Welcome

For students who intend to transfer to a four-year college or university, starting at North Seattle Community 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. In addition, North helps people earn GEDs, learn English, enhance basic skills and/or pursue a new skill or personal interest.

The college also provides a rich student life. Concerts, plays, intercollegiate basketball, 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 Community 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 Community 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 Community
**Academic & Student SUPPORT SERVICES**

**FACTS at a Glance**

2010–2011 Annual Profiles

- Special Enrollments
  - Distance Education: 6,871
  - Running Start: 355
  - International Students: 979
  - Worker Retraining: 705

**Fall 2011 Profiles**

- Students **
  - Median age: 30.8
  - Ethnic diversity: 39%
  - Male/Female: 40%/60%
  - With bachelor or higher degrees: 30%
  - Employed: 65%
    - Full-time: 38%
    - Part-time: 30%
    - With dependents: 30%
    - Single parents: 7%
  - Full-time/Part-time attendance: 31%/69%

- Programs
  - Academic Transfer: 48%
  - Workforce Education: 31%
  - Basic Skills: 14%
  - Pre-college and Others: 7%

- Courses
  - State-funded: 91%
  - Contract-supported: 1%
  - Student-supported: 8%

* Source: State Board for Community and Technical Colleges Data Warehouse

**ADVISING**

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

Advising provides resources and educational planning for students seeking college transfer degrees, career training degrees and certificates, and students enrolled in Adult Basic Education (ABE), English as a Second Language (ESL), General Equivalency Diploma (GED) and Adult High School Completion programs.

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) 934-3685 • CareerServices@seattlecolleges.edu
northseattle.edu/career-services

Career Services provides students with full-time and part-time job listings, job search training, labor market information, and assistance clarifying career and occupational goals. 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) 934-3787
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 an internship. Once an internship is developed, 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 approximately six weeks before the start of each quarter in both printed and online formats. To receive a printed copy, call (206) 934-3600 to be put on the mailing list. View or download the online class schedule at the website above.

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 NSCC NetID account can access the North wireless network from many areas on campus.

COUNSELING
(206) 934-3676
counseling.northseattle.edu

Counseling offers North students individual appointments, classes and workshops, and online self-help to identify career interests, select programs of study, and investigate careers and majors. Counseling also helps students improve concentration, study skills, test taking, time management and other academic skills; locate referral resources; and manage stressful situations.

DISABILITY Services
(206) 934-3697 FAX (206) 934-3958
tty (206) 934-0079
disability-services.northseattle.edu

The role of Disability Services is to provide physical and program accommodations to persons with documented disabilities. This office obtains and files disability-related documents, certifies eligibility for services, helps determine academic adjustments, and consults for the provision of such accommodations. Academic adjustments are provided to ensure access to all community college courses, programs, counseling, activities and facilities. Disability Services provides or arranges a variety of auxiliary services such as sign language interpreters, assistive technology, exam modifications and academic assistance.

To avoid delays, auxiliary requests such as Brailling and books on tape require six weeks advance notice. Interpreting services for ongoing classes require four weeks notice and interpreting services for special requests or one-time services need at least one week notice.

This office also offers consultations to faculty and staff to help design accommodations that provide equal access.

For specific details and additional information on eligibility and policies, see page 47.

DISTANCE LEARNING/eLearning
(206) 934-3738

North’s eLearning Support Center provides logistical support and information to distance learners as well as on-campus students in web-enhanced classes. Academic divisions and workforce education programs offer many credit courses and curricula through several non-traditional delivery modes, including fully online and hybrid instruction, video streamed media and blended learning. These delivery modes bring new learning options and opportunities 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 24 for complete information on eLearning options.

INTERNATIONAL Programs
(206) 934-3672 international@seattlecolleges.edu
FAX (206) 934-3794
tty.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 and Media 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 Community 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. Media equipment available includes VCRs, televisions, DVD and CD players, sound systems, video cameras, computers with data projectors and document cameras. Housed in Media is a new service called Student Instructional Media Production Center (SIMPC) where students get support and help with incorporating multimedia (digital/analog) into their assignments and presentations. Listening/viewing carrels, individual study carrels and group study rooms are available throughout the library.

Opportunity Center for Employment & Education

(206) 934-6199  
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 Community 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 COMPASS 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. ESL placement tests and GED exams require appointments. For testing schedule and detailed information, visit the website or the Testing Center.

Prepare for the Test

www.beforeyoutest.org

Preparing for the COMPASS Test helps to ensure the most accurate test results and the best course placement. A free two-hour workshop is available at all three colleges, usually twice a week (see the Testing Center website). The website provides the information you need about the COMPASS and on-line resources for test preparation if you cannot attend a workshop. Current cost for the COMPASS Test is $19 (2012–2013).

Tutoring Services

There are three major tutoring centers at North Seattle Community College and many departments offer subject-specific tutoring arranged through the department secretary.

The Loft

(206) 934-0078  
northseattle.edu/tutoring/loft-writing-center

The Loft Writing Center is located in the Library and offers tutoring assistance on reading, writing, listening or speaking assignments for any class offered at North. The multimedia lab in The Loft offers computer software intended to strengthen skills in reading, writing, listening, vocabulary, spelling and pronunciation in English and other languages.

The Math/Science Learning Center (MLC)

(206) 934-3746 Room ED1845A  
northseattle.edu/tutoring/math-learning-center

The Math/Science Learning Center 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. In addition to peer tutors, the MLC provides computers and various references. Students are encouraged to use the MLC as an avenue to start a study group and to share ideas.

Accounting and Business Learning Center

(206) 934-3730  
northseattle.edu/tutoring/business-accounting-tutoring

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. Contact your BEIT faculty or the BEIT Division Office for information on tutoring locations and times.
VETERANS Services
(206) 934-3699
northseattle.edu/office-veterans-affairs
The Veterans’ Affairs office assists veterans, reservists, active duty personnel and eligible family members to receive VA educational benefits.
See page 33 for financial aid information.

WOMEN’S Center
(206) 934-3696
northseattle.edu/womens-center
The Women’s Center assists students, both women and men, who need information and referrals regarding housing, health care, child care, transitional housing, family planning and more. The center provides referrals for domestic violence, sexual assault, divorce, and personal and family counseling. It also sponsors programs on gender issues.

WORKFIRST Programs
(206) 934-3787
wfnsc@seattlecolleges.edu
northseattle.edu/workforce-education
The WorkFirst Program is designed for students receiving cash assistance from Temporary Assistance for Needy Families (TANF) who wish to upgrade their skills to prepare for better jobs. Participating students receive funding for tuition and books. Program components include:

Basic Education Program
This program offers the opportunity to earn a GED, prepare for career/technical programs and develop employable skills.

Job Skills Training
Job Skills Training offers short-term training programs. These programs enable students to build a college credit base as they acquire solid industry-focused skills. Programs include Certified Nursing Assistant, Medical Assistant, Broadband Cable Technician, Customer Service and more.

High-Wage/High-Demand Job Training Program
The High-Wage/High-Demand Program provides training for high-demand occupations in the Seattle/King County area that offer average starting wages of more than $15 an hour. Programs include Computerized Accounting, Medical Assistant, and more.

ART Gallery
(206) 934-4557
northseattle.edu/programs/art
The NSCC 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 IB 1430.
11am–3pm, Mon–Fri
5pm–8pm, Wed and Thurs evenings

BOOKSTORE
(206) 934-4678
northscc.bkstore.com/
The Bookstore is wellstocked with new and used textbooks, supplemental course materials, general interest books, school supplies, and sundry items. The Bookstore offers a year-round textbook buy-back service. Students save 25% when they buy used textbooks. The Bookstore offers a textbook rental service. For further information on this rental service please visit http://whywaitforbooks.com.

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 child care center is licensed by the Department of Early Learning of Washington state and participates in the City of Seattle’s Comprehensive Child Care Program. It serves children ages 18 months through five years old. Call for tours or fee information.
7:30am–4pm, 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 M-F 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 also offers special event catering services. See website for hours.
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 notices of possible threats, provides security services and maintains a campus crime log. 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.

STAGE ONE THEATER
(206) 934-3661
northseattle.edu/programs/theater/stage-one-theater
Stage One Theater presents a major theatrical production each quarter. These productions offer students the opportunity to work as performers, designers, stage managers, technicians and other positions, often learning alongside professional directors and guest performers.

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 the types of student clubs, contact the program coordinator or visit the Student Leadership and Multicultural Programs Department in the College Center building.

Student GOVERNMENT
(206) 934-3641
studentleadership.northseattle.edu
The Student Leadership Council, North’s official student government, identifies and represents the interests of the student body to the college administration. Members work collaboratively with campus staff to provide programs and services that enhance and support students’ academic success. Members receive a stipend and training and mentoring designed to strengthen their leadership skills and to provide a foundation for success.

Student INSURANCE
For information on student injury and sickness insurance, contact the Cashier’s Office at 206-934-3627 or visit northseattle.edu/cashiers-office/student-insurance

Student LEADERSHIP & MULTICULTURAL Programs
(206) 934-3643
northseattle.edu/student-programs
These programs provide opportunities for students to develop leadership skills, foster intellectual and personal growth, and network and grow friendships through participating in co-curricular and leisure activities in a welcoming, supportive environment that values, celebrates and reflects diversity.

The program designs student-centered opportunities that complement learning, build leadership skills, shape campus policies and procedures, promote student participation, instill personal confidence, and encourage goal setting and values clarification to develop responsible citizens for a multicultural and global society.
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 and incentives may be provided. 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. Contact the transportation coordinator in security at (206) 934-0060 for more information.

Parking
(206) 934-3636

On-campus parking is available to those students who buy a permit. Due to space limitations, students are advised to buy a parking permit when registering. State motor vehicle laws and city traffic codes are strictly enforced. The campus speed limit is 15 m.p.h.

WELLNESS CENTER / Student Recreation
(206) 934-3631
Information Line (206) 934-3649
northseattle.edu/wellness-center

The Wellness Center offers a variety of fitness activities such as yoga, Pilates, resistance training and cardiovascular training. 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.

ALUMNI Association
(206) 934-3604
northseattle.edu/edfund/alumni

The Alumni Association of North Seattle Community 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 northseattle.edu/edfund/alumni.

North Seattle Community 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 students through scholarships and emergency assistance and for faculty and staff through professional development grants. It also purchases classroom equipment and supports programs that benefit students. Students and North employees interested in scholarship and grant applications should contact the Education Fund office.
GENERAL EDUCATION
Definition and Rationale
See page 4.

GENERAL EDUCATION
Essential Learning Outcomes
North Seattle Community College 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.
North Seattle Community 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 5-9.

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
- Anthropology
- Art
- Astronomy
- Biology
- Business
- Chemistry
- Communication
- Computer Science
- Earth Science
- Economics
- English
- Environmental Science
- General/Biological Science
- Geography
- Geology
- Health
- History
- Humanities
- Journalism
- Mathematics
- Music
- Nutrition
- Philosophy
- Physics
- Political Science
- Psychology
- Sociology
- Theater
- World Languages

ASSOCIATE OF ARTS DEGREE (A.A.)

Direct Transfer Agreement

The Associate of Arts (A.A.) Degree is a 90-credit transfer degree that fulfills the general education requirements for most four-year degrees in arts and sciences. To earn the A.A. degree, students must achieve a cumulative grade point average (GPA) of 2.0 or better in courses numbered 100 and above, complete at least 15 credits at the Seattle Community 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 5-9 for college transfer course requirements for A.A. or A.S. degree.

