINE ONG****Basic & Transitional Studies***B.A., University of Pittsburgh**M.A., Seattle University***NATHAN ORMSBY****Information Technology Programs***A.A., Northwest Connecticut**Community College**B.A., University of Connecticut**M.S., University of Washington***BAYLOR PASCHALL****Seattle Culinary Academy****HEATHER PHARR****Institute of English***B.A., University of Northern Colorado**M.A., University of Arizona***DAVID QUINTERO****Spanish***B.A., M.A., Ph.D., University of Washington***LIESE W. RAJESH****Institute of English***B.A., University of Washington**M.A., TESOL, School for International**Training***HELENA C. RIBEIRO****English***B.A., University of Arizona**Ph.D., The Graduate Center of the**City University of New York***MARJORIE A. RICHARDS****Basic & Transitional Studies***B.A., Whitworth University**M.A., Post Baccalaureate Certificate TESOL,**Seattle University***KATIE M. ROBERTS****American Sign Language***B.A., Gallaudet University**M.A., Teacher's College, Columbia University***MARLA ROBINSON****Nutrition and Biology***A.S., Lake Tahoe Community College**B.S., University of California**M.S., University of Washington***BRYAN RULLAN****Healthcare & Human Services****NAZANIN RUPPENDER****Chemistry***B.S., Georgian Tech**Ph.D., Vanderbilt***KAY A. RUTHERFORD****Communication***B.A., M.A., Washington State University***MARC P. SALVERDA****Graphic Design***B.A., Professional Technical Teaching**Certificate, Washington State University***LORA SCHALLERT****Nursing****JING-SONG SHAH****English as a Second Language***B.A., Sichuan University**M.A., University of Washington***SHAAN S. SHAHABUDDIN****Psychology***B.S., Texas A&M University**M.A., Stephen F. Austin State University***ANNA J. SHAVER****English***B.A., University of Washington**M.Litt., Ph.D., University of Glasgow***DESIREE SIMONS****English***B.S., Syracuse University**M.S., Long Island University***BRIAN D. SMITH****Counseling***B.A., M.Ed., Ph.D., University of Washington***DIANE SNYDER****Nursing***B.S.N., Indiana State University**M.S.N., Grand Canyon University*

HEATHER SORIAGA
Intensive English**GRACE B. SPARKS**
Biology*B.S., Allegheny College
Ph.D., University of Washington***SHARON G. SPENCE-WILCOX**
Library*B.A., Barry University
M.L.S., University of Washington***AGATHA STAVNESLI**
Dental Hygiene*B.S., Western Washington University
M.S.D.H., Eastern Washington University***ERIN L.B. STEINKE**
English*B.A., University of Nebraska
M.A., University of California***KIMBERLY TATE-MALONE**
Library*B.A., University of California
M.L.I.S., University of Washington***TESFAYE TEREFE**
Math*Diploma, Kotebe College of Teacher's
Education, Addis-Ababa, Ethiopia
M.S., People's Friendship University
of Russia, Moscow
M.Ed., Seattle Pacific University***REBECCA TESDELL**
English as a Second Language*B.A., University of Washington
M.A.T., School for International Training***FELICE TIU**
Math & Statistics*B.S., University of San Carlos, Philippines
M.S., Colorado State University
M.S., Oregon State University***DOUGLAS S. TOMPSON**
English as a Second Language
General Educational Development*B.A., M.Ed., Seattle University***JIMMY TRUONG**
Nursing*B.S.N., Seattle University
M.S.N., ARNP-FNP-C, Washington
State University***JONATHAN P. URSIN**
Math & Physics*B.S., M.S., Western Washington University
M.S., University of Washington***KAREN VAN GENDEREN**
English as a Second Language*B.A., Seattle University
M.A., Teachers College, Columbia University***JILL C. VARTENIGIAN**
Graphic Design*B.A., Oberlin College
M.A., M.F.A., Professional Technical
Teaching Certificate, University of Iowa***PAUL VERSCHUEREN**
Mathematics*B.S., University of New Hampshire
M.S., University of Washington***MARIE E. VILLARBA**
Chemistry*B.S., Willamette University
Ph.D., University of Washington***BRYCE WALB**
Faculty/Counselor, TRIO*B.A., Shimer College
M.A., The College of New Jersey***KRYSTA WALIA**
Counseling*B.A., B.S., M.S.W., M.A., University
of Washington***CAROL WANG**
Seattle Culinary Academy**JONI V. WHITSITT**
Surgical Technology*Certificate, Seattle Central Community College
National Certification, National Board
of Surgical Technology and
Surgical Assisting
Professional Technical Teaching Certificate***JOSHUA R. WHORLEY**
Biology*B.A., University of California
Ph.D., University of Washington***DOUGLAS D. WICK**
Chemistry*A.B., Harvard University
Ph.D., University of Rochester***JOHN A. WISELEY**
Biology*B.S., Whitman College
M.S., University of California***STEPHEN WOODS**
English*B.A., Metropolitan College
M.A., Western Washington University
Ph.D., University of Washington***DELTHIA WRIGHT-THOMPSON**
Nursing*B.A., Boston University
M.N., University of Washington***JEB WYMAN**
English*B.A., University of Wisconsin
M.A., Western Washington University***LAUREN E. YASUDA**
Science & Mathematics*B.S., University of California
B.A., Portland State University
M.A., Ph.D., University of Washington
Ph.D., University of Washington*

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328

Faculty & Administration

Office of the President

RACHEL SOLEMSAAS President, Vice Chancellor of Finance and Operations

B.S., De La Salle University
M.P.A., University of Washington
Ed.D., Washington State University

