

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. In fact, North consistently ranks among the highest of all community colleges in the number of students who are accepted to the University of Washington's main campus. And North graduates fare well—for three of the last five years, a North transfer student has won the top academic award at the University of Washington or Seattle University.

North also provides outstanding career training in more than 50 certificate and degree programs including those in emerging fields such as nanotechnology, sustainable and conventional energy and control technology, and fraud accounting. North helps students earn GEDs, learn English, enhance basic skills, and pursue a new skill or personal interest.

North Seattle College has three Bachelor of Applied Science (B.A.S.) degree programs in International Business, Information Technology: Application Development, and Early Childhood Education. All of North's B.A.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 B.A.S. programs in the future, so keep checking the college website.

The college also provides a rich student life. Concerts, plays, intramural sports, fitness programs, an award-winning literary magazine, and diverse student population add depth to students' experiences. Conveniently located in a quiet residential neighborhood five miles north of downtown, the campus includes environmentally sensitive wetlands which have inspired a college-wide commitment to sustainability.

Come for a visit and learn how North changes lives.

Vision

North Seattle College is a progressive educational resource, actively engaged with its community and known for innovation and responsiveness.



Getting Started at North

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

Mission

North Seattle College is committed to changing lives through education. We achieve our mission by offering comprehensive educational opportunities, creating a highly supportive learning environment, and engaging in effective and enduring partnerships.

Core Themes

- Excelling in Teaching and Learning
- Advancing Student Success
- Building a Sustainable Community

Academic & Student Support Services



Facts at a Glance*

2015-2016 ANNUAL PROFILES

Annual attendance 2015–2016 15,535

Special Enrollments

Distance Education 4,189
Running Start 394
International Students 1,452
Worker Retraining 394

FALL 2016 PROFILES

Students **

Median age	30
Ethnic diversity	44%
Male/Female	39%/61%
With bachelor or higher degrees	31%
Employed	57%
full-time	31%
With dependents	29%
single parents	6%
Full-time/Part-time attendance	29%/71%

Programs

- 3	
Academic Transfer	40%
Workforce Education	45%
Basic Skills	9%
Pre-college and Others	6%

Course Funding Sources

<u> </u>	
State-funded	64%
Contract-supported	9%
Student-supported	27%

^{*} Source: State Board for Community and Technical Colleges Data Warehouse and Seattle College District's Database.

Advising

(206) 934-3658 ■ advisornorth@seattlecolleges.edu northseattle.edu/advising

Advisors help students select courses and programs to reach their educational goals. Students seeking degrees or certificates attend new student orientation sessions, where they receive information about North and their program of study, and are assisted in selecting classes. Currently enrolled students work with advisors to develop educational plans based on the degrees or certificates they are pursuing. Advising provides resources and workshops on college transfer planning and provides opportunities for students to meet with four-year college representatives.

Career Services and Internships

Career Services

(206) 934-6074 ■ CareerServices@seattlecolleges.edu northseattle.edu/career-services

Career Services provides students with full-time and parttime job listings, job search training, labor market information,
and assistance clarifying career and occupational goals.
Career Services can also provide Career Search workshops
in the classroom or work with students one-to-one. The
WorkSource Affiliate 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.

Internships

(206) 934-3734

northseattle.edu/services/internships/

Internships provide students with the opportunity to earn college credit while gaining practical work experience in their field of study. The Internship Program begins with CWE 101, which is a two-credit course designed to assist students in developing and applying for internships. Once an internship is secured, CWE 110 provides three credits for the internship.

Class Schedule Quarterly

northseattle.edu/schedule

Each college produces a quarterly Class Schedule listing the specific courses being offered that quarter. This schedule is available online approximately six weeks before the start of each quarter. View the online class schedule or download a PDF of the printed schedule at the website above.

^{**} State-funded

Computer Labs

(206) 934-3630

itservices.northseattle.edu/content/open-computer-lab

Students at North have access to 70 computers in the Library and 50 more in the open computer lab in IB3303. In addition, all students with a North Seattle College NetID account can access the North wireless network from many areas on campus.

Counseling

(206) 934-3676

northseattle.edu/counseling

Counseling offers North students individual appointments, classes, workshops, and online self-help to identify career interests and select programs of study and majors. Counseling can help students improve concentration, study skills, test taking, lower stress and crisis management and to find referral resources.

Disability Services

(206) 934-3697 Fax (206) 934-3958 ds@seattlecolleges.edu northseattle.edu/disability-services

The Disability Services office provides accommodations so qualified students with disabilities have an equal opportunity to participate at North. Accommodations include, but are not limited to, sign language interpreters, adaptive equipment and software, testing modifications, note taking, and books in alternative format. Students are encouraged to contact Disability Services as soon as possible in order to avoid delays in accommodations. This office also offers consultations to faculty and staff about course content that provides equal access.

> For specific details and additional information on eligibility and policies, see page 45.

eLearning/Distance Education

(206) 934-3738

North's eLearning Support Center provides logistical support to distance learners as well as on-campus students in hybrid and web-enhanced classes. Academic divisions offer many credit courses and curricula through several non-traditional delivery modes, including fully online and blended learning. These modes bring new learning options to students who have diverse learning styles, those who require flexibility in their schedules, and those who do not live within commuting distance. Students can earn an A.A. Degree and/or receive specific certificates through fully online courses.

See page 25 for complete information on eLearning options.

International Programs

(206) 934-3672 international@seattlecolleges.edu FAX (206) 934-3794 ip.northseattle.edu

International Programs (IP) oversees admissions of international students for study in the U.S. as well as Study Abroad Programs for domestic students. IP provides international student admissions, activities, and services for students who have non-resident visas. IP processes admission applications for international students and assists them after admission. Contact this office for information about international admissions, or for assistance with academic issues, immigration regulations, housing, or personal concerns. Field trips and other student activities promoting intercultural communication and enhanced experience of American culture are also provided. Students interested in Study Abroad should contact the IP office to learn about programs and scholarship opportunities.

See page 27 for more information.

Library Services, Student Media Center, and Teaching & Learning Center

(206) 934-3607

library.northseattle.edu

Library Services offers a wide range of books, eBooks, journals, magazines, DVDs, videos, CDs, digital cameras, and digital voice recorders for checkout or use in the library or classroom. Computer workstations provide access to the online library catalog, the Internet, databases, magazines, eJournals, journals, newspapers, encyclopedias, and more. Students have access to the collections of all Seattle Colleges and a national library collection database. Librarians can help students take full advantage of library resources. The librarians also offer for-credit classes in information literacy.

The Student Media Center (SMC) is on the upper floor of the NSC Library. The SMC provides students with access to media resources and basic instruction, enabling them to incorporate audiovisual and print media into their course assignments and presentations.

North's Teaching and Learning Center (TLC) is dedicated to the professional development of North's faculty and staff. We actively support and encourage the continuous improvement of teaching and learning at NSC.

Opportunity Center for Employment & Education

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

The Opportunity Center for Employment & Education (OCE&E) brings together multiple state agencies, community-based organizations and community colleges to help customers achieve self-sufficiency through education and employment.

The Center offers an enhanced experience for the unemployed, the underemployed, students, and their families. It provides access to WorkSource employment services, Department of Social & Health Services benefits, North's Workforce Education resources, and numerous other employment, education, and social services organizations—all conveniently located in one building at North Seattle College.

Testing Center

(206) 934-3674 northseattle.edu/testing

Students seeking a degree or certificate or enrolling in most English or mathematics classes (or classes with English or mathematics prerequisites) must take the placement tests prior to registration. These tests help the student and advisor to select appropriate classes. The placement tests are offered during weekly drop-in hours. Basic Transitional Skills test which include ABE and ESL placement tests are also available during drop-in hours. GED exams need to be scheduled through ged.com. For testing schedule and detailed information, visit the website or the Testing Center.

Student Learning Center

(206) 934-4752 northseattle.edu/tutoring HSSR building next to the Grove Café

The Student Learning Center offers comprehensive one-onone 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.

Important Areas in the Student Learning Center

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 (MSLC)

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

(206) 934-7309

https://northseattle.edu/office-veterans-services

The Office of Veterans Services at North Seattle College offers a range of assistance to veterans, reservists, active duty personnel, and eligible family members who receive Veterans Affairs education benefits.

We provide help with any issues having to do with veteran status and serve as a resource for military personnel transitioning into civilian life.

We also offer certification services for anyone eligible for: Chapter 33 Post 9/11 Gl Bill; Chapter 30 Montgomery Gl Bill; Chapter 31 Vocational Rehabilitation; Chapter 35 Aid for Eligible Family Members and Chapter 1606/1607 Selective Reservists.

See page 33 for financial aid information.

Gender Equity Center

(206) 934-3696 northseattle.edu/womens-center

The Gender Equity Center connects current and prospective students to resources, referral, and information such as housing assistance, health care, childcare, intimate partner/domestic violence, and contraception. To foster diversity, equity, and care, the Gender Equity Center also helps organize, plan, and sponsor campus events and initiatives on gender and sexuality to support a welcoming campus environment. In collaboration with Student Leadership, the Gender Equity Center connects students to clubs such as the Feminist Alliance, the LGBTQ Club, and Sexes and Scholars Book Club.

Student Life

WorkForce Education Programs

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

WorkFirst (206) 934-3769

North Seattle College is a WorkFirst contractor that provides tuition assistance and support for eligible students. In order 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 helps low-income Washington residents increase job skills and knowledge to become eligible for living-wage, high-demand careers in nursing, nursing assistant, general business, IBEST Phlebotomy, IBEST Early Childhood Education, accounting, or HVAC (heating and cooling systems). 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.

Basic Food Employment and Training

The Basic Food Employment & Training (BFET) program is available to individuals who receive basic food assistance from DSHS, meet program eligibility guidelines, and are not receiving TANF cash assistance. Students who participate in BFET are eligible to receive tuition assistance and other support services. Students can pursue a career training certificate or degree, English as a Second Language (ESL) classes, or a high school completion or high school equivalency certificate.

Worker Retraining

Worker Retraining provides tuition assistance for students who are eligible for Unemployment Insurance (UI) benefits; have exhausted unemployment benefits within the past 48 months; veterans who has 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 within the past 48 months or self-employed, but are now unemployed due to economic changes in your community.

Art Gallery

(206) 934-4557

northseattle.edu/programs/art

The art gallery is a professional art gallery featuring artwork by regional artists working in a range of media. The gallery hangs six different exhibitions annually, including a student show in spring. It is located next to the bookstore in IB1430.

11 am-3 pm, Mon-Fri 5-8 pm, Wed and Thurs evenings

Bookstore

(206) 934-4678

northscc.bncollege.com/

The Bookstore carries textbooks, supplemental course materials, food and drinks, school supplies, and North clothing. Rent textbooks and save an average of 50%. Purchase books online to get first pick of the used books, and save time in line. The Bookstore also offers a year-round textbook buy-back service.

Hours: 8 am-6 pm, Mon & Tues; 8 am-4:30 pm, Wed-Fri

Childcare Center

(206) 934-3644

northseattle.edu/child-care

For the children of students at North, the ASB Child Care Center provides a safe, supportive, welcoming, and diverse environment that fosters student access, retention and success. The childcare center is licensed by the Department of Early Learning of Washington state and participates in the City of Seattle's Child Care Assistance Program. It serves children ages 18 months through five years old. Call for tours or fee information.

Hours: 7:30 am-4 pm, Mon-Fri

Food Services

(206) 934-3728

northseattle.edu/dining-services

The Espresso Lounge features Caffe Vita coffee, other drinks, an array of fresh pastries and sweets, and healthy, locally-prepared breakfast items. The North Star Cafe serves breakfast and lunch and features a rotating menu of regional and international entrées, gourmet pizza and burgers, and a selection of vegetarian and dietary-friendly options. Both venues feature local, sustainable ingredients. The Espresso Lounge can be opened for special events, and Food Services offers special event catering services.

Housing

(206) 934-3641

On-campus housing is not available. However, a bulletin board lists various accommodations that are available in the local area. Call if you need housing or if you have a room or apartment available for students to rent.

Safety & Security

(206) 934-3636 northseattle.edu/safety

The well-being and safety of students are of utmost importance. The office provides security services, maintains a campus crime log and provides notices of possible threats. In the event of an on-campus crime, serious accident or injury, students should call 911 first, and then notify campus security. Contact the office for non-life threatening incidents or injuries as well. Campus pay phones are programmed for one-button, free calls to security and 911.

See page 42 for additional information on personal safety.

Student Clubs

(206) 934-3641

studentleadership.northseattle.edu/clubs

Clubs provide students with opportunities to develop leadership skills and to promote personal and intellectual growth. Participation provides experience in planning, organizing, and working in teams. For information about student clubs, see the website or visit the Student Leadership and Multicultural Programs office located on the north end, ground floor of the College Center building.



Student Administrative Team (SAT)

(206) 934-3642

studentleadership.northseattle.edu

The Student Administrative Team (SAT) serves as North Seattle College's executive student government. SAT advocates for the student body by working with faculty, staff and administration to ensure that student needs and concerns are addressed. SAT, including the Student Body President, also provides leadership and daily support to the 7 Student Boards:

- Student Fee Board
- Events Board
- Student Cabinet
- Research and Advocacy Board
- Communications Board
- Sustainability Board
- Club Council

Each board includes students who work with college staff, faculty, and administration on behalf of their constituents, the student body. Students who serve on a board or SAT, receive an hourly wage, training and mentoring designed to strengthen their leadership skills and to provide a foundation for success.

Student Insurance

Brochure information on student injury and sickness insurance is available at the Cashier's Office (206-934-3627) or at northseattle.edu/cashiers-office/student-insurance.

See page 37 for information on Student Insurance.

Student Leadership & Multicultural Programs

(206) 934-3642

https://studentleadership.northseattle.edu/

The department of Student Leadership and Multicultural Programs (SLMP) administers North's Student Leadership program, which consists of approximately forty paid Student Leaders, and collaborates with college faculty, staff, and the administration to develop programming that engages and represents our diverse student body. SLMP promotes and aids in creating a campus climate and culture that respects and celebrates diversity.

SLMP provides leadership training and advising for Student Leaders, as well as a wide variety of cultural, educational, and leisure programs that fuel a vibrant and inclusive campus life. SLMP is committed to supporting students from all backgrounds, experiences, and levels of academic preparation.

Affiliate Organizations

Transportation & Parking

(206) 934-0060

northseattle.edu/transportation

North is served by several Metro bus routes. Carpooling, walking, busing, biking, and van pooling 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. Call (206) 934-3646 for more information.

Parking

(206) 934-3636

Students may purchase a parking permit 30 days prior to start of the quarter online at seattlecolleges.edu/parkingpermit. Carpool parking is also available. Campus speed limit is 15 mph. Purchase daily parking at Cashier's Office or permit machines on the parking lots.

The Roy Flores Wellness Center / Student Recreation

(206) 934-3631 Information Line (206) 934-3649 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 gym for playing basketball or volleyball. The Wellness Center fee of \$1.25 per credit up to 10 credits entitles students to use the facility and to participate in free, drop-in sessions. The current schedule is available on the website.

Alumni Association

(206) 934-3604

www.facebook.com/nsccalumni

The Alumni Association of North Seattle College was established to build and sustain meaningful relationships with our former students in order to foster the success of current and future students. All students who have attended the college, even if they did not complete a certificate or degree, are considered alumni. The goals of the Alumni Association are to provide alumni recognition; encourage participation in lifelong learning; offer professional development and networking opportunities; establish volunteer opportunities, including mentorship for current students; and gather feedback to enhance college programs and services. Membership is free. Join online at nsceducationfund.org/alumni.

North Seattle College Education Fund

(206) 934-3604

NSCCEducationFund@seattlecolleges.edu northseattle.edu/edfund

A non-profit 501(c)(3) organization guided by a volunteer board of directors comprised of community and business leaders, the Education Fund provides support for North students through scholarships and emergency assistance, and for faculty and staff through professional development grants. The Education Fund also assists with the purchase of classroom equipment and supports other college programs that benefit students. Student scholarships are awarded annually and faculty mini-grants are awarded on a quarterly basis.



Programs of Study at North

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 serves a diverse student population with a wide variety of education backgrounds and goals. As a learning community, we foster and promote the following outcomes:

KNOWLEDGE

 facts, theories, perspectives and methodologies within and across disciplines

INTELLECTUAL AND PRACTICAL SKILLS, INCLUDING

- critical thinking and problem-solving
- communication and self-expression
- quantitative reasoning
- information literacy
- technological proficiency
- collaboration: group and team work

PERSONAL AND SOCIAL RESPONSIBILITY, INCLUDING

- civic engagement: local, global, and environmental
- intercultural knowledge and competence
- ethical awareness and personal integrity
- lifelong learning and personal well-being

INTEGRATIVE AND APPLIED LEARNING

 synthesis and application of knowledge, skills, and responsibilities to new settings and problems

Associate of Arts Degree Learning Outcomes

See page 5.

Associate of Science Degree Learning Outcomes

Students completing the Associate of Science degree should:

- Recognize the interdisciplinary nature of the sciences and use scientific inquiry to critically evaluate a proposal, claim, process or theory.
- Generate significant questions about the physical world and use the tools of science or engineering to design and conduct an experiment; draw conclusions based on a systematic collection and analysis of qualitative and quantitative data.
- Recognize and interpret the meaning of quantitative and mathematical symbols and apply appropriate logic, tools and processes to make meaningful decisions and solve problems. Utilize multiple representations, including graphical, symbolic, numerical and narrative, to analyze and solve problems.
- Obtain, comprehend, analyze, evaluate, internalize and act upon knowledge in order to understand and communicate complex scientific systems and reasoning.
- Use appropriate documentation to exchange spoken, written and visual information in order to communicate effectively and to participate as an effective team member within the scientific community and other appropriate settings.
- Apply scientific or technical knowledge and practice to a variety of disciplines in order to understand issues, solve problems and engage in responsible practices.
- Apply modes of inquiry from the social sciences to issues and problems found in individuals' lives and work, in their local, national and global communities, and to find effective and ethical solutions to society's problems and challenges.
- Explore, interpret and represent human experience through the arts.



8 Directions for Your Education and Training

- 1. College Transfer
- 2. Professional/Technical Programs
- 3. Bachelor's Degrees
- 4. Continuing & Contract Education
- 5. Bridge to College/Pre-College
- 6. eLearning / Distance Education
- 7. International Programs
- 8. Worker Retraining Program



College Transfer

Academic Programs

(206) 934-7306

North Seattle College offers a full range of college transfer courses that apply toward a four-year program of study. In addition to the Associate of Arts (A.A.) and Associate of Science (A.S.) degrees, North also offers an Associate in Business (A.B.) degree, and an Associate of Fine Arts (A.F.A.) degree in Art. For detailed information on the A.A. degree, see pages 7-9.

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

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

College transfer courses are offered in several disciplines, including:

Accounting Geology Health Anthropology Art History Humanities Astronomy Biology Journalism **Business** Mathematics Music Chemistry Communication Nutrition

General/Biological Science

Philosophy **Computer Science** Earth Science **Physics Economics** Political Science English Psychology **Environmental Science** Sociology

World Languages Geography

Theater

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

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

> See pages 7-9 for college transfer course requirements for A.A. or A.S. degree.

Associate of Science Transfer (A.S.) Degree

This degree is intended for students who wish to transfer as juniors to four-year institutions in the state of Washington.

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

Two different study options are offered:

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

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

Associate of Science (A.S.)

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

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

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Associate in Business (A.B.-DTA)

Direct Transfer Agreement

Workforce Instruction Division (206) 934-3730

This business degree is designed for students who plan to transfer in the area of business studies. It will satisfy the lower division general education (core) requirements and the lower division business requirements at Washington's public four-year colleges and universities.

This degree shall be granted only to students who have completed 90 college level credits with a minimum cumulative grade point average of at least 2.0 with at least 15 college credits taken at North.

GENERAL EDUCATION COURSES FNGL & 101 English Composition I

_	position II	5
COMMUNICATION		10
Following car	d Mathematics	
QUALITATIVE/SYN	IBOLIC REASONING	5
	nimum of two different prefixes with credits in a discipline area.	
VISUAL, LITERARY	AND PERFORMING ARTS	15
ECON& 202 Mad	ro Economics	5
INDIVIDUAL, CULT	URES AND SOCIETIES	15
Following car	iness Calculus n be substituted: Calculus I	
Physical, biologica	Calculus w/Geometry II	
THE NATURAL WO	RLD	15
ACCT& 202 Fina ACCT& 203 Mar BUS& 201 Bus	ancial Accounting I	5 5
BUSINESS COURS	SES	25
U. S. CULTURES		5
TOTAL PROGRAM	CREDITS	90

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.

Fine Arts in Art

Arts. Humanities and Social Sciences (206) 934-3709

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

Candidates for the Associate of Fine Arts degree in Art must complete a minimum of 100 college transfer-level courses (numbered 100 and above) with a grade point average (GPA) of 2.0 or higher. At least 15 credits must be earned at North Seattle College (NSC). The last quarter must be in residence at NSC.

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

The A.F.A.: Art requires General Education courses as follows: ENGL& 101 and 102; and one of the following computation courses: MATH& 107 or above, BUS 116, ACCT 110 or above. Students must also complete 15 credits in the three areas of Knowledge: 5 - from Visual, Literary, and Performing Arts other than ART courses; 5 - from Individuals in Culture and Society, and 5 - from the Natural World. There are also 45 required ART credits and a minimum of 25 ART electives. Some of the art courses are offered only once a year, so students should consult the annual schedule (e.g. ART 251, Fall; ART 252, Winter; ART 253, Spring; ART 101, Spring; ART 112 and ART 205, 206, 207, Winter and Spring but not Fall). During the final quarter students must submit a portfolio of work of at least eight pieces for evaluation. The art faculty will provide exact details on portfolio preparation and will review and vote on acceptability toward the degree.