ASSOCIATE OF SCIENCE TRANSFER (A.S.) Degree

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

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

Direct Transfer Agreement

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

NOTE: New students must complete the degree requirements outlined here. Returning students may choose to fulfill requirements in effect through Summer Quarter 2008. Students who choose this option will have through Summer Quarter 2013 to complete their degree.

Associate in Business Requirements

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

NOTE: While many Washington state universities accept transfer of this degree, each has individual requirements and/or acceptable course substitutions needed for 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.

GENERAL EDUCATION REQUIREMENTS

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

Quantitative/Symbolic Reasoning Skills/Intermediate Algebra Proficiency
MATH 116 Applications of Math to Management, Life & Social Sciences ........................................... 5

Visual, literary, and Performing Arts
Choose from a minimum of two different prefixes* .................. 15

* One U.S. Cultures class. See advisor for other electives.

Individuals, Cultures, and Societies
ECON& 201 Micro Economics .................................. 5
ECON& 202 Macro Economics .................................. 5
Non-ECON& prefix course ......................................... 5

The Natural World
MATH& 148 Elements of Calculus ............................... 5
Physical, biological, and/or earth sciences ....................... 10
(at least one 5-credit laboratory course must be included)

BUSINESS REQUIREMENTS

ACCT& 201 Principles of Accounting I ...................... 5
ACCT& 202 Principles of Accounting II ...................... 5
ACCT& 203 Principles of Accounting III ...................... 5
BUS 200 Law & Society ....................................... 5
-OR-
POLS& 200 Intro to Law ..................................... 5
-OR-
BUS& 201 Business Law ..................................... 5
BUS 210 Business & Economic Statistics ..................... 5
-OR-
MATH 109 Elementary Statistics ............................ 5
General Electives* ............................................ 5
TOTAL CREDITS ........................................... 90

Degrees & Certificates in FINE ARTS

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. Students must complete at least 15 college transfer level credits (numbered 100 or above) with a GPA 2.0 or better at North.

Certificate of Fine Arts in Art

Candidates for the Certificate of Fine Arts (C.F.A.) in the field of Art must complete a minimum of 85 credits in college transfer-level courses with a GPA of 2.0 or better. At least 15 of these credits must be taken at North. The C.F.A. certifies completion of approved work and is suitable for art professionals, but it is not a transfer or workforce certificate. Please see the Associate of Fine Arts degree for transfer information.

Art students are required to be advised by a full-time art faculty member. Some art courses are offered only once a year, so consultation is critical. Any course substitutions require approval. Faculty recommend two studio courses per quarter as maximum. Although it may be possible to complete the C.F.A. in two years, more time is encouraged to better assimilate skills and allow for more flexible scheduling. Students must submit a portfolio of at least eight pieces during their final quarter for final approval by faculty, in order to be granted the C.F.A.

Most General Education requirements are met by art course content – communication by ART 251, 252, or 253 (offered at Seattle Central) and human relations by ART 290. However, students must take a 5-credit computation course.
REQUIRED ART COURSES

<table>
<thead>
<tr>
<th>ART</th>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>101</td>
<td>Design</td>
<td>5</td>
</tr>
<tr>
<td>102</td>
<td>3-D Design (Spring Quarter only)</td>
<td>5</td>
</tr>
<tr>
<td>111</td>
<td>Drawing</td>
<td>5</td>
</tr>
<tr>
<td>112</td>
<td>Figure Drawing</td>
<td>5</td>
</tr>
<tr>
<td>113</td>
<td>Figure Drawing</td>
<td>5</td>
</tr>
<tr>
<td>210</td>
<td>Sculpture</td>
<td>5 ea.</td>
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<tr>
<td>211</td>
<td>Visualizing Science &amp; Technology</td>
<td>5</td>
</tr>
<tr>
<td>212</td>
<td>Digital Photography</td>
<td>5 ea.</td>
</tr>
<tr>
<td>213</td>
<td>Printmaking</td>
<td>5 ea.</td>
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<tr>
<td>214</td>
<td>Computer Art</td>
<td>5 ea.</td>
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<tr>
<td>221</td>
<td>Ceramics</td>
<td>5 ea.</td>
</tr>
<tr>
<td>222</td>
<td>Jewelry Design</td>
<td>5 ea.</td>
</tr>
<tr>
<td>223</td>
<td>Bench Techniques &amp; Practices in Metal</td>
<td>5 ea.</td>
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<tr>
<td>224</td>
<td>Metal Techniques for Small-Scale Sculpture</td>
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<tr>
<td>285</td>
<td>Metal Techniques for Small-Scale Sculpture</td>
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**Group 2: 3-dimensional art**

<table>
<thead>
<tr>
<th>ART</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>211</td>
<td>Sculpture</td>
<td>5 ea.</td>
</tr>
<tr>
<td>221</td>
<td>Ceramics</td>
<td>5 ea.</td>
</tr>
<tr>
<td>222</td>
<td>Ceramics</td>
<td>5 ea.</td>
</tr>
<tr>
<td>281</td>
<td>Jewelry Design</td>
<td>5 ea.</td>
</tr>
<tr>
<td>282</td>
<td>Jewelry Design</td>
<td>5 ea.</td>
</tr>
<tr>
<td>283</td>
<td>Jewelry Design</td>
<td>5 ea.</td>
</tr>
<tr>
<td>285</td>
<td>Metal Techniques for Small-Scale Sculpture</td>
<td>5</td>
</tr>
</tbody>
</table>

**Approved ART Electives**

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

*Group 1: 2-dimensional art*

<table>
<thead>
<tr>
<th>ART</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>110</td>
<td>Visualizing Science &amp; Technology</td>
<td>5</td>
</tr>
<tr>
<td>114</td>
<td>Digital Photography</td>
<td>5 ea.</td>
</tr>
<tr>
<td>121</td>
<td>122, 123 Printmaking</td>
<td>5 ea.</td>
</tr>
<tr>
<td>201</td>
<td>203 Painting</td>
<td>5 ea.</td>
</tr>
<tr>
<td>205</td>
<td>206, 207 Watercolor</td>
<td>5 ea.</td>
</tr>
<tr>
<td>210</td>
<td>214 Computer Art</td>
<td>5 ea.</td>
</tr>
</tbody>
</table>

**Group 2: 3-dimensional art**

<table>
<thead>
<tr>
<th>ART</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>211</td>
<td>Sculpture</td>
<td>5 ea.</td>
</tr>
<tr>
<td>221</td>
<td>Ceramics</td>
<td>5 ea.</td>
</tr>
<tr>
<td>222</td>
<td>Ceramics</td>
<td>5 ea.</td>
</tr>
<tr>
<td>281</td>
<td>Jewelry Design</td>
<td>5 ea.</td>
</tr>
<tr>
<td>282</td>
<td>Jewelry Design</td>
<td>5 ea.</td>
</tr>
<tr>
<td>283</td>
<td>Jewelry Design</td>
<td>5 ea.</td>
</tr>
<tr>
<td>285</td>
<td>Metal Techniques for Small-Scale Sculpture</td>
<td>5</td>
</tr>
</tbody>
</table>

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

Candidates for the Associate of Fine Arts in Art must complete a minimum of 100 college transfer-level course credits with a GPA of 2.0 or higher. At least 15 credits must be earned at North.

The A.F.A. degree does not currently transfer with the same transfer rights to area colleges as the A.A. degree. However, it is accepted by The Evergreen State College and some other colleges. Students seeking a Bachelor of Arts degree should consult North’s A.A. degree requirements, their art advisor, and the university to which they intend to transfer about equivalency requirements.

All A.F.A. students in art must have an art advisor to plan their program. All studio art courses must be taken in sequence. Not all courses are offered each quarter. Substitutions require approval.

Along with the art course requirements, the A.F.A. in Art has General Education requirements. During the final quarter students must submit a portfolio of at least eight pieces for evaluation.

**Certificate in Jewelry Design (C.J.D.)**

Candidates for the Certificate in Jewelry Design must complete 60 credits in college transfer-level courses with a 2.5 or better. The required jewelry design classes (25 credits) must be taken at North. Upon completion of the required courses, a student must exhibit at an approved venue a solid body of work expressing their mastery of materials. Final approval and recommendation to award the C.J.D. 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 or workforce certificate. Students seeking a Bachelor of Arts degree should consult North Associate of Arts degree requirements and the graduation requirements of the university to which they intend to transfer.

**Approved ART Electives**

- Approved Art Electives must be taken in sequence; however, completion of a sequence is not required.
All C.J.D. art students must plan their program with an art advisor. Some of the art courses are offered only once a year, so consultation is critical. This certificate is a four-quarter program that can be completed in the following summer quarter. Substitution may be made only with the approval of the art advisor and the Dean of Arts, Humanities & Social Sciences.

Most General Education requirements for this certificate are met by course content in various art courses:

Communications by ART 251, 252, 253; Human Relations by CMST 210& or CMN 125 or CMST& 230 or 165; however, students must take a 5-credit computation course (ACCT 110 or above).

**REQUIRED JEWELRY DESIGN COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 281</td>
<td>Jewelry Design I</td>
<td>5</td>
</tr>
<tr>
<td>ART 282</td>
<td>Jewelry Design II</td>
<td>5</td>
</tr>
<tr>
<td>ART 283</td>
<td>Intro to Aloying &amp; Casting</td>
<td>5</td>
</tr>
<tr>
<td>ART 284</td>
<td>Bench Techniques &amp; Practices in Metal</td>
<td>5</td>
</tr>
<tr>
<td>ART 285</td>
<td>Metal Techniques for Small Scale Sculpture</td>
<td>5</td>
</tr>
</tbody>
</table>

**REQUIRED ART COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 251, 252, OR 253</td>
<td>Art History (offered through Seattle Central)</td>
<td>5</td>
</tr>
<tr>
<td>ART 101</td>
<td>Design</td>
<td>5</td>
</tr>
<tr>
<td>ART 111</td>
<td>Drawing</td>
<td>5</td>
</tr>
<tr>
<td>ART 210</td>
<td>Computer Art</td>
<td>5</td>
</tr>
<tr>
<td>ART 290</td>
<td>The Art Business</td>
<td>5</td>
</tr>
</tbody>
</table>

**GENERAL EDUCATION REQUIREMENTS**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Communication</td>
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</tr>
<tr>
<td>Human Relations</td>
<td>5</td>
</tr>
<tr>
<td>Computation</td>
<td>5</td>
</tr>
</tbody>
</table>

**Certificate in Fine Arts (C.F.A.) in Acting**

Candidates for the Certificate in Fine Arts in Acting must have successfully completed 90 credits in college transfer-level courses with a GPA of 2.0 or better. At least 30 credits must be earned at North and the final quarter of enrollment must be at North.

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 North 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 DRAMA COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRMA 121</td>
<td>Beginning Acting</td>
<td>5</td>
</tr>
<tr>
<td>DRMA 101</td>
<td>Intro to Theatre</td>
<td>5</td>
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<tr>
<td>DRMA 122, 123</td>
<td>Intermediate Acting (5 ea.)</td>
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<tr>
<td>DRMA 221, 222, 223</td>
<td>Advanced Acting (5 ea.)</td>
<td>15</td>
</tr>
<tr>
<td>DRMA 298</td>
<td>Portfolio or Public Performance</td>
<td>5</td>
</tr>
</tbody>
</table>

**Drama-Related Electives**

Select 20 credits from the Drama-related list below.