TONI STANKOVIC Executive Assistant to the President

B.A., Seattle University

MICHAEL SPROUSE Director of Communications, Marketing, and Community Relations

B.A., University of Washington

Administrative Services

KRISTEN BURTON Vice President for Administrative Services

B.S., Western Washington University

ARNULFO RAMIREZ Director of Safety & Security

B.S., University of Washington

Student Services

CLAIRE PEINADO Vice President, Student Services

B.A., Stanford University
M.Ed., University of Washington
Ph.D., University of Washington

GRACE SAKUMA Executive Assistant to the Vice President, Student Services

BRALYN BEATHEA Director, Student Leadership & Engagement

B.S., Indiana State University
M.Ed., University of Nevada
Teaching License, Massachusetts
Department of Elementary
& Secondary Education

MOLLY BROWN Director of Advising

B.A., Northwestern University
M.Ed., Seattle University

ROSE BUCHANAN Associate Director Early Childhood Programs

A.A., North Seattle College
B.A., Western Washington University
WA State Teaching Certificate

MICHELLE CRUVER Director, College Access Partnerships

ANDRE DAVIS Dean, Student Success

B.S., Norfolk State University
M.B.A., University of Phoenix
Ph.D., Walden University

KATY FOSTER Manager, Running Start

A.A., Bellevue Community College
B.A., Whitworth University
M.A., University of Denver

JEANICE FREEMAN Director, Workforce Education

B.S., Morrisville State College (SUNY)
M.S., Adelphi University

JILL LANE Acting Director, Division for Access, Community, and Opportunity

B.A., University of North Carolina
at Greensboro

MIGUEL ORTIZ Director, Financial Aid and Veterans Affairs

B.A., Washington State University
M.S., Arkansas State University

RACHAEL TORELLA Director, Disability Services

B.S., Stony Brook University
M.S.W., Boston University
M.A., North Carolina State University

JEANETTE MILLER Dean, Student Support Services

A.A., Green River Community College
B.A., University of Washington
M.S., M.B.A., Western Governors University

JEREMY PEÑA Director, Launch Pad

B.F.A Texas State University
M.Ed., Texas State University
Ed.D., University of Mary Hardin-Baylor

MEGAN VALERIO Director, Roy Flores Wellness Center

B.A., Pacific Lutheran University

Office of Instruction

PETER LORTZ Vice President for Instruction

B.A., DePauw University
M.S., Miami University

MEL CORNING Executive Assistant to the Vice President of Instruction

B.A., City University of
New York – Brooklyn College

ALISSA AGNELLO Interim Dean, Mathematics & Sciences

B.A., Wellesley College
M.S., University of Washington

TINA AKINYI Director, Louis Stokes Alliances for Minority Participation

B.S.Ch.E., M.Eng., Iowa State University

STEVEN BALO Manager, Technical Employment

SAMANTHA DOLAN Interim Associate Dean, Workforce Instruction – Education & Human Services

Certificate, Islandwood Graduate Residency
M.Ed., Ph.D., University of Washington

ANNE FORESTER Dean, Basic and Transitional Studies

B.A., University of the Pacific
M.A., California State Polytechnic University

ANNIE GARRETT Manager, Early Childhood Programs

MYRA KAHA Director of Continuing Education & Contract Training

B.F.A., Southern Illinois University
M.F.A., West Virginia University

MICHELLE MELERO Associate Dean, Workforce Instruction – Technology Programs

BRIAN W. PALMER Dean, Arts, Humanities, & Social Sciences

B.M., University of Idaho
M.M., University of Northern Iowa
M.A., University of Wyoming

DANIEL TARKER Dean, Library & Learning Support Services

B.A., M.F.A., San Francisco State University
Ed.D., Oregon State University

MELANA YANOS Dean, Workforce Instruction

B.A., Dartmouth College
Ph.D., University of Washington

NAUSICA ZORZI Interim Associate Dean, Workforce Instruction – Business & Accounting Programs

Project Management Certification,
University of Washington
M.I.B., Seattle University

Faculty

AMINA ADEN Nursing

ADEWALE ADEOLU Mathematics

AMAL E. AL FAIZ**English as a Second Language**

B.A., Carleton College, Minnesota
M.Ed., Seattle University

HUGO ALAMILLO**Biology**

B.A., University of Kansas
Ph.D., Washington State University

JAWAHIR ALI**Early Childhood Education****MELISSA ALLEN****Counseling****TONI ANDERSON****Business**

M.Ed., University of Washington

ELINOR H. APPEL**English as a Second Language**

B.A., Middlebury College
M.L.S., University of Washington

ROBERT J. ATKINS**Psychology & Sociology**

B.A., M.A., California State University
Ph.D., University of Washington

WILLIAM L. BARRY**Computer Science**

B.S., University of Texas at El Paso
M.S., Seattle University

J. KATIE BARNDT**Biology, Environmental Sciences**

B.A., Whitman College
M.S., University of Washington

LAURIE A. BAUMAN**Biology**

B.A., University of Washington
M.S., Washington State University

TARAJI BELGACEM**English as a Second Language**

B.A., The Colorado College
M.A., Seattle University

DEEPA BHANDARU**Social Justice and Intersectional Studies**

B.A., Humboldt State University
M.A., University of Washington
Ph.D., University of Washington

DANIELLE B. BLACKMAN**English**

B.A., Florida State University
M.F.A., University of Massachusetts

JONATHAN L. BLODGETT**Physical Education**

B.S., Western Washington University

CRISTÓBAL A. BORGES**History**

B.A., University of Washington
M.S., University of North Texas
Ph.D., University of Texas at El Paso