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

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

Associate of Fine Arts Degree in Art (A.F.A) **REQUIRED COURSES ART** 101 Design......5 **ART ART** ART **ART** 121 Introduction to Printmaking 5 ART Digital & Graphic Art - Photoshop + Illustrator .5 **ART** Following can be substituted: ART Art history courses are taught at Seattle Central or other college. **ART** 253 Survey of Western Art: Renaissance-Present . . 5 Art history courses are taught at Seattle Central or other college. **ART GENERAL EDUCATION COURSES** Visual, Literary & Performing Arts course (non-Art) 5 Individuals, Cultures & Societies course5 Select five credits from courses below: ACCT 110 Introduction to Accounting/Bookkeeping I...5 Following can be substituted: ACCT course higher than ACCT 110 BUS 116 Business Math/Spreadsheets 5 MATH&107 Math in Society......5 Following can be substituted: Math course higher than MATH& 107 30 **GENERAL EDUCATION CREDITS ART ELECTIVES GROUP 1: 2-DIMENSIONAL ART** Approved Art Electives must be taken in sequence; however, completion of a sequence is not required. **ART** 110 Visualizing Science and Technology 5 ART ART Introduction to Digital Photography I 5 **ART** 115 Introduction to Digital Photography II. 5 **ART** 121 Introduction to Printmaking 5 ART Introduction to Printmaking-Intermediate. 5 122 **ART** 123 Continuing Printmaking: Monotype and ART **ART ART ART ART** Digital & Graphic Art - Intermediate. 5 AR GROUP 1 - 2-DIMENSIONAL ART MINIMUM 5

ART ELECTIVES GROUP 2: 3-DIMENSIONAL ART

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

ART	211	Sculpture5
ART	212	Sculpture5
ART	213	Sculpture5
ART	221	Ceramic Art
ART	222	Ceramic Art
ART	223	Ceramic Art
ART	281	Jewelry Design I
ART	282	Jewelry Design II5
ART	283	Introduction to Alloying and Jewelry Casting 5
ART	284	Bench Techniques and Practices5
ART	285	Metal Techniques for Small Scale Sculpture 5
GROUI	P 2 - 3-I	DIMENSIONAL ART MINIMUM 5
ELECT	IVES B	ETWEEN GROUP 1 AND GROUP 2 MINIMUM 25
TOTAL	DDOOL	NAMA ODEDITO MINUMUMA 400 - DODTEOLIO

TOTAL PROGRAM CREDITS MINIMUM 100 + PORTFOLIO

Special Opportunities for Upper Division Courses

Eastern Washington University at North

(509) 359-6254 (EWU Dept of Engineering & Design) www.ewu.edu/CSHE/Programs/Engineering/NSCCEE

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

Washington State University Online

(206) 934-7306 North Advising

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

Western Washington University at North (206) 934-3719

http://wce.wwu.edu/teop/north-seattle

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

Professional & Technical Programs

See page 113 for details about North's programs.

3

Bachelor's Degrees

North Seattle College offers three Bachelor of Applied Science degrees—International Business, Application Development, and Early Childhood Education. These degrees build on associate degrees that provide workplace skills in specific career areas. When compared to traditional bachelor's degrees, applied baccalaureate degrees incorporate more applied, hands-on learning focused on a particular industry. They are designed with strong internship components.

Tuition rates are different for upper division courses; see the rate chart on page 19.

Application Development

Math and Science Division (206) 934-7025

The Bachelor of Applied Science in Application Development at North Seattle College provides a bachelor's degree opportunity for students who already have Information Technology degrees (IT) such as Associate of Applied Science (A.A.S.) or students who are interested in the programming field and have at least two years' worth of college credit. The B.A.S. degree focuses on the industry relevant education and skills needed by software developers and programmers who develop, create, and modify general computer applications software, mobile applications, or specialized utility programs. Students learn to analyze user needs and develop software solutions and design or customize software. The emphasis is on solving real world application problems through industry-based projects that meet customer needs and emerging software trends.

A minimum of 2.5 cumulative GPA and a 2.5 GPA or higher in all IT courses. Any General Education Requirements taken as part of the associate degree can be transferred in to satisfy requirements. Contact the program office for further information.

Application Development Bachelor of Applied Science Degree (B.A.S.)

DEGREE REQUIREMENTS

Associate of Applied Science (A.A.S. or A.A.S.-T) or equivalent degree preferably in an Information Technology-related field such as programming, database development or web development.

	•	TES - IT COURSES	
		velopment/Programming in SQL	
Web P	rogram	ming/Web Development	5
Progra	mming		10
		5 credits of Object-Oriented Programming	
		strongly recommended	
		(Equivalent courses may be substituted)	
PRERE	:QUISIT	TIES - IT CREDITS	20
	•	TES - GENERAL EDUCATION	
Quanti	tative/	Symbolic Reasoning (QSR)	5
		QSR course in Computer Science, Statistics Mathematics (Statistics recommended)	s or
		(Equivalent courses may be substituted)	
ENGL8	k 101	English Composition I	5
PRERE	QUISI7	ES - GENERAL EDUCATION CREDITS	10
TECHN	IICAL S	SPECIALTY COURSES	
AD	300	Component Software	5
AD	310	Software Lifecycle	
AD	315	Discrete Mathematics in Computer	
		Programming	5
AD	320	Web Application Development	5
AD	325	Data Structure & Algorithms	5
AD	330	Professional Communication in IT	5
AD	340	Mobile Application Development	5
AD	350	Database Technology	5
AD	400	Project Management in Software Development	
AD	410	Web Application Practicum	
AD	420	Cloud Computing - Software As Service	
AD	430	Mobile Application Practicum	
AD	440	Cloud Computing Practicum	
AD	490	Internship/Capstone Project AD-B.A.S	
TECHN	IICAL S	SPECIALTY CREDITS	70
		STRUCTION	
		Center for list of approved courses.	
		ry and Performing Arts	
	, , , , ,	Iltures and Societies	
Natura	al World	I, the	10
0		At least one 5 Credits lab required.	_
Comm	unicati		5
		5 credits in a Composition, Writing-intensive or basic speaking skills courses	э,
Genera	al Educ		15
		Credits may be selected to best suit the ne	eds
		of the baccalaureate program.	
RELAT	ED INS	TRUCTION CREDITS	60
ELECT			
	_	Center for list of courses.	
		credits taken towards the associate degree a prerequisites	and/
ELECT	IVES C	REDITS	50
TOTAL	PROGE	RAM CREDITS	180

Early Childhood Education

Workforce Instruction Division (206) 934-3783

The Early Childhood Education B.A.S. (ECE B.A.S.) degree is designed for students who desire to work as a lead teacher or administrator in an early learning setting, as well as those who already work in the field and seek ongoing professional development. The ECE B.A.S. degree is an extension of the Early Childhood Education Associate of Applied Science (A.A.S.) degree, which is built around the statewide Stackable Certificates in Early Childhood Education, However, students with A.A. or A.A.S. degrees in other fields, or bachelor's degrees outside of early childhood education will be qualified to enter the baccalaureate degree program, potentially with some additional coursework.

Early Childhood Education Bachelor of Applied Science Degree (B.A.S.)

PREREQUISITES

TECHNICAL SPECIALTY COURSES			
INFO	300	Information Literacy for Undergraduate Research	
		Child Family and Community	
EDUC&	130	Guiding Behavior	
EDUC&	115	Child Development	
ECED&	170	Environments-Young Child	
ECED&	160	Curriculum Development	
ECED&	107	Health, Safety, and Nutrition5	

TECHN	NICAL S	SPECIALTY COURSES
ECE	305	Early Childhood Education Approaches
		and History
ECE	310	Cognition and General Knowledge 5
ECE	315	Language, Literacy and Communication $\ldots.5$
ECE	320	Creative Expression
ECE	350	Practicum: Interactions
ECE	355	Anti-Bias Education
ECE	405	Partnership and Collaboration in Early Care
		and Education
ECE	410	Inclusive Early Childhood Education 4
ECE	415	Children and Media3
ECE	420	Social and Emotional Foundations 5
ECE	430	Linguistically Diverse Learners5
ECE	450	Child Development and Assessment5
ECE	480	Leadership and Professional Community $\ldots5$
ECE	490	Capstone5
TECHN	NICAL S	PECIALTY CREDITS 60

GENERAL EDUCATION

ENGL& 101	English Composition I
	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
Following	g can be substituted:
ENGL&2	35 Technical Writing
Visual, Literar	ry and Performing Arts15
U.S. Cultures	& Global Studies
-OR-	
Individua	l, Cultures, and Societies
Natural World	, the
	One course must include lab.
Quantitative/	Symbolic Reasoning
GENERAL EDI	JCATION CREDITS 60

ELECTIVES

Any 100 and 200 level college credits not counted as General Education credits (commonly fulfilled by EDUC/ECED courses from associate degree).

ELECTIVES CREDITS	60
TOTAL PROGRAM CREDITS	180

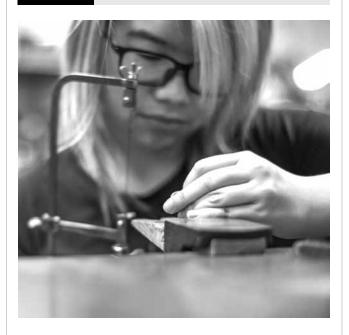
International Business

Workforce Instruction Division (206) 934-3730

The International Business B.A.S. (IB B.A.S.) degree is designed for students who desire to work in any organization that does business internationally, as well as those who already work in the field. It is designed to leverage a student's already existing business, accounting, or logistics coursework and experience, and add upper division courses that specifically prepare the student to work in an international arena. The IB B.A.S. degree is an extension of the General Business Associate of Applied Science Transfer (A.A.S.-T) degree, and the Accounting Associate of Applied Science Transfer (A.A.S.-T) degree. However, students from several different associate degree programs will be qualified to enter the baccalaureate degree program.

Interr	ıatioı	nal Business	GENERAL EDUCATION COURSES		
		f Applied Science Degree (B.A.S.)		International Communication and Relations	5
				g can be substituted:	
DEGREE REQUIREMENTS A.A., A.S., A.B., A.A.S., A.A.ST degree earned with a minimum			220 Public Speaking		
2.0 GPA			Micro Economics		
PRERE	กเมรา	res		Macro Economics	
		ducation Requirements taken as part of the		Composition II	5
		gree can be transferred in to the requirements		g can be substituted:	
below:	`	•		235 Technical Writing	5
ACCT&	201	Principles of Accounting I		Applications of Math to Management, Life & SSCI	5
ACCT&	202	Principles of Accounting II 5		g can be substituted:	_
		Counts towards B.A.S. Elective credits.		141 Pre-Calculus I	
ACCT&	203	Principles of Accounting III5		Business Calculus	5
		Counts towards B.A.S. Elective credits.		g can be substituted:	_
BUS&	201	Business Law5		151 Calculus I	
		Counts towards B.A.S. Elective credits.	Visual, Litera	ary and Performing Arts	.10
BUS	210	Business and Economic Statistics 5		Any two World Language courses.	
Fo	llowing	g can be substituted:	Individual C	See advising for course list. ultures and Societies	_
M	ATH&1	46 Intro to Statistics	muividuai, Ci		5
		owards B.A.S. Elective credits.	One course. See advising for course list. Natural World, the		
ENGL&	101	English Composition I	Natural Work		
		Counts towards B.A.S. General Education credits.		One of any physical, biological, or earth scients-credit lab class. See advising for course list	
		Must be eligible for ENGL& 101 through English	U.S. Cultures	S	
		Placement Exam or completion of ENGL 097 or		g can be substituted:	
		ENGL 098.		Studies (any U.S. or GS designated course)	
TECHN	ICAL S	SPECIALTY COURSES		vising for course list.	
CWE	494	International Business Internship Preparation . 1		DUCATION CREDITS	60
CWE	495	Baccalaureate Internship 8		OCATION CREDITS	00
IBN	301	International Management 5	ELECTIVES Total require	d Floativo oradita includos 25 aradita from	
IBN	302	International Marketing 5		d Elective credits includes 25 credits from requisites as listed and notated above, excludi	ing
IBN	303	Ethics and International Business 3	_	and 35 credits as noted below.	6
IBN	310	Operations Management 5	Electives		35
IBN	311	International Business Law	2,000,700	Any 100 and 200 level college credits not	.00
IBN	320	International Finance 5		counted as General Education credits.	
IBN	350	International Business Practicum 7		(commonly fulfilled by accounting/business	
IBN	401	International Project Management 3		courses from associate degree)	
IBN	402	Management of Information Systems 5	ELECTIVES C	CREDITS	60
IBN	410	International Entrepreneurship 3	TOTAL PROG	RAM CREDITS	180
IBN	420	Global Business Strategy 5			
IBN	490	Research Skills for International			
		Business			
TECHN	ICAL S	PECIALTY CREDITS 60			

Continuing & Contract Education



Continuing Education Classes

(206) 934-3705 learnatnorth.org

Continuing Education is committed to enriching lives by:

- Expanding Horizons
- Serving the Community
- Offering Opportunities for Lifelong Learning

Continuing Education encourages lifelong learning through non-credit classes for fun, professional development and personal enrichment. Class offerings change quarterly and cover a range of interests: computer skills, design, business, arts, cooking, fitness, entertainment, language, cultural experiences and more. All Continuing Education classes qualify as clock hours for teachers and CEUs for au pairs.

Customized Business Training

(206) 934-6075

Customized training allows a company to respond to the need to upgrade and expand the technical and professional skills of its employees. Classes are provided at the company's site or at North.

5

Bridge to College/ Pre-College

Basic & Transitional Studies Division (206) 934-4720

Basic Studies provide instruction for those who want to improve their English, improve basic verbal and math skills, earn a high school diploma or GED in order to get better jobs, continue their education and prepare for college-level work, or enter college while still in high school. Each of the programs in this area is designed to meet a particular set of student needs.

BRIDGE TO COLLEGE PROGRAMS:

- Developmental Education
- Career and College Ready English as a Second Language
- Concurrent High School / College Programs

PRE-COLLEGE PROGRAMS:

- Adult Basic Education
- English as a Second Language Beginning & Intermediate
- GED Preparation
- High School Completion
- High School 21+

Bridge to College Programs

Developmental Education English, Mathematics and Human Development Courses

English (206) 934-7309 / Math (206 934-3746 northseattle.edu/programs/pre-college-english northseattle.edu/programs/pre-college-math

Many students entering college or returning after some time away from studies need additional work to prepare for college-level courses. For these students, the Seattle Colleges offer 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 (ENGL), mathematics (MATH) and human development (HDC).

Career and College Ready English as a Second Language

(206) 934-7303

Placement in transitional ESL classes (advanced levels 5-6) is done by the CASAS Test. These courses prepare students for college-level work with increasing emphasis on note-taking, composition, oral presentation, and class discussion at high levels. These classes do not count as credit for college-level work. Tuition for these classes is \$25 per quarter (subject to change).

NOTE: International Students should take ESL classes through International Programs, page 270.

Concurrent High School/ College Programs

Running Start

(206) 934-3682

northseattle.edu/running-start

Running Start Is a program that allows qualified high school juniors and seniors to register for college level courses while remaining enrolled at their local high school. Full to partial tuition is paid for by the state; students pay mandatory fees, buy their own books, and provide their own transportation. To qualify students must take a placement test and be ready for college level coursework. As a dual enrollment program, students receive both high school and college credit, thus accelerating their progress through the education system. Running Start is a good option for high school students who are ready to start college early.

See page 22 for more information.

Pre-College Programs

Adult Basic Education

(206) 934-7303

northseattle.edu/programs/abe-ged

Adult Basic Education (ABE) classes are for adults who already know English but wish to improve their basic reading, writing, and math skills. Students can start at a level matching their current skills and progress at their own pace. Classes in basic math and reading, writing and communication skills are designed to help adults become more self-sufficient, improve their job prospects, prepare for the General Education Development (GED) or qualify for entry into post-secondary education programs. Course descriptions are listed under ABE. Classes are non-credit. Tuition is low, currently \$25 per quarter (subject to change).

English as a Second Language (ESL)

(206) 934-7303

northseattle.edu/programs/esl

ESL classes, levels 1-4, are offered to help non-native speakers communicate in English and increase their understanding of American culture. Conversation, pronunciation, reading, writing, grammar, and digital literacy are taught with special emphasis on the English skills needed for survival and employment. These non-credit courses cost \$25 per quarter (subject to change). Course descriptions are found under ESL. When students test high enough, they can move on to Transitional ESL, levels 5 and 6, which concentrate on college-preparation skills.

GED Preparation

206) 934-7303

northseattle.edu/programs/abe-ged

The General Educational Development (GED) is a certificate of successful completion of the four-part GED test. It is an equivalent of a high school education and is usually accepted in place of a diploma. The GED Preparation program prepares adult students 18 and older to take the exams. Students review reading, math, grammar, writing, social studies, science and test-taking. Tuition is \$25 per quarter (subject to change.)

Prerequisite: Placement by orientation coordinator or instructor permission.

GED 050 GED Test Preparation

GED 051 GED Math

GED 060 Advanced GED Preparation

GED 061 Advanced GED Math

See page 23 for additional information.

High School Completion

(206) 934-7303

northseattle.edu/programs/high-school-completion

For students who have not completed work for a high school diploma, High School Completion offers the opportunity to earn the diploma through two options: the Standard High School Diploma and the Associate Degree Conversion Diploma. Students planning to work toward a high school diploma should meet with the High School Advisor for information.

See page 24 for details and possible tuition waiver for high school completion.

High School 21+

An alternative to the GED, High School 21+ (HS 21+) is a competency-based program that adds rigorous high school level education and training to Basic Skills classes so that students can complete high school while transitioning into college or Professional/Technical programs at North. Students who complete this program receive an actual high school diploma, not an equivalency.

With HS 21+, students can take ABE, GED, HSC, Advanced ESL, I-Best, and college level classes and receive high school credit for them. HS 21+ students also take portfolio classes in such subjects as Fine Arts, Health, Physical Education, and Washington State History, which allows them to document and use prior learning in these fields while working at their own pace. Students can also use skills learned on the job or in the military to receive high school credits.

HS 21+ students work closely with North's ABE advisors to review high school transcripts (foreign transcripts accepted) as well as life and work experience. Together they work to craft an individualized educational plan to receive the high school diploma as a part of a customized pathway to college and careers. Tuition is \$25 per quarter.

eLearning/ **Distance Education**

(206) 934-3738

https://elearning.northseattle.edu

North offers many credit courses that do not require any campus visits. Online classes are designed so students can keep in close contact with their instructors using virtual bulletin boards, discussion rooms and/or email. Hybrid courses blend on-campus and "virtual" classroom instruction. saving travel time and expense. Student/teacher ratios in these classes are the same as classes held on campus. All distance education classes transfer the same as on-campus credit classes. Students can earn an A.A. degree completely online or with many fewer campus visits.

> See page 25 for complete information on all eLearning options.

International **Programs**

(206) 934-3672 Fax (206) 934-3794 international@seattlecolleges.edu https://ip.northseattle.edu

North Seattle College serves over 1,000 students from 50 countries who study in North's Intensive English Program, career training, or college transfer programs. Many are also active in campus activities and organizations. New students must first take the College Success placement test to see if they qualify for college level courses. Students who have TOEFL or IELTS scores must send them directly to the International Programs Office.

A three-day orientation program prepares students to begin a successful academic experience. The International Programs office is dedicated to helping students succeed in their studies and adjust to life in Seattle, offering assistance with admissions, academic and immigration advising, scholarships and housing.

Students study at different levels based on their English proficiency. Quarterly classes develop skills in conversation, listening, reading, writing, grammar, study skills, note-taking, vocabulary and American culture.

Advanced students may take regular college classes. Upon successful completion of the Intensive English Program (IEP) or testing into college-level English, students may enter one of the college's academic or technical programs.

See page 27 for more information.

Travel/Study Abroad

(206) 934-3672

northseattle.edu/programs/study-abroad

Students interested in Study Abroad should contact the International Programs Office to learn about programs and scholarship opportunities.

8

Worker Retraining Program

(206) 934-3787

northseattle.edu/workforce-education

Worker retraining at North Seattle College is a package of services, opportunities, and specialized instructional programs to help you return to work as soon as possible. A person may be eligible for Worker Retraining Assistance if he or she:

- Is unemployed and is collecting Washington State Unemployment Benefits
- Has exhausted unemployment benefits in the past two years
- Has been working in the home, experiences a significant loss of income and needs to re-enter the work force
- Has received a WARN letter
- Has closed a business due to economic downturn
- Is working in a not-in-demand job
- Has lost a job because of a disaster
- Separated from the military with an honorable discharge within the last 24 months
- Suffered a loss of more than 50% of household income due to a divorce, separation, or death of a spouse or partner within the last 24 months

Worker Retraining benefits include:

- Priority registration
- Tuition assistance career planning services
- High wage, high demand training programs
- Tutoring assistance
- Employment Security staff on campus
- Assistance with TAA and CAT/TB paperwork
- Liaison to other agencies, programs and funding See page 29 for additional information.



Professional/Technical Programs

North Seattle College offers degrees and certificates in more than 40 workforce education areas. The programs vary in length from one to seven quarters of full-time coursework and are designed to prepare students for careers and/or to expand skills in their career area. Several professional/technical programs offer short-term training certificates. Students may build skills and add certificates to progress in their fields. North Seattle College, including these programs, is accredited by the Northwest Commission of Colleges and Universities.

Accounting

Workforce Instruction Division (206) 934-3730

Accounting Achievement Short-Term Certificate

This certificate provides students with a basic understanding of accounting principles and procedures, and computers and accounting software.

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

TECHNICAL SPECIALTY COURSES

TOTAL	PROGF	RAM CREDITS	15
BUS	169	Using Computers in Business	5
ACCT	131	QuickBooks	5
ACCT	110	Introduction to Accounting/Bookkeeping.	5

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

This two-year program prepares students for immediate and future accounting supervisory 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.

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

TECHNICAL SPECIALTY COURSES

ACCT	110	Introduction to Accounting/Bookkeeping	.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
ACCT	255	Individual Income Tax	.5
ACCT	257	Business Tax Accounting	.5
ACCT	261	Accounting Information Systems	.5
ACCT	267	Not-for-Profit Financial Management	.5
ACCT	268	Computerized Accounting: Advanced	
		QuickBooks	.5
ACCT	271	Ethics in Accounting	.5
CWE	110	Internship	.3
TECHN	ICAL S	PECIALTY CREDITS 5	58

RELAT	ED INS	STRUCTION	
BUS	124	Excel for Business	5
BUS	131	Integrated Communications in the	
		Workplace	5
BUS	169	Using Computers in Business	5
BUS	200	Law and Society	
-(DR-		
В	US& 2	201 Business Law	5
BUS	210	Business and Economic Statistics	5
BUS	236	Interpersonal Communication for the	
		Workplace	5
ELECT	IVE	Five credits from list of approved U.S.	
		Cultures or Global Studies courses	5
RELAT	ED INS	TRUCTION CREDITS	35
TOTAL	PROG	RAM CREDITS	93

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

The Associate of Applied Science–Transfer (A.A.S.-T) degree is built upon technical skills for job preparation but also includes college-level general education components common to all the A.A.S.-T degrees. The Accounting A.A.S.-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 (B.A.S.) International Business degree program here at North Seattle College.

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.

PREREQUISITES

Individual courses may have prerequisites.