**Technical Theater Electives**

Select 15 credits from Technical Theater list below.

**General Education Requirements**

All General Education credits should be completed by 4th quarter.

Communication

Select from CMST 101, 220, 230 (5 ea.)

Computation

Select from MATH 107, BUS 116 or ACCT 110 (5 ea.) or MATH 110 (3 credits)

Human Relations

Select from PSYC 245, SOC 102 or PSYC & 100 (5 ea.)

**Total Credits**

88-90

**Drama-Related Electives**

Choose 20 credits from

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART&amp; 100</td>
<td></td>
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</tr>
<tr>
<td>ART 251, 252, OR 253</td>
<td>(offered only at Seattle Central)</td>
<td>5 ea.</td>
</tr>
<tr>
<td>DRMA 116</td>
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<td>4</td>
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<tr>
<td>DRMA 108, 109, 110, 200, 201, 202, 271, 272, 273, 291, 292, 293, 298</td>
<td>variable 2-5</td>
<td></td>
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<tr>
<td>ENGL &amp; 112, 224, 225, 226, 227, 228, 244, 245, 246</td>
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<td></td>
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<tr>
<td>ENGL 258</td>
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<td>5</td>
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<tr>
<td>HUM 104, 110, 200</td>
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<td>5 ea.</td>
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<tr>
<td>MUSC 100</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>MUSC 121, 122, 123, 126, 127, 128</td>
<td></td>
<td>2 ea.</td>
</tr>
<tr>
<td>MUSC 140</td>
<td></td>
<td>variable 1-5</td>
</tr>
</tbody>
</table>

**Technical Theater Electives**

To be taken for 2-5 credits each, in at least 3 different quarters. Students should confirm their credit needs before enrolling.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRMA 211, 224, 231, 241, 251, 261</td>
<td></td>
<td>variable 2-5</td>
</tr>
</tbody>
</table>
Special Opportunities for
UPPER DIVISION COURSES

EASTERN WASHINGTON UNIVERSITY AT
NORTH SEATTLE COMMUNITY COLLEGE
(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’s 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 SEATTLE COMMUNITY COLLEGE
(206) 934-6052
www.wce.wwu.edu/Depts/TEOP/Seattle/Index

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

3 | CONTINUING 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 au pairs and teachers.

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.

4 | BRIDGE to COLLEGE/ PRE-COLLEGE

Basic & Transitional Studies Division
(206) 934-3709

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

BRIDGE TO COLLEGE PROGRAMS:
- Developmental Education
- Transitional English as a Second Language
- Concurrent High School / College Programs
- High School to College Preparation Programs

PRE-COLLEGE PROGRAMS:
- Adult Basic Education
- English as a Second Language – Beginning & Intermediate
- GED Preparation
- High School Completion

Bridging to College Programs:

DEVELOPMENTAL EDUCATION
English, Mathematics and Human Development Courses
(206) 934-7303
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 Community 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).

TRANSITIONAL ESL
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 27.

CONCURRENT High School/College Programs

Running Start
(206) 934-3682
runstart.northseattle.edu

Running Start is a program for high school juniors and seniors who qualify for college-level courses through placement testing. This program provides free or reduced-cost tuition for college-level courses that may count toward both high school requirements and college credit. Many students have completed their high school diploma requirements and a two-year college degree simultaneously through this program. Running Start students will pay some fees. Students who qualify for free or reduced cost lunch may have these fees waived.

See page 21 for more information.

Upward Bound
(206) 934-7762
nsccupwardbound@seattlecolleges.edu
webshares.northseattle.edu/upwardbound

Upward Bound, a program funded by the Department of Education, provides high school students with services that support better academic performance during high school and prepares them for college admissions and postsecondary completion. The program serves potential first generation college students and students from low-income households from Franklin and Roosevelt High Schools.

Upward Bound offers support to its program participants throughout the year, including after-school sessions, tutoring, academic advising, college preparation, field trips and cultural events. In the summer, students gather on the North campus for six weeks of academic classes and activities to simulate the experience of college.

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)**

English as a Second Language (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, and grammar are taught with special emphasis on the English skills needed for survival and employment. These non-credit courses cost $25 per quarter tuition (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 five-part GED test (reading, writing, social studies, science, and math). 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, and test-taking. These classes stress math for practical problem solving, English usage, and reading comprehension and test-taking skills. 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 22 for additional information.*

**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 22 for details about the diploma options and possible tuition waiver for high school completion.*

**DISTANCE EDUCATION/ eLearning**

(206) 934-3738
www.virtualcollege.org

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 24 for complete information on all eLearning options.*
North Seattle Community College serves over 600 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 take either the ESL Placement Test or the COMPASS (college level) Test before starting school. Students who take the TOEFL test must have scores sent directly to North. 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
Students interested in Study Abroad should contact the International Programs Office to learn about programs and scholarship opportunities.

Also see page 28 for information on district-wide Travel/Study Abroad courses.
North Seattle Community College offers degrees and certificates in more than 40 workforce education areas. The programs vary in length from one to seven quarters 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 over time to progress in their fields. Contact the program office for information on short-term certificates. North Seattle Community College, including these programs, is accredited by the Northwest Commission of Colleges and Universities.

ACCOUNTING
Business, Engineering & Information Technologies Division
(206) 934-3730

The Accounting program provides in-depth study in the field of accounting and advanced accounting studies for those preparing to take professional examinations. It leads to an accounting certificate or associate’s degree and prepares graduates for employment in the industry.

It is recommended that three-quarter accounting sequences (e.g., 201, 202, 203) be completed at the same campus.

The Accounting program also offers short-term certificates in Accounting Office Assistant I & II, Not-for-Profit Management, Accounting Fraud, Accounting Achievement and Accounting/Bookkeeping I-Best.

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

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

TECHNICAL SPECIALTY COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 110</td>
<td>Intro to Accounting/Bookkeeping I</td>
<td>5</td>
</tr>
<tr>
<td>ACCT 131</td>
<td>QuickBooks</td>
<td>5</td>
</tr>
<tr>
<td>ACCT&amp; 201</td>
<td>Principles of Accounting I</td>
<td>5</td>
</tr>
<tr>
<td>ACCT&amp; 202</td>
<td>Principles of Accounting II</td>
<td>5</td>
</tr>
<tr>
<td>ACCT&amp; 203</td>
<td>Principles of Accounting III</td>
<td>5</td>
</tr>
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<td>ACCT 255</td>
<td>Individual Income Tax I</td>
<td>5</td>
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<tr>
<td>ACCT 257</td>
<td>Business Tax Accounting</td>
<td>5</td>
</tr>
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<td>ACCT 260</td>
<td>Peachtree Accounting</td>
<td>5</td>
</tr>
<tr>
<td>ACCT 261</td>
<td>Accounting Information Systems</td>
<td>5</td>
</tr>
<tr>
<td>ACCT 267</td>
<td>Not-For-Profit Financial Management</td>
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</tr>
<tr>
<td>ACCT 271</td>
<td>Ethics in Accounting</td>
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RELATED INSTRUCTION

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BUS 124</td>
<td>Excel for Business</td>
<td>5</td>
</tr>
<tr>
<td>BUS 131</td>
<td>Integrated Communications I</td>
<td>5</td>
</tr>
<tr>
<td>BUS 169</td>
<td>Using Computers in Business*</td>
<td>5</td>
</tr>
<tr>
<td>BUS 200</td>
<td>Law &amp; Society**</td>
<td>5</td>
</tr>
<tr>
<td>BUS 210</td>
<td>Business &amp; Economic Statistics</td>
<td>5</td>
</tr>
<tr>
<td>BUS 236</td>
<td>Interpersonal Communications in the Workplace</td>
<td>5</td>
</tr>
<tr>
<td>CWE 110</td>
<td>Internship</td>
<td>3</td>
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GENERAL EDUCATION COURSES

<table>
<thead>
<tr>
<th>Electives</th>
<th>Credits</th>
</tr>
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<tr>
<td></td>
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</tr>
</tbody>
</table>

* Must be selected from approved list of General Education courses; 5 credits in Multicultural, U.S. Cultures or Global Studies and 5 from remaining areas

** BUS& 201 may be substituted for BUS 200

Bookkeeping Certificate in Accounting

This program prepares graduates for bookkeeping careers and general office employment. Normally completed in three quarters, the curriculum includes critical thinking, values, and cultural understanding. Related instruction courses support skills and knowledge used in accounting and general office fields.

Certificate

TECHNICAL SPECIALTY COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 110</td>
<td>Intro to Accounting/Bookkeeping I</td>
<td>5</td>
</tr>
<tr>
<td>ACCT 120</td>
<td>Intro to Accounting/Bookkeeping II</td>
<td>5</td>
</tr>
<tr>
<td>ACCT 131</td>
<td>QuickBooks</td>
<td>5</td>
</tr>
<tr>
<td>ACCT 257</td>
<td>Business Tax Accounting</td>
<td>5</td>
</tr>
<tr>
<td>ACCT 267</td>
<td>Not-for-Profit Management</td>
<td>5</td>
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</table>

RELATED INSTRUCTION

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 124</td>
<td>Excel for Business</td>
<td>5</td>
</tr>
<tr>
<td>BUS 169</td>
<td>Using Computers in Business*</td>
<td>5</td>
</tr>
<tr>
<td>BUS 236</td>
<td>Interpersonal Communications for the Workplace</td>
<td>5</td>
</tr>
<tr>
<td>CWE 110</td>
<td>Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

* IT 101 may be substituted for BUS 169

TOTAL CREDITS 98

Certificate of Accountancy

This program is designed for those who already have a four-year degree and want to meet the educational requirements to take the Certified Public Accounting (CPA) Examination.

TOTAL CREDITS 43

* IT 101 may be substituted for BUS 169

TOTAL CREDITS 98

Certificate of Accountancy

This program is designed for those who already have a four-year degree and want to meet the educational requirements to take the Certified Public Accounting (CPA) Examination.
Certificate

**TECHNICAL SPECIALTY COURSES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 251</td>
<td>Intermediate Accounting I</td>
<td>5</td>
</tr>
<tr>
<td>ACCT 252</td>
<td>Intermediate Accounting II</td>
<td>5</td>
</tr>
<tr>
<td>ACCT 254</td>
<td>Advanced Accounting</td>
<td>5</td>
</tr>
<tr>
<td>ACCT 256</td>
<td>Taxation of Corporations and Partnerships</td>
<td>5</td>
</tr>
<tr>
<td>ACCT 265</td>
<td>Accounting for Not-For-Profit &amp; Governmental Entities</td>
<td>5</td>
</tr>
<tr>
<td>ACCT 270</td>
<td>Cost Accounting</td>
<td>5</td>
</tr>
<tr>
<td>ACCT 271</td>
<td>Ethics in Accounting</td>
<td>5</td>
</tr>
<tr>
<td>ACCT 275</td>
<td>Auditing</td>
<td>5</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 40**

**Computerized Accounting Technology**

This certificate is a four-quarter program that provides computerized accounting skills using popular accounting software. The program bridges the gap between manual and computerized accounting systems with students gaining practical experience and expertise with basic and mid-range accounting systems. Graduates gain viable entry and/or advancement in the accounting job market with large and small organizations.