JAMES MARTIN BRADEN**Business**

B.A.Ed., M.Ed., Central
Washington University

ROBERT A. BUNGE JR.**Information Technology**

M.B.A., Keller Graduate School of Management
Certified Cisco Network Associate (CCNA)
M.S., Computing and Software Systems,
University of Washington, Tacoma

CATHRYN CABRAL**English**

B.A., M.A., University of Hawai'i at Manoa

CRAIG CHAMBERS**Workforce Instruction****SYLVIA K. CHAI****English as a Second Language**

B.S., University of Rochester
M.S., State University of New York
Ph.D., New York University

BO CHOI**Art****TERRI S. CHUNG****English**

B.A., Wellesley College
M.A., Stanford University

CAROLINE CONLEY**Library – Reference and Instruction**

B.A., University of Oregon
M.A., University of Washington

CATHERINE CONWAY**Mathematics**

B.A., SUNY Potsdam
M.S., Towson University
M.S. Ed., Johns Hopkins University

MICHAEL COOPER**American Sign Language**

B.S., East Carolina University
M.A., Gallaudet University
American Sign Language Teacher
Association National Certification

JEFFREY CORRALES**Nursing****PAULA D. COSKO****English as a Second Language**

B.A., Teaching Certificate, ESL Advanced
Certification, Seattle University
M.A., Antioch University

LYLE CREWS**Real Estate/Property Management**

B.S., University of Maryland
M.B.A., Ashford University
Doctoral Candidate, Grand Canyon
University

JOEL M. DAHMS**Biology**

B.S., University of Washington
M.S., University of California

NORIS E. DANIEL**Early Childhood Education**

B.S., Colorado State University
M.A., Pacific Oaks College
Professional Technical Teaching Certificate

KHAVIN DEBBS**Parent Education****SHIREEN N. DEBOO****Library – Reference and Instruction**

B.A., Brandeis University
M.L.I.S., University of Washington

LEANN DITTMAR**Pharmacy Technician**

Microbiology Studies, University of Washington
Physician Assistant Certification, Doctor
of Pharmacy, University of Washington

SAMANTHA J. DOLAN**Early Childhood & Family Studies/B.A.S. ECE**

Certificate, Islandwood Graduate Residency
M.Ed., Ph.D., University of Washington

ANDREW DOLE**Workforce Instruction****JAMES A. EATON****English as a Second Language**

B.A., M.A., California State University, Chico

CHARLES J. ECKARD**Electronics**

B.S., Washington State University
M.B.A., Washington State University
Senior Certified Electronics Technician
(CETsr), ETA International

DAVENE T. EYRES**Math & Physics**

B.S.E.E., M.S., University of Washington

LEA EVANS**Parent Education****CHAD FABILLAR****Nursing****SARKA FALTINOVA****Intensive English Program & English as a Second Language**

TESL Certificate, Archer College,
M.A., Comenius University, Slovakia

MELANIE A. FARRAR**Business**

B.A., Central Washington University
M.S., University of Nevada
Washington State Teaching License
Certification

TIMOTHY E. FIEGENBAUM**Electronics**

B.T.E., National University
M.A., Webster University

JOHN T. FIGGE**Geology & Environmental Sciences**

B.A., Western Washington University

KEITH FOE**Accounting**

A.A.S., North Seattle Community College
B.A., University of Washington, Seattle
M.B.A., University of Washington, Tacoma
C.P.A., C.F.A., C.F.P.

TRACY T. FURUTANI**Science**

B.S., California Institute of Technology
M.S., Stanford University
Ph.D., University of Washington

ZACHARY GASS**Political Science**

B.A., University of California, Berkeley
M.A., San Francisco State University

NINDER GILL**Early Child Care and Education**

B.A., Simon Fraser University
Post-Bachelor of Social Work,
University of British Columbia
M.Ed., University of Washington

MORGAN GLEAVES**Chemistry**

B.A., Western Washington University
Ph.D., University of Washington

MELISSA J. GRINLEY**Psychology**

B.A., University of California, Davis
M.S., University of Washington

BETH L. GOSS**Parent Ed**

B.A., Binghamton University
Teaching Certificate, Eastern
Michigan University

ELIZABETH J. GOULET**Biology & Environmental Science**

B.S., University of Washington
M.S., Ph.D., Cornell University

CRAIG GRAYSON**Music**

B.M., Florida State University
M.M., New England Conservatory of Music
D.M.A., University of Washington

DANIEL GROLLMUS**Mathematics****SHARON HAMAR****Intensive English Program**

B.A., Central Washington University
M.A.Ed., Heritage University

JULIA HEINECCIUS**Arts, Humanities & Social Sciences****TRACY HEINLEIN****English**

B.A., Tulane University
M.A., University of Southern Mississippi

TANIA HINO**Parent Education**

A.A., Chemical Dependency Counselor
Certificate, Seattle Central College
B.A., MSW, University of Washington

BRIAN C. HOLT**Psychology**

B.S., Washington State University
M.A., Temple University

WILLIAM J. HOLT**Business**

B.S., Washington State University
M.A., Bastyr University
Training Specialist Certificate, TQM
Certificate, University of Washington

JACKIE J. HONG**Chemistry**

B.S., University of Washington
M.S., Western Washington University
Professional Technical Teaching Certificate

LARRY HOPT**Business & Accounting**

B.A., Boise State University
J.D., University of Washington Law School
Professional Technical Teaching Certificate

KARLEE IKEBARA**English as a Second Language**

M.A., Education

HEIDI A. IVERSON**Biology**

B.S., California Polytechnic State University
Ph.D., University of Washington

ERIK JACCARD**English**

B.A., University of Washington
M.A., Edinburgh University
Ph.D., University of Washington