TECHNICAL SPECIALTY COURSES

ACCT& 201	Principles of Accounting I 5
-OR-	
ACCT 1	10 Intro to Accounting/Bookkeeping I 5
ACCT& 202	Principles of Accounting II 5
-OR-	
ACCT 1	20 Intro to Accounting/Bookkeeping II 5
ACCT& 203	Principles of Accounting III5
ACCT 131	QuickBooks
ACCT 255	Individual Income Tax
ACCT 257	Business Tax Accounting5
BUS 124	Excel for Business
BUS& 201	Business Law5
BUS 210	Business and Economic Statistics 5
BUS 236	Interpersonal Communications for the
	Workplace
ECON& 201	Principles of Economics - Micro 5
ECON& 202	Principles of Economics - Macro5
Accounting/B	susiness Electives (See list below)
TECHNICAL S	PECIALTY CREDITS 70

Professional/Technical Programs

		IRUCTION	
ENGL&	101	English Composition	5
MATH&	116	Applications of Math to Management,	
		Life and Social Sciences	
U.S. Cu	Iltures	or Global Studies	5
RELATE	D INST	TRUCTION CREDITS	20
TOTAL F	PROGR	AM CREDITS	90
APPRO	VED A	CCOUNTING/BUSINESS ELECTIVES	
ACCT	251	Intermediate Accounting I	5
ACCT	252	Intermediate Accounting II	5
ACCT	256	Taxation of Corporations and Partnerships	5
ACCT	261	Accounting Information Systems	5
ACCT	265	Accounting for Not-For-Profit and	
		Government Entities	
ACCT	267	Not for Profit Financial Management	5
ACCT	268	Computerized Accounting: Advanced QuickBooks	5
ACCT	270	Cost Accounting	
ACCT	271	Ethics in Accounting	
ACCT	272	Fraud Examination	
ACCT	273	Introduction to Financial Crime	
ACCT	274	Forensic Accounting	5
ACCT	275	Auditing	
BUS	112	Multi-Cultural Issues in the Workplace	5
BUS	114	Introduction to Marketing	
BUS	118	Project Management and Overview	5
BUS	119	Leadership Management Skills	
BUS	151	Introduction to Entrepreneurship	
BUS	169	Using Computers in Business	
BUS	186	Sustainable Business	5
BUS	215	Introduction to International Business	5
BUS	229	Project Management Tools, Techniques and Control	-
BUS&	101	Introduction to Business	
CMST&		Public Speaking	
JITI OI W		. aono opouning	

Note: Not all classes are offered every quarter, and many classes have prerequisites. Refer to the class schedule, the annual forecast, to the department, and to an advisor for efficient planning.

Accounting Fraud Short-Term Certificate

This certificate provides students with an overview of detection and prevention of financial fraud, financial abuse, and economic crime. Topics include money laundering, bribery, and kickback schemes, retail loss prevention, investment swindles, securities fraud and Ponzi schemes, health care and Medicare/Medicaid fraud, inventory fraud, insurance fraud, and other accounting fraud. The curriculum includes case studies and discussions on preventative methods, effective internal control, and corporate culture and ethics. Instructional

material includes videos of actual financial crimes, interviews with perpetrators, record reconstruction, and presentations by experts.

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

PREREQUISITES

ACCT&201 is required for ACCT 272 or ACCT 273. ACCT&201 may be taken concurrently with ACCT 272 or 273. ACCT 201 may be waived if student receives instructor permission due to equivalent work experience.

TECHNICAL SPECIALTY COURSES

		PAM OPEDITS	15
ACCT	274	Forensic Accounting	5
ACCT	273	Introduction to Financial Criminology .	5
ACCT	272	Fraud Examination	5

Accounting Office Assistant I Short-Term Certificate

Accounting Office Assistant I Certificate provides the student with a basic understanding of accounting principles and procedures, business computer software, and computational skill building. The certificate is designed to provide foundational skill development and incremental course completion that can be applied to the Accounting Office Assistant Certificate II, the Bookkeeping Certificate in Accounting, the Computerized Accounting Technology Certificate, and the Associate of Applied Sciences Degree in Accounting. This is an I-BEST supported certificate.

PREREQUISITES

All prospective I-BEST students must attend an information/ application session to receive permission to enroll.

TECHNICAL SPECIALTY COURSES

ACCT	110	Introduction to Accounting/Bookkeeping I5	5
BUS	115	Computational Skillbuilding	2
BUS	169	Using Computers in Business	5
TOTAL	PROGE	RAM CREDITS 12)

Advanced Tax Preparation Certificate

This certificate provides the student with an understanding of income tax law and procedures for individuals, corporations, and other entities. As part of the certificate program, the student prepares basic income tax returns for others.

TECHNICAL SPECIALTY COURSES

ACCT	264	Tax Research Gifts and Estates 5
ACCT	259	Practical Income Tax Preparation II 5
ACCT	258	Practical Income Tax Preparation 5
ACCT	257	Business Tax Accounting 5
ACCT	256	Taxation of Corporations and Partnerships $\ldots5$
ACCT	255	Individual Income Tax
ACCI	110	introduction to Accounting/Bookkeeping 15

35

TOTAL PROGRAM CREDITS

Bookkeeping Assistant Certificate

This certificate provides the student with a basic understanding of accounting principles and procedures, business computer software, computational skill-building, and specialized accounting software procedures. In addition, students will broaden their understanding of the bookkeeping/accounting field through real-world job shadowing experiences in the public and/or private sector. It is designed to provide foundational skill development and incremental course completion that can be applied to the Bookkeeping Certificate, Computerized Accounting Technology Certificate, and the Associate of Applied Science degree in Accounting.

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

TECHNICAL SPECIALTY COURSES

ACCT	110	Introduction to Accounting/Bookkeeping	5
BUS	115	Computational Skill Building	2
BUS	169	Using Computers in Business	5
ACCT	131	QuickBooks	5
CWE	101	Portfolio, Job Search and Interviewing	2
-OR-			
CWE	102	Job Shadowing	2
BUS	124	Excel for Business	5
TOTAL	PROGE	RAM CREDITS	24

Bookkeeping Certificate in Accounting

This program prepares graduates for bookkeeping careers and general office employment. The program normally can be completed in four quarters. 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. Course requirements outside the accounting department represent related instruction in support of skills and knowledge necessary in the accounting and general office fields. Please be aware that some of the courses may require prerequisites or instructor permission. Note: Advanced placement testing, work experience, and transfer of credits may result in course waivers, credit transfer, and advanced placement.

TECHNICAL SPECIALTY COURSES

ACCT	110	Introduction to Accounting/Bookkeeping I5
-O	R-	
A	CCT&2	O1 Principles of Accounting I5
ACCT	120	Introduction to Accounting/Bookkeeping II 5
-0	R-	
A	CCT&2	02 Principles of Accounting II5
ACCT	131	QuickBooks
ACCT	257	Business Tax Accounting 5
ACCT	267	Not for Profit Financial Management 5

BUS	124	Excel for Business		
BUS	169	Using Computers in Business 5		
BUS	236	Interpersonal Communications for the Workplace		
CWE	110	Internship3		
TOTAL	TOTAL PROGRAM CREDITS 43			

Certificate of Accountancy

This certificate is designed for college graduates who are working toward meeting the educational requirements of the Washington State CPA Examination. Additional courses are necessary to fulfill the requirements to sit for the exam. The courses in this certificate are not considered to be an official statement of acceptability by the Washington State Board of Accountancy. Students should consult the State Board's website for specific exam requirements. In addition, we strongly recommend that all CPA applicants complete a CPA review course to adequately prepare for the CPA Examination. See discovercpa.org for CPA Exam review providers.

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

PREREQUISITES

ACCT&201, ACCT&202, ACCT&203, and ACCT 255

TECHNICAL SPECIALTY COURSES

ACCT	251	Intermediate Accounting I	5
ACCT	252	Intermediate Accounting II	5
ACCT	256	Taxation of Corporations, Partnerships, Estates, and Trusts	5
ACCT	261	Accounting Information Systems	5
ACCT	265	Accounting for Not-For-Profit and Governmental Entities	5
ACCT	270	Cost Accounting	5
ACCT	271	Ethics in Accounting	5
ACCT	275	Auditing	5
TOTAL	PROGE	RAM CREDITS	40

Computerized Accounting Technology Certificate

The Computerized Accounting Technology Certificate is a four-quarter program designed to provide students with computerized accounting skills using widely-used accounting software. The program bridges the gap between manual and computerized accounting systems with students gaining hands-on experience and expertise with basic and mid-range accounting systems. This experience will provide graduates with viable entry into and/or advancement in the accounting job market with both large and small organizations.

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

TECHN	TECHNICAL SPECIALTY COURSES					
ACCT	110	Introduction to Accounting/Bookkeeping I	5			
-O	R-					
AC	CCT& 2	01 Principles of Accounting I	5			
ACCT	120	Introduction to Accounting/Bookkeeping \ensuremath{II} .	5			
-0	R-					
AC	CCT&2	02 Principles of Accounting II	5			
ACCT	131	QuickBooks	5			
ACCT	257	Business Tax Accounting	5			
ACCT	261	Accounting Information Systems	5			
ACCT	267	Not for Profit Financial Management	5			
ACCT	268	Computerized Accounting: Advanced				
		QuickBooks				
ACCT	TBD	Accounting class to be determined				
CWE	110	Internship	3			
TECHN	ICAL S	PECIALTY CREDITS	43			
RELAT	ED INS	TRUCTION				
BUS	115	Computational Skill Building	2			
BUS	124	Excel for Business	5			
BUS	169	Using Computers in Business	5			
BUS	236	Interpersonal Communications for				
		the Workplace	5			
ENGL&	230	Technical Writing	5			
TOTAL	PROGF	RAM CREDITS	60			

Not-for-Profit Management Short-Term Certificate

The Not-for-Profit Management certificate provides students with an overview of financial management in the not-for-profit sector. It is designed for those already working at a not-for-profit organization, and those accounting students who wish to work in this field.

Important topics covered include: the basic tools of financial management and financial analysis, computerized accounting simulations of real-world financial events, IRS Form 990 preparation, charitable giving and fundraising issues, internal control, ethics, and operational effectiveness.

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

TECHNICAL SPECIALTY COURSES

ACCT	110	Introduction to Accounting/Bookkeeping	5
-0	R-		
A	CCT& 2	01 Principles of Accounting I	5
-0	R-		
A	CCT 2	00 Accounting for Non-Accountants	5
ACCT	267	Not for Profit Financial Management	5
ACCT	269	Not for Profit Practices & Procedures	5
TOTAL	PROGF	RAM CREDITS	15

Allied Health

Workforce Instruction Division (206) 934-3730

North Seattle College offers an Associate of Applied Science degree (A.A.S.) in Allied Health Sciences for graduates of certificate programs in Medical Assisting, Practical Nursing, and Pharmacy Technician.

Allied Health Sciences Associate of Applied Science Degree (A.A.S.)

DEGREE CRITERIA INCLUDE

- A NSC health occupation certificate with a minimum of 45 technical credits specific to that occupation. Graduates from similar programs at other Washington community colleges or accredited vocational-technical schools may also be candidates.
- Completion of specific technical courses, related General Education and related instruction.
- Completion of 90 credit hours.
- An overall grade point average of 2.0. Other requirements may be established by faculty or administrative policies.

Program Requirements For Medical Assisting, Pharmacy Techician & Practical Nursing:

TECHNICAL SPECIALTY

45 (minimum) - 60 (maximum) vocational-technical credits

TECHNICAL SPECIALTY CREDITS 45-60

GENERAL EDUCATION

ELECTIVES

Up to 20 elective credits may be taken as necessary to complete the 90 credits required for the degree.

ELECTIVE CREDITS 20
TOTAL PROGRAM CREDITS 90

Emergency Department Technician Short-Term Certificate

This certificate provides students with a general understanding of emergency department operations and prepares them for work as emergency department technicians. A minimum of 17 credits with a 2.0 grade or above in all classes is required to earn the certificate.

PREREOUISITES

- Existing healthcare professional with certification equivalent to licensed practical nurse, certified medical assistant, certified nursing assistant, paramedic, emergency medical technician, or equivalent.
- 12 months (2,080 hours) experience working with patients in an acute care setting.
- Program advisor permission.
- Attend an orientation session.
- Meet the requirements of our current clinical sites background check, immunizations, etc.)

TECHNICAL SPECIALTY COURSES

EDT	101	Emergency Department Technician Fundamentals
EDT	102	Emergency Department Technician
		Procedures and Diagnostics Testing 5
EDT	103	Emergency Department Technician Lab Skills I. 4
EDT	104	Emergency Department Technician Lab Skills II 5
EDT	105	Emergency Department Practicum 2
TOTAL	PROGE	RAM CREDITS 20

Emergency Medical Technician Short-Term Certificate

This certificate program provides the student with a general understanding of emergency department operations and prepares them for employment as an Emergency Department Technician (EDT) in an Emergency Department and Urgent Care setting. This program will cover several different courses focusing on administrative and clinical procedures.

PREREQUISITES

Be currently licensed by the Washington State Department of Health as a Nursing Assistant.

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 high school diploma or GED equivalency or college transcript showing high school completion.
- Provide a copy of a clear Washington State patrol background check.
- Provide copies of required immunizations: 1. Hepatitis B Series or positive titer, 2. A current Tuberculin skin test or alternative health documentation.

To gain employment in this field, you typically must 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

Corequisite: Completion of AHE 192 taken concurrently with AHE 190

, <u>-</u>		
AHE 190	Emergency Medical Technician	.12
AHE 192	Basic Life Support for Healthcare Providers	1
TOTAL PRO	OGRAM CREDITS	13

Healthcare Technology Management Associate of Applied Science Degree (A.A.S.)

North Seattle College offers a unique opportunity to enter the field of Healthcare Technology Management, part of Allied Health Sciences. Healthcare Technology Management is appropriate for students interested in the operation, maintenance and repair of medical equipment (a program formerly titled Biomedical Equipment Technology). It increases the marketable skills and areas of knowledge for students who are studying Electronics and thus offers more employment possibilities in the health and medical repair fields.

PREREQUISITES

-OR-

BUS

For placement testing, contact Testing Center 934-3674
To begin program, students must test into the English and Math courses listed below:

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 IV5
-OR-
higher ENGL course
MATH 084 Algebra I

Following can be substituted: higher MATH course

have taken equivalent or higher MATH course

169 Using Computers in Business 5

100 Introduction to Medical Vocabulary......3

TECHNICAL SPECIALTY COURSES

Following can be substituted:

0	Online module AMA 170 or AMA 117 for AHI 100 1-4			
BIOL	128	Survey of Human Anatomy and Physiology 5		
Fo	ollowing	g can be substituted:		
0	nline m	nodules AMA 172, AMA 175, AMA 177, AMA 178,		
ΑI	MA 179	9, AMA 119 inclusive		
CHEM	%121	Intro to Chemistry5		
EET	105	Introduction to Technology2		
EET	112	Fundamentals of Fluid Power & Alternative Energy 5		
EET	114	Applied Physics5		
EET	131	IT Essentials I - A+ Certification 5		
EET	132	IT Essentials A+ Certification Advanced5		
EET	137	Introduction to Robotics 5		
EET	138	Robotic Applications		
EET	161	D.C. Principles of Electronics 5		
EET	162	A.C. Principles of Electronics 5		
EET	163	Solid State Electronics		
EET	165	Analog Circuits and Devices5		
EET	170	Digital Electronics & Plcs I 5		
EET	286	Biomedical Equipment I5		

Biomedical Technician Externship. 4

CWE 101 Portfolio Job Search Int is a

prerequisite for EET 297.

TECHNICAL SPECIALTY CREDITS

EET

EET

287

297

83-86

TOTAL PROGRAM CREDITS

REL	ATED INS	TRUCTION	
BUS	112	Multi-Cultural Issues in the American	
		Workplace	í
	Following	can be substituted:	
	Global S	tudies or U.S. Cultures designated course 5	,
	See Advi	sing Center for approved list.	
BUS	236	Interpersonal Communications for the	
		Workplace	í
	This cou	rse has acceptable substitutes.	
	See Advi	sing Center for approved list.	
EET	109	Mathematical Applications for Circuit Analysis 5	,
	Following	can be substituted:	
	MATH& 1	.41 - Pre-Calculus	;
	-OR-		
	higher M	ATH course	
ENG	_	English Composition I	;
		While students must test into ENGL 097 to	
		start the degree, they must complete ENGL&	
		101 to finish.	
IT	122	Network OS 1 - Windows Client OS 5)
	Following	can be substituted:	
	any com	pination of higher IT courses totaling 10 credits	
	Total of 1	O credits in IT courses required	
RELA	ATED INS	TRUCTION CREDITS 30	
TOTA	AL PROGF	AM CREDITS 112-116	j
		rishing to transfer to the BSBMET program at	
		sity should take the following math and physic	
	-	ace of courses listed above:	
		Precalculus I	
		Calculus I	
		Calculus II	
		Engineering Physics I	
PHY:	S& 222 -	Engineering Physics II	
PHY	S& 223 -	Engineering Physics III	
Sust	ainabil	ity in Healthcare Short-Term Certificate	
		mployees, in particular Environmental Service	
	•	te Management, Hospital Facilities and/or	
Dieta	ary Servi	es, to achieve a deeper understanding of the	
		f sustainable hospitals, develop competency in	
		es in sustainability", and obtain the knowledge	
		order to assist the hospital in becoming more	
		Sustainability and/or "green" are defined in the	
		s program as the use of products and processes rm the environment nor adversely affect the	
		fety of patients and workers in the hospital.)	
		PECIALTY COURSES	
SUS		Sustainability in Healthcare	;

Business

Workforce Instruction Division (206) 934-3730

The Business programs prepare students for the workplace demands of the local community and the economic challenges of the global marketplace. Day and evening programs offer a number of college transfer business courses, information technology and highly technical courses. Areas of specialization include management, professional office support, customer service, information technology support, project management and entrepreneurship. All programs strongly support the development of interpersonal skills.

Administrative Assistant Associate of Applied Science Degree (A.A.S.)

This program prepares students for employment as office support professionals, secretaries and administrative assistants with computer literacy in information processing, spreadsheets, databases, presentation graphics and word processing. Advanced placement testing, work experience, and transfer of credits MAY result in course waivers, credit transfer, and advanced program standing.

TECHNICAL SPECIALTY COURSES

5

BUS&	101	Introduction to Business 5		
BUS	106	Keyboarding/Skillbuilding		
BUS	112	Multi-Cultural Issues in the American Workplace		
BUS	115	Computational Skillbuilding 2		
BUS	124	Excel for Business		
BUS	140	Customer Relations		
BUS	169	Using Computers in Business 5		
BUS	170	Information Technology I 5		
BUS	182	Information and Database Management 5		
BUS	205	Human Resource Management 5 Eligible for ENGL& 101 through English Placement Exam or completion of ENGL 097/098		
BUS	230	Business Communications 5 Prerequisite: BUS 131 Integrated Communications I		
CWE	101	Portfolio, Job Search and Interviewing 2		
TECHN	TECHNICAL SPECIALTY CREDITS 57			

RELAT	ED INS	TRUCTION	
ACCT	110	Introduction to Accounting/Bookkeepin	gl5
BUS	116	Business Math/Spreadsheets	5
BUS	131	Integrated Communications I	5
BUS	236	Interpersonal Communications for the Workplace	5
U.S. Cu	ultures		
Fo	llowing	g can be substituted: Global Studies cour	se
Se	ee advi	sing for list of approved courses	
Genera	General Education Elective		
		See advising for list of approved course	es
Business Related Elective			
RELATE	ED INS	TRUCTION CREDITS	35
TOTAL	PROGE	RAM CREDITS	90-92

Administrative Assistant Certificate

This certificate prepares students for jobs as administrative assistants and office support professionals. It is geared for students who are currently working in a related field or who already have a college degree (or certificate), or have taken a substantial number of college level courses.

PREREQUISITES

Type 25 correct words a minute, placement into ENGL 097 or higher, MATH 081.

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

TECHNIC	TECHNICAL SPECIALTY COURSES				
BUS 1	182	Information and Database Management	.5		
BUS 1	106	Keyboarding/Skillbuilding	.3		
		Course may be taken up to three times to assist students in achieving typing skills required by industry.			
BUS 1	112	Multi-Cultural Issues in the American			
		Workplace	.5		
BUS 1	124	Excel for Business	.5		
BUS 2	169	Using Computers in Business	.5		
BUS 1	170	Information Technology I	.5		
BUS 2	230	Business Communications	.5		
CWE 1	101	Portfolio, Job Search and Interviewing	.2		
TECHNIC	CAL SI	PECIALTY CREDITS 3	35		
RELATE	O INS	TRUCTION			
BUS 1	116	Business Math/Spreadsheets	.5		
BUS 1	131	Integrated Communications I	.5		
BUS 1	140	Customer Relations	.5		
RELATED	INST	FRUCTION CREDITS 1	15		
TOTAL PI	OTAL PROGRAM CREDITS 50				

Administrative Specialist Short-Term Certificate

The students will learn valuable skills and tools to enhance their employment opportunities by being able to demonstrate competencies in math skill, written communication, interpersonal communication and customer service interactions. This is a three quarter program but students can complete this program in less time if desired. The target audience are administrative employees who wish to build new skills and enhance current skills in order to become proficient and demonstrate on–the-job competencies.

TECHNICAL SPECIALTY COURSES

BUS	116	Business Math/Spreadsheets	5
BUS	131	Integrated Communications I	5
BUS	236	Interpersonal Communications for the Workplace	5
TOTAL PROGRAM CREDITS 15			

Certificate of Entrepreneurship

This program explores the challenges of starting a new business. It includes solid business planning, feasibility studies, financial structuring, market research, and other areas of knowledge for creating a successful venture. It emphasizes the importance of a responsible and professional work ethic and leadership qualities.

ACCT 131 QuickBooks is recommended but not required.

REQUIRED COURSES

REQUI	KED CO	DURSES	
ACCT&	201	Principles of Accounting I	5
BUS	118	Project Management Introduction	
		and Overview	5
BUS	151	Introduction to Entrepreneurship	3
Fo	llowing	ç can be substituted:	
BU	JS 1	54 Exploring Entrepreneurship	5
BUS	152	Entrepreneurship Product/Service/	
		Pricing/Mkting	5
BUS	153	Entrepreneurship Planning Business	
		Financials	5
BUS	156	Introduction to E-Business/Commerce	5
Fo	llowing	g can be substituted:	
BU	JS 1	69 Using Computers in Business	5
BUS	186	Sustainable Business	5
BUS	236	Interpersonal Communications for	
		the Workplace	5
TOTAL I	PROGF	RAM CREDITS	38-40

Customer Service Certificate

Customer Service certificates combine office support training in communications, customer relations, information technology, and on-the-job work experience to prepare students for entry-level positions as customer service representatives.

TECHNICAL SPECIALTY COURSES

200	100	Prerequisite: BUS 105 - Keyboarding (4 credits) or concurrent enrollment in BUS 105, or 25 wpm accurate keyboarding.
		May be repeated twice to build speed.
BUS	131	Integrated Communications I 5 Eligible for ENGL& 101 through English Placement Exam or completion of ENGL 097/098.
BUS	140	Customer Relations
BUS	169	Using Computers in Business 5
CWE	110	Internship3
TOTAL F	PROGF	RAM CREDITS 21

Customer Service Certificate — Advanced

The Business programs prepare students for workplace demands of the local community and the economic challenges of the global marketplace. Day and evening programs offer a number of college transfer business courses, information technology, and highly technical courses. Areas of specialization include management, professional office support, customer service, e-business, information technology support, international business and trade, along with development of interpersonal skills.

Customer Service certificates combine office support training in communications, customer relations, information technology, skill-building, and on-the-job work experience to prepare students for entry-level positions as customer service representatives.