Certificate

**REQUIRED COURSES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 110</td>
<td>Intro to Accounting/Bookkeeping I</td>
<td>5</td>
</tr>
<tr>
<td>ACCT 120</td>
<td>Intro to Accounting/Bookkeeping II</td>
<td>5</td>
</tr>
<tr>
<td>ACCT 131</td>
<td>QuickBooks</td>
<td>5</td>
</tr>
<tr>
<td>ACCT 257</td>
<td>Business Tax Accounting</td>
<td>5</td>
</tr>
<tr>
<td>ACCT 260</td>
<td>Peachtree Accounting</td>
<td>5</td>
</tr>
<tr>
<td>ACCT 261</td>
<td>Accounting Information Systems</td>
<td>5</td>
</tr>
<tr>
<td>ACCT 267</td>
<td>Not-for-Profit Financial Management</td>
<td>5</td>
</tr>
<tr>
<td>ACCT 268</td>
<td>Computerized Accounting Simulations</td>
<td>5</td>
</tr>
<tr>
<td>BUS 115</td>
<td>Computational Skillbuilding</td>
<td>2</td>
</tr>
<tr>
<td>BUS 124</td>
<td>Excel for Business</td>
<td>5</td>
</tr>
<tr>
<td>BUS 169</td>
<td>Using Computers in Business</td>
<td>5</td>
</tr>
<tr>
<td>BUS 236</td>
<td>Interpersonal Communications in the Workplace</td>
<td>5</td>
</tr>
<tr>
<td>CWE 110</td>
<td>Internship</td>
<td>3</td>
</tr>
<tr>
<td>ENGL&amp; 230</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 63**

**Advanced Tax Preparation**

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 forms for others.

Certificate

**REQUIRED COURSES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 110</td>
<td>Intro to Accounting/Bookkeeping I</td>
<td>5</td>
</tr>
<tr>
<td>ACCT 255</td>
<td>Individual Income Tax</td>
<td>5</td>
</tr>
<tr>
<td>ACCT 256</td>
<td>Taxation of Corporations &amp; Partnerships</td>
<td>5</td>
</tr>
<tr>
<td>ACCT 257</td>
<td>Business Tax Accounting</td>
<td>5</td>
</tr>
<tr>
<td>ACCT 258</td>
<td>Practical Income Tax Preparation I</td>
<td>5</td>
</tr>
<tr>
<td>ACCT 259</td>
<td>Practical Income Tax Preparation II</td>
<td>5</td>
</tr>
<tr>
<td>ACCT 264</td>
<td>Tax Research, Estates and Gifts</td>
<td>5</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS 35**

**ALLIED HEALTH SCIENCES**

Health & Human Services Division  
(206) 934-3790  
northseattle.edu/health/aas

North Seattle Community 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.

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

**DEGREE CRITERIA INCLUDE:**

1. A North 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.

2. Completion of specific technical courses, related General Education or Related Instruction.

3. Completion of 90 credit hours.

4. An overall GPA of 2.0.

Other requirements may be established by faculty or administrative policies.

**PROGRAM REQUIREMENTS FOR MEDICAL ASSISTING, PHARMACY TECHNICIAN & PRACTICAL NURSING:**

- **a.** 45 (minimum) - 70 (maximum) vocational-technical credits.

- **b.** Minimum of 25 credits in General Education or Related Instruction courses: Communication (5); Computation/Quantitative Reasoning (5); Human Relations (5); and 10 credits from the list of approved courses for the A.A. degree, which must include 5 credits from Multicultural, U.S. Cultures or Global Studies.

- **c.** Up to 20 elective credits may be taken as necessary to complete the 90 credits required for the degree.
BIOMEDICAL EQUIPMENT TECHNOLOGY

Business, Engineering & Information Technologies Division
(206) 934-3730

Biomedical Equipment Technology is a two-year program with core electronics classes and medical background including anatomy and physiology, hospital computer and specialized training procedures, and biomedical equipment. The program concludes with a one-quarter externship with students placed in a hospital or medical manufacturer for work experience.

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

TECHNICAL SPECIALTY COURSES

EEL 201 Industrial Transformers & Motors ........... 5
EET 105 Intro to Technology .......................... 3
EET 109 Mathematical Applications for Circuit Analysis * .......................... 5
EET 114 Applied Physics * ............................ 5
EET 131 IT Essentials I – A+ Certification .............. 5
EET 132 IT Essentials II – A+ Certification Advanced.... 5
EET 161 DC Principles of Electronics ................ 5
EET 162 AC Principles of Electronics ................ 5
EET 163 Solid State Electronics ....................... 5
EET 165 Analog Circuits & Devices I ................ 5
EET 166 Advanced Analog Circuits ................... 5
EET 170 Digital Circuits I ....................... 5
EET 171 Advanced Digital Circuits .................... 5
EET 251 Micropipette Fundamentals I ............... 5
EET 252 Micropipette Fundamentals II ............... 5
EET 286 Biomedical Equipment I .................... 5
EET 287 Biomedical Equipment II ................... 5
EET 297 Biomedical Technician Externship .......... 4
CSC 110 or higher course .......................... 5

RELATED INSTRUCTION

AHI 100 Intro to Medical Vocabulary * .......................... 3
BIOL 128 Survey of Human Anatomy & Physiology * .......................... 5
BUS 112 Multicultural Issues in the American Workplace * .......................... 5
BUS 236 Interpersonal Communication for the Workplace * .......................... 5
CHEM& 121 Intro to Chemistry * .......................... 5
ENGL& 101 English Composition I ** .......................... 5

TOTAL CREDITS ................................ 120

* This course has acceptable substitutes. See Advising Center.
** While students must test into ENGL 093 to start the degree, they must complete ENGL 101 to finish.

BUSINESS

Business, Engineering & Information Technologies 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.

Business also offers a short-term certificate in Administrative Specialist.

General Business

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

TECHNICAL SPECIALTY COURSES

ACCT& 201 Principles of Accounting I ............... 5
ACCT& 202 Principles of Accounting II ............... 5
BUS& 101 Intro to Business .......................... 5
BUS 112 Multicultural Issues in the American Workplace ........... 5
BUS 114 Intro to Marketing .......................... 5
BUS 131 Integrated Communications I * ....... 5
BUS 169 Using Computers in Business ............... 5
BUS 200 Law & Society ............................ 5
BUS 205 Human Resource Management .......... 5
BUS 210 Business & Economic Statistics .......... 5
BUS 215 Intro to International Business ........... 5
BUS 216 Professional Development ............... 5
BUS 230 Business Communications ............... 5
BUS 236 Interpersonal Communication for the Workplace ........... 5

* Eligible for ENGL& 101 through English placement exam or completion of ENGL 097/098.

GENERAL EDUCATION COURSES 10

10 credits from the following two lists:

At least 5 credits must be from the “A” List: ACCT 131, BUS 124, 125, 156, 182, 269, IT 111

“B” List: ACCT& 203, ACCT 255, BUS 116, 197, 299, ECON& 201, 202

ELECTIVES 10

Select 10 credits from an approved list. Contact the Advising Center.

NOTE: Students transferring to a four-year college must take 10 credits in behavioral science.

TOTAL CREDITS 90
Administrative Assistant
This program prepares students for employment as office support professionals and administrative assistants with computer literacy in information processing, spreadsheets, databases, presentation graphics, and word processing.

Certificate
TECHNICAL SPECIALTY COURSES
BUS 106 Keyboarding/Skillbuilding *  .................. 3
BUS 112 Multicultural Issues in the American Workplace  .................. 5
BUS 116 Business Math/Spreadsheets  .................. 5
BUS 117 Records Management  .................. 2
BUS 123 Word for Business  .................. 5
BUS 124 Excel for Business  .................. 5
BUS 125 Access for Business  .................. 5
BUS 126 PowerPoint for Business  .................. 2
BUS 127 Outlook for Business  .................. 2-3
BUS 131 Integrated Communications I **  .................. 5
BUS 140 Customer Relations  .................. 5
BUS 216 Professional Development  .................. 5
BUS 230 Business Communications  .................. 5
BUS 270 Integrated Office Applications  .................. 5
CWE 110 Internship  .................. 3
* Prereq: BUS 105, take 105 and 106 concurrently, or 25 wpm accurate keyboarding. May be repeated twice to build required speed.
** Eligible for ENGL 101 through English Placement Exam or completion of ENGL 097/098.

TOTAL CREDITS 62-63

Associate of Applied Science Degree (A.A.S.)
Completion of Certificate Requirements  .................. 62-63

RELATED INSTRUCTION
BUS& 101 Intro to Business  .................. 5
BUS 156 Intro to e-Business/Commerce  .................. 5
-OR-
IT 111 Internet & Web Authoring Using XHTML  .................. 5
BUS 205 Human Resource Management  .................. 5
BUS 236 Interpersonal Communications for the Workplace  .................. 5
CWE 110 Internship  .................. 3

GENERAL EDUCATION COURSES 10
10 credits from approved list. See Advising Center.

TOTAL CREDITS 92-93

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.

Certificate
TECHNICAL SPECIALTY COURSES
ACCT 110 Intro to Accounting/Bookkeeping  .................. 5
BUS 114 Intro to Marketing  .................. 5
BUS 116 Business Math/Spreadsheets  .................. 5
BUS 119 Leadership and Management Skills  .................. 5
BUS 169 Using Computers in Business  .................. 5
-OR-
IT 101 Software Applications  .................. 5
BUS 205 Human Resource Management  .................. 5
BUS 230 Business Communications  .................. 5
BUS 236 Interpersonal Communications for the Workplace  .................. 5
BMT 140 Management Skills (SVC online)  .................. 5
BMT 213 Retailing (SVC online)  .................. 3

TOTAL CREDITS 48
*Classes are taken online from Skagit Valley College. Check with an advisor for more information.

Customer Service
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.

Certificate
TECHNICAL SPECIALTY COURSES
BUS 106 Keyboarding/Skillbuilding*  .................. 3
BUS 131 Integrated Communications I **  .................. 5
BUS 140 Customer Relations  .................. 5
BUS 169 Using Computers in Business  .................. 5
CWE 110 Internship  .................. 3
* Prereq: BUS 105, take 105 and 106 concurrently, or 25 wpm accurate keyboarding. May be repeated twice to build speed.
** Eligible for ENGL 101 through English Placement Exam or completion of ENGL 097/098.

TOTAL CREDITS 21
Advanced Customer Service
Certificate

TECHNICAL SPECIALTY COURSES
BUS 106 Keyboarding/Skillbuilding* .................. 3
BUS 112 Multicultural Issues in the American Workplace .................... 5
BUS 123 Word for Business ....................... 5
BUS 124 Excel for Business ...................... 5
-OR-
BUS 125 Access for Business .................. 5
BUS 131 Integrated Communications I** .......... 5
BUS 140 Customer Relations .................... 5
BUS 169 Using Computers in Business ........... 5
BUS 230 Business Communications ............. 5
CWE 110 Internship ................................ 3
** Prereq: BUS 105, take 105 and 106 concurrently, or 25 wpm accurate keyboarding. May be repeated twice to build speed.

TOTAL CREDITS 41

COMMUNICATION, BUSINESS AND MEDIA

Arts, Humanities, and Social Sciences Division
(206) 934-3709
Business, Engineering & Information Technologies Division
(206) 934-3730

CB&M integrates Communication and Art (two transfer programs) with Business (a professional program), and offers a balance of training and studies in media management, marketing, sales, public information, news, and media design and production.