EDGAR JASSO**Math**

B.S., University of Guanajuato, Mexico
M.S., UNAM University, Mexico

LAURA J.H. JENSEN**English as a Second Language**

B.A., University of California, Santa Barbara
TESOL, M.A., San Francisco State University

KRISTEN JOACHIMIDES**Biology**

B.S., Microbiology, University of New Hampshire
M.S., Microbiology, University of Hawaii, Manoa

MARIA JOHNSON BARRETO**Early Childhood Education****DANIELLE JOVANOVICH****Accounting**

B.S., University of Washington
Certificate of Accountancy,
North Seattle Community College
Licensed Certified Public Accountant,
North Seattle Community College
Washington SBCTC Team – Teacher Trainer
M.A., Western Washington University

STEVEN KANGAS**STEM-Business****ADRIA L. KATKA****English as a Second Language**

B.A., K-12 Teaching Certificate, Western
Washington University
M.A., Seattle Pacific University

MICHELLE KELLY**Art**

B.F.A., University of Washington
M.F.A., Hunter College, City University
of New York

MAKO KIKUCHI**Music****MAUREEN A. KILL****English as a Second Language**

B.A., Mundelein College of Loyola University
M.A M.Ed., National College of Education

HAYOUNG KIM**Early Childhood Education****AMANDA G. KNOWLES****Art**

B.A., University of Pennsylvania
M.A., M.F.A., University of Wisconsin

BYUNGCHAEON KO**Workforce Instruction****YOSHIYUKI KOMADA****Art**

B.F.A., University of Washington
M.F.A., University of Pennsylvania

SCOTT M. KU**Communications**

B.A., Macalester College
M.A., University of Washington

HANNA LANDRUS**Computer Science**

ETHAN LEE
Nursing

KAI-PING LIU
English Second Language
and Intensive English Program
B.A., Wenzao Ursuline University
of Languages, Taiwan
M.A. TESOL, Seattle Pacific University

ERIC LLOYD
Computer Science
M.S., Computer Science

MARLA LOCKHART
Accounting
B.S., Pepperdine University
M.A., Keller Graduate School of Management
CPA, Washington State Board of Accountancy
Professional Technical Teaching Certificate

JESSICA LOGAN
English as a Second Language
A.A., Seattle Central College
B.A., University of Washington
M.A., Eastern Washington University
Certificate, Seattle Pacific University

DIANA MA
English
B.A., University of Washington
M.A., University of Illinois
Teaching Certificate, Antioch University

TIMOTHY MANDZYUK
Computer Science

JENNY (SHU-YEN) MAO
Counseling
B.S., Washington State University
M.S., Western Washington University
Ph.D., Washington State University

KELDA J. MARTENSEN
Art
B.A., Willamette University
M.F.A., Washington University in St. Louis

APRIL MATEROWSKI
Math
A.B., San Diego State University
M.A., University of California Santa Cruz

COLIN MCARTHUR
English
B.A., Northern Arizona University
M.A., University of Washington

DAVID J. MCCONNON
Watch Technology
Watchmakers of Switzerland Training
and Education Program (WOSTEP)
North Seattle College
Certified Watchmaker of the 21st Century
(CW21), American Watchmakers-
Clockmakers Institute (AWCI)
Certified Swiss American Watchmakers
Training Alliance (SAWTA)

LAURA P. MCCracken
English
B.A., Western Washington University
M.A., New Mexico State University

NICOLE MCDERMOTT
Nursing

MARCIA L. MELSNESS
Business
M.B.A., Seattle University, Albers School
of Business and Economics
B.A., Washington State University
Professional Teaching Certificate (K-12),
State of Washington

EMIKO MINATOYA-SHIELDS
Counseling

JOHNNIE MOBLEY
Accounting

MARA E. MULCAHY
Parent Education
B.A., Evergreen State College
M.S.W., Smith College

ZOLA M. MUMFORD
Library – Reference and Instruction
B.A., Antioch College
M.L.I.S., University of Washington
Distance Learning Design & Development
Certificate, University of Washington
Extension

ANN J. MURKOWSKI
Biology
B.S., University of Puget Sound
M.S., Western Washington University

EILEEN MACRAE MURPHY
Math
B.A., M.A., University of Washington

JEFFREY NICHOLS
Mathematics

KATHERINE NOSON
Counseling

GREGORY J. NOVEMBER
English
B.A., Franklin and Marshall College
M.F.A., University of California, Irvine

TOMOKO OKADA
Workforce Instruction

KALYN S. OWENS
Chemistry
B.S., University of California, San Diego
Ph.D., University of California, Davis

JEFFREY T. OWENS
Chemistry
B.S., University of California, Santa Barbara
Ph.D., University of California, Davis

MORGAN OWENS
Basic & Transitional Studies

PAUL PAL
English
B.A., Western Washington University
M.A., Western New Mexico University

GEOFFREY PALMER
Sociology
B.A., M.A., University of Washington

DAN PAZ
Art
B.F.A., Atlanta College of Art (SCAD)
M.F.A., University of Chicago

MEASOVANNARY PEN
Basic & Transitional Studies

CAROLINE R. PEW
Math Chemistry
B.S., M.S., University of Washington

HEATHER PRICE
Chemistry
B.S., Western Washington University
M.S., Ph.D., University of Washington

WINDY PROCTOR
Basic & Transitional Studies

LAUREN A. PSOMOSTITHIS
Accounting
B.S., University of Washington
M.B.A., St. Leo University
C.F.E., Association of Certified Fraud Examiners