TECHNICAL SPECIALTY COURSES

BUS	106	Keyboarding/Skillbuilding
Fo	ollowing	g can be substituted:
В	US 105	5 Keyboarding4
OI	r concu	rrent enrollment in BUS 105, or 25 wpm
a	ccurate	keyboarding.
M	lay be r	repeated twice to build speed.
BUS	112	Multi-Cultural Issues in the American
		Workplace
BUS	123	Word for Business
BUS	124	Excel for Business
Fo	ollowing	g can be substituted:
В	US 1	25 Access for Business
BUS	131	Integrated Communications I5
		Eligible for ENGL& 101 through English
		Placement Test or satisfactory completion
		of ENGL 097/098.
BUS	140	Customer Relations
BUS	169	Using Computers in Business 5
BUS	230	Business Communications 5
CWE	110	Internship3
TOTAL	PROGE	RAM CREDITS 41

Entrepreneur Foundation Short-Term Certificate

If you have a passion for a business venture but aren't sure how to go about implementing it, this certificate program will get you started with business planning. By the time you complete the program, you'll have the beginning of a business plan including information you'll need to seek financing to start your business.

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. See catalog for more information.

REQUIRED COURSES

BUS	151	Introduction to Entrepreneurship	;
BUS	152	Entrepreneurship Product/Service/ Pricing/Mkting	5
BUS	153	Entrepreneurship Planning Business Financials	5
ΤΟΤΔΙ	PROGE	RAM CREDITS 13	2

General Business Associate of Applied Science Degree (A.A.S.)

This degree program enables students to acquire a foundation in the basics of accounting, management, marketing, business communication, business law, and finance. Students learn to apply diverse skills such as critical thinking, organization, problem-solving, and professionalism to the business world.

ACCT& 201 Principles of Accounting I........5

TECHNICAL SPECIALTY COURSES

ACCT&	202	Principles of Accounting II 5
BUS&	101	Introduction to Business 5
BUS	112	Multi-Cultural Issues in the American Workplace
Stu	udents	completing the Communications, Business &
		rtificate may substitute CMST 205 Multi-cultural
Co	mmuni	ication
BUS	114	Introduction to Marketing
		Communications or be eligible for ENGL& 101 through English Placement Exam or completion of ENGL 097/098.
		•
BUS	169	Using Computers in Business 5
Foi	llowing	can be substituted:
BU	IS 17	71 Information Technology II 5
BUS&	201	Business Law5
BUS	210	Business and Economic Statistics 5
BUS	230	Business Communications 5
		Must complete BUS 131 Integrated
		Communications or be eligible for ENGL& 101
		through English Placement Exam or completion of ENGL 097/098.

Workplace	General Business Associate of Applied Science - T Degree (A.A.ST)
TECHNICAL SPECIALTY CREDITS 50	Associate of Applied Science - T Degree (A.A.ST) The Associate in Applied Science - Transfer (A.A.ST) degree is
GENERAL EDUCATION COURSES	built upon technical skills for job preparation but also includes college-level general education component common to all
Contact the Advising Center for approved list of courses	the A.A.ST degrees. The General Business A.A.ST degree
U.S. Cultures	is designed as a transfer program for those interested in an
General Education Elective	applied baccalaureate degree and, in particular, for students
GENERAL EDUCATION CREDITS 10	interested in the B.A.S International Business degree program here at North Seattle College.
ELECTIVES Electives must include a minimum of 15 credits with BUS	TECHNICAL SPECIALTY COURSES
designation (except students with CB&M certificate)	ACCT& 201 Principles of Accounting I
BUS course	ACCT& 202 Principles of Accounting II
ELECTIVES CREDITS 10	BUS& 101 Introduction to Business
	BUS 112 Multi-Cultural Issues in the American
ELECTIVES - PATHWAY Total of 8-10 credits required	Workplace
ACCT& 203 Principles of Accounting III	Following can be substituted:
BUS 118 Project Management Introduction and Overview . 5	CMST 205 Multi-cultural Communications 5 WITH Academic Exception approval
BUS 151 Introduction to Entrepreneurship	BUS 114 Introduction to Marketing5
Following can be substituted: BUS 154 Exploring Entrepreneurship5	BUS& 201 Business Law5
BUS 186 Sustainable Business	BUS 210 Business and Economic Statistics 5
	BUS 215 Introduction to International Trade Business 5
BUS 205 Human Resource Management	Following can be substituted:
ECON& 201 Micro Economics	CMST 195 Media Management Operations
RES 100 Real Estate Fundamentals5	BUS 236 Interpersonal Communications for the
ELECTIVES - PATHWAY CREDITS 38	Workplace
ELECTIVES - GENERAL	ECON& 201 Micro Economics
Total of 20-22 credits required.	ECON& 202 Macro Economics
Elective BUS courses must be numbered 100 or above AND	RELATED INSTRUCTION
not listed under Technical Specialty Courses. May include BUS courses list under Electives - Pathway.	ENGL& 101 English Composition I
Any CMST designated courses in the Communication, Business and Media (CB&M) certificate. Only students completing	English Placement Exam or completion of English 097/098.
the CB&M certificate may apply CMST courses.	-OR-
ACCT 131 QuickBooks	ENGL&235 Technical Writing5
ACCT& 203 Principles of Accounting III5	MATH 116 Applications of Math to Management,
ACCT 261 Accounting Information Systems	Life & SSCI5
ECON& 201 Micro Economics	Following can be substituted:
ECON& 202 Macro Economics	MATH&141 Precalculus I
ENVS 160 Principles of Environmental Sustainability 5	-OR-
RES 100 Real Estate Fundamentals5	Any math class with MATH&141 as a prerequisite
RES 202 Multi-Family Property Management	
Following can be substituted:	
RES 203 Property Management - Commercial 3	
ELECTIVES - GENERAL CREDITS 38	
TOTAL PROGRAM CREDITS 90	
Note: Students wishing to transfer to an applied baccalaureate	

degree should consider the General Business A.A.S.-T program.

BUS

BUS BUS

BUS

EL EGTI	VEC		
ACCT&		Principles of Accounting III	
ACCT	255	Individual Income Tax	.5
Fol	lowing	can be substituted:	
AC	CT 2	67 Financial Management	.5
BUS co	urse	Elective BUS course numbered 100 or above and not listed under Technical Specialty Courses. See Advising Center	.5
ELECTIV	/ES CF	REDITS 1	L5
TOTAL F	ROGR	AM CREDITS	90
The Interequiring supply coperation and tho other in	ernatio g know chain r ons an se inte	al Trade Certificate nal Trade Certificate leads to entry-level position. Iledge of international business, including logistics management, freight forwarding, port and trade and distribution networks. Career professionals berested in moving into the international field fro best focus on current real-world, real-time events benetis in international trade.	s,
•		DURSES	
BUS	215	Introduction to International Trade Business .	
BUS	245	Intro to International Trade Global Marketing.	
CWE	101	Portfolio, Job Search and Interviewing	
CWE	110	Internship	
IBN	203	International Trade: Export	
IBN	205	International Trade: Import	
IBN	225	Global Logistics	.3
TOTAL F	ROGR	AM CREDITS 2	24
		ffice Professional Short-Term Certificate	

Project Management Short-Term Certificate

This certificate program focuses on both the development of knowledge and professional skills to become a project manager. Coursework includes topics such as leadership in the project process, planning and control, risk management, and utilization of MS project management software to develop a plan, schedule, budget, and produce deliverables for management reporting.

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 Word for Business
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PREREQUISITES

TOTAL PROGRAM CREDITS

Individual courses may have prerequisites.

IECHI	HUAL 3	SPECIALIT COURSES	
BUS	118	Project Management Introduction and Overview Prerequisite: Must have completed BUS 169 of BUS 171 or demonstrate equivalent	
BUS	119	Leadership and Management Skills	.3
BUS	229	Project Management Tools Techniques and Control	ve
CWE	110	Internship	.3
RELAT	ED INS	STRUCTION	
ENGL8	230	Technical Writing	.5
-0	R-		
El	NGL&2	235 Technical Writing	.5
TOTAL	PROGE	RAM CREDITS	21

Retail Management Certificate

The Retail Management Certificate provides a solid foundation in basic business management skills and an added course in retail management. This certificate was developed in collaboration with other community colleges around the state and the Western Association of Food Chains (WAFC). Two classes are taken online through Skagit Valley College.

TECHNICAL SPECIALTY COURSES

ACCT	110	Introduction to Accounting/Bookkeeping I5
BUS	114	Introduction to Marketing5
BUS	116	Business Math/Spreadsheets5
BUS	119	Leadership and Management Skills 3
BUS	169	Using Computers in Business 5
BUS	205	Human Resource Management 5
BUS	214	Retail Management
BUS	230	Business Communications 5
BUS	236	Interpersonal Communications for
		the Workplace5
TECHNICAL SPECIALTY CREDITS 43		
TOTAL PROGRAM CREDITS 43		

Early Childhood Education

Workforce Instruction Division (206) 934-3783

17

North offers certificates and an Associate of Applied Science degree in early childhood education. The A.A.S. degree is a two-year teacher preparation program focusing on the educational and developmental needs of children from birth to 8 years old. Career opportunities include positions as a childcare teacher, preschool teacher or nanny.

ELECTIVE COURSES

other courses listed below:

Completion this course, EDUC 115 - Child Development (5 credits) , and the State Initial ECE Certificate courses (12 credits) equals the State Short ECE Certificate - Infant/Toddler Care

Early Cilitationa Education	
Associate of Applied Science Degree (A.A.S.)	Select from the following courses:
GENERAL EDUCATION	EDUC& 205 Introduction to Education with Field Experience5
Contact the Advising Office for approved courses.	CCE 145 Music and Creative Expression
ENGL& 101 English Composition I	Credit range: 3-4; Total required credits: 4 CCE 195 Art for Young Children
U.S. Cultures	CCE 200 Children and Nature
Following can be substituted: Global Studies courses	CCE 261 Readings in Early Childhood Education 6
REQUIRED GENERAL EDUCATION CREDITS 10	Credit range: 1-6; Total required credits: 1-6
GENERAL EDUCATION - COMPUTATION/QUANTITATIVE	ECED& 134 Family Child Care
ELECTIVE	EDUC& 136 School-Age Care
MATH at 100 level or choose from course(s) listed below:	REQUIRED ELECTIVE CREDITS 14
ACCT 110 Introduction to Accounting/Bookkeeping I 5	TOTAL PROGRAM CREDITS 90
REQUIRED C/Q ELECTIVE CREDITS 5	TOTAL FROGRAM GREDITO
GENERAL EDUCATION - HUMAN RELATIONS ELECTIVE	State Early Childhood Education Certificate
Choose from one of the following courses:	This program is part of the Washington State Career State
BUS 236 Interpersonal Communications for	Career Lattice for Early Childhood Education (meets minimum
the Workplace5	child care licensing standards or registered apprentice in high
HUM 105 Intercultural Communication	school, high School or equivalent and 20 hours basic STARS/ MERIT training or 2 college credits in basics of child care
ISP 101 the Global Society5	course, at least 2 hours of training in each of the ECE Core
ISP 110 Introduction to Global Studies	Competency areas.) for early care and education professionals.
POLS 112 Contemporary World	The State Early Childhood Education certificate is awarded
SOC& 101 Introduction to Sociology5	following completion of the one of the specialized Early
REQUIRED HR ELECTIVE CREDITS 5	Childhood Short Certificates (total of 20 credits, which
REQUIRED COURSES	includes completion of the State Initial Early Childhood Education Certificate [12 credits]) plus 27 credits in
Practicum - Instructional Interactions	additional required coursework as noted.
Math and Science Methods	TECHNICAL SPECIALTY COURSES
ECED& 105 Introduction to Early Childhood Education 5	ECED& 160 Curriculum Development
ECED& 107 Health, Safety, and Nutrition	ECED& 170 Environments-Young Child
ECED& 120 Practicum: Nurturing Relationships	Following can be substituted:
ECED& 132 Infants and Toddlers	ECED&130 Guiding Behavior3
ECED& 139 Administration	ECED& 180 Language and Literacy Development
ECED& 160 Curriculum Development	ECED& 190 Observing and Assessment
ECED& 170 Environments-Young Child	EDUC& 150 Child Family and Community
ECED& 180 Language and Literacy Development	TECHNICAL SPECIALTY CREDITS 17
ECED& 190 Observing and Assessment	TECHNICAL SPECIALTY COURSES - INITIAL CERTIFICATE
EDUC& 115 Child Development	Completion of the courses listed below equals the State Initial
EDUC& 130 Guiding Behavior	ECE Certificate.
EDUC& 150 Child Family and Community	ECED& 105 Introduction to Early Childhood Education 5
EDUC& 203 Exceptional Child	ECED& 107 Health, Safety, and Nutrition 5
REQUIRED COURSES CREDITS 46	ECED& 120 Practicum: Nurturing Relationships 2
	TECHNICAL SPECIALTY INITIAL CERTIFICATE CREDITS 12
	TECHNICAL SPECIALTY COURSES - SPECIALIZATION
	Completion of EDUC& 115 - Child Development and one of the

Farly Childhood Education

ECED& 134	Family Child Care	Administra This program Career Lattic	is part of the Washington State Career State e for Early Childhood Education (meets minimum
ECED& 139	Administration	school, high MERIT trainin course, at lea Competency	ensing standards or registered apprentice in high School or equivalent and 20 hours basic STARS/ ag OR 2 college credits in basics of child care east 2 hours of training in each of the ECE Core areas.) for early care and education professionals.
EDUC& 115 EDUC& 130	Child Development	Administration of the State I (12 credits) pas noted.	ort Early Childhood Education Certificate - on is awarded following completion of completion nitial Early Childhood Education Certificate olus 8 credits in additional required coursework SPECIALTY COURSES - INITIAL CERTIFICATE
EDUC& 136	School-Age Care	ECE Certifica ECED& 105 ECED& 107	of the courses listed below equals the State Initial te. Introduction to Early Childhood Education 5 Health, Safety, and Nutrition
TECHNICAL S	SPECIALTY SPECIALIZATION CREDITS 8	TECHNICAL	SPECIALTY COURSES - SPECIALIZATION
RELATED INS	STRUCTION		Administration
ENGL& 101	English Composition I	EDUC& 115	Child Development
	g can be substituted:	TOTAL PROGI	RAM CREDITS 20
_	course higher than ENGL& 101	Ctata Chart	Early Childhood Education Cortificato
College Level	MATH course	Family Chil	
RELATED INS	TRUCTION CREDITS 10		is part of the Washington State Career State e for Early Childhood Education (meets minimum
TOTAL PROGR	RAM CREDITS 47 I Early Childhood Education Certificate	child care lice school, high MERIT trainir	ensing standards or registered apprentice in high School or equivalent and 20 hours basic STARS/ og OR 2 college credits in basics of child care ast 2 hours of training in each of the ECE Core
professional of State Career licensing stath high School of training OR 2	rtificate is a point of entry or a continuation of development based on Level 1 on the Washington State Career Lattice (meets minimum child care ndards or registered apprentice in high school, or equivalent and 20 hours basic STARS/MERIT college credits in basics of child care course, at of training in each of the ECE Core Competency	Competency The State Sh Child Care is of the State I	areas.) for early care and education professionals. ort Early Childhood Education Certificate - Family awarded following completion of completion nitial Early Childhood Education Certificate ollus 8 credits in additional required coursework
Stackable ce	nitial Certificate (level 2 Step 5) is the first " rtificate" providing a foundation for the ECS ial and association degree.		SPECIALTY COURSES - INITIAL CERTIFICATE of the courses listed below equals the State Initial te
TECHNICAL S	SPECIALTY COURSES	ECED& 105	Introduction to Early Childhood Education 5
ECED& 105	Introduction to Early Childhood Education 5	ECED& 107	Health, Safety, and Nutrition5
ECED& 107	Health, Safety, and Nutrition5	ECED& 120	Practicum: Nurturing Relationships2
ECED& 120	Practicum: Nurturing Relationships 2	TECHNICAL S	SPECIALTY COURSES - SPECIALIZATION
TOTAL PROGI	RAM CREDITS 12	ECED& 134 EDUC& 115	Family Child Care
		TOTAL DROCK	RAM CREDITS 20

State Short Early Childhood Education Certificate -General

This program is part of the Washington State Career State Career Lattice for Early Childhood Education (meets minimum child care licensing standards or registered apprentice in high school, high School or equivalent and 20 hours basic STARS/MERIT training OR 2 college credits in basics of child care course, at least 2 hours of training in each of the ECE Core Competency areas.) for early care and education professionals. The State Short Early Childhood Education Certificate - General is awarded following completion of completion of the State Initial Early Childhood Education Certificate (12 credits) plus 8 credits in additional required coursework as noted.

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		

State Short Early Childhood Education Certificate - Infant Toddler Care

This program is part of the Washington State Career State Career Lattice for Early Childhood Education (meets minimum child care licensing standards or registered apprentice in high school, high School or equivalent and 20 hours basic STARS/MERIT training OR 2 college credits in basics of child care course, at least 2 hours of training in each of the ECE Core Competency areas.) for early care and education professionals. The State Short Early Childhood Education Certificate - Infant Toddler Care is awarded following completion of completion of the State Initial Early Childhood Education Certificate (12 credits) plus 8 credits in additional required coursework as noted.

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 Nutrition5	
ECED& 120	Practicum: Nurturing Relationships2	
TECHNICAL S	SPECIALTY COURSES - SPECIALIZATION	
ECED& 132	Infants and Toddlers	
EDUC& 115	Child Development	
TOTAL PROGRAM CREDITS 20		

State Short Early Childhood Education Certificate - School-Age Care

This program is part of the Washington State Career State Career Lattice for Early Childhood Education (meets minimum child care licensing standards or registered apprentice in high school, high School or equivalent and 20 hours basic STARS/MERIT training OR 2 college credits in basics of child care course, at least 2 hours of training in each of the ECE Core Competency areas.) for early care and education professionals. The State Short Early Childhood Education Certificate - School-Age Care is awarded following completion of completion of the State Initial Early Childhood Education Certificate (12 credits) plus 8 credits in additional required coursework as noted.

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 PROGE	RAM CREDITS	20		

Electronics

Workforce Instruction Division (206) 934-3730

Electronics and associated technologies at North prepare students for careers in this diverse and expanding field. Ongoing changes in the electronics technology programs reflect changing community and industry needs. Instruction emphasizes a hands-on approach, the use of sophisticated test equipment unique to each discipline and a solid base of pertinent information. These programs provide high-skill learning opportunities, including professional certification and Associate of Applied Science degree options.

To accommodate students in as many segments of the industry as possible, day (D) and evening (E) programs are offered in the following areas:

Professional/Technical Programs

Electronics Certificate and A.A.S Programs

Programs: Day (D) - Evening (E) Biomedical Equipment Technology **Electronics Engineering Technology**

Electronics Technology*

Electronics Technology*, Certificate Industrial Power & Control Technology

Industrial Power & Control Technology, Certificate

*Students interested in Electronics Technology should contact the program advisor at (206) 528-4588, or the Advising Center at (206) 934-3658 before enrolling. Courses and programs are transferable to certain four-year institutions.

TOTAL CREDITS: (SEE INDIVIDUAL PROGRAMS)

Aviation Electronics 1: Wire Assembly Certificate

This certificate is designed to provide students with the basic knowledge, skills and abilities to meet minimum requirements for employment as an entry level wire assembly technician in aerospace-related technologies.

PREREOUISITES

-OR-

For placement testing: contact Testing Center, 934-3674 To begin program, students must test into the English and Math courses listed below:

BUS	169	Using Computers in Business 5	
Following can be substituted:			
equivalent computer experience			
ENGL	097	English 097: Integrated Reading and	

Following can be substituted: ENGL 098 College Prep Writing IV......5 -OR-

higher ENGL course Following can be substituted: higher MATH course

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 Anal	ysis . 5
EET	137	Introduction to Robotics	5
EET	161	D.C. Principles of Electronics	5
EET	162	A.C. Principles of Electronics	5
TOTAL	PROGE	RAM CREDITS	29-30

Aviation Electronics II: Electronics Technician Certificate

Electronics and associated technologies at North prepare students for careers in this diverse and expanding field. Ongoing changes in the electronics technology programs reflect changing community and industry needs. Instruction emphasizes a hands-on learning, the use of sophisticated test equipment unique to each discipline, and a solid base of electronics/electrical theory. These programs provide high-skill learning opportunities, including professional certification and Associate of Applied Science degree options. Also see the Sustainable & Conventional Energy & Control Technology program.

This certificate program prepares students for entry-level positions in aerospace-related technologies.

PREREQUISITES

For placement testing: contact Testing Center, 934-3674. To begin program, students must test into the English and Math courses listed below:

BUS 169 Using Computers in Business 5 Following can be substituted: equivalent computer experience ENGL 097 English 097: Integrated Reading and Writing I 10

Following can be substituted: ENGL 098 College Prep Writing IV......5

Following can be substituted: higher MATH course

have taken equivalent or higher MATH course

TECHNICAL SPECIALTY COURSES

TOTAL PROGRAM CREDITS

higher ENGL course

TECHNICAL SECURET COUNSES			
EET 105	Introduction to Technology		
EET 107	Introduction to Aviation Electronics5		
EET 108	Introduction to Fiber Optics 5		
EET 109	Mathematical Applications for Circuit Analysis 5		
EET 112	Fundamentals of Fluid Power & Alternative		
	Energy5		
EET 131	IT Essentials I - A+ Certification 5		
EET 137	Introduction to Robotics		
EET 161	D.C. Principles of Electronics 5		
EET 162	A.C. Principles of Electronics 5		
EET 163	Solid State Electronics		
EET 170	Digital Electronics & Plcs I5		
BUS 236	Interpersonal Communications for		
	the Workplace5		
ENGL& 101	English Composition I		
Followir	g can be substituted:		
ENGL&	230 Technical Writing3		
-OR-			
ENGL&:	ENGL&235 Technical Writing		

60 - 63

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GENERAL EDUCATION COURSES

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

This certificate is designed to provide students with the basic knowledge, skills and abilities to meet minimum requirements for employment as an entry level avionics technician in aerospace-related technologies. This program is intended as a supplement for Aviation Maintenance Technicians.

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

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.

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:			
ı	EET 1	L70 Digital Electronics & PLCs I	5
TOTAL PROGRAM CREDITS 15			

Broadband Cable Certificate

Electronics and associated technologies at North prepare students for careers in this diverse and expanding field. Ongoing changes in the electronics technology programs reflect changing community and industry needs. Instruction emphasizes a hands-on learning, the use of sophisticated test equipment unique to each discipline, and a solid base of electronics/electrical theory. These programs provide high-skill learning opportunities, including professional certification and Associate of Applied Science degree options. Also see the Sustainable & Conventional Energy & Control Technology program. Students can take a short-term certificate in Green Energy. This certificate program prepares students for entry-level positions in the broadband cable TV industry.