Communication, Business and Media
Certificate

TECHNICAL SPECIALTY COURSES
BUS 118 Project Management ...................... 5
-OR-
CMST 290 Media Project Management Practicum* .......... 5
BUS 236 Interpersonal Communication for the Workplace .................... 5
-OR-
CMST& 220 Public Speaking ...................... 5
CMST 275 Online Communication* ............... 5
CMST 291 Internet & Print Practicum* ............. 5
-OR-
CMST 292 Radio & Audio Practicum* .......... 5
-OR-
CMST 293 Television & Video Practicum* ........ 5
CMST 294 News & Public Information Practicum* ........ 5
Optional Internship & Certificate Portfolio** .......... 5
TOTAL CREDITS 45-50

* Prereq: BUS 105, take 105 and 106 concurrently, or 25 wpm accurate keyboarding. May be repeated twice to build speed.
** Eligible for ENGL& 101 through English Placement Exam or completion of ENGL 097/098.

Communication and Media Arts
Certificate

TECHNICAL SPECIALTY COURSES
ART 101 Design ................................... 5
ART 102 Design .................................. 5
ART 114 Intro to Digital Photography ............. 5
-OR-
ART 210 Computer Art ......................... 5
CMST& 101 Intro to Communication ............... 5
CMST 275 Online Communication ................ 5
CMST& 220 Public Speaking ..................... 5
CMST 290 Media Project Management Practicum ........ 5
CMST 295 Studies & Works in Communication ................ 5

RELATED INSTRUCTION
MATH& 107 Math in Society* ....................... 5
ENGL& 101 Composition I* ....................... 5

TOTAL CREDITS 50

* For acceptable substitutes, see Advising Center.
Communication, Business and Media

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS&amp; 101</td>
<td>Intro to Business</td>
<td>5</td>
</tr>
<tr>
<td>BUS 114</td>
<td>Intro to Marketing*</td>
<td>5</td>
</tr>
<tr>
<td>CMST&amp; 101</td>
<td>Intro to Communication</td>
<td>5</td>
</tr>
<tr>
<td>CMST 195</td>
<td>Media Management &amp; Operations</td>
<td>5</td>
</tr>
<tr>
<td>CMST 255</td>
<td>Writing for Organizations &amp; the Media**</td>
<td>5</td>
</tr>
<tr>
<td>BUS 112</td>
<td>Multicultural Issues in the American Workplace</td>
<td>5</td>
</tr>
</tbody>
</table>

-OR-

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CMST 265</td>
<td>Media Relations &amp; Ethics**</td>
<td>5</td>
</tr>
<tr>
<td>BUS 131</td>
<td>Integrated Communications I*</td>
<td>5</td>
</tr>
<tr>
<td>ENGL&amp; 102</td>
<td>Composition II</td>
<td>5</td>
</tr>
<tr>
<td>BUS 156</td>
<td>Intro to e-Business &amp; Commerce</td>
<td>5</td>
</tr>
<tr>
<td>CMST 235</td>
<td>Media Research, Marketing &amp; Sales**</td>
<td>5</td>
</tr>
<tr>
<td>BUS 197</td>
<td>Work Experience - Business</td>
<td>5</td>
</tr>
</tbody>
</table>

-OR-

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 299</td>
<td>Special Topics - Business</td>
<td>5</td>
</tr>
<tr>
<td>CMST 295</td>
<td>Studies &amp; Works in Communication**</td>
<td>5</td>
</tr>
<tr>
<td>BUS 200</td>
<td>Law &amp; Society</td>
<td>5</td>
</tr>
<tr>
<td>CMST 245</td>
<td>Media Communication &amp; Criticism**</td>
<td>5</td>
</tr>
<tr>
<td>BUS 118</td>
<td>Project Management</td>
<td>5</td>
</tr>
<tr>
<td>CMST 290</td>
<td>Media Project Management Practicum**</td>
<td>5</td>
</tr>
<tr>
<td>BUS 236</td>
<td>Interpersonal Communications for the Workplace</td>
<td>5</td>
</tr>
</tbody>
</table>

-OR-

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMST&amp; 220</td>
<td>Public Speaking**</td>
<td>5</td>
</tr>
<tr>
<td>CMST 275</td>
<td>Online Communication**</td>
<td>5</td>
</tr>
</tbody>
</table>

RELATED INSTRUCTION

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 210</td>
<td>Business &amp; Economic Statistics</td>
<td>5</td>
</tr>
<tr>
<td>CMST 205</td>
<td>Multicultural Communication**</td>
<td>5</td>
</tr>
<tr>
<td>ENGL&amp; 101</td>
<td>English Composition I*</td>
<td>5</td>
</tr>
<tr>
<td>Individuals, Cultures &amp; Societies Elective ++</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Natural World Elective</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Communication, Business &amp; Media Electives***</td>
<td>10</td>
<td></td>
</tr>
</tbody>
</table>

TOTAL CREDITS 95

* Must be eligible for ENGL& 101 through English Placement Exam or complete ENGL 097/098.

** Consult advisor regarding individual course prereqs or individual advanced student status.

*** Take 10 credits not already taken from this list: CMST 291, 292, 293, 294.

+ BUS 210 prerequisite: MATH 098 or 116.

Students may also take short-term certificate programs in 3-D Modeling Techniques using BIM or Autocad.

DRAFTING—ARCHITECTURAL ENGINEERING DRAFTING

Business, Engineering & Information Technologies Division
(206) 934-3730

This program prepares students for a variety of entry-level jobs in engineering, construction firms, and public agencies in the construction and design industry. Students learn basics of conventional hand drafting, CAD and Building Information Modeling (BIM), basic applied mechanics, cost estimating, shop drawing preparation, and construction materials and processes. The two-year sequence leads to an Associate of Applied Science degree. A one-year certificate is also offered. Students may also take short-term certificate programs in 3-D Modeling Techniques using BIM or Autocad.

Certificate

TECHNICAL SPECIALTY COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDR 109</td>
<td>Architectural Engineering Drafting Lab*</td>
<td>3</td>
</tr>
<tr>
<td>TDR 111</td>
<td>Basic CAD Drafting for Construction &amp; Design</td>
<td>5</td>
</tr>
<tr>
<td>TDR 112</td>
<td>Intermediate CAD Drafting for Construction &amp; Design</td>
<td>5</td>
</tr>
<tr>
<td>TDR 113</td>
<td>Basic Drafting</td>
<td>5</td>
</tr>
<tr>
<td>TDR 115</td>
<td>Civil &amp; Site Drafting</td>
<td>5</td>
</tr>
<tr>
<td>TDR 124</td>
<td>Materials &amp; Methods of Construction</td>
<td>5</td>
</tr>
<tr>
<td>TDR 134</td>
<td>Systems in Buildings</td>
<td>5</td>
</tr>
<tr>
<td>TDR 144</td>
<td>Design &amp; Construction Environment</td>
<td>5</td>
</tr>
</tbody>
</table>

RELATED INSTRUCTION

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 236</td>
<td>Interpersonal Communication in the Workplace**</td>
<td>5</td>
</tr>
<tr>
<td>ENGL&amp; 101</td>
<td>English Composition I ***</td>
<td>5</td>
</tr>
<tr>
<td>EET 109 or MATH 102 or higher</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

* May be repeated each quarter.

** May be substituted by any 100-level approved human relations course.

*** 3 credits ENGL 105 and 5 credits Gen. Ed. may substitute for ENGL& 101.

TOTAL CREDITS 53

Students may also take short-term certificate programs in 3-D Modeling Techniques using BIM or Autocad.
## Associate of Applied Science Degree (A.A.S.)

Completion of Certificate Requirements. .......................... 53

### TECHNICAL SPECIALTY COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDR 100</td>
<td>Basic BIM for Design &amp; Construction</td>
</tr>
<tr>
<td>TDR 101</td>
<td>Intermediate BIM for Design &amp; Construction</td>
</tr>
<tr>
<td>TDR 102</td>
<td>Advanced BIM for Design &amp; Construction</td>
</tr>
<tr>
<td>TDR 109</td>
<td>Architectural Engineering Drafting Lab*</td>
</tr>
<tr>
<td>TDR 160</td>
<td>Applied Mechanics I</td>
</tr>
<tr>
<td>TDR 161</td>
<td>Applied Mechanics II</td>
</tr>
<tr>
<td>IT</td>
<td>Computer Skill Classes**</td>
</tr>
</tbody>
</table>

* May be repeated each quarter.

** A minimum of 5 credits in computer skill classes required.

### COMMUNICATIONS COURSES

ENGL & 230  Technical Writing ..................................... 3

### GENERAL EDUCATION COURSES

5 credits of Multicultural, U.S. Cultures or Global Studies.

TOTAL CREDITS 93

## Certificate (evening program)

### TECHNICAL SPECIALTY COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDR 113</td>
<td>Basic Drafting</td>
</tr>
<tr>
<td>TDR 124</td>
<td>Materials &amp; Methods of Construction</td>
</tr>
<tr>
<td>TDR 134</td>
<td>Systems in Buildings</td>
</tr>
<tr>
<td>TDR 144</td>
<td>Design &amp; Construction Environment</td>
</tr>
<tr>
<td>TDR 174</td>
<td>Intro to CAD for Architectural &amp; Engineering Drafting</td>
</tr>
<tr>
<td>TDR 175</td>
<td>Intermediate CAD for Engineers &amp; Architects</td>
</tr>
<tr>
<td>TDR 176</td>
<td>Advanced AutoCAD for Architectural &amp; Engineering Drafting</td>
</tr>
</tbody>
</table>

### GENERAL EDUCATION COURSES

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

EET 109 or MATH 102 or higher ........................................... 5

BUS 236  Interpersonal Communication in the Workplace ..................... 5

TOTAL CREDITS 47

---

### EARLY CHILDHOOD EDUCATION

Health & Human Services Division  
(206) 934-3783

North offers two 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.

## Early Childhood Education

### Assistant Certificate

### TECHNICAL SPECIALTY COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCE 160</td>
<td>Connecting to Children (2-credit modules):</td>
</tr>
<tr>
<td>D1</td>
<td>Expressing Warmth to Children</td>
</tr>
<tr>
<td>D2</td>
<td>Playing Responsively</td>
</tr>
<tr>
<td>D3</td>
<td>Talking Informatively</td>
</tr>
<tr>
<td>D4</td>
<td>Initiative, Cooperation, Perseverance</td>
</tr>
</tbody>
</table>

TOTAL CREDITS 8

### REQUIRED COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCE 160</td>
<td>Connecting to Children</td>
</tr>
<tr>
<td>D1</td>
<td>Expressing Warmth to Children</td>
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<tr>
<td>D2</td>
<td>Playing Responsively</td>
</tr>
<tr>
<td>D3</td>
<td>Talking Informatively</td>
</tr>
<tr>
<td>D4</td>
<td>Initiative, Cooperation, Perseverance</td>
</tr>
<tr>
<td>CCE 125</td>
<td>Program Planning</td>
</tr>
<tr>
<td>CCE 145</td>
<td>Music &amp; Creative Expression</td>
</tr>
<tr>
<td>CCE 165</td>
<td>Understanding Literacy</td>
</tr>
<tr>
<td>CCE 175</td>
<td>Mathematics &amp; Design</td>
</tr>
<tr>
<td>CCE 185</td>
<td>Physical Education in Early Childhood Education</td>
</tr>
<tr>
<td>CCE 195</td>
<td>Art for Young Children</td>
</tr>
<tr>
<td>CCE 200</td>
<td>Children &amp; Nature</td>
</tr>
<tr>
<td>CCE 240</td>
<td>Multicultural Dialogues</td>
</tr>
<tr>
<td>CCE 285</td>
<td>The Project Approach</td>
</tr>
</tbody>
</table>

TOTAL CREDITS 34

### ELECTIVE COURSES

Select a minimum of 3 credits from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCE 101</td>
<td>Human Development</td>
</tr>
<tr>
<td>CCE 135</td>
<td>Foundations of Early Learning</td>
</tr>
<tr>
<td>CCE 159</td>
<td>Behavior Management</td>
</tr>
<tr>
<td>CCE 166</td>
<td>Cultivating Conversation</td>
</tr>
<tr>
<td>CCE 204</td>
<td>Autism &amp; Related Disorders</td>
</tr>
<tr>
<td>CCE 234</td>
<td>Staff Relationships</td>
</tr>
</tbody>
</table>

TOTAL CREDITS 34
Associate of Applied Science Degree (A.A.S.)