SCOTT A. RAUSCH
History
B.A., Reed College
M.A., Ph.D., University of Washington

PAULA REBSOM
Art
B.A., Dickinson State University
M.F.A., University of Oregon

JANE LISTER REIS
Communications
B.A., New York University
M.C.M., Seattle Pacific University

SUZIE REMILLEN
English as a Second Language
B.A., Florida Atlantic University
M.L.S., M.A., Queens College

BENJAMIN ROBERTS
Electronics
B.S., Oregon Institute of Technology
M.S., University of Oregon

JUSTINA ROMPOGREN
English
B.A., M.A., Ph.D., University of Washington

PATRICIA A. ROOT**Physical Education**

B.S., M.S., University of Arizona
ACE, NSCA Certified

CHRISTOPHER D. SANDERS**Electronics**

A.A.S., North Seattle Community College
Medical Imaging Technology, Picker Institute

ELIDIA SANGERMAN**Early Childhood Education****MOVAKEL SARGIZI****Biology & Health**

B.A., University of Washington
M.S., Western Washington University

VINOD SASTRY**Math**

B.A., B.S., M.S., University of California, Irvine
Doctoral Student, University of California

BRIAN K. SAUNDERS**Biology**

B.S., M.S., Western Washington University

SUZANNE H. SCHLADOR**Biology**

B.S., Loyola Marymount University
M.S., California State University, Long Beach

EARL SEDLIK**Accounting**

M.B.A., Harvard University
B.S., Rensselaer Polytechnic Institute

ARMIN SEIDL**Biology**

M.S., Biology, Max Planck Institute of
Neurobiology, Martinsried, Germany
Ph.D., Neurobiology, Max Planck Institute of
Neurobiology, Martinsried, Germany

YULIYA B. SHTERN**English as a Second Language**

B.A., M.A., Russian State University
for Humanities, Moscow

ZAN SIMUNOVIC**Watch Technology**

Training in Neuchatel Switzerland
Watchmakers of Switzerland Training
and Education Program (WOSTEP),
North Seattle College
Rolex Scholarship Award for Best Pivot Gauge
American Watchmakers-Clockmakers
Institute (AWCI) Scholarship Award for
Best Overall Performance

JOSEPH SMITH**Accounting**

B.A., M.B.A., University of Washington
C.P.A., Virginia Board of Accountancy
C.M.A., Institute of Management Accountants

STEPHANIE R. SOLOMON**English as a Second Language**

B.S., University of Texas
M.Ed., City University

SARA L. STAPLETON**English as a Second Language
& I-BEST Program**

B.A., University of Michigan
M.Ed., TESOL, Seattle University

MICHAEL STEFFANCIN**Physics**

B.S., Georgia Tech
M.S., University of Central Florida

TERRI A. STILSON**Biology**

B.S., Florida State University
M.S., University of Florida

JAE HYEUK SUK**Engineering**

B.E., Kyung-Hee University
M.S., Ph.D., University of Washington

CARLA THOMPSON**Co-Op Work Experience/Internships**

B.A., The Evergreen State College
Teacher Certification, Western Washington
University
M.Ed., Instructional Design, Western
Governor's University

HOANG-UYEN T. THORSTENSEN**Pharmacy Technician (AHI)**

B.A., University of Washington
Certificate, Pharmacy Technician,
North Seattle Community College
National Certified Pharmacy Technician
Professional Technical Teaching Certificate

ALIF TISHA**Business****HONORIO S. TODINO****International Business**

B.S., University of Philippines
M.B.A., University of Virginia
Pd.D., University of Western Ontario

CHUN WING TSE**Economics**

B.S., University of Hong Kong
M.S., Hong Kong University of Science
& Technology
Ph.D., Boston University

SHERRY L. TUINSTR**English as a Second Language**

M.A., Seattle Pacific University

JASPER VERSCHOOR**History**

B.A., University of Amsterdam
M.A., University of Amsterdam
Ph.D., Ohio University

ANA D. VILLAR**Library – Reference and Instruction**

B.A., University of Washington
M.L.I.S., University of Washington

MICHAEL VINCENT**Mathematics**

B.A., Mathematics, University of
Washington, Seattle
M.S., Mathematics, Western Washington
University, Bellingham

OLGA VISHNYAKOVA**Philosophy**

B.A., M.S., Ph.D., Moscow State University

JIN WANG**Physics**

B.S., Suzhou University China
M.S., Southern Methodist University at Dallas

SHELLY WARAM**Nursing****BETTY S. WILLIAMS****Parent Ed**

B.A., Vanderbilt University
M.S.W., University of Washington
Professional Technical Teaching Certificate

SAMUEL WILSON**Math**

B.S., Western Washington University
M.S., University of Washington

KEIKO YAMAGUCHI**Japanese**

B.A., Doshisha University, Kyoto
Certificates in Teaching Japanese as a
Foreign Language, Japanese Ministry
of Education and the National Language
Research Institute

CRISTINA M. ZAHAJKO**English, Spanish & French**

B.A., M.A., University of Washington

JIA ZENG**Accounting**

B.A., University of Washington
A.A.S., Shoreline Community College
Certificate of Accountancy,
North Seattle Community College
Certified Trainer, Driver Training School
Instructor, DFS ID Driving School of Seattle
M.A., Washington State University

NAUSICA ZORZI**Business**

Project Management Certification,
University of Washington
M.I.B., Seattle University