PREREQUISITES

-OR-

-OR-

TOTAL PROGRAM CREDITS

For placement testing: contact Testing Center, 934-3674. To begin program, students must test into the English and Math courses listed below:

Matil 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 I10				
Following can be substituted: higher ENGL course				
-OR-				
ENGL 098 College Prep Writing IV5				
MATH				
Following can be substituted: higher MATH course				
-OR-				
have taken an equivalent or higher course				
TECHNICAL SPECIALTY COURSES				

TECHNICAL SPECIALTY COURSES				
EET	108	3 Introduction to Fiber Optics		
EET	131	L IT Essentials I - A+ Certification5		
EET	132	2 IT Essentials A+ Certification Advanced5		
EET	135	5 Introduction to Broadband 5		
EET	160	Introduction to Electricity and Electronics 5		
	Followi	ng can be substituted:		
	EET	161 D.C. Principles Of Electronics 5		
REL	ATED IN	NSTRUCTION		
BUS	236	6 Interpersonal Communications for		
		the Workplace5		
Following can be substituted:				
	HUM	105 Intercultural Communication5		
	-OR-			
	ISP	101 The Global Society		
	-OR-			
	ISP	110 Intro to Global Studies5		

POLS 112 Contemporary World 5

SOC& 101 Introduction to Sociology 5

Professional/Technical Programs

Electronics Engineering Technology Associate of Applied Science - T Degree (A.A.S.-T)

This two-year program prepares students for advanced technical training and transfer into B.S. degree programs in electronics engineering technology at selected institutions such as Western Washington University or Central Washington University.

The program focuses on teaching practical engineering applications and skills, and provides a good foundation for those who wish to seek employment after the two-year program. Because of the complexity of course prerequisites and course sequences, students need advanced planning assistance with an advisor. Advanced placement testing, work experience, and transfer of credits may result in course waivers, credit transfer, and advanced placement.

PREREQUISITES

BUS

For placement testing, contact Testing Center, 934-3674. To begin program, students must test into the English and Math courses listed below:

Following can be substituted:
equivalent computer experience
ENGL 097 English 097: Integrated Reading and Writing I10
-OR-
ENGL 098 College Prep Writing IV5
higher ENGL course

169 Using Computers in Business 5

have taken equivalent or higher MATH course

TECHNICAL SPECIALTY COURSES

TECHNICAL SPECIALTY CREDITS

CSC	142	Computer Programming I
Fo	llowing	g can be substituted: any higher CSC course
EET	105	Introduction to Technology2
EET	161	D.C. Principles of Electronics 5
EET	162	A.C. Principles of Electronics 5
EET	163	Solid State Electronics
EET	165	Analog Circuits and Devices5
EET	166	Analog Circuits and Devices II 5
EET	170	Digital Electronics & Plcs I5
EET	171	Digital Electronics & Plcs II 5
EET	251	Microprocessor Fundamentals I5
EET	252	Microprocessor Fundamentals II5
EET	285	Electronics Tech Project
PHYS&	221	Engineering Physics I
PHYS&	222	Engineering Physics II
PHYS&	223	Engineering Physics III

RELATED INSTRUCTION

ENGL& 101

See Advising Center for list of designated courses for above requirements.

CMST& 210 Interpersonal Communication 5

	While students must test into ENGL 097			
	to start the degree, they must complete			
	ENGL& 101 to finish			
ENGL& 230	Technical Writing			
MATH& 142	Precalculus II			
MATH& 151	Calculus I			
MATH& 152	Calculus II			
Global Studies5				
Following can be substituted: U.S. Cultures credits				
Human Relat	Human Relations Elective			

TECHNICAL ELECTIVES

Select five credits from approved list. See Advising Center.

REQUIRED TECHNICAL ELECTIVES	5
RELATED INSTRUCTION CREDITS	10
TOTAL PROGRAM CREDITS	110-112

Electronics Technology Certificate

This program provides opportunities for students interested in the operation, maintenance and repair of a wide array of electronics equipment, creating a broad foundation in electronics training. Instruction 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 program offers job training directed toward immediate employment and future advancement with companies specializing in manufacturing or servicing all types of electronic equipment.

PREREQUISITES

70

For placement testing: contact Testing Center, 934-3674 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	
-C	DR-		
equivalent computer experience			

ENGL 097 English 097: Integrated Reading and Writing I. . 10 Following can be substituted: higher ENGL course

Following can be substituted: higher MATH course -OR-

have taken equivalent or higher MATH course

TECHNICAL SPECIALTY COURSES					
EET	105	Introduction to Technology			
EET	107	Introduction to Aviation Electronics	5		
EET	108	Introduction to Fiber Optics			
EET	131	IT Essentials I - A+ Certification			
EET	132	IT Essentials A+ Certification Advanced .	5		
	_	g can be substituted:			
EE		35 Intro to Broadband			
EET	137	Introduction to Robotics			
EET	161	D.C. Principles of Electronics			
EET	162	A.C. Principles of Electronics			
EET	163	Solid State Electronics			
EET	165	Analog Circuits and Devices			
EET	170	Digital Electronics & Plcs I	5		
		UCATION COURSES			
EET 10)9 Ma	athematical Applications for Circuit Analysis	3 5		
	_	g can be substituted:			
MA	ATH 1	41 Pre-Calculus I	5		
-01	-				
	,	ATH course			
ENGL& 101 English Composition I					
Following can be substituted:					
	ENGL&230 Technical Writing3				
	-OR-				
ENGL&235 Technical Writing5					
GENERAL EDUCATION COURSES - HUMAN RELATIONS ELECTIVES					
Choose from one of the following courses:					
BUS	236	Interpersonal Communications for			
		the Workplace (the preferred course)	5		
	HUM	105 Intercultural Communication			
ISP	101	the Global Society	5		
ISP	110	Introduction to Global Studies			
POLS	112	Contemporary World			
SOC&	101	Introduction to Sociology			
GENERAL EDUCATION - HUMAN RELATIONS ELECTIVES 5					
			65-68		
TOTAL PROGRAM CREDITS 65-68					

Electronics Technology Associate of Applied Science Degree (A.A.S.)

This program provides opportunities for students interested in the operation, maintenance and repair of a wide array of electronics equipment, creating a broad foundation in electronics training. Instruction 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 program offers job training directed toward immediate employment and future advancement with companies specializing in manufacturing or servicing all types of electronic equipment.

	FILL	LQUISI	iLJ	
	For p	lacemen	t testing: contact Testing Center, 934-3674.	
	To be	gin prog	ram, students must test into the English and	
			s listed below:	
	BUS		Using Computers in Business	
	-	-OR-		
	(equivale	nt computer experience	
	ENGL	_ 097	English 097: Integrated Reading and Writing I10	
		Following	g can be substituted:	
	1	ENGL 0	98 College Prep Writing IV5	
	-	-OR-		
	1	higher El	NGL course	
	MATH	1 084	Algebra I	
		Following	g can be substituted: higher MATH course	
	TECH	INICAL S	SPECIALTY COURSES	
	EET	105	Introduction to Technology	
	EET	106	Introduction to Soldering	
	EET	107	Introduction to Aviation Electronics5	
	EET	108	Introduction to Fiber Optics	
	EET	112	Fundamentals of Fluid Power &	
			Alternative Energy5	
	EET	114	Applied Physics5	
	EET	131	IT Essentials I - A+ Certification	
	EET	132	IT Essentials A+ Certification Advanced5	
	EET	135	Introduction to Broadband 5	
	EET	137	Introduction to Robotics	
	EET	138	Robotic Applications	
	EET	161	D.C. Principles of Electronics	
	EET	162	A.C. Principles of Electronics	
	EET	163	Solid State Electronics	
	EET	165	Analog Circuits and Devices5	
	EET	170	Digital Electronics & Plcs I	
	EET	171	Digital Electronics & Plcs II	
	EET	219	Metrology and Measurement Science	
	RELA	TED INS	TRUCTION	
	EET	109	Mathematical Applications for Circuit Analysis 5	
		Following	g can be substituted: higher MATH course	
	-	-OR-		
MATH&141 Pre-Calculus				
		& 101		
			While students must test into FNGL 097	

to start the degree, they must complete

ENGL& 101 to finish.

DDEDEGLISHES

Choose from one of the following:

DUO	000	1.1		
BUS	236		_	
		the Workplace (the preferred course) .		
HUM	105	Intercultural Communication		
ISP	101	the Global Society	5	
ISP	110	Introduction to Global Studies	5	
POLS	112	Contemporary World	5	
SOC&	101	Introduction to Sociology	5	
REQUIF	RED HI	JMAN RELATIONS ELECTIVE CREDITS	5	
RELATED INSTRUCTION - TECHNICAL ELECTIVES				
		red course(s) from the following departr		
EEL, EE	ET, HVC	C, TDR, CSC, CHEM, ENGR, NANO or cou	rse	
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 XHT	ML 5	
Following can be substituted: higher IT course				
MATH	116	Applications of Math to Management, Life & SSCI	5	
Following can be substituted: higher MATH course				
REQUIF	REQUIRED TECHNICAL ELECTIVES CREDITS 8-10			
TOTAL PROGRAM CREDITS 108-111				
Sustainable and Conventional Energy &				

RELATED INSTRUCTION - HUMAN RELATIONS ELECTIVES

Control Technology Certificate

The Industrial Power & Control Program offers a one-year certificate in Sustainable and Conventional Energy and Control Technology and a two-year Associate of Applied Science degree in Industrial Power & Control Technology. This program prepares students for entry level employment in companies or government organizations that manufacture, service, sell, design or support electrical and electronic systems that control machinery, automation, and/or processes. Emphasis is placed on the control of large electrical currents and large electromechanical systems through solid state, digital, and microprocessor devices. The program involves in-depth study of industrial controls, fluid power, AC and DC rotating equipment, instrumentation and measurement, and system control principles. Sustainable and Conventional Energy and Control differs from Electronics in the scale and application of electrical, electronic and mechanical systems, and may be considered "Industrial Electronics."

PREREQUISITES

For placement testing contact Testing Center, 934-3674. 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						
	s listed below:					
	Using Computers in Business 5					
	g can be substituted:					
•	nt computer experience					
	Integrated Reading and Writing I10					
	g can be substituted: higher ENGL course					
	998 College Prep Writing IV5					
MATH 084	8					
	g can be substituted: higher MATH course					
-OR-						
have tak	en an equivalent or higher MATH course					
TECHNICAL S	SPECIALTY COURSES					
EEL 201	Energy Generation Conversion and					
	Sustainability5					
EEL 202	Industrial Motor Controls5					
EEL 203	Industrial Motor Drives 5					
EET 105	Introduction to Technology2					
EET 112	Fundamentals of Fluid Power & Alternative					
	Energy5					
EET 114	Applied Physics					
EET 137	Introduction to Robotics 5					
EET 161	D.C. Principles of Electronics					
EET 162	A.C. Principles of Electronics 5					
EET 163	Solid State Electronics 5					
EET 165	Analog Circuits and Devices5					
EET 170	Digital Electronics & Plcs I 5					
TECHNICAL S	SPECIALTY CREDITS 58					
RELATED INS	STRUCTION					
BUS 236	Interpersonal Communications for					
	the Workplace					
•	g can be substituted:					
	.05 Intercultural Communication5					
-OR-						
	.01 The Global Society					
-OR-	40 lateralisation to Olahal Obadia					
	10 Introduction to Global Studies5					
-OR- POLS 1	.12 Contemporary World					
-OR-	.12 Contemporary World					
	.01 Introduction to Sociology					
EET 109	Mathematical Applications for Circuit Analysis 5					
	g can be substituted: higher MATH course					
	41 Precalculus					
ENGL& 101	English Composition I					
ENGL& 230						
Following can be substituted:						
ENGL&235 Technical Writing						
RELATED INSTRUCTION CREDITS 13-15						
TOTAL PROGRAM CREDITS 71-73						

Engineering Graphics & Design Technology

Workforce Instruction Division (206) 934-3730

Advanced Design for Manufacturing Short-Term Certificate

This program has been designed for the student that wants to pursue a career in Mechanical Engineering as a Mechanical Drafter or Commercial/Industrial Designer. The student will use computer programs that relate to CAD (Computer Aided Design) including SolidWorks and CATIA to construct rapid prototypes from basic 30 part creation to advanced surfacing models used in industries such as Aerospace.

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

TECHNICAL SPECIALTY COURSES

TDR	170	Introduction to Design for 3D Printing	5
TDR	171	Introduction to SolidWorks	5
TDR	172	Intermediate SolidWorks	5
TDR	173	3D Printing	5
TOTAL	PROGE	RAM CREDITS	20

Architecture Engineering Drafting Certificate

This certificate prepares students for the growing number of entry-level jobs in engineering, construction, and architectural firms. Our laboratory is equipped with industry standard computer-aided design (CAD) systems to provide state-of-the-art graphics training. Coursework includes instruction and hands on training in computer and conventional drafting, construction materials and processes, basic engineering mechanics, and architectural cost estimating.

PREREQUISITES

Placement into ENGL 97/ENGL 98 or higher, placement into MATH 084 or higher, and completion of BUS 169 or IT 101.

TECHNICAL SPECIALTY COURSES

TDR	111	Basic CAD Drafting for Construction and Design
TDR	112	Intermediate CAD Drafting for Construction and Design
TDR	113	Basic Drafting5
TDR	124	Materials and Methods of Construction5
TDR	134	Systems in Buildings5
TDR	144	Design and Construction Environment 5
TDR	144	Design and Construction Environment5
TDR	176	Advanced AutoCAD for Architectural
		Engineering Drafting 4
TECHNICAL SPECIALTY CREDITS 34		

GENE	RAL ED	UCATION			
BUS	236	Interpersonal Communications for the Workplace			
EET	109	Mathematical Applications for Circuit Analysis 5			
	DR-				
N	1ATH 1	.02 College Algebra 5			
ENGL	§ 101	Composition5			
GENE	RAL ED	UCATION CREDITS 15			
TOTAL	PROG	RAM CREDITS 49			
Archi	tecture	e Engineering Drafting			
		f Applied Science Degree (A.A.S.)			
TECHI	NICAL S	SPECIALTY COURSES			
TDR	100	Basic BIM for Design and Construction 5			
TDR	101	Intermediate BIM for Design and			
TDR	102	Construction			
TDR	102	Architectural Engineering Lab5			
IDIN	109	(110 total lab hours, repeated for 5 quarters)			
TDR	111	Basic CAD Drafting for Construction & Design 5			
TDR	112	Intermediate CAD Drafting for Construction &			
TDD	440	Design5			
TDR	113	Basic Drafting			
TDR	124	Materials and Methods of Construction 5			
TDR	134 144	Systems in Buildings			
TDR TDR	160	Design and Construction Environments5 Applied Mechanics I			
TDR	161	Applied Mechanics II			
TDR	269	Construction Estimating			
		SPECIALTY CREDITS 65			
		UCATION INSTRUCTION			
	% 101	Composition			
ENGL		Technical Writing			
EET	109	Mathematical Applications for Circuit Analysis 5			
-(DR-	, , , , , , , , , , , , , , , , , , ,			
Ν	1ATH&1	.41 Pre-Calculus I			
BUS	169	Using Computers in Business 5			
-(DR-				
17	Г 1	.01 Software Applications			
-(DR-				
C	SC 1	.11 Computers for Math and Science 5			
BUS	236	Interpersonal Communications for			
Clooti.		the Workplace			
Electiv	Elective 5 credits must be selected from a list of approved U.S. Cultures or Global Studies				
		courses			
GENEI	RAL ED	UCATION CREDITS 28			
TOTAL	TOTAL PROGRAM CREDITS 93				

Building Information Modeling (BIM) Short-Term Certificate

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. The student will develop skills in building computer generated models that unify architecture, engineering, construction and sustainability. Building Information Modeling/Management offers many solutions to fulfilling the challenge of sustainability and transition to a new medium.

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	PROGE	RAM CREDITS	19

100 Pagia PIM for Dagign and Construction

Computer Aided Design (CAD) for Design and **Construction Short-Term Certificate**

This certificate prepares students for a growing number of entry-level jobs in engineering, construction, and architectural firms. Our laboratory is equipped with industry-standard computer-aided design (CAD) systems to provide state-ofthe-art graphics training. Course work includes instruction and hands-on training in basic engineering, architectural, and drafting practices.

TECHNICAL SPECIALTY COURSES

TDR	111	Basic CAD Drafting for Construction and Design	5
TDR	112	Intermediate Drafting for Construction and Design	5
TDR	176	Advanced AutoCAD for Arch & Engineering Drafting	4
TOTAL	PROGE	RAM CREDITS	14

Fine Arts in Acting (Drama)

Arts, Humanities and Social Services Division (206) 934-3709

Certificate

A Certificate of Fine Arts is offered in Art, Jewelry Design and Drama, and an Associate of Fine Arts degree is offered in Art and Music. Students must complete at least 15 college transfer level credits (numbered 100 or above) with a GPA 2.0 or better at North Seattle College.

Candidates for the Certificate in Fine Arts in Acting (C.F.A.) must have successfully completed 90 quarter hours in college transfer-level (numbered 100 and above) courses with a GPA of 2.0 or better. At least 30 credits must be earned at North Seattle College and the final guarter of enrollment must be at NSC.

The Certificate in Fine Arts: Acting is not a transfer program, so students seeking a B.A. or B.F.A. in Drama should consult the degree requirements for the Associate of Arts degree at NSC and the graduation requirements for the university at which they intend to enroll. C.F.A. students in drama must have a drama advisor so that they can plan their two-year program. Students who wish to receive this certificate must submit a portfolio of work and/or a special performance during their final quarter for evaluation by the drama faculty. The specific courses are to be planned with the drama advisor who will also review and recommend final certification. Substitutions may be made only with the approval of the drama advisor and Humanities Associate Dean.

General Education requirements of 5 credits each are met by communication, computation and human relations courses.

REQUIRED COURSES

DRIVIAG	TOT	introduction to meatre	
DRMA	121	Acting	5
DRMA	122	Acting	5
DRMA	123	Acting	5
DRMA	221	Advanced Acting	5
DRMA	222	Advanced Acting	5
DRMA	223	Advanced Acting	5
DRMA	298	Individual Projects in Theater	5
REQUIF	RED CO	DURSES CREDITS	40

GENERAL EDUCATION COURSES

All General Education credits should be completed by			
4th quarter. Select credits from courses below:			
ACCT 110	Introduction to Accounting/Bookkeeping I 5 Satisfies Computation Course Requirement.		
BUS 116	Business Math/Spreadsheets5 Satisfies Computation Course Requirement.		
CMST& 101	$\label{lem:communication} Introduction \ to \ Communication \ \dots \ $		
CMST& 220	Public Speaking		
CMST& 230	$\label{thm:communication:communication:constraints} Small \ Group \ Communications \ Course \ Requirement.$		
MATH& 107	Math in Society		
MATH 110	Applied Math for Technicians		
PSYC& 100	$\label{thm:control} \mbox{General Psychology}. $		
PSYC 245	Social Psychology5 Satisfies Human Relations Course Requirement.		
SOC 102	$\label{lem:continuous} \mbox{Introduction to American Culture} \ \dots \dots .5 \ \mbox{Satisfies Human Relations Course Requirement.}$		
Communication			

Computation course5

GENERAL EDUCATION CREDITS

Select 20 credits from courses listed below:			
ART&	100	Art Appreciation	
ART	251	Art History	
ART	252	Survey of Western Art: Medieval-Renaissance . 5	
ART	253	Survey of Western Art: Renaissance-Present 5	
DRMA	108	Rehearsal and Performance 5 Credit range: 2-5	
DRMA	109	Rehearsal and Performance 5 Credit range: 2-5	
DRMA	110	Rehearsal and Performance5 Credit range: 2-5	
DRMA	116	Fundamentals of Acting for the Camera 5	
DRMA	200	Special Projects in Drama 5	
		Credit range: 1-5	
DRMA	201	Special Studies: Drama5 Credit range: 1-5	
DRMA	202	Special Studies	
		Credit range: 1-5	
DRMA	271	Acting	
		Credit range: 1-5	
DRMA	272	Acting	
DRMA	273	Acting	
DRMA	291	Special Projects in Drama: Theatrical Internship5 Credit range: 1-5	
DRMA	292	Special Projects in Drama: Theatrical Internship5 Credit range: 1-5	
DRMA	298	Individual Projects in Theater	
DININA	230	Credit range: 1-5	
ENGL&		Introduction to Fiction	
ENGL&		Shakespeare 15	
ENGL&	225	Shakespeare 25	
ENGL&	226	British Literature I	
ENGL&		British Literature II	
ENGL&	228	British Literature III	
ENGL&	244	American Literature I5	
ENGL&	245	American Literature II	
ENGL&	246	American Literature III	
ENGL	258	Literature of American Cultures 5	
HUM	104	Visual Thinking5	
HUM	110	Introduction to American Film 5	
HUM	200	Reading the Media 5	
MUSC	100	Music in the Western World 5	
MUSC	126	Beginning Group Piano - 1st Quarter 2	
MUSC	140	College Choir	
DRAMA	A-RELA	TED ELECTIVES CREDITS 20	

ELECTIVES - TECHNICAL THEATER

Total of 15 credits to be taken for 2-5 credits each, in at least 3 different quarters. Students should arrange their credit needs before enrolling.

Select credits from courses listed below:

TECHNICAL THEATER ELECTIVES CREDITS 15
TOTAL PROGRAM CREDITS 87-90

Fine Arts in Art

Arts, Humanities and Social Services Division (206) 934-3709

Certificate

A Certificate of Fine Arts is offered in Art, Jewelry Design and Drama, and an Associate of Fine Arts degree is offered in Art and Music. Students must complete at least 15 college transfer level credits (numbered 100 or above) with a GPA 2.0 or better at North Seattle College.

Candidates for the Certificate in Fine Arts: Art must complete 85 credits in college transfer level courses (numbered 100 and above) with a grade point average (GPA) of 2.0 or better. At least 15 credits must be earned at North Seattle College and the final quarter must be in residence at North Seattle College (NSC).

The Certificate in Fine Arts: Art certifies completion of approved work and is suitable for students currently working in art, but it is not a transfer certificate. Students seeking a B.A. or B.F.A. should consult NSC Associate of Arts degree requirements and the graduation requirements of the university at which they intend to enroll. All C.F.A.: Art students must plan their program with their art advisor. Some of the art courses are offered only once a year, so students should consult the annual schedule (Winter and Spring but not Fall). Substitution may be made only with the approval of the art advisor and the Dean of Arts, Humanities & Social Sciences Division. Students must submit a portfolio of at least eight pieces during their final quarter for evaluation; this portfolio will be evaluated by the art faculty. Final approval and recommendation to award the C.F.A.: Art rests with the Art faculty.

ART

Most General Education requirements for this certificate are met by course content in various art courses, communication by ART 251,252,253, and human relations by ART 290. Students must take a five credit computation course from one of the following: MATH& 107 or above, BUS 116, or ACCT 110 or above.

Although it may be possible to complete this program in two years, it is suggested that it be spread over more time to allow better assimilation of skills and more flexible scheduling. Art courses require more time than is allowed in class alone, as well as high energy and involvement for truly effective learning. The art faculty, therefore, highly recommends that students should consider two studio courses per guarter a maximum.