GENERAL EDUCATION 20

Select 5 credits from each of the following categories (total of 20 credits). Contact the Health and Human Services Division for the list of approved courses:

- Communication (written or oral) .......................... 5
- Computation/Quantitative Reasoning .................. 5
- Multicultural, U.S. Cultures or Global Studies ............. 5
- Visual, Literary, Performing Arts or Natural World ........ 5

RELATED INSTRUCTION 20

Professional Practice with Young Children
CCE 160D- Connecting to Children (2-credit modules):
  D1 Expressing Warmth to Children .................. 2
  D2 Playing Responsively .................................. 2
  D3 Talking Informatively .................................. 2
  D4 Initiative, Cooperation, Perseverance .............. 2
CCE 292 Classroom Research ................................. 12

REQUIRED COURSES 30

CCE 102 Issues & Trends in Early Childhood Education .. 3
EDUC& 203 Exceptional Child .................................. 3
CCE 125 Program Planning .................................. 5
CCE 135 Foundations of Early Learning ................... 5
CCE 159 Behavior Management* ............................ 4
CCE 166 Cultivating Conversation* .......................... 3
CCE 232 Parent Involvement in Early Childhood Education* .... 4
CCE 234 Staff Relationships* ................................. 3
* Human Relations included in these required courses.

ELECTIVE COURSES 20

Select a minimum of 20 credits from the following:

- CCE 101 Human Development ............................... 5
- CCE 136 Signing with Young Children .................. 2
- CCE 145 Music & Creative Expression .................. 4
- CCE 165 Understanding Literacy ............................. 3
- CCE 175 Mathematics & Design ............................. 3
- CCE 180 Professional Development .................... 1-6
- CCE 185 Physical Education in Early Childhood ....... 3
- CCE 195 Art for Young Children ........................... 3
- CCE 200 Children & Nature ................................. 3
- CCE 204 Autism & Related Disorders .................... 2
- CCE 240 Multicultural Dialogues ............................ 3
- CCE 261 Readings in Early Childhood Education .......... 1-6
- CCE 285 The Project Approach .............................. 5

TOTAL CREDITS 90

ELECTRONICS

Business, Engineering & Information Technologies 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. Also see the Sustainable & Conventional Energy & Control Technology program. Students can take a short-term certificate in Green Energy.

Broadband Cable

This certificate program prepares students for entry-level positions in the broadband cable TV industry.

Certificate

TECHNICAL SPECIALTY COURSES

EET 131 IT Essentials I – A+ Certification .................. 5
EET 132 IT Essentials I – A+ Certification Advanced ....... 5
EET 135 Intro to Broadband ................................. 5
EET 160 Survey of Electricity & Electronics ................ 5

RELATED INSTRUCTION

BUS 236 Interpersonal Communications for the Workplace .... 5

TOTAL CREDITS 25

ELECTRONICS

ENGINEERING TECHNOLOGY

Business, Engineering & Information Technologies Division (206) 934-3730

This two-year program of study, designed as a “plus two” or transfer program, prepares students for advanced technical training. Many graduates transfer into the Bachelor of Science degree program in electronics engineering technology at a four-year institution such as Western Washington University, Central Washington University, or Eastern Washington University. The course work provides an excellent foundation in applied engineering for those who wish to enter the workplace upon completion.

NOTE: Because of the complexity regarding course sequence and prerequisites, students should seek advanced planning assistance with an advisor.
## Associate of Applied Science Degree (A.A.S.)

### TECHNICAL SPECIALTY COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EET 105</td>
<td>Intro to Technology</td>
<td>3</td>
</tr>
<tr>
<td>EET 161</td>
<td>DC Principles of Electronics</td>
<td>5</td>
</tr>
<tr>
<td>EET 162</td>
<td>AC Principles of Electronics</td>
<td>5</td>
</tr>
<tr>
<td>EET 163</td>
<td>Solid State Electronics</td>
<td>5</td>
</tr>
<tr>
<td>EET 165</td>
<td>Analog Circuits &amp; Devices I</td>
<td>5</td>
</tr>
<tr>
<td>EET 166</td>
<td>Analog Circuits &amp; Devices II</td>
<td>5</td>
</tr>
<tr>
<td>EET 170</td>
<td>Digital Circuits I</td>
<td>5</td>
</tr>
<tr>
<td>EET 171</td>
<td>Digital Circuits II</td>
<td>5</td>
</tr>
<tr>
<td>EET 251</td>
<td>Microprocessor Fundamentals I</td>
<td>5</td>
</tr>
<tr>
<td>EET 252</td>
<td>Microprocessor Fundamentals II</td>
<td>5</td>
</tr>
<tr>
<td>EET 285</td>
<td>Electronics Technology Project</td>
<td>3</td>
</tr>
</tbody>
</table>

### RELATED INSTRUCTION

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 142</td>
<td>Computer Programming for Engineers</td>
<td>5</td>
</tr>
<tr>
<td>MATH&amp; 142</td>
<td>Precalculus II</td>
<td>5</td>
</tr>
<tr>
<td>MATH&amp; 151</td>
<td>Calculus I</td>
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<td>MATH&amp; 152</td>
<td>Calculus II</td>
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<td>PHYS&amp; 221</td>
<td>Engineering Physics I</td>
<td>5</td>
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<tr>
<td>PHYS&amp; 222</td>
<td>Engineering Physics II</td>
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<tr>
<td>PHYS&amp; 223</td>
<td>Engineering Physics III</td>
<td>5</td>
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### COMMUNICATIONS COURSES

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CMST&amp; 210</td>
<td>Interpersonal Communication</td>
<td>5</td>
</tr>
<tr>
<td>ENGL&amp; 101</td>
<td>English Composition I</td>
<td>5</td>
</tr>
<tr>
<td>ENGL&amp; 230</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

### GENERAL EDUCATION COURSES

10 credits selected from approved list. See Advising Center.

### TECHNICAL ELECTIVES

Select 5 credits. See Advising Center.

TOTAL CREDITS 114

---

## ELECTRONICS TECHNOLOGY

Business, Engineering & Information Technologies Division

(206) 934-3730

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.

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

---

## Certificate

### TECHNICAL SPECIALTY COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EET 105</td>
<td>Intro to Technology</td>
<td>3</td>
</tr>
<tr>
<td>EET 109</td>
<td>Mathematical Applications for Circuit Analysis</td>
<td>5</td>
</tr>
<tr>
<td>EET 114</td>
<td>Applied Physics</td>
<td>5</td>
</tr>
<tr>
<td>EET 131</td>
<td>IT Essentials – A+ Certification</td>
<td>5</td>
</tr>
<tr>
<td>EET 132</td>
<td>IT Essentials – A+ Certification – Advanced</td>
<td>5</td>
</tr>
<tr>
<td>EET 135</td>
<td>Intro to Broadband</td>
<td>5</td>
</tr>
<tr>
<td>EET 161</td>
<td>DC Principles of Electronics</td>
<td>5</td>
</tr>
<tr>
<td>EET 162</td>
<td>AC Principles of Electronics</td>
<td>5</td>
</tr>
<tr>
<td>EET 163</td>
<td>Solid State Electronics</td>
<td>5</td>
</tr>
<tr>
<td>EET 165</td>
<td>Analog Circuits &amp; Devices I</td>
<td>5</td>
</tr>
<tr>
<td>EET 170</td>
<td>Digital Circuits I</td>
<td>5</td>
</tr>
<tr>
<td>EET 285</td>
<td>Electronics Technology Project</td>
<td>3</td>
</tr>
</tbody>
</table>

### RELATED INSTRUCTION

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 236</td>
<td>Interpersonal Communication for the Workplace</td>
<td>5</td>
</tr>
<tr>
<td>CSC 110</td>
<td>Intro to Computer Programming</td>
<td>5</td>
</tr>
<tr>
<td>ENGL&amp; 230</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL CREDITS 61

*For acceptable substitutes, see Advising Center.*
### ELECTRONICS TELECOMMUNICATIONS TECHNOLOGY

**Business, Engineering & Information Technologies Division**  
(206) 934-3730

North Seattle Community College has offered a comprehensive program in electronic communication technology for more than ten years, with courses from the Electronics Technology program serving as a strong foundation.

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

<table>
<thead>
<tr>
<th>TECHNICAL SPECIALTY COURSES</th>
<th>TECHNICAL CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>EET 105 Intro to Technology*</td>
<td>3</td>
</tr>
<tr>
<td>EET 109 Mathematical Applications for Circuit Analysis</td>
<td>5</td>
</tr>
<tr>
<td>EET 131 IT Essentials I - A+ Certification</td>
<td>5</td>
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<tr>
<td>EET 132 IT Essentials I - A+ Certification Advanced</td>
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</tr>
<tr>
<td>EET 135 Intro to Broadband</td>
<td>5</td>
</tr>
<tr>
<td>EET 161 DC Principles of Electronics</td>
<td>5</td>
</tr>
<tr>
<td>EET 162 AC Principles of Electronics</td>
<td>5</td>
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<tr>
<td>EET 163 Solid State Electronics I</td>
<td>5</td>
</tr>
<tr>
<td>EET 165 Analog Circuits &amp; Devices I</td>
<td>5</td>
</tr>
<tr>
<td>EET 166 Analog Circuits &amp; Devices II</td>
<td>5</td>
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<tr>
<td>EET 170 Digital Circuits I</td>
<td>5</td>
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<tr>
<td>EET 171 Digital Circuits II</td>
<td>5</td>
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<td>EET 241 Principles of Telecommunications I</td>
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<td>EET 242 Principles of Telecommunications 2</td>
<td>5</td>
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<tr>
<td>EET 243 Principles of Telecommunications 3</td>
<td>5</td>
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<tr>
<td>EET 251 Microprocessor Fundamentals I</td>
<td>5</td>
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<tr>
<td>IT 124 Network OS 2 – Win2K Server</td>
<td>5</td>
</tr>
<tr>
<td>IT 134 Network Communications – TCP/IP</td>
<td>5</td>
</tr>
<tr>
<td>IT 138 Unix for Network Administration</td>
<td>5</td>
</tr>
<tr>
<td>IT 142 Network Management – CISCO I</td>
<td>5</td>
</tr>
<tr>
<td>IT 144 Network Management – CISCO II</td>
<td>5</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS** 116

*For acceptable substitutes, see Advising Center.

** EMERGENCY MEDICAL TECHNICIAN (EMT)**

Health & Human Services Division  
(206) 934-3790  
northseattle.edu/health/emt/

The Department of Social and Health Services specifies the Emergency Medical Technician (EMT) knowledge and skills required to qualify as an EMT. In addition, a number of policies have been adopted by the faculty and administration at North Seattle Community College to fulfill the needs of the program's graduates and employers and to maintain accreditation with the Office of Emergency Medical Services for King County and the State Office of Emergency Medical Services, Washington State Department of Health in Olympia.