South Faculty & Administration

Office of the President

MONICA BROWN

President

Vice Chancellor of Student Services

B.A., Georgetown University

M.A., Trinity College

Ed.D., Morgan State University

KOH PHASOMSAP

Executive Assistant to the President

ALEXIS BURRIS

Interim Director, Division for Access, Community, and Opportunity

GREG DEMPSEY

Executive Director of Institutional Effectiveness

B.S., M.P.A., Eastern Washington University

BRIANE FRANKS

Director of Human Resources

LOLITA KHACHATUROVA

Director of Budget & Business Services

LAURA KINGSTON

Executive Dean of Georgetown Campus

B.A., Pacific Lutheran University

M.A., Western Washington University

HIP NGUYEN

Vice President of Administrative Services

B.A. Central Washington University

M.S.M.L. Western Governor University

MPS, LIM College

TY SWENSON

Director of Communications and Marketing

Office Of Instruction

SAYUMI IREY

Vice President Of Instruction

A.A.S., Everett Community College

B.A., University of Washington

M.L.I.S., University of Washington

Ph.D., University of Washington

Certificate: Harvard University

ALBERT KHACHATUROV

Executive Assistant to the Vice President of Instruction

B.A., University of Washington

ROZELLA CRUZ-TU JUNG

Dean, Basic & Transitional Studies

B.A., Antioch College

M.A., University of Westminster

M.S., Western Governors University

Ed.D., Northeastern University

MAYRA DELANDA

Dean, Library & Instructional Services

B.A., University of Colorado at Boulder

M.I.T., University of Washington

KAREN DEVENARO

Director, Pre-Apprenticeship

LAUREN GETTY

Program Manager

B.A., Gonzaga University

STEPHANIE GUY

Associate Dean, Apprenticeship

B.A., University of Washington

M.P.A., Seattle University

EILEEN JIMENEZ

Dean, Arts, Humanities & Social Sciences

B.A., University of California, Los Angeles

M.S., California State University, Long Beach

Ed.D., University of Washington

LAURA KINGSTON

Executive Dean of Georgetown

B.A., Pacific Lutheran University

M.A., Western Washington University

FERDINAND ORBINO

Dean, Automotive, Aviation, Heavy Diesel & Welding

B.A., University of Washington with Honors

CURTIS PETERSON

Co-Director, Career Link

BRIAN PITT

Director, Continuing Education

ALISON PUGH

Dean of Math, Science, Business & Bachelor of Applied Science Programs

B.A., Mount Holyoke College

M.B.A., Pinchot University

Ed.D., University of Washington

MARA RAFFERTY

Director, Washington Labor Center

BRIAN SCHEEHSE

Dean, Hospitality & Service Occupations

B.S., University of California Davis

MOLLY WARD

Co-Director, Career Link

B.A., Gonzaga University

M.Ed., Seattle University

Student Services

JOE BARRIENTOS

Vice President of Student Services

A.A., Maui Community College

B.A., University of Hawaii

M.A., Seattle University

ERICA VAN STEENHUYSE

Executive Assistant to the Vice President of Student Services

B.A., University of Nevada Las Vegas

B.A., Metropolitan State University

M.A., Loyola Marymount University

MARIANNA ASATUROVA

Director, Tutoring Center

B.A., Azerbaijan State University

VANESSA CALONZO

Director, Guided Pathways

B.A., Washington State University

M.A., Seattle University

KATHERINE COELHO-VERMEULEN

Assistant Director of Advising

B.A., M.Ed., University of Hawaii Manoa

TARA COMPTON

Director, Advising and Running Start

B.A., University of Puget Sound

M.Ed., Seattle University

DENNIS DENMAN

Dean of Student Development

B.A., University of California, Los Angeles

M.Ed., University of Washington, Seattle

Ed.D., University of Washington, Tacoma

MEGAN FONDA

Director Of New Student Services

A.A., South Puget Sound Community College

B.A., Seattle University

M.Ed., University of Washington

COLBY KEENE

Director, Wellness Center

ROSE KOLOVRAT

Director, Disability Support Services

M.A., Cleveland State University

C.R.C., Certified Rehabilitation Counselor

SEBASTIAN MYRICK

Executive Director, TRiO High School Programs, Talent Search & Upward Bound

A.A.S., Everett Community College

B.A., Seattle Pacific University

M.P.A., University of Washington

RACHEL NAVARRO

Director, College Access Partnerships

LAREINA REDWOMAN

Interim Director, Student Funding

SARAH SABAY

Director of Grants

A.A., North Seattle College

B.A., M.Ed., University of Washington

BRIANNE SANCHEZ
Dean, Student Achievement & Registrar
 A.A., Edmonds Community College
 B.S., University of Phoenix

CHRISTA ZINKE
Director, Workforce Retraining

Faculty

STEVE ABERCROMBIE
Applied Sciences
 B.A.S., Sustainable Building Science Technology
 B.A., University of Washington
 M.S., The Evergreen State College

ZAHRA ALAVI
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

MICHAELANN ALLEN
Healthcare & Human Services
 M.A., Education

ANTON AMARATUNGE
Aviation Maintenance Technology
 A.A.S., South Seattle Community College
 B.S., Embry-Riddle Aeronautical University
 M.Ed., University of Washington, Bothell

HOWARD ANDERSEN
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

LAWRENCE ANGEL
Economics
 B.S., California Polytechnic State University
 M.S., California State University
 Ph.D., University of Washington

MARIA AZPITARTE
Nursing
 M.N. R.N., University of Portland

JULIAN BARR
College Transfer

DONELLE BART
ESL
 B.A., Augustana College
 M.Ed., Western Washington University

HALIMAH BELLOW-S-ROCHFORD
ESL
 B.S., New York University
 M.A., University of Exeter
 M.S., San Francisco State University

DAVID BENNETT
Aviation
 A.A.S., South Seattle Community College
 B.A., B.S., Washington State University