101 Design......5

REQUIRED COURSES

ART	102	Design5	
ART	111	Drawing	
ART	112	Drawing	
ART	113	Drawing	
ART	251	Art History	
		Art history courses are taught at Seattle Central College or other college.	
ART	252	Survey of Western Art: Medieval-Renaissance 5 Art history courses are taught at Seattle Central College or other college.	
ART	253	Survey of Western Art: Renaissance-Present 5 Art history courses are taught at Seattle Central College or other college.	
ART	290	the Art Business5	

GENERAL EDUCATION COURSES

Total required Computation Course credits: 5
Select five credits from courses as noted below:

ACCT 110 Introduction to Accounting/Bookkeeping I....5 Following can be substituted:

ACCT course higher than ACCT 110

BUS 116 Business Math/Spreadsheets...........5
MATH& 107 Math in Society5

Following can be substituted:

Math course higher than MATH& 107

ART ELECTIVES

Total required ART Electives credits: 35 minimum between Group 1 and Group 2. ART Electives by group listed below:

ART&	100	Art Appreciation
ART	299	Special Problems in Art
		up to 12 credits

ART ELECTIVES GROUP 1 : 2-DIMENSIONAL ART

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

00p.c		a sequence is not required.
ART	114	Introduction to Digital Photography I 5
ART	121	Introduction to Printmaking 5
ART	122	Introduction to Printmaking-Intermediate 5
ART	123	Continuing Printmaking: Monotype and Monprint 5
ART	201	Painting

ART	202	Painting	5
ART	203	Painting	5
ART	210	Digital & Graphic Art - Photosho	op + Illustrator .5
ART	214	Digital & Graphic Art - Intermed	liate5
GROUP 1 ELECTIVES CREDITS MINIMUM 15			

ART ELECTIVES GROUP 2: 3-DIMENSIONAL ART

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

completion o	r a sequence is not re	quirea.
ART 211	Sculpture	
ART 212	Sculpture	
ART 213	Sculpture	
ART 221	Ceramic Art	
ART 222	Ceramic Art	
ART 223	Ceramic Art	
ART 281	Jewelry Design I	
ART 282	Jewelry Design II	
ART 283	Introduction to Alloy	ing and Jewelry Casting 5
ART 284	Bench Techniques a	nd Practices5
ART 285	Metal Techniques fo	r Small Scale Sculpture5
GROUP 2 ELE	ECTIVES CREDITS	MINIMUM 15
TOTAL PROGI	RAM CREDITS	85 MINIMUM + PORTFOLIO

HVAC

Workforce Instruction Division (206) 934-3730

HVAC Technician Certificate

The HVAC program, in partnership with HVAC Learning Systems and Lennox, provides systems training in heating, ventilation, air-conditioning and refrigeration. The only one of its kind in the country available at a two-year college, North's HVAC program tailors skills to employer needs and can help students get an internship or entry-level job with career potential. Two certificate options and a degree are offered.

PREREQUISITES

Placement into ENGL 097 or ENGL 098 or higher, or equivalent Test into MATH 084 or higher, or have taken equivalent or higher level class.

TECHNICAL SPECIALTY COURSES

EET	160	Introduction to Electricity and Electronics 5
HVC	101	Essentials of HVAC
HVC	210	HVAC Cooling Systems Installation5
HVC	211	HVAC Systems Installation II 5
HVC	212	HVAC System Installation & Nate PREP5
HVC	220	Green HVAC
HVC	226	HVAC Electronics and Control Systems 5
HVC	228	Energy Performance for the Field Technician 5

90

RELATED INSTRUCTION 140 Customer Relations 5 **BUS** 169 Using Computers in Business5 BUS BUS 236 Interpersonal Communications for the TOTAL PROGRAM CREDITS **HVAC/Sustainable Building Engineering Technician**

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

Students completing the HVAC/Sustainable Building Engineering Technician degree will be qualified to work in multiple industries in the roles of designing, operating and inspecting HVAC systems. Additionally, students will be able to smoothly transition into the Sustainable Building Technologies B.A.S. Program at South Seattle College.

PREREQUISITES:

Placement into English 097/098 or higher or equivalent. Test into Math 098 or higher, or have taken an equivalent or higher level class.

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

and adv	vanced	placement.	
BUS	169	Using Computers in Business	.5
TECHN	ICAL S	PECIALTY COURSES	
EET	160	Introduction to Electricity and Electronics	.5
ENGL&	235	Technical Writing	.5
ENVS	170	Energy and Resources - Now and Future	.5
HVC	101	Essentials of HVAC	.5
HVC	220	Green HVAC	.3
HVC	226	HVAC Electronics and Control Systems	.5
HVC	251	Load Estimation for HVAC Systems	.5
HVC	254	Sustainable Urbanism and Architecture	.5
HVC	258	Principles of Passive Building Design	.5
HVC	260	HVAC Airside Systems	.5
HVC	261	HVAC Hydronic Systems	.5
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
TECHNI	ICAL S	PECIALTY CREDITS	72

RELATE	D INS	TRUCTION	
BUS	236	Interpersonal Communications for the	
		Workplace	.5
EET	109	$\label{thm:matter} \mbox{Mathematical Applications for Circuit Analysis} \ \ .$.5
ENGL&	101	English Composition I	.5
ENVS&	100	Survey of Environmental Science	.5
Fol	llowing	can be substituted:	
U.S	S. Cult	ures or Global Studies course	.5
RELATE	D INST	RUCTION CREDITS	20
TOTAL F	PROGR	AM CREDITS	92

Tech & Project Management Associate of Applied Science - T Degree (A.A.S.-T)

Graduates with this degree in Heating, Ventilation, and Air Conditioning (HVAC) Project Management are prepared to work as project managers in residential and light commercial settings. This degree is designed to provide all the skills needed to successfully compete for HVAC project manager at entry level positions or transfer those skills to a four-year institution.

PREREQUISITES

English: placement into ENGL 097 or ENGL 098 or higher; or equivalent.

Math: test into MATH 097 or MATH 098 or higher; or have taken equivalent or higher level class

	-	_			
TECHNICAL SPECIALTY COURSES					
BUS	118	Project Management Introduction and Overview $. . 5$			
BUS	119	Leadership and Management Skills 3			
BUS	229	Project Management Tools Techniques and Control			
EET	160	Introduction to Electricity and Electronics 5			
ENGL&	230	Technical Writing			
HVC	101	Essentials of HVAC			
HVC	210	HVAC Cooling Systems Installation5			
HVC	211	HVAC Systems Installation II 5			
HVC	212	HVAC System Installation & Nate PREP \dots .5			
HVC	220	Green HVAC			
RELATED INSTRUCTION					
CMST&	210	Interpersonal Communication 5			
EET	109	Mathematical Applications for Circuit Analysis 5			
Following can be substituted:					
MA	ATH&1	07 Math in Society5			

ENVS 150 Environmental Issues and Problems I......5

(See advising for list of approved electives). . . 9

Following can be substituted:

PHYS& 114

TOTAL PROGRAM CREDITS

ELECTIVES Electives

136

Industrial Power and Control

Workforce Instruction Division (206) 934-3730

The Industrial Power & Control Program offers a one-year certificate in Sustainable and Conventional Energy and Control Technology and a two-year Associate of Applied Science degree in Industrial Power & Control Technology. This program prepares students for entry level employment in companies or government organizations that manufacture, service, sell, design or support electrical and electronic systems that control machinery, automation, and/or processes. Emphasis is placed on the control of large electrical currents and large electromechanical systems through solid state, digital, and microprocessor devices. The program involves in-depth study of industrial controls, fluid power, AC and DC rotating equipment, instrumentation and measurement, and system control principles. Sustainable and Conventional Energy and Control differs from Electronics in the scale and application of electrical, electronic and mechanical systems, and may be considered "Industrial Electronics."

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

For placement testing: contact Testing Center, 934-3674 To begin program, students must test into the English and Math courses listed below:

ENGL 097 English 097: Integrated Reading and Writing I. . 10
Following can be substituted: higher ENGL course
-OR-

have taken an equivalent or higher MATH course

TECHNICAL SPECIALTY COURSES

01	Energy Generation Conversion and Sustainability $.5$
02	Industrial Motor Controls
03	Industrial Motor Drives
05	Introduction to Technology $\dots\dots\dots2$
06	Introduction to Soldering $\dots\dots\dots1$
80	Introduction to Fiber Optics5
12	Fundamentals of Fluid Power $\&$ Alternative Energy $\hdots5$
14	Applied Physics
31	IT Essentials I - A+ Certification 5
32	IT Essentials A+ Certification Advanced 5
37	Introduction to Robotics
38	Robotic Applications5
61	D.C. Principles of Electronics 5
)2)3)5)6)8 12 14 31 32 37

EET 162 A.C. Principles of Electronics5
EET 163 Solid State Electronics5
EET 165 Analog Circuits and Devices
EET 170 Digital Electronics & Plcs I5
EET 219 Metrology and Measurement Science3
TECHNICAL SPECIALTY CREDITS 81
RELATED INSTRUCTION
BUS 112 Multi-Cultural Issues in the American Workplace5
Following can be substituted:
Global Studies or U.S. Cultures designated course 5
See Advising Center for approved list.
BUS 236 Interpersonal Communications for the
Workplace
Following can be substituted:
Choose one of the following Human Relations:
HUM 105, ISP 101 , ISP 110, POLS 112, SOC& 101
EET 109 Mathematical Applications for Circuit Analysis 5
Following can be substituted: higher MATH course
-OR-
MATH 141 Pre-Calculus
ENGL& 101 English Composition I
While students must test into ENGL 097
to start the degree, they must complete ENGL& 101 to finish.
IT 122 Network OS 1 - Windows Client OS 10
Following can be substituted: higher IT course
RELATED INSTRUCTION CREDITS 30
TOTAL PROGRAM CREDITS 111

Information Technology

Workforce Instruction Division (206) 934-3730

Cisco Certified Network Associate Short-Term Certificate

This Certificate of Completion for Cisco Certified Network Associate training is intended for students not already enrolled in an Information Technology, Network Administration or Telecommunications Technology certificate or degree program. It is intended to be completed in three academic quarters, but students may be able to complete it in fewer quarters depending on experience and preparation. Graduates of this Certificate of Completion program can expect to pass Cisco's CCENT Cisco Certified Entry Network Technician and CCNA Cisco Certified Network Associate exams. The instruction based on the online curriculum and books provided by Cisco Systems are comprehensive in describing how the Internet/Internets work based on intense practice configuring Cisco routers and switches through a command line interface called IOS (Internet Operating System) and a simulation program called Packet Tracer.

Cisco I (IT 142) concentrates on the theory of packet exchange based on the OSI (Open Systems Interconnect) Model and the reality of packet exchange based on the TCP/IP (Transmission Control Protocol/Internet Protocol) Protocol stack.

Cisco II (IT 144) concentrates on configuring routing using RIP (Routing Information Protocol), EIGRP (Enhanced Interior Gateway Routing Protocol) and OSPF (Open Shortest Path First) routing protocols.

Cisco III (IT 146) combines two Cisco classes; the first class covers switch configuration and Wireless access theory while the second class covers remote access to the Internet, security and network management as a whole.

While configuration labs concentrate on and utilize Cisco equipment, the preparation provided by the Certificate of Completion for Cisco Certified Network Associate training applies to all router and switch vendors equipment based on the fact that most protocols used by Cisco and all other vendors are the same and are based on open standards.

PREREQUISITES

There are no formal program prerequisites, but students are strongly advised to have skills comparable to EET 131 (IT Essentials I/A+ Certification) and EET 132 (IT Essentials II/Advanced A+ Certification). Cisco 1 must be completed before enrolling in Cisco 2. Cisco 2 must be completed before enrolling in Cisco 3.

TECHNICAL SPECIALTY COURSES

ΙT	142	Network Management - Cisco I	5
IT	144	Network Management - Cisco II	5
IT	146	Network Management - Cisco III	5
TOTA	L PROGE	RAM CREDITS	15

Controlled Electronic Systems Certificate

This certificate is intended for students who already have an Associates or Bachelor's degree, or substantial professional experience, in an information technology related field.

The certificate prepares students for employment as electronic systems application or facilities engineers, security and field technicians, systems and sales consultants, technical support staff. Typical duties include installation, maintenance, and monitoring information technology systems and IT-controlled electronic systems such as security systems, entertainment systems, and HVAC systems.

PREREQUISITES

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

TECHNICAL SPECIALTY COURSES

Total Required Technical Specialty Course Credits: 25-30 In addition to courses listed below, select from one of the tracks below.

dadka below.			
EET 131 IT Essentials I - A+ Certification 5			
EET 137 Introduction to Robotics 5			
EET 160 Introduction to Electricity and Electronics 5			
Following can be substituted:			
EET 161 D.C. Principles of Electronics 5			
TECHNICAL SPECIALTY CREDITS 15			
MICROSOFT TRACK			
IT 122 Network OS 1 - Windows Client OS 5			
IT 124 Network OS 2 - Windows Server			
MICROSOFT TRACK CREDITS 10			
UNIX TRACK			
IT 135 Introduction to UNIX			
IT 138 UNIX for Network Administration 5			
UNIX TRACK CREDITS 10			
CISCO TRACK			
IT 142 Network Management - Cisco I			
IT 144 Network Management - Cisco II 5			
IT 146 Network Management - Cisco III 5			
CISCO TRACK CREDITS 15			
RELATED INSTRUCTION			
BUS 118 Project Management Introduction and Overview .5			
BUS 236 Interpersonal Communications for			
the Workplace			
RELATED INSTRUCTION CREDITS 10			
TOTAL PROGRAM CREDITS 35-40			

Controlled Electronic Systems Associate of Applied Science Degree (A.A.S.)

The IT Controlled Electronic Systems Associate of Applied Science degree is a 2-year degree focused on developing skills needed to install, maintain, and monitor information technology systems and IT-controlled electronic systems such as security, entertainment, and HVAC systems. Course work in electronics and computer networking is emphasized along with building the interpersonal skills necessary to work with customers and coworkers.

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, 934-3674 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
MATH	084	Algebra I
MATH	097	Elementary Algebra5

TECHNICAL SPECIALTY COURSES

EET

EET

EET

EET

EET

FFT

FFT

ΙT

131 IT Essentials I - A+ Certification 5

132 IT Essentials A+ Certification Advanced 5

161 D.C. Principles of Electronics 5

162 A.C. Principles of Electronics 5

165 Analog Circuits and Devices......5

122 Network OS 1 - Windows Client OS 5

ΙΤ	124	Network OS 2 - Windows Server	5
IT	135	Introduction to UNIX	5
IT	138	UNIX for Network Administration	5
IT	142	Network Management - Cisco I	5
IT	144	Network Management - Cisco II	5
IT	146	Network Management - Cisco III	5
TECHN	ICAL S	PECIALTY CREDITS	70
RELATI	ED INS	TRUCTION - GENERAL EDUCATION	
BUS	236	Interpersonal Communications for the Workplace	5
EET	109	Mathematical Applications for Circuit Analysis	
ENGL&	101	English Composition I	5
RELATE	ED INS	TRUCTION - GENERAL EDUCATION CREDITS	5
RELATI	ED INS	TRUCTION - TECHNICAL ELECTIVES	
U.S. Cu			
Global	Studie	S	. 5
RFI ΔΤΕ	ED INS	TRUCTION - TECHNICAL ELECTIVES CREDITS	5
ILLAIL		RAM CREDITS	90

This Certificate of Completion in Linux/UNIX administration is intended for students not already enrolled in a Network Administration program. It is intended to be completed in three academic quarters, but students may be able to complete it in fewer quarters depending on experience and preparation. Courses are intended to be taken in the order given. Credit may be awarded for specific work experience or formal training at other institutions.

PREREQUISITES

There are no formal program prerequisites as such; students are expected to possess the necessary training and experience to enable them to successfully complete this certificate. Students are strongly advised to have skills comparable to EET 131 (IT Essentials I/A+ Certification) and EET 132 (IT Essentials II/Advanced A+ Certification).

TECHNICAL SPECIALTY COURSES

IT	135	Introduction to UNIX	5
IT	138	UNIX for Network Administration	5
IT	140	UNIX Shell Scripts with Perl	5
TOTAL PROGRAM CREDITS 15			

Network Administration Microsoft Windows Completion Short-Term Certificate

This Certificate of Completion in Microsoft Windows Network Administration is intended for students not already enrolled in an Information Technology, Network Administration or Telecommunications Technology certificate or degree program. It is intended to be completed in three academic guarters, but students may be able to complete it in fewer quarters depending on experience and preparation.

PREREOUISITES

There are no formal program prerequisites, but students are strongly advised to have skills comparable to EET 131 (IT Essentials I/A+ Certification) and EET 132 (IT Essentials II/ Advanced A+ Certification). Courses are intended to be taken in the order given. Students may take classes simultaneously with instructor's permission. Credit may be awarded for specific work experience or formal training at other institutions.

TECHNICAL SPECIALTY COURSES

TOTAL	PROGE	RAM CREDITS	15
IT	126	Network OS 3 - Windows Network Infrastructu	ure 5
IT	124	Network OS 2 - Windows Server	5
IT	122	Network OS 1 - Windows Client OS	5

Network and Server Administration Specialist Certificate

The Information Technology program offers both a certificate and an Associate of Applied Science-T degree in Information Technology (A.A.S.-T). Satisfactory completion of the Network Infrastructure & Security Support Specialist program qualifies a student for the A.A.S.-T. The program trains entry-level network and infrastructure support technicians and administrators in specific computer networking skills and general troubleshooting of hardware and software related problems. Please see a college advisor about taking any courses other than those that have been identified.

Graduates of the Network Infrastructure & Security Support program find jobs as network technician, assistant network administrator, PC technician, workstation support technician, technical support technician or computer systems technician.

PREREQUISITES

EET	131	IT Essentials I - A+ Certification 5
	Following	g can be substituted:
	CompTIA	A-+ Certification for EET 131 & EET 132

TECHNICAL SPECIALTY COURSES

Other courses may be substituted for courses below with permission of Program Coordinator. See advising for list of approved courses.

ΙT	102	Introduction to Programming	
ΙT	122	Network OS 1 - Windows Client OS5	
ΙT	126	Network OS 3 - Windows Network Infrastructure 5	
ΙT	128	Network OS 4 - Windows Active Directory 5	

IT	135	Introduction to UNIX	5	
	Follo	owing can be substituted:		
	IT	138 UNIX for Network Administration	5	
	-OR	-		
	IT	140 Network Management - UNIX	5	
IT	142	Network Management - Cisco I	5	
IT	144	Network Management - Cisco II	5	
IT	146	Network Management - Cisco III	5	
ТО	TAL PI	ROGRAM CREDITS	40	
Ne	Network and Server Administration Specialist			

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

This two year program concentrates on UNIX/Linux, Microsoft and Cisco operating system configuration, management and security. Information security concepts and best practices are woven into individual courses. Specific courses concentrating on information security topics are also offered. Many individual courses or combinations of courses are designed to also prepare students for passing Industry certifications sponsored by CompTIA, Microsoft and Cisco. The version of Microsoft Windows offered will depend upon the current commercial release. This is a full-time program, but students may elect to take it on a part-time basis. There is a related certificate program.

Graduates of the Network Infrastructure & Security Support program find jobs as network technician, assistant network administrator, PC technician, workstation support technician, technical support technician or computer systems technician.

PREREOUISITES

English placement into ENGL&101 Math placement into MATH 084 or MATH 097

TECHNICAL SPECIALTY COURSES

EET	131	IT Essentials I - A+ Certification
	Following	g can be substituted:
	CompTIA	A A-+ Certification for EET 131 & EET 132
	and two	5-credit technical courses
EET	132	IT Essentials A+ Certification Advanced5
	Following	g can be substituted:
	CompTIA	A A-+ Certification for EET 131 & EET 132
	and two	5-credit technical courses
	BUS 1	.69 Using Computers in Business5
IT	102	Introduction to Programming 5
	Following	g can be substituted:
	CSC 1	.10 Intro to Computer Programming 5
IT	122	Network OS 1 - Windows Client OS 5
IT	124	Network OS 2 - Windows Server
IT	125	Network OS 3 - Windows Network Infrastructure 5
IT	135	Introduction to UNIX
IT	138	UNIX for Network Administration5
IT	142	Network Management - Cisco I 5
IT	144	Network Management - Cisco II 5
IT	146	Network Management - Cisco III 5

IT	220	Desktop Management and Virtualization	5
TECH	NICAL S	SPECIALTY CREDITS	65
GENE	RAL ED	UCATION 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. 0	Cultures	8	5
F	-ollowin _i	g can be substituted: Global Studies course	
(Contact	the division office for a list of approved cour	ses.
GENE	RAL ED	UCATION CREDITS	20
ELEC.	TIVES		
Techn	ical Ele	ctives	5
		Contact the division office for a list of approved courses.	
ELEC	TIVES C	REDITS	5
TOTAL	_ PROGI	RAM CREDITS	90

Programming and IT Network Support Associate of Applied Science - T Degree (A.A.S.-T)

Take the first step to become an IT Professional, Graduates of the Programming and IT Network Support degree are dually prepared for both the workplace and to transfer into the Application Development Bachelor of Applied Science (B.A.S.) Degree program. Learn beginning programming, networking, and troubleshooting skills so you can get an entry-level IT job as you pursue your B.A.S. degree.

Note: Advanced placement testing, work experience, and

PREREQUISITES

transfer of credits may result in course waivers, credit transfer, and advanced placement. EET ENGL& 101 Placement into ENGL& 101 MATH 098 Intermediate Algebra......5 **TECHNICAL SPECIALTY COURSES** CSC 110 Introduction to Computer Programming.....5 CSC 111 Computers for Math and Science 5 Following can be substituted: BUS 169 Using Computers in Business I.........5 CSC ΙT 102 Introduction to Programming 5 Following can be substituted: CSC 143 Computer Programming II......5 -OR-146 Network Management Cisco III 5 Technical Elective course - can select one of the three courses listed above: IT 109 Itil Foundation Certification Preparation 1

Ш	111	internet and web Authoring Using XHTML
IT	122	Network OS 1 - Windows Client OS
IT	125	Using Structured Query Language and SQL Server
IT	124	Network OS 2 - Windows Server
IT	135	Introduction to UNIX
IT	138	UNIX for Network Administration
IT	142	Network Management - Cisco I
IT	144	Network Management - Cisco II
TECHN	NICAL S	SPECIALTY CREDITS 6.
RELAT	ED INS	STRUCTION
ENGL8	ß 101	English Composition I
HUM	105	Intercultural Communication
F	ollowing	g can be substituted:
S	OC 1	.01 Intro to Sociology
MATH	§ 141	Precalculus I
MATH	§ 146	Introduction to Statistics
U.S. C	ultures	
Fe	ollowinį	See Advising for assistance. Select course fron list of approved courses. View list at: http://seattlecolleges.edu/intranet/getdocumentasp:?siteID=289&doctype=pdf&docid=5235gcan be substituted: Global Studies course
		I - Lab Science
		See Advising for assistance. Select course from list of approved Natural World Lab Science courses. View list at: http://seattlecolleges.edu/intranet/getdocument.aspx?siteID=289&doctype=pdf&docid=5269
TOTAL	_ PROG	RAM CREDITS 9:

Internships

Internships / Cooperative Education (206) 934-3734

Internships provide students with opportunities to earn college credit while gaining practical work experience in their field of study. The Internship program consists of Cooperative Work Experience classes CWE 101, 102, 110 and for B.A.S. CWE 494 and 495. For more information regarding the CWE series please contact the Internship office within the Workforce Instruction Division.