Students need to contact the Health and Human Services Division office to obtain specific requirements for enrollment in this course. A written first aid entrance exam is required and attendance at a mandatory orientation session.

| AHE 190 Emergency Medical Technician (EMT) | 10 |
| AHE 191 EMT Continuing Education | 2-5 |

### ENTREPRENEURSHIP

**Business, Engineering & Information Technologies Division**  
(206) 934-3730

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.
## HVAC

Business, Engineering & Information Technologies Division  
(206) 934-3730

The HVAC program, in partnership with HVAC Learning Systems and Lennox, provides system 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 are offered: HVAC Service Certificate and HVAC Core Certificate.

### HVAC Service Certificate:

**PREREQUISITES**
ENGL 097/098 or higher; MATH 084 or higher; BUS 169 or IT 101 or equivalent.

**TECHNICAL SPECIALTY COURSES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EET 160</td>
<td>Intro to Electricity &amp; Electronics</td>
<td>5</td>
</tr>
<tr>
<td>HVC 101</td>
<td>Essentials of HVAC</td>
<td>5</td>
</tr>
<tr>
<td>HVC 210</td>
<td>Cooling &amp; Heating Systems 1</td>
<td>5</td>
</tr>
<tr>
<td>HVC 211</td>
<td>Cooling &amp; Heating Systems 1 &amp; 2B</td>
<td>5</td>
</tr>
<tr>
<td>HVC 212</td>
<td>Cooling &amp; Heating Systems 2A &amp; NATE Prep</td>
<td>5</td>
</tr>
</tbody>
</table>

**RELATED INSTRUCTION**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 236</td>
<td>Interpersonal Communication for the Workplace</td>
<td>5</td>
</tr>
<tr>
<td>CWE 101</td>
<td>Portfolio, Job Search &amp; Interviewing</td>
<td>2</td>
</tr>
<tr>
<td>CWE 110</td>
<td>Internship</td>
<td>3</td>
</tr>
<tr>
<td>EET 109</td>
<td>Mathematical Applications for Circuit Analysis</td>
<td>5</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS** 40

### HVAC Core Certificate

This short-term certificate of the core HVAC classes is designed for people with a background in electronics, construction, the military, or those with a previous degree. The certificate incorporates only the essential skills for becoming employable in the Heating, Ventilation, and Air Conditioning (HVAC) field as a technician or installer.

**PREREQUISITES**
EET 109 and BUS 169 or IT 101 or instructor’s permission.

**TECHNICAL SPECIALTY COURSES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>EET 160</td>
<td>Intro to Electricity &amp; Electronics</td>
<td>5</td>
</tr>
<tr>
<td>HVC 101</td>
<td>Essentials of HVAC</td>
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</tr>
<tr>
<td>HVC 210</td>
<td>Cooling &amp; Heating Systems 1</td>
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</tr>
<tr>
<td>HVC 211</td>
<td>Cooling &amp; Heating Systems 1 &amp; 2B</td>
<td>5</td>
</tr>
<tr>
<td>HVC 212</td>
<td>Cooling &amp; Heating Systems 2A &amp; NATE Prep</td>
<td>5</td>
</tr>
<tr>
<td>HVC 220</td>
<td>Green HVAC</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS** 28

## INDUSTRIAL POWER & CONTROL TECHNOLOGY

See Sustainable & Conventional Energy & Control Technology on page 123.

## INFORMATION TECHNOLOGIES

Business, Engineering & Information Technologies Division  
(206) 934-3730

In addition to certificates and degrees in IT Controlled Electronic Systems and Network Infrastructure & Security Support Specialist, North’s IT Department offers short-term certificates in these areas: Computer Maintenance Fundamentals; Computer Maintenance with Networking; CISCO Certified Network Associate; and Microsoft Windows. Contact the Division for further information.

### IT Controlled Electronic Systems

The two-year degree program focuses on the skills needed to install, maintain and monitor information technology systems and IT-controlled electronic systems such as security systems, entertainment systems and HVAC systems. Courses cover electronics computer networking and customer service skills.

The one-year certificate is intended for students who already have a 2- or 4-year degree or experience in the field. It is designed for students who are interested in pursuing employment in the IT-controlled Electronics Systems field as an applications engineer or technician.
Certificate

PREREQUISITE
IT 101 Software Applications* ............... 5
*or permission

TECHNICAL SPECIALTY COURSES
BUS 118 Project Management Introduction & Overview ............... 5
BUS 236 Interpersonal Communication for the Workplace ............... 5
EET 131 IT Essentials – A+ Certification ............... 5
EET 136 Intro to Robotics ............... 5
EET 160 Intro to Electricity & Electronics ............... 5
EET 161 DC Principles of Electronics ............... 5
Choose one track:
Windows:
IT 122 Network OS 1 – Windows Client OS ............... 5
IT 126 Network OS 3 – Windows Network Infrastructure ............... 5
-CISCO:
IT 142 Network Management – CISCO I ............... 5
IT 144 Network Management – CISCO II ............... 5
IT 146 Network Management – CISCO III ............... 5
-Unix:
IT 135 Intro to UNIX ............... 5
IT 138 UNIX for network Administration ............... 5
TOTAL CREDITS 35-40

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

TECHNICAL SPECIALTY COURSES
EET 131 IT Essentials I – A+ Certification ............... 5
EET 132 IT Essentials II – A+ Certification - Advanced ............... 5
EET 136 Intro to Robotics ............... 5
EET 160 Intro to Electricity & Electronics ............... 5
EET 161 DC Principles of Electronics ............... 5
EET 163 Solid State Electronics ............... 5
EET 165 Analog Circuits & Devices I ............... 5
EET 166 Analog Circuits & Devices II ............... 5
IT 122 Network OS 1 – Windows Client OS ............... 5
IT 126 Network OS 3 – Windows Network Infrastructure ............... 5
IT 135 Intro 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
TOTAL CREDITS 40

RELATED INSTRUCTION
BUS 236 Interpersonal Communication for the Workplace ............... 5
EET 109 Mathematical Applications for Circuit Analysis ............... 5
ENGL& 101 English Composition I ............... 5

GENERAL EDUCATION COURSES
Select 5 credits from a list of approved Multicultural, U.S. Cultures/Global Studies courses. Contact the division office.
TOTAL CREDITS 90

Network Infrastructure & Security Support Specialist
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.

Certificate

PREREQUISITE
EET 131 IT Essentials – A+ Certification ............... 5

TECHNICAL SPECIALTY COURSES
IT 101 Software Applications ............... 5
IT 102 Intro to Programming ............... 5
IT 122 Network OS 1 – Windows Client OS ............... 5
IT 124 Network OS 2 – Windows Server ............... 5
IT 128 Network OS 3 – Windows Active Directory ............... 5
IT 135 Intro to UNIX ............... 5
IT 142 Network Management – CISCO I ............... 5
IT 144 Network Management – CISCO II ............... 5
IT 146 Network Management – CISCO III ............... 5
TOTAL CREDITS 40

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

TECHNICAL SPECIALTY COURSES
IT 101 Software Applications ............... 5
IT 102 Intro to Programming ............... 5
IT 122 Network OS 1 – Windows Client OS ............... 5
IT 124 Network OS 2 – Windows Server ............... 5
IT 128 Network OS 3 – Windows Active Directory ............... 5
IT 135 Intro 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

TECHNICAL ELECTIVES
See advisor.
RELATED INSTRUCTION

<table>
<thead>
<tr>
<th>Course</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>BUS 118</td>
<td>Product Management Introduction &amp; Overview</td>
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<tr>
<td>BUS 236</td>
<td>Interpersonal Communication for the Workplace</td>
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<tr>
<td>EET 109</td>
<td>Mathematical Applications for Circuit Analysis</td>
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<tr>
<td>EET 131</td>
<td>IT Essentials – A+ Certification</td>
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<tr>
<td>EET 132</td>
<td>IT Essentials – A+ Certification (Advanced)</td>
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<tr>
<td>ENGL&amp; 101</td>
<td>English Composition I.</td>
<td>5</td>
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</table>

GENERAL EDUCATION COURSES 5

Select 5 credits from a list of approved Multicultural, U.S. Cultures/Global Studies courses. Contact the division office.

TOTAL CREDITS 90

INTERNATIONAL TRADE

Business, Engineering & Information Technologies Division (206) 934-3730

The International Trade Certificate leads to entry-level positions requiring knowledge of international business, including logistics, supply chain management, freight forwarding, port and trade operations and distribution networks. Career professionals and those interested in moving into the international field from other industries focus on current real-world, real-time events and developments in international trade.

Certificate

TECHNICAL SPECIALTY COURSES

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<tr>
<td>BUS 215</td>
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<td>BUS 245</td>
<td>Global Marketing</td>
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<tr>
<td>IBN 203</td>
<td>International Trade: Export</td>
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</tr>
<tr>
<td>IBN 205</td>
<td>International Trade: Export</td>
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<tr>
<td>BUS 225</td>
<td>Global Logistics</td>
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<td>CWE 101</td>
<td>Portfolio, Job Search &amp; Interviewing</td>
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<tr>
<td>CWE 110</td>
<td>Internship</td>
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</table>

TOTAL CREDITS 24

INTERNSHIPS

Business, Engineering and Information Technology (206) 934-3730

Internships provide opportunities to earn college credit while gaining practical, “hands on” work experience in their field of study. The Internship Program consists of CWE 101 “Portfolios, Job Search and Interviewing” and CWE 110 “Internships.” CWE 101 is a 2-credit course designed to assist students in developing an internship, and CWE 110 provides 3 credits for the actual internship itself. For more information regarding the Internship program at North, please contact the Internship Office directly.

MEDICAL ASSISTING

Health & Human Services Division

(206) 934-3790

northseattle.edu/health/medasst/

The Medical Assisting program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP, 1361 Park St., Clearwater, FL 33756), on recommendation of the Curriculum Review Board of the American Association of Medical Assistants’ Endowment (AAMAE). Graduates of this program are also eligible for the Washington State Health Care Assistant (HCA) certificate at levels A, C and E, obtainable through an employer. State certification does NOT constitute a “certified” medical assistant. The CMA credential is obtained through a national exam (see the program advisor for details).

The Medical Assisting options are all open-entry/open-exit, self-paced, variable-length. Each program option combines traditional instruction with computer- and text-assisted and individualized learning appropriate to student needs. Students must practice hands-on procedures, take exams and complete competency check-offs in the classroom with an instructor. Instructors, classrooms and equipment are available during scheduled hours. Students are encouraged to establish a regular schedule each quarter to foster successful completion of as much work as possible at the college where instructional assistance is available.

Students will have additional expenses other than the fees charged by the college. A separate list is available from the medical assisting program coordinator.

It is possible to earn an Allied Health A.A.S. degree with a Medical Assisting Certificate as a base, by completing General Education courses and additional electives. See further information under Allied Health, page 102.

PREREQUISITES FOR MEDICAL ASSISTING AND ALL MEDICAL ASSISTING PROGRAM OPTIONS

Courses must be taken within the last 10 years of application date or the COMPASS test is required. Contact the Testing Center.

General Prereq: 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.
### Professional-Technical Programs North Seattle Community College 2012-2014 Catalog

#### PREREQUISITES

<table>
<thead>
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<th>Course</th>
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<td>ENGL&amp; 101</td>
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<td>ENGL&amp; 230</td>
<td>Technical Writing</td>
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<td>BUS 169</td>
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<tr>
<td>IT 101</td>
<td>Software Applications</td>
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#### TECHNICAL SPECIALTY COURSES

- **Certificate**

- **TECHNICAL SPECIALTY COURSES**

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<th>Course</th>
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<td>AMA 102</td>
<td>Legal Concepts</td>
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<td>AMA 104</td>
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<td>AMA 105</td>
<td>Asepsis &amp; Infection Control</td>
<td>1</td>
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<td>AMA 106</td>
<td>Patient History, Documentation</td>
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<td></td>
<td>&amp; Physical Exam</td>
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<td>Vital Signs &amp; Measurements</td>
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<tr>
<td>AMA 108</td>
<td>Nutrition &amp; Development Basics</td>
<td>1</td>
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<tr>
<td>AMA 109</td>
<td>Pharmacology</td>
<td>1</td>
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<td>AMA 110</td>
<td>Intro to Lab Safety</td>
<td>1</td>
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<td>AMA 112</td>
<td>Credentials &amp; Employment</td>
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<td>AMA 114</td>
<td>Basic Psychology Principles</td>
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<td>AMA 116</td>
<td>Principles of IV Therapy</td>
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<td>AMA 120</td>
<td>Front Office Basics</td>
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<td>AMA 122</td>
<td>Medical Records &amp; Correspondence</td>
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<td>AMA 123</td>
<td>Daily Financial Management</td>
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<td>AMA 125</td>
<td>Intro to Medical Records &amp; Correspondence</td>
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<td>AMA 170</td>
<td>AP/Terminology/Pathology 1 Intro</td>
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<td>AP/Terminology/Pathology 2 Skin &amp; Senses</td>
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<td>AMA 172</td>
<td>AP/Terminology/Pathology 3 Digestive System</td>
<td>1</td>
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<td>AP/Terminology/Pathology 4 Male Reproductive &amp; Urinary Systems</td>
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<td>AP/Terminology/Pathology 5 Female Reproductive System</td>
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<td>AMA 175</td>
<td>AP/Terminology/Pathology 6 Nervous System</td>
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<td>AMA 176</td>
<td>AP/Terminology/Pathology 7 Endocrine System</td>
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<td>AP/Terminology/Pathology 8 Musculoskeletal System</td>
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<td>AP/Terminology/Pathology 10 Respiratory System</td>
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<td>AP/Terminology/Pathology 11 Blood &amp; Lymph Systems</td>
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<td>AMA 181</td>
<td>AP/Terminology/Pathology 12 Specialty Topics</td>
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<td>AMA 226</td>
<td>Medical Insurance Coding I</td>
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<td>AMA 227</td>
<td>Medical Insurance Billing</td>
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<td>GYN/Pediatrics</td>
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<td>Exams by Body Systems</td>
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<tr>
<td>AMA 243</td>
<td>Rehabilitation</td>
<td>1</td>
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<td>AMA 244</td>
<td>Intro to Imaging</td>
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<td>AMA 245</td>
<td>Minor Surgery</td>
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<td>AMA 246</td>
<td>Patient Prioritizing &amp; Instruction</td>
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<td>AMA 250</td>
<td>Medication Calculations &amp; Administration</td>
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<td>AMA 251</td>
<td>EKG</td>
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<td>2</td>
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<td>AMA 253</td>
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<td>AMA 255</td>
<td>Basic Microbiology</td>
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<td>AMA 256</td>
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<tr>
<td>AMA 290</td>
<td>Medical Assisting Externship*</td>
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#### RELATED INSTRUCTION

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>BUS 236</td>
<td>Interpersonal Communications for the Workplace**</td>
<td>5</td>
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</table>

**TOTAL CREDITS**

70

*All program courses must be successfully completed prior to taking the externship course.

**BUS 236 is a non-modular (not self-study) course, but is required for the program.

### Clinical Lab Assisting

An option of the Medical Assisting program, this program is intended to prepare the student for clinical laboratory entry-level positions such as phlebotomist or clinical lab assistant. Students study basic anatomy and physiology, medical terminology and pathology, lab safety, regulations/legal requirements, specimen collection and preparation, phlebotomy, various ‘CLIA-waived’ tests and 7 hours of HIV/AIDS. Students perform phlebotomy and lab testing procedures in the classroom. This is an open-entry/open-exit, self-paced, variable-length program. See page 113 for explanation.

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 Office Administration

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. See page 113 for explanation.

Students will have additional expenses other than the fees charged by the college. A separate list is available from the medical assisting program coordinator.

Certificate

TECHNICAL SPECIALTY COURSES

AHM 124 Intro to Medical Transcription ............................... 1
AMA 100 Intro to Healthcare ............................................. 1
AMA 101 Communications in Healthcare .............................. 1
AMA 102 Legal Concepts .................................................. 1
AMA 103 Ethical Concepts .................................................. 1
AMA 104 Office Emergencies ............................................. 2
AMA 105 Asepsis & Infection Control .................................. 1
AMA 106 Patient History, Documentation & Physical Exam .... 1
AMA 107 Vital Signs & Measurements .................................. 1
AMA 112 Credentials & Employment .................................. 1
AMA 114 Basic Psychology Principles ................................ 1
AMA 115 HIV/AIDS .......................................................... 1
AMA 120 Front Office Basics ............................................. 1
AMA 121 Patient Scheduling .............................................. 1
AMA 122 Medical Records & Correspondence ...................... 1
AMA 125 Intro to Medical Insurance & Coding .................... 2
AMA 170 AP/Terminology/Pathology - Intro ......................... 2
AMA 171 AP/Terminology/Pathology 2 Skin & Senses .............. 1
AMA 172 AP/Terminology/Pathology 3 Digestive System ......... 1
AMA 173 AP/Terminology/Pathology 4 Male Reproductive & Urinary Systems .......................... 1
AMA 174 AP/Terminology/Pathology 5 Female Reproductive System ............................................ 1
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 . 1
AMA 178 AP/Terminology/Pathology 9 Cardiovascular System . 1
AMA 179 AP/Terminology/Pathology 10 Respiratory System ... 1
AMA 180 AP/Terminology/Pathology 11 Blood & Lymph Systems ............................................. 1
AMA 181 AP/Terminology/Pathology 12 Specialties ............... 1
AMA 252 Phlebotomy ....................................................... 2
AMA 253 Hematology ...................................................... 1
AMA 254 Urinalysis ......................................................... 1
AMA 255 Basic Microbiology ............................................. 1
AMA 256 Lab Tests & Chemistry ......................................... 1

RELATED INSTRUCTION

BUS 236 Interpersonal Communications for the Workplace* .................................................. 5

TOTAL CREDITS 46

* BUS 236 is a non-modular (not self-study) course, but is required for the program.
Basic Medical Reception

An option of the Medical Assisting program, this program prepares the student for entry-level positions such as front desk, receptionist or file clerk. Instruction includes safety, hygiene, communication, computation, professionalism, work habits and job search skills.

This is an open-entry/open-exit, self-paced, variable-length program. See page 113 for explanation.

Students will have additional expenses other than the fees charged by the college. A separate list is available from the medical assisting program coordinator. Program prerequisite: Completion of Medical Terminology.

Certificate

TECHNICAL SPECIALTY COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
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<td>AMA 106</td>
<td>Patient History, Documentation &amp; Physical Exam</td>
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<td>AMA 112</td>
<td>Credentials &amp; Employment</td>
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<td>AMA 115</td>
<td>Basic Psychology Principles</td>
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<td>Front Office Basics</td>
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<tr>
<td>AMA 125</td>
<td>Intro to Medical Insurance &amp; Coding</td>
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TOTAL CREDITS: 21

* BUS 236 is a non-modular (not self-study) course, but is required for the program.

Medical Fundamentals for Clinical Research Professionals

An option of the Medical Assisting program, this program is for people who are already in the clinical research field. Instruction covers safety, hygiene, communication, computation, professionalism, work habits, and job search skills. This is an open-entry/open-exit, self-paced, variable-length program. See page 113 for explanation.

Prerequisites:

Completion of Medical Terminology and Anatomy and Physiology. Both standard courses or the modules offered by the Medical Assisting program may qualify.

Certificate

TECHNICAL SPECIALTY COURSES

<table>
<thead>
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<td>AHM 117</td>
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<td>AHM 118</td>
<td>Intro to Patient History, Documentation, &amp; Medical Records</td>
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<td>AHM 151</td>
<td>OB/GYN/Pediatric Theory</td>
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<td>AHM 152</td>
<td>Theory of Exams by Body Systems</td>
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<td>AHM 153</td>
<td>Theory of Medication Calculation &amp; Administration</td>
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<td>AHM 154</td>
<td>EKG Theory</td>
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<td>AHM 155</td>
<td>Phlebotomy Theory</td>
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<td>AMA 107</td>
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<td>AMA 241</td>
<td>Male Reproductive System/Gerontology</td>
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<td>AMA 244</td>
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<td>AMA 253</td>
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<td>AMA 255</td>
<td>Basic Microbiology</td>
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<tr>
<td>AMA 256</td>
<td>Lab Tests &amp; Chemistry</td>
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TOTAL CREDITS: 16

Health Care Assistant Preparation

northseattle.edu/health/medasst/mhcare.htm
www.wssma.org/hcalaw.php

An option of the Medical Assisting program, this program is for working Medical Assistants only. Instruction covers safety, hygiene, communication, computation, professionalism, work habits and job search skills. This is an open-entry/open-exit, self-paced, variable-length program. See page 113 for explanation.

Nine hundred hours of formal education at the post secondary level must be completed. The following courses, as well as medical terminology and anatomy and physiology, are all required to qualify for HCA levels A, C, & E.
### Certificate

#### TECHNICAL SPECIALTY COURSES

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<tr>
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<th>Course Name</th>
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<td>AMA 109</td>
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<td>AMA 110</td>
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<td>AMA 115</td>
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<td>AMA 250</td>
<td>Medication Calculations &amp; Administration</td>
<td>2</td>
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<td>AMA 252</td>
<td>Phlebotomy</td>
<td>2</td>
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<tr>
<td>AMA 255</td>
<td>Basic Microbiology</td>
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</table>

**TOTAL CREDITS:** 9

### Nanotechnology

**Mathematics & Sciences Division**  
(206) 934-3746

Nanotechnology applies scientific and engineering principles to make new materials and observe structures by controlling matter on the nanoscale: That is 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.

#### 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 AAS-T degree in nanotechnology.

#### Prerequisites:

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

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

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<th>Course Name</th>
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<tr>
<td>CHEM&amp; 131</td>
<td>Intro to Organic &amp; Bio-Chemistry</td>
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<tr>
<td>CSC 111</td>
<td>Computers for Math &amp; Science</td>
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<td>CWE 101</td>
<td>Portfolio, Job Search &amp; Interviewing</td>
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</tr>
<tr>
<td>CWE 110</td>
<td>Internship</td>
<td>3</td>
</tr>
<tr>
<td>EET 160</td>
<td>Intro to Electricity &amp; Electronics</td>
<td>5</td>
</tr>
<tr>
<td>MSC 101</td>
<td>Materials Science</td>
<td>5</td>
</tr>
<tr>
<td>NANO 101</td>
<td>Introduction to Nanotechnology</td>
<td>5</td>
</tr>
<tr>
<td>NANO 