JAMES BENTLEY
Aviation
 A.A.S., South Seattle Community College
 B.A.S., South Seattle College

SUSAN BLYTHE-GOODMAN
Career Link
 M.Ed., University of Washington

DAYLENE BOEHM
Physical Fitness/Nutrition
 B.S., Seattle Pacific University
 M.S., Central Washington University

ANALEA BRAUBURGER
Psychology & Spanish
 B.S., Arizona State University
 M.S., Pennsylvania State University

CHARLOTTE BRUN
Library
 B.A., Sciences Po, France
 M.L.I.S., University of Western Ontario

KATHRYN BRUNETTE
Intensive English Language Program
 B.S., Western Washington University
 M.A.-TESOL, Portland State University

GILA BURTON
Justice Involved Solutions
 M.S., University of Washington

JOHN PAUL CALAVITTA
College Transfer

CAROLYN CALLAGHAN
Instructional Support

ANGELA CAMPBELL
Counselor

CAITLIN M. CARLE
English
 B.S., University of Missouri
 M.A., Western Washington University

BARBARA CASTLETON
Intensive English Language Program
 B.S., University of Oregon
 M.A.-TESOL, The Ohio University

KIRK (DOUG) CLAPPER
Automotive Technology
 Northshore Vocation School
 ASE Certification

STEPHEN J. COATES-WHITE
Counseling
 B.A., Whitman College
 M.Ed., Seattle University

DOUGLAS COLLINS
ESL
 B.A., University of Florida
 M.A., University of Washington

HANNAH CROCKETT,
Basic & Transitional Studies

LARRY CUSHNIE
Political Science
 M.A., University of Washington
 M.A., International Institute
 Ph.D., University of Washington

ABIGAIL DAANE
Physics
 M.S., Clemson University
 Ph.D., Seattle Pacific University

JOHN DARIN
Hospitality Programs

SHEILA DE LEON
ESL
 B.A., University of Washington
 M. Ed-TESOL, Seattle University

ENRIQUE DEL TORO SANCHEZ
Heavy Duty Diesel

JORDAN DI FRANCO
Chemistry

DEANN DILLON
College Transfer

RYAN DORMAN
Math
 B.A., B.S., M.A., University of Washington

RICHARD DOWNS
Math
 B.S., University of Minnesota
 M.S., Oregon State University
 M.S., Ph.D., University of Washington
 Registered Mechanical Engineer,
 State of Washington

STEPHANIE ENDSLEY
Chemistry
 B.A., Gustavus Adolphus College
 M.S., University of Washington

ALBERT ENGEL
Engineering
 B.S., Vanderbilt University
 M.S., Stanford University

MEI'LANI EYRE
Library
 B.S.E.E.
 M.S. Applied Physics
 Ph.D. Education, Professional Studies

AKEMI FUJIMOTO
ESL
 B.A., English, Soka University, Japan
 M.I.T., School for International Training

RAVI GANDHAM**Computer Science**

*B.S., Nagarjuna University, India
M.S., University of Georgia*

STEVEN GEYER**Auto Mechanic****GARY GORLAND****ESL**

*B.A., Michigan State University
M.Ed., University of Washington*

DENISE GROLLMUS**Communication**

*B.A., Oberlin College
M.F.A., Pennsylvania State University
Ph.D., University of Washington*

DAPHNE GUERICKE**ESL**

*B.A., University of Goettingen, Germany
M.A., University of Hamburg, Germany
M.A., University of Colorado - Boulder*

STEPHANIE HANKINSON**English**

*B.A., University of California, Davis
M.A., California State University, Sacramento
Ph.D., University of Washington*

JANE HARNES**High School 21+ / GED® / College Prep**

B.A., M.A., Seattle University

CHRISTOPHER HARRIS**Pastry & Specialty Baking**

*Professional Technical Teaching Certificate,
Western Culinary Institute*

DAVID HATFIELD**Hospitality & Service Operations****WENDI HIRSHBERG****Home & Family Life**

B.A., Washington State University

KRISTA HOLDEN**Counselor****REBECCA HUNTLEY****Home & Family Life**

*B.A., Washington State University
M.A., University of Denver*

JONATHAN ISHII**Justice Involved Solutions**

B.A., Seattle University

BELLAMY JACOBS**Library****NANYA JHINGRAN****College Transfer****KENNETH JOHNSON****Welding****ANNE JOINER****Intensive English Language Program**

*B.A., University of Washington
M.A., TESOL, Eastern Michigan University*

MOONKU JUN**Hospitality Programs****PAUL KIKUCHI****Music**

*B.A., Bennington College
M.F.A., California Institute of the Arts*

TERYN KILGORE**Auto Mechanic****SHANNON KING****Intensive English Language Program**

*B.A., University of Kansas
M.A.-TESOL, Seattle University*

LAURA KINGSTON**English**

*B.A., Pacific Lutheran University
M.A., Western Washington University*

ALEXANDER KORSUNSKY**College Transfer****DAVID KRULL****B.A.S., Hospitality Management**

*B.A., University of Washington
J.D., Seattle University School of Law*

KALI KUWADA**Psychology**

*B.A., Western Washington University
M.A., Antioch University
M.A., University of Washington
Ph.D., Antioch University*

GWENDOLYN (ASTRID) LARSEN**Psychology**

*B.A., Montana State University
M.A., Antioch University*

DAVID LOEBE**ESL**

*B.A., University of Washington
M.Ed., University of Georgia*

DAVID LOPEZ**History****LETICIA (TISH) LOPEZ****English**

*A.A., Ventura Community College
B.A., Claremont McKenna College
M.A., University of Washington*