Jewelry Design

Arts, Humanities and Social Sciences Division (206) 934-3709

A Certificate of Fine Arts is offered in Art, Jewelry Design and Drama, and an Associate of Fine Arts degree is offered in Art and Music. Students must complete at least 15 college transfer level credits (numbered 100 or above) with a GPA 2.0 or better at North Seattle College.

Candidates for the Certificate in Jewelry Design must complete 60 credits in the college transfer level courses (numbered 100 and above) with a grade point average (GPA) of 2.5 or better. The required Jewelry classes (25 credits) must be taken here at North Seattle College. At the completion of the required courses, the students must mount an exhibition of their work either on campus or at an approved venue. This should be a solid body of work expressing their mastery of materials. Final approval and recommendation to award the CJD rests

with the ART faculty. The Certificate in Jewelry Design certifies completion of approved work, and is suitable for students currently working in Art, but it is not a transfer certificate.

Students seeking a B.A. or B.F.A. should consult NSC Associate of Arts degree requirements and the graduation requirements of the University at which they intend to enroll.

All CJD art students must have an art advisor and must plan their program with that advisor. Some of the art courses are only offered once a year and students should consult their advisor and the annual schedule. Substitution may be made with the approval of the Art advisor and the Dean of Arts, Humanities & Social Sciences Division.

Most General Education requirements for this certificate are met by course content in various Art courses. Communication (5 credits) by ART 251, 252, 253; Human Relations (5 credits) can be fulfilled by CMST& 210 or CMST& 230. Students must take a 5 credit computation course from ACCT 110 or above.

This certificate is a 4 quarter program that can be completed during the regular school year and in the following summer quarter.

Certificate of Fine Arts, Jewelry Design

REQUIRED COURSES - JEWELRY DESIGN

ART

ART	281	Jewelry Design I		
ART	282	Jewelry Design II5		
ART	283	Introduction to Alloying and Jewelry Casting 5		
ART	284	Bench Techniques and Practices 5		
ART	285	$\label{thm:metal-scale} \mbox{Metal Techniques for Small Scale Sculpture} \ \ . \ . \ 5$		
REQUIRED COURSES - ART				
ART	101	Design5		
ART	111	Drawing		
ART	210	Digital & Graphic Art - Photoshop + Illustrator .5		

Following	g can be substituted:
ART 2	52 Art History
-OR-	
ART 2	53 Art History
Art histo	ry courses are taught at Seattle Central or
other co	lleges.
ART 290	the Art Business
GENERAL ED	UCATION COURSES
Total required	Communication course credits: 5
Met by ART 2	51 (or ART 252 or ART 253) above
Total required	Human Relations course credits: 5
Total required	Computation Course credits: 5
Select credits	s from notated courses below:
ACCT 110	Introduction to Accounting/Bookkeeping I
Following	g can be substituted:
ACCT co	urse higher than ACCT 110
This cou	rse will satisfy Computation Course Requirement
CMST& 210	Interpersonal Communication
	This course will satisfy the Human Relations
	Course Requirement.
CMST& 230	Small Group Communication
	This course will satisfy the Human Relations
	Course Requirement.
TOTAL PROGR	RAM CREDITS 60

Medical Assisting

Workforce Instruction Division (206) 934-3790

The Medical Assisting program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org), upon the recommendation of the Medical Assisting Review Board (MAERB). Graduates of this program are eligible to sit for the national CMA exam and are also eligible for the Washington State Medical Assistant Certified Credential.

The Medical Assisting program has cohorts that begin in the Fall and Spring. Classes offered are online, face-to-face and hybrid. Scheduled labs and lectures are during the week Monday – Thursday. We are a competency based program with hands on labs where the student works in a group setting or one on one with another student. Class size makes it possible to get one-on-one attention from the instructor as needed.

In addition to the various fees charged by the college, students will have additional expenses, such as lab fees, scrubs and accessories, physical examination costs, program costs such as background checks, a \$35 application fee and an immunization registry that is online.

To complete the program a 3.0 grade or higher is required in all Medical Assisting (AMA) courses and a 2.0 grade or higher is required in all other courses.

Certificate

PREREQUISITES

Prerequ	isite c	ourses must be taken within the last ten years	3.
AHE	103	Math for Health Careers	.3
ENGL&	101	English Composition I	.5
TECHNI	CAL S	PECIALTY COURSES	
AMA	100	Introduction to Healthcare and Critical Thinking	g 5
AMA	101	Intercultural Communication in Patient Care .	.3
AMA	102	Medical Law and Ethics	.2
AMA	117	Medical Terminology	.4
AMA	118	Disease and Pathology for Medical Assistants .	.5
AMA	119	Anatomy and Physiology for Medical Assistants	.5
AMA	120	Front Office Basics	.4
AMA	125	Introduction to Medical Insurance and Coding .	.5
AMA	140	Patient Care	.5
AMA	230	Medical Office Management	
AMA	231	Pharmacology	.3
AMA	232	Sterile Procedures	.4
AMA	233	Diagnostic Procedures	.4
AMA	234	Phlebotomy for the Medical Assistant	.3
AMA	235	Urinalysis, Microbiology, and Chemistry	.4
AMA	236	Credentials & Employment	.2
AMA	250	Medication Administration	.5
AMA	290	Externship & CMA Review	.9
NUTR&	101	Nutrition	.5
PSYC&	100	General Psychology	.5
TOTAL F	ROGR	AM CREDITS	85

Medical Assisting Associate of Applied Science Degree (A.A.S.)

The Associate of Applied Science Degree in Medical Assisting provides a more liberalized education than the certificate program and many employers view the A.A.S. degree as a sign of increased competency and readiness for career or salary advancement. The Medical Assisting program is a competency based curriculum that uses a combination of on line learning, hybrid and face to face classes. Currently, students may enter the program any quarter. Students must practice the competency skills hands-on procedures in the classroom with an instructor during designated times.

North Seattle College's Medical Assisting Program is accredited by the Commission on Accreditation of Allied Health Education Programs on recommendation of the Curriculum Review Board of the American Association of Medical Assistants' Endowment (CRB-AAMAE). CAAHER 1361 Park Street, Clearwater, FL 33756, (727) 210-2350. Graduates of this program are eligible to sit for the Certified Medical Assistant (CMA) exam following graduation and are also eligible for the Washington State Medical Assistant-Certified License upon completion of the entire Medical Assisting program including the externship. The CMA credential is obtained through a national exam given by the AAMA.

In addition to the various fees charged by the college, students will have additional expenses, such as lab fees, scrubs and accessories, physical examination costs, program costs such as background checks, a \$35.00 application fee and an immunization registry that is online.

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

To complete the program a 3.0 grade or higher is required in all Medical Assisting (AMA) courses and a 2.0 grade or higher is required in all other courses.

Prerequisite courses must be taken within the last ten years.

PREREQUISITES

TECHNICAL SPECIALTY COURSES AMA Introduction to Healthcare and Critical Thinking 5 AMA Intercultural Communication in Patient Care . . 3 **AMA** 102 AMA 117 **AMA** 118 Disease and Pathology for Medical Assistants . 5 119 Anatomy and Physiology for Medical Assistants . 5 AMA **AMA** 120 125 Introduction to Medical Insurance and Coding . . 5 **AMA** 140 **AMA** AMA 230 AMA 231 AMA 232 AMA 233 234 AMA Phlebotomy for the Medical Assistant 3 AMA 235 Urinalysis, Microbiology, and Chemistry. 4 AMA 236 AMA 250 Medication Administration......5 AMA 290 NUTR& 101 PSYC& 100 General Psychology......5 TECHNICAL SPECIALTY CREDITS RELATED INSTRUCTION Following can be substituted: Global Studies 5 http://seattlecolleges.edu/intranet/getdocument.aspx? siteID=289&doctype=pdf&docid=5235 College Level MATH course......5 This course meets the Quantitative

Skills Requirement.

20

105

RELATED INSTRUCTION CREDITS

TOTAL PROGRAM CREDITS

Medical Office Administration Certificate

An option of the Medical Assisting program, this program is intended to prepare the student for work in the administrative, clerical and management areas of an ambulatory care setting. It covers anatomy and physiology, terminology, pathology, safety, communication, professionalism and job search skills to enhance understanding in the clinic/ office. No hands-on patient care tasks or procedures are included. This is an open-entry/open-exit, self-paced, variable- length program. Students will have additional expenses other than the fees charged by the college. A separate list is available from the Medical Assisting program coordinator.

Medical Assisting program coordinator. **PREREQUISITES** Note: Courses must be taken within the last 10 years or the placement test is required. Contact Testing Center. General: A high school diploma or GED or 18 years of age. Certain TechPrep agreements can be accepted (see MA program advisor). Applicant should have oral English skills sufficient to communicate accurately with others in the medical field. Following can be substituted: -OR-AHE 100 Critical Thinking and Communications for **TECHNICAL SPECIALTY COURSES** AHM 124 AMA 100 AMA Intercultural Communication in Patient Care . . 3 101 AMA 102 AMA 103 Ethical Concepts1 AMA 104 AMA 106 Patient History-Documentation and Physical Exam1 AMA 112 AMA 114 AMA 115 HIV/AIDS.....1 AMA 120 AMA 121 AMA 122 Medical Records and Correspondence 1 AMA 123 AMA 125 Introduction to Medical Insurance and Coding ...5 AMA 170 Ap/Terminology/Pathology 1 - Introduction . . . 2 AMA 171 Ap/Terminology/Pathology 2 - Skin/Senses . . 1 AMA 172 Ap/Terminology/Pathology 3 - Digestive System . . 1 AMA Ap/Terminology/Pathology 4 - Male/ Urinary System.....1 AMA Ap/Terminology/Pathology 5 - Female 174

AMA	175	Ap/Terminology/Pathology 6 - Nervous System 1
AMA	176	Ap/Terminology/Pathology 7 - Endocrine System .1
AMA	177	Ap/Terminology/Pathology 8 - Musculoskeletal System
AMA	178	Ap/Terminology/Pathology 9 - Cardiovascular System
AMA	179	Ap/Terminology/Pathology 10 - Respiratory System
AMA	180	Ap/Terminology/Pathology 11 - Blood/ Lymph System
AMA	181	Ap/Terminology/Pathology 12 - Specialties 1
AMA	226	Medical Insurance Coding 1
AMA	227	Medical Insurance Billing
AMA	230	Medical Office Management3
AMA	246	Patient Prioritizing and Instruction1
RELAT	ED INS	TRUCTION
BUS	236	Interpersonal Communications for the Workplace
TOT4:		

TOTAL PROGRAM CREDITS 41 If an internship is desired, CWE 110 - Internship can be taken

through the college - see program director.

Nanotechnology

Math and Science Division (206) 934-3746

Nanotechnology applies scientific and engineering principles to make new materials and observe structures by controlling matter on the nanoscale—the scale of atoms —one billionth of a meter. Cross-disciplinary in nature, the Nanotechnology program prepares you to work in the micro- or nanotechnology industries, including cleanroom environments, in a variety of fields ranging from cosmetics to aeronautics, electronics to water filtration.

Nanotechnology Certificate

This year-long certificate is intended for people who already have work or academic experience in microelectronics, biotechnology, optics or similar technical fields. Through this program, students will become familiar with the field of nanoscience and proficient in nanotechnological protocols. Potential students who do not meet the prerequisites for this certificate, please see the A.A.S.-T degree in nanotechnology.

PREREQUISITES

Two quarters of college-level physics, all with a minimum GPA of 2.0

Either of the following chemistry sequences, all with a minimum GPA of 2.0

- CHEM& 121 and CHEM& 131
- CHEM& 161, CHEM& 162 and CHEM& 163

TECHN	TECHNICAL SPECIALITY COURSES			
BUS	210	Business and Economic Statistics 5		
CWE	101	Portfolio, Job Search and Interviewing 2		
CWE	110	Internship		
MSC	101	Introduction to Materials Science5		
NANO	101	Introduction to Nanotechnology 5		
NANO	220	Micro/Nanofabrication		
NANO	230	Nano/Micro Characterization Packaging & Testing		
NANO	250	Capstone/Practicum II		
TOTAL	TOTAL PROGRAM CREDITS 35			
Nanot	Nanotechnology			

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

This two-year program prepares graduates for entry level technician positions in the nano/micro-fabrication industry and related manufacturing industries. This is a cross-disciplinary program combining elements of material science, chemistry, biology, physics, engineering and electronics. The multidisciplinary design of this program will provide graduates with the skills to enter a wide range of materials-based industries.

PREREQUISITES

ENGLISH: must test into ENGL 099 or higher MATH: must test into MATH 098 or higher

TECHNICAL SPECIALTY COURSES

Following can be substituted: BIOL& 160 General Biology with Lab 5 BUS 210 Business and Economic Statistics 5 CHEM&121 Intro to Chemistry......5 CHEM&131 Intro to Organic Chemistry and Biochemistry . . 5 CSC 110 Introduction to Computer Programming.....5 Following can be substituted: CSC 111 Computers for Math and Science.....5 101 Portfolio, Job Search and Interviewing. 2 CWE

CWE 110	Internship3
EET 160	Introduction to Electricity and Electronics $\dots.5$
MSC 101	Introduction to Materials Science 5
NANO 101	Introduction to Nanotechnology 5
NANO 220	Micro/Nanofabrication 5
NANO 230	Nano/Micro Characterization Packaging
	& Testing
NANO 250	Capstone/Practicum II
PHYS& 114	General Physics I with Lab 5
PHYS& 115	General Physics II with Lab5
Following	can be substituted:
PHYS&1	16 General Physics III5

TECHN	ICAL E	ELECTIVES			
Select	one of	the following:			
BIOL	161	Human Genetics	.5		
CSC	142	Computer Programming I			
EET	137	Introduction to Robotics	.5		
ENVS	170	Energy and Resources - Now and Future	.5		
ENVS&	100	Survey of Environmental Science	.5		
PHYS&	115	General Physics II with Lab If NOT taken as required course	.5		
PHYS&	116	General Physics III with Lab	.5		
TDR	111	Basic CAD Drafting for Construction and Design	5		
TECHN	ICAL E	LECTIVES CREDITS	5		
RELATE	ED INS	TRUCTION			
ENGL&	101	English Composition I	.5		
		Precalculus I			
Fo	llowing	g can be substituted:			
MATH&142 Precalculus II					
-Ol	-OR-				
MATH&151 Calculus I					
U.S. Cultures					
Following can be substituted: Global Studies Elective 5					
Human Relations Electives (see section below) $\ldots \ldots .5$					
RELATE	D INS	TRUCTION CREDITS	20		
RELATE	ED INS	TRUCTION - HUMAN RELATIONS ELECTIVE			
Select	one of	the 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		
RELATE	RELATED INSTRUCTION - HUMAN RELATIONS CREDITS 5				
TOTAL I	TOTAL PROGRAM CREDITS 95				

Nursing

Nursing Division (206) 934-3790

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

North Seattle College's LPN-to-RN Ladder program provides an option for LPNs to complete coursework for a three-quarter RN program that will make them eligible to take the Registered Nurse (RN) state boards.

Successful completion of the program earns an Associate of Applied Science—T Degree of Nursing. Students must first successfully complete an LPN certificate program and the general education and related instruction requirements. Minimum of 35 credits from an accredited Practical Nursing program.

RELATED INSTRUCTION - PREREQUISITES A 2.8 grade or higher is required in all general education and related instruction prerequisite and corequisite requirements. BIOL 241 Human Anatomy and Physiology 1 5 Must be taken within 7 years of application date. BIOL& 242 Human Anatomy and Physiology 2 5 Must be taken within 7 years of application date. BIOL& 260 Microbiology......5 Must be taken within 7 years of application date. CHEM&121 Intro to Chemistry......5 ENGL& 101 PSYC& 200 Lifespan Psychology 5 **RELATED INSTRUCTION - COREOUISITES** Corequisites may be taken while in the Nursing Program however, all corequisites must be completed before eligibility for the A.A.S.-T Degree in Nursing and RN NCLEX needed for an RN license. Following can be substituted: Global Studies 5 **TECHNICAL SPECIALTY COURSES** NUR NUR 224 Health Promotion and Education in Nursing. . . . 2 NUR 225 NUR 226 Care Management and Leadership......2 NUR 227 Complex Medical Surgical Psychiatric Nursing 7 NUR 228 Complex Nurg Medical Surgical NUR NUR Advanced Medical Surgical Nursing Care. 3

Nursing Assistant Short-Term Certificate

The Nursing Assistant-Certified Program provides instruction in basic nursing care skills and nursing assistant scope of care including HIV/AIDS, 72 hours of supervised clinical training in a long-term care facility and CPR/First Aid for the Healthcare Provider. After successful completion of the Nursing Assistant-Certified Program, students are eligible to sit for the State of Washington NAC exam for certification as a Nursing Assistant.

238 Transition to Registered Nursing Practice 5

116

TECHNICAL SPECIALTY COURSES

TOTAL PROGRAM CREDITS

NUR

ΤΩΤΔΙ	PROGE	RAM CREDITS	14
NUR	107	Nursing Assistant - Theory & Concepts	8
NTR	105	Introduction to Food Science	5

Nursing, Practical Associate of Applied Science Degree (A.A.S.)

Candidates for the Practical Nursing certificate must meet specific course requirements established by the Washington State Board for Practical Nurse Examiners. The four-quarter program prepares graduates for practical nursing careers in acute care, long-term care and out-patient services.

The first quarter is devoted to classroom and laboratory studies emphasizing nursing skills, general medical knowledge and behavior. The remaining program includes extensive clinical experience in health care agencies.

New daytime classes begin in Fall and Spring Quarters. Contact the division office for entry requirements, information on approval procedures, the application process and the schedule for orientation/advising sessions.

Completion of Certificate Requirements: 44 credits

TECHNICAL SPECIALTY COURSES

NUR	100	Modified Fundamentals of Care	1
NUR	115	Introduction to Patient Care	2
NUR	116	Nursing Fundamentals	6
NUR	117	Nursing Fundamentals Lab	2
NUR	118	Clinical Nursing Skills I	2
NUR	119	Clinical Nursing Skills II	1
NUR	126	Role of the LPN	3
NUR	127	Medical/Surgical Nursing - Child/Adult I	6.5
NUR	128	Medical/Surgical Nursing - Child/Adult II.	6
NUR	130	Critical Thinking in Nursing Practice	2
NUR	131	Clinical Nursing Practice I	3.5
NUR	133	Family Nursing Theory	1.5
NUR	134	Family Nursing Clinical	1.5
NUR	139	Transition to LPN Practice	4
NUR	141	Clinical Nursing Practice II	2
NUR	154	Intravenous Therapy Skills	1
ELECT	IVES		
Natura	l World	l, the	5
U.S. Cı	ultures		5
Comm	unicati	on	5
Genera	al Educ	ation Elective	21
Compu	ıtation	Elective	5
Humar	n Relati	ions Elective	5
TOTAL	REQUI	RED ELECTIVE CREDITS	46
TOTAL	PROGF	RAM CREDITS	90

Nursing, Practical Certificate

Candidates for the Practical Nursing certificate must meet specific course requirements established by the Washington State Board for Practical Nurse Examiners. The four quarter program prepares graduates for practical nursing careers in acute care, long-term care and out-patient services through classroom, laboratory and clinical studies. Emphasis is placed on nursing skills, general medical knowledge and behavior in various health care agencies.

New daytime classes currently begin in Fall and Winter Quarters. Contact the division office for entry requirements, information on approval procedures, the application process and the schedule for the required information session.

PREREQUISITES: REQUIRED

NUR

Successful completion of an approved Nursing Assistant program. Math requirement: Compass test placement into MATH& 107 - Math in Society or higher within 2 years of application date or transcript showing successful completion of MATH 098 - Intermediate Algebra within 7 years of application date. Math requirement must be taken within 7 years of application date.

		Algebra within 7 years of application date. Math		
requirement must be taken within 7 years of application date. All prerequisites must be completed with a 2.8 grade.				
-	-	sites: 30 credits		
BIOL&	•			
BIULQ	241	Human Anatomy and Physiology 1 5 Prerequisite: BIOL& 160 - General Biology or CHEM& 121 - Intro into Chemistry Must be taken within 7 years of application date.		
DIOI 9	242	•		
BIOL&	242	Human Anatomy and Physiology 2 5 Must be taken within 7 years of application date.		
BIOL&	260	Microbiology5		
		Must be taken within 7 years of application date.		
CHEM8	121	Intro to Chemistry5		
ENGL&	101	English Composition I		
PSYC&	200	Lifespan Psychology		
		Prerequisite: PSYC& 100 - General Psychology		
PREREQUISITES: STRONGLY RECOMMENDED				
AHE	103	Math for Health Careers		
AHI	100	Introduction to Medical Vocabulary		
PREREQUISITES: A.A.ST DEGREE IN NURSING				
The following additional courses are required only for progression to the A.A.ST Degree in Nursing:				
US Cult	ures a	nd Global Studies		
MATH&	146	Introduction to Statistics		
NUTR&	101	Nutrition		
TECHNICAL SPECIALTY COURSES				
NUR	115	Introduction to Patient Care		
NUR	116	Nursing Fundamentals 6		
NUR	117	Nursing Fundamentals Lab		
NUR	118	Clinical Nursing Skills I		
NUR	119	Clinical Nursing Skills II1		
NUR	126	Role of the LPN		
NUR	127	Medical/Surgical Nursing - Child/Adult I 6.5		
NILLID	400	Marking I/O consists of Niconaire at Obital / Ashalf III		

128 Medical/Surgical Nursing - Child/Adult II. 6

146

NUR	130	Critical Thinking in Nursing Practice	2		
NUR	131	Clinical Nursing Practice I	3.5		
NUR	133	Family Nursing Theory	1.5		
NUR	134	Family Nursing Clinical	1.5		
NUR	139	Transition to LPN Practice			
NUR	141	Clinical Nursing Practice II			
NUR	154	Intravenous Therapy Skills			
TOTAL I	TOTAL PROGRAM CREDITS 44				

Parent Education

Workforce Instruction Division (206) 934-3783

North Seattle offers parent education programs each quarter with classes held on- and off-campus and online. Parents who enroll in the "Parent Education Child Study Laboratory" participate once a week with their child in a parent-operated cooperative preschool, pre-3, toddler, or infant education program. The student's child is enrolled from one to four days a week, depending on the child's age. Enrolled parents also attend parenting classes and learn decision-making and group management skills as officers or committee members in the cooperative. The program gives parents the opportunity to study child development and behavior; learn new ways to interact with children; share ideas and experiences with other adults; and share in their child's early development and group

Pharmacy Technician

Workforce Instruction Division (206) 934-3730

The Pharmacy Technician Certificate program is approved by the Washington State Board of Pharmacy to train students to work in various pharmacy settings. Students learn basic pharmacy skills (reading prescriptions, order entry, IV medication prep., etc.). The program is accredited by the American Society of Health-System Pharmacists (ASHP).

Note: Advanced placement testing, work experience, and transfer of credits may result in course waivers, credit transfer, and advanced placement. To complete the program a 2.0 grade or higher is required in all courses.

Pharmacy Technician Certificate

PREREQUISITES

- College transcript showing successful completion of ENGL 097/098 with final placement into ENGL& 101 or placement into ENGL& 101 within the 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.
- College classes must be taken with 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 in externship
 - HIV/AIDS education minimum of four hours per State Pharmacy Quality Assurance Commission requirements
 - Active Washington State Pharmacy Assistant License/Registration

TECHNICAL SPECIALTY COURSES

AMA	117	Medical Terminology*4
PHA	112	Pharmacy Law2
PHA	115	Orientation to Pharmacy Practice3
PHA	120	Pharmacy Calculations*3
PHA	130	Over the Counter Drugs
PHA	140	Sterile Products/Aseptic Technique I*3
PHA	141	Sterile Products/Aseptic Technique II*3
PHA	145	Pharmacy Ethics*
PHA	146	Communications in Pharmacy Practice*2
PHA	150	Pharmacology I
PHA	151	Pharmacology II2
PHA	160	Pharmacy Technology I*3
PHA	161	Pharmacy Technology II*3
PHA	170	Pharmacy Records Management*5
PHA	190	Pharmacy Technology Externship**13
PHA	191	Job Skills and National Exam Preparation $\ldots1$
TOTAL	PROGI	RAM CREDITS 53

Courses marked with one asterisk () contain significant program related topics in the areas of communication, computation, human relations, and leadership.

**PHA 190: The Pharmacy Technician externship is usually split over a two-quarter time frame. A minimum of 13 credits, approximate 432 externship hours, must be completed satisfactorily for certification.

Pharmacy Technician Associate of Applied Science Degree (A.A.S.)

The Pharmacy Technician Associate of Applied Science degree provides a more liberalized education than the certificate. Many employers view the degree as a sign of increased competence and readiness for career or salary advancement. The program is approved by the Washington State Board of Pharmacy to train students to work in various pharmacy settings. Students learn basic pharmacy skills (reading prescriptions, order entry, IV medication prep., etc.). The program is accredited by the American Society of Health-System Pharmacists (ASHP). *Note:* Advanced placement testing, work experience, and transfer of credits may result in course waivers, credit transfer, and advanced placement. To complete the program a 2.0 grade

Certificate

PREREQUISITES

- College transcript showing successful completion of ENGL 097/098 with final placement into ENGL& 101 or placement into ENGL& 101 within the 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.
- College classes must be taken with the last five years of application date.
- High School Diploma or GED.

or higher is required in all courses.

- Must be 18 years of age.
- Additional Information/Requirements:
 - National background check
 - Immunizations are required to be placed in externship
 - HIV/AIDS education minimum of four hours per State Pharmacy Quality Assurance Commission requirements
 - Active Washington State Pharmacy Assistant License/Registration

TECHNICAL SPECIALTY COURSES

AMA	127	Medical Terminology*
PHA	112	Pharmacy Law2
PHA	115	Orientation to Pharmacy Practice
PHA	120	Pharmacy Calculations*
PHA	130	Over the Counter Drugs2
PHA	140	Sterile Products/Aseptic Technique I*3
PHA	141	Sterile Products/Aseptic Technique II* 3
PHA	145	Pharmacy Ethics*1
PHA	146	Communications in Pharmacy Practice* 2
PHA	150	Pharmacology I3
PHA	151	Pharmacology II
PHA	160	Pharmacy Technology I*3

PHA	161	Pharmacy Technology II*	3
PHA	170	Pharmacy Records Management*	5
PHA	190	Pharmacy Technician Externship	.13
PHA	191	Job Skills and National Exam Preparation	1
TECHNICAL SPECIALTY CREDITS			

Courses marked with one asterisk () contain significant program related topics in the areas of communication, computation, human relations, and leadership.

**PHA 190: The Pharmacy Technician externship is usually split over a two-quarter time frame. A minimum of 13 credits, approximate 432 externship hours, must be completed satisfactorily for certification.

GENERAL EDUCATION COURSES

Human Relations from approved list	5
Communication Elective from approved list	5
Computation Elective from approved list	5
Natural World Elective from approved list	5
General Electives credits at 100 level and above	.16
U.S. Cultures or Global Studies Elective from approved list	5
GENERAL EDUCATION CREDITS	41
TOTAL PROGRAM CREDITS	94

Phlebotomist

Phlebotomist Short-Term Certificate

This is an I-BEST Phlebotomy program. I-BEST (Integrated Basic Education and Skills Training) partners basic skills instructors with professional-technical skills instructors in the classroom to provide students with basic education and workforce skills. The two-course sequence of AHE 118 and AHE 119 includes theory of blood collection, supervised blood collection practice, and a 120-hour clinical externship. This program prepares students to work as phlebotomists in a clinical workplace.

PREREQUISITES

- Instructor Permission Required
- CASAS (Comprehensive Adult Student Assessment Systems) Reading and Listening minimum scores of 215 or COMPASS English Placement Test minimum score of 40.
- Concurrent enrollment in ABE 049 or ESL 059 required, except with placement into ENGL& 101 or completion thereof.

TECHNICAL SPECIALTY COURSES

AHE	118	Introduction to Phlebotomy I	5
AHE	119	Introduction to Phlebotomy II	7
TOTAL	. PROGI	RAM CREDITS	12

Real Estate

Workforce Instruction Division (206) 934-3730

North Seattle's Real Estate program prepares students for work in Residential and Commercial Real Estate Sales, Property Management, Green Real Estate, Escrow, Finance, and Investment through a series of independent short certificates and an AAS degree program. The program provides the skills and educational clock hours necessary to satisfy Washington State Department of Licensing and industry and continuing education requirements. Students learn from industry experts in settings emphasizing experiential learning.

Commercial Real Estate Certificate

North Seattle's Real Estate program prepares students for work in Residential and Commercial Real Estate Sales, Appraising, Property Management, Green Real Estate, Escrow, Finance, and Investment through a series of independent short certificates and an AAS degree program. The program provides the skills and educational clock hours necessary to satisfy Washington State Department of Licensing and industry and continuing education requirements. Students learn from industry experts in settings emphasizing experiential learning.

TECHNICAL SPECIALTY COURSES

experience. If course fulfills the above course requirement, then it cannot also count as an

approved elective.

Electives required
Choose at least 3 credits from approved list.
See Advising Center.

TOTAL PROGRAM CREDITS

16-18

All of the above courses also apply toward the Real Estate Associate of Applied Science Degree and the Commercial Real Estate and Investment Certificate.

The Department of Licensing (DOL) of the State of Washington requires the successful completion of RES 100 and RES 140 before taking the real estate broker license exam. Also, DOL requires completion of RES 290 before the first license renewal.

For up to date information on Real Estate certificates, degrees and courses, visit www.northseattle.edu/real-estate.

RES 110 Introduction to Commercial Real Estate 3

Commercial Real Estate and Investment Certificate TECHNICAL SPECIALTY COURSES

F	ollowing	g can be substituted:
F	RES 290	
		RES 290 fulfills WA DOL requirement for first real estate license renewal.
RES	125	
RES	141	Applications of Real Estate Math
	170	Land Use Principles and Practice
RES		Real Estate Law
RES	217	Real Estate Development and Sustainability 3
RES	220	Real Estate Economics
RES	260	Real Estate Finance-Commercial
RES	295	Commercial Real Estate Investment Analysis .2
ELEC.	TIVES	
Choos	se 5 cre	dits from approved electives listed below.
CWE	101	Portfolio, Job Search and Interviewing 2
CWE	110	Internship3
RES	100	Real Estate Fundamentals5
		Students are required to take this elective
		if they have NOT already completed it or do
		NOT have a real estate license.
RES	101	Technology for Real Estate5
RES	110	Introduction to Commercial Real Estate 3
		If not taken as required course.
RES	120	Real Estate Principles of Maintenance
DE0	100	and Repair
RES	130	Green Real Estate3
RES	140	Real Estate Sales and Practice
RES	142	Inspecting the Condition of Real Estate 3
RES	150	Residential Sales and Leasing Documentation 1.5
RES	176	Using Tax-Deferred Exchanges to Your Advantage 1
RES	177	Real Estate Taxes
RES	178	Buyers Agency 1.5
RES	180	Basic Appraisal Principles
RES	190	Real Estate Escrow I
RES	200	Seminar in Current Real Estate Issues 5
RES	201	Principles of Real Estate Management 3

RES	202	Multi-Family Property Management 3			te information on Real Estate certificates, degrees
RES	203	Property Management-Commercial3	and co	ourses	s, visit www.northseattle.edu/real-estate.
RES	204	Community Association Management 3	D	F	_
RES	210	Residential Property Investments3	Real		
RES	225	Current Trends in Real Estate Market Analysis 1.5	Assoc	ciate (of Applied Science Degree (A.A.S.)
RES	230	Professional Business Practices of	TECH	NICAL	SPECIALTY COURSES
		Brokerage Mgt	RES	100	Real Estate Fundamentals
RES	235	Sales and Marketing3	RES	101	Technology for Real Estate5
RES	280	Commercial Real Estate: Markets and Income 3	RES	106	Real Estate Fraud
RES	290	Commercial Sales and Leasing	F	ollowir	ng can be substituted:
		If not taken as a required course. This course	R	RES	160 Ethics for Loan Originators
		fulfills WA DOL requirement for first real estate license renewal.	RES	110	Introduction to Commercial Real Estate 3
RES	298	Special Projects, Internships in Real Estate 6	RES	125	Applications of Real Estate Math
		·	F	ollowir	ng can be substituted:
TOTAL	. PROGI	RAM CREDITS 26			107 Math in Society
Gree	n Real	Estate Short-Term Certificate		OR-	•
		te program provides a strong background in	N	/IATH	116 Applications of Math to Management,
		stainable residential real estate. This certificate			Life and Social Science
_		dents to specialize in green and sustainable real	S	Studen	ts may challenge RES 125 by passing the
		working as brokers, builders, developers, home	R	RES 12	25 test and receive 2 credits.
inspe	ctors, a	rchitects, appraisers, and government staff.	RES	130	Green Real Estate
TECH	NICAL S	SPECIALTY COURSES	RES	140	Real Estate Sales and Practice
RES	130	Green Real Estate	F	ollowir	ng can be substituted:
RES	131	Green Building Materials	R	RES	290 Commercial Sales and Leasing
RES	132	Marketing, Education and Ethics in	RES	141	Land Use Principles and Practice
		Sustainable D3	RES	142	Inspecting the Condition of Real Estate 3
RES	133	Energy Efficient Design and Development 2	RES	150	Residential Sales and Leasing Documentation 1.5
RES	134	Smart Locations Integrated Communities	RES	165	Real Estate Loan Originator
		Sustainable 1.5	F	ollowir	ng can be substituted:
RES	135	Healthy Buildings and Indoor Air Quality 2	R	RES	166 Real Estate Loan Processing
RES	217	Real Estate Development and Sustainability3	-(OR-	
TOTAL	. PROGI	RAM CREDITS 16.5	R	RES	260 Real Estate Finance - Commercial2
			RES	170	Real Estate Law
Real	Estate	Certificate	RES	175	Introduction to Title
This c	ertificat	te program gives a strong basic background in	RES	177	Real Estate Taxes 1.5
real e	state. T	he completion of six real estate courses entitles	RES	180	Basic Appraisal Principles
		o a certificate in real estate issued by the Wash-	RES	190	Real Estate Escrow I
ington	Depar	tment of Licensing and by North Seattle College.	RES	201	Principles of Real Estate Management 3
TECH	NICAL S	SPECIALTY COURSES	F	ollowir	ng can be substituted:
RES	100	Real Estate Fundamentals5	R	RES	202 Multi-Family Property Management 3
RES	101	Technology for Real Estate5	-(OR-	
RES	164	Real Estate Finance Residential5	R	RES	203 Commercial Property Management 3
F	ollowing	g can be substituted:	-(OR-	
F	ES 2	260 Real Estate Finance - Commercial 2	R	RES	204 Community Association Management 3
RES	170	Real Estate Law	RES	210	Residential Property Investments3
TECHI	VICAL S	SPECIALTY CREDITS 18	RES	217	Real Estate Development and Sustainability 3
ELEC1			RES	220	Real Estate Economics
		ourse with RES prefix3	RES	235	Sales and Marketing
			TECHI	VICAL	SPECIALTY CREDITS 61
		REDITS 3			<u>-</u>
TOTAL	. Progr	RAM CREDITS 18-21			

RELATED INSTRUCTION

Global	Studie	es or U.S. Cultures elective: 5 credits	
Select	electiv	ve credits from approved list. See Advising Center.	
ACCT	215	Accounting for Small Business Owners 3	
BUS	140	Customer Relations	
BUS	236	Interpersonal Communications for	
		the Workplace	
RELAT	ED INS	TRUCTION CREDITS 13	
ELECT	IVES		
		ts from any non-required courses with RES prefix ollowing:	
CWE	101	Portfolio, Job Search and Interviewing 2	
CWE	110	Internship3	
ELECT	IVES C	REDITS 13	
TOTAL	PROGE	RAM CREDITS 91-96	
For up	to date	e information on Real Estate certificates, degrees	
and co	urses,	visit northseattle.edu/real-estate.	
Real I	Estate	– Appraiser Trainee Certificate	
REQUI	RED C	OURSES	
RES	100	Real Estate Fundamentals5	
RES	101	Technology for Real Estate5	
RES	106	Real Estate Fraud	
RES	125	Applications of Real Estate Math 2	
		Students may challenge RES 125 by	
550	400	passing the RES 125 test	
RES	180	Basic Appraisal Principles	
RES	183	Basic Appraisal Procedures	
RES	281	National USPAP Course	
		RAM CREDITS 20.5	
-		e information on Real Estate certificates, degrees	
and co	urses,	visit northseattle.edu/real-estate.	
		— Escrow Certificate	
		SPECIALTY COURSES	
RES	100	Real Estate Fundamentals5	
RES	106	Real Estate Fraud	
	-	g can be substituted:	
		.60 Ethics for Loan Originators	
RES	150	Residential Sales and Leasing Documentation 1.5	
RES	170	Real Estate Law	
RES	175		
RES	190	Real Estate Escrow I	
ELECT		ADEC Floatives are dita. 6	
		RES Electives credits: 6	
or CWI		ts from any course(s) with RES prefix, CWE 101	
		ry and Performing Arts5	
		RAM CREDITS 22.5	
For up to date information on Real Estate certificates, degrees			

and courses, visit northseattle.edu/real-estate.

Real Estate - Loan Originator Certificate

The Real Estate Loan Originator Certificate prepares the student to become a loan originator, mortgage broker, bank officer and loan underwriter; and/or to better understand real estate finance, title, escrow, real estate law, real estate fraud and real estate documentation.

TECHNICAL SPECIALTY COURSES

RES	100	Real Estate Fundamentals5
RES	106	Real Estate Fraud
RES	125	Applications of Real Estate Math 2 Students may challenge RES 125 by passing the RES 125 test. Processing fees apply.
RES	164	Real Estate Finance Residential5
RES	180	Basic Appraisal Principles
F	ollowing	g can be substituted:
R	ES 1	90 Real Estate Escrow 13
RES	235	Sales and Marketing3
TECHI	NICAL S	PECIALTY CREDITS 19

ELECTIVES

Choose credits from approved list. See Advising Center.

ELECTIVES CREDITS	6
TOTAL PROGRAM CREDITS	25

For up to date information on Real Estate certificates, degrees and courses, visit northseattle.edu/real-estate.

Real Estate — Loan Processor Certificate

North Seattle's Real Estate program prepares students for work in Residential and Commercial Real Estate Sales, Appraising, Property Management, Green Real Estate, Escrow, Finance, and Investment through a series of independent short certificates and an A.A.S. degree program. The program provides the skills and educational clock hours necessary to satisfy Washington State Department of Licensing and industry and continuing education requirements. Students learn from industry experts in settings emphasizing experiential learning.

TECHNICAL SPECIALTY COURSES

RES	100	Real Estate Fundamentals	5
RES	106	Real Estate Fraud	1
RES	160	Ethics for Loan Originators	1
RES	166	Real Estate Loan Processing	4
RES	175	Introduction to Title	3
RES	190	Real Estate Escrow I	3
RES	266	Real Estate Loan Underwriter	3
TECHNICAL SPECIALTY CREDITS 20			

ELECTIVES

Choose credits from the approved list. See Advising Center.

ELECTIVES CREDITS	3
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23

TOTAL PROGRAM CREDITS

Note: Most employers require Loan Processors 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.

25.5-27.5

Real Estate — Property Management	Certificate
TECHNICAL SPECIALTY COURSES	
RES 100 Real Estate Fundamentals.	5
RES 101 Technology for Real Estate.	
RES 120 Real Estate Principles of Ma and Repair	
RES 140 Real Estate Sales and Pract	ice3
RES 170 Real Estate Law	
RES 201 Principles of Real Estate Ma	nagement 3
Choose two of these 4 classes for tot	al of 6 credits.
RES 202 Residential Property Man- -OR-	agement3
RES 203 Commercial Property Mar -OR-	nagement3
RES 204 Community Association M	lanagement 3
RES 220 Real Estate Economics	
TOTAL PROGRAM CREDITS	26.5
Note: Most employers require Property Mana real estate sales associate in the State of be able to quickly learn and use industry-s	agers to be a licensed Washington and to pecific software.
For up to date information on Real Estate of and courses, visit northseattle.edu/real-estate.	_
Real Estate — Sales Certificate	
TECHNICAL SPECIALTY COURSES	
RES 100 Real Estate Fundamentals.	5
RES 106 Real Estate Fraud	
RES 125 Applications of Real Estate Students may challenge RES passing the RES 125 test.	
RES 140 Real Estate Sales and Pract	ice3
Following can be substituted:	
RES 290 Commercial Sales and Le	easing3
RES 142 Inspecting the Condition of I	Real Estate 3
Following can be substituted:	
RES 175 Introduction to Title	
-OR-	
RES 180 Basic Appraisal Principles -OR-	s
RES 190 Real Estate Escrow I	
RES 150 Residential Sales and Leasi Documentation	ng 1.5
RES 165 Real Estate Loan Originator	
Following can be substituted:	
RES 166 Real Estate Loan Process -OR-	sing 4
RES 260 Real Estate Finance - Con	nmercial2
RES 170 Real Estate Law	3
TOTAL PROGRAM CREDITS	20 5-22 5

State of Washington, Department of Licensing (DOL), requires successful completion of RES 100 before taking the State Real Estate Sales License Exam. Also, DOL requires completion of RES 140 or RES 290 before the first license renewal. For up to date information on Real Estate certificates, degrees and courses, visit northseattle.edu/real-estate.

Real Estate - Sales (Advanced) Certificate

TECHN	ICAL S	SPECIALTY COURSES
RES	100	Real Estate Fundamentals5
RES	101	Technology for Real Estate5
RES	106	Real Estate Fraud
RES	125	Applications of Real Estate Math 2 Students may challenge RES 125 by passing the RES 125 test.
RES	140	Real Estate Sales and Practice3
	Follov	ving can be substituted:
	RES 2	290 - Commercial Sales and Leasing $\dots 3$
RES	142	Inspecting the Condition of Real Estate 3
Fo	llowing	g can be substituted:
RE	ES 1	75 Introduction to Title
-0	R-	
RE	ES 1	80 Basic Appraisal Principles
-0	R-	
RE	ES 1	90 Real Estate Escrow I
RES	150	Residential Sales and Leasing Documentation 1.5
RES	165	Real Estate Loan Originator
Fo	llowing	g can be substituted:
RE	ES 1	.66 Real Estate Loan Processing 4
-0	R-	
RE		60 Real Estate Finance - Commercial2
RE	ES 1	.70 Real Estate Law

State of Washington, Department of Licensing, requires successful completion of RES 100 before taking the state real estate sales license exam. Also, DOL requires completion of RES 140 or RES 290 before the first license renewal.

TOTAL PROGRAM CREDITS

For up to date information on Real Estate certificates, degrees and courses, visit northseattle.edu/real-estate.

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Watch Technology Institute

Workforce Instruction Division (206) 934-0169

The Watch Technology Institute (WTI) teaches watch making, watch repair, theory and practical applications. Rolex Watch USA, Inc. partnered with North to create a state-of-the-art facility for North's long-established watchmaking program, the only one on the West Coast. Faculty members have industry experience and are industry certified trainers. After the successful completion of the program, students will qualify to take the Swiss American Watchmaking Training Alliance (SAWTA) exam for certification.

The SAWTA curriculum is supported by Rolex Watch USA, Inc. to encourage the training of watchmakers in the U.S. The Watch Technology program has limited seats available. Contact the WTI office for more information.

111 Introduction to Watch Technology 6

Certificate

TECHNICAL SPECIALTY COURSES

HIN	112	Watch Technology I: Tools, Equipment & Measurement
HIN	113	Watch Technology I: Practicum
HIN	121	Watch Technology II: Professional Knowledge .6
HIN	122	Watch Technology II: the Watchmakers Lathe6
HIN	123	Watch Technology II: Practicum10
HIN	131	Watch Technology III: Winding and Setting
		Mechan
HIN	132	Watch Technology III: Watch Gear Trains 6
HIN	133	Watch Technology III: Practicum
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
HIN	213	Watch Tech V: Practicum
HIN	221	Watch Technology VI: Precision Timing 2 6
HIN	222	Watch Technology VI: Automatic Watches 6
HIN	223	Watch Technology VI: Practicum
HIN	231	Watch Technology VII: Advanced Precision
		Timing6
HIN	232	Watch Technology VII: Chronographs6
HIN	233	Watch Technology VII: Practicum
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		

Associate of Applied Science Degree (A.A.S.) **TECHNICAL SPECIALTY COURSES** HIN 111 Introduction to Watch Technology 6 HIN Watch Technology I: Tools, Equipment HIN HIN 121 Watch Technology II: Professional Knowledge .6 HIN 122 Watch Technology II: the Watchmakers Lathe. .6 HIN 123 Watch Technology II: Practicum10 HIN Watch Technology III: Winding and Setting HIN Watch Technology III: Watch Gear Trains 6 HIN HIN 141 Watch Technology IV: Escapements 4 HIN Watch Technology IV: External Parts 4 HIN HIN 211 Watch Tech V: Introduction to Precision Timing. 6 212 HIN Watch Tech V: Introduction to Electronic HIN HIN Watch Technology VI: Precision Timing 2 6 HIN Watch Technology VI: Automatic Watches 6 HIN HIN Watch Technology VII: Advanced Precision HIN 232 Watch Technology VII: Chronographs.....6 HIN HIN 241 Watch Technology VIII: After-Sales Service. . . . 4 HIN Watch Technology VIII: Review of Courses 4 HIN 243 Watch Technology VIII: Practicum 8 TECHNICAL SPECIALTY CREDITS 164 **GENERAL EDUCATION COURSES** Total required General Education credits: 20 Interpersonal Communications for Following can be substituted: Other Approved Human Relations Course Following can be substituted: Global Studies courses Select from approved list. See Advising Center. **GENERAL EDUCATION CREDITS** 20

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TOTAL PROGRAM CREDITS