KRISTIN LYSAKER**ESL**

*B.A., University of Wisconsin
M.Ed., Seattle University*

DEREK MADISON**Mathematics**

M.A., University of Washington

NATALIE MAGNUS**College Transfer****AMIKO MATSUO****Art**

*B.A., University of California, Los Angeles
M.F.A., Kansas State University*

SCOTT MCCALL**College Transfer****REBECCA MCCARTHY****Academic Programs**

*B.F.A., Cornish College of the Arts
M.L.S., Rollins College
Ph.D., Florida Atlantic University*

JILL MCDONOUGH**ESL / High School 21+ /****GED® / College Prep.**

*B.A., Western Washington University
TESOL Certificate, Western Washington
University
M.Ed., Seattle University*

KELLY MCKNIGHT**English**

*B.A., University of Texas at Austin
M.Ed., Western Washington University*

ERJON MILE**Auto Mechanic****TINA MILLER****ESL**

*B.A., Wheaton College, Illinois
TESOL Certificate, California State University*

HARIS MUJAHID**Accounting**

M.B.A., Franklin University

RUBEN MURCIA**Biology**

*B.S., Universidad de Montemorelos
M.S., San Diego State University*

MARK MURPHY**Workforce Instruction****JON NACHMAN****High School 21+ / GED® / College Prep**

*B.A., University of Michigan
M.A., University of Washington*

PATRICIA NAYLOR**Library**

M.L.I.S., University of Washington

EMILY NIELSON
Basic & Transitional Studies

HENRY OLSON
Microbiology
B.S., The University of British Columbia
Ph.D., University of Washington

STEPHANIE OOSTMAN
Welding Fabrication

CURTIS PETERSON
Career Link
B.S., Minnesota State University Moorhead
M. Ed., University of Washington

JESSICA PIKUL
Chemistry
B.A., Reed College
Ph.D., University of Washington
Graduate Certificate in Environmental
Management

DONTE QUININE
Communication
B.A., Oregon State University
M.A., Gonzaga University

TERESA ROMANESCHI
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

DOUGLAS RUPIK
Professional Technical

ADELA SAENZ
Short-Term Training Program
B.A., Western Washington University
M.A., University of Phoenix

MARTIN SAUER
Mathematics
B.A., M.B.A., Washington State University

KARL SCHEER
Intensive English Language Program
B.A., Western Washington University
M.Ed., Seattle University

ELIZABETH SCHOENE
Physics
B.S., Harvey Mudd College
Ph.D., University of Oregon

BARBARA SILAS
ESL
B.A., University of Oregon
M.A., TESOL, Seattle University

NATALIE SIMMONS
Mathematics
B.S., Washington State University
M.A., Antioch University

SARAH SKAMSER
Landscape and Horticulture
B.S., Michigan State University
State of Washington Landscaper Certificate
& Nursery Certificate
Professional Technical Teaching Certificate

DREW SPENCE
Justice Involved Solutions

LEO SPIZZIRRI
Math
B.S., University of Washington
M.A., University of California, Santa Cruz

ANNETTE STOFER
ESL/Intensive
English Language Program
B.A., Iowa State University
K-12 Certification, University of Iowa
Advanced TESOL Certification,
Seattle University

ELIZABETH STRONGMAN
Short-Term Training Program
B.A., M.Ed., Seattle Pacific University

PAIGE TALBOT
English
B.A., Lewis & Clark College
M.A., University of Colorado

MICHAEL THOMPSON
History & Literature
B.A., M.A., Ph.D., Washington
State University

JOHN TOUTONGHI
Math
B.S., Seattle University
M.A., University of Washington

ASHA TRAN
Spanish
B.A., Earlham College
M.A., University of Washington

AMANDA VEGA
Anatomy & Physiology
B.S., University of Mount Union
M.S., Ph.D., University of Wisconsin

BAXI VU
ESL
B.S., M.A., Seattle University

ABIGAIL WACHER
Math
B.S., Simon Fraser University
M.S., University of British Columbia
Ph.D., Oxford University

MOLLY WARD
Career Link
B.A., Washington State University
M.A., University of Washington

KATHREN WHITHAM
English & Humanities
B.A., M.A., Western Washington University

YVONNE WILLIS-OGUNTUWASE
Counseling
A.A., Seattle Central Community College
B.A., University of Washington
M.A., Seattle University

WENDY WINELAND
Career Link

TIMOTHY WOOD
Career Link

REBECCA YEDLIN
High School 21+ / GED® / College Prep
B.A., Evergreen State College
M.S., Capella University Online Learning

JIAN ZOU
Math
B.S., Wuhan University of Industry, China
M.S., Ph.D., University of Toronto

ACADEMIC CALENDAR

Summer Quarter 2025

Classes begin	Mon, July 7
Quarter ends	Thu, Aug 28

Fall Quarter 2025

Classes begin	Mon, Sept 29
Veterans Day	Tues, Nov 11
Thanksgiving	Thu, Nov 27
Native American Heritage Day	Fri, Nov 28
Quarter ends	Wed, Dec 17

Winter Quarter 2026

Classes begin	Mon, Jan 5
Dr. Martin Luther King Jr. holiday	Mon, Jan 19
Presidents Day	Mon, Feb 16
Quarter ends	Wed, Mar 25

Spring Quarter 2026

Classes begin	Mon, Apr 6
Memorial Day	Mon, May 25
Quarter ends	Mon, June 22

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 or send an email to alerts@seattlecolleges.edu.

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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 College District VI

District Administrative Office
1500 Harvard Avenue
Seattle, WA 98122-3803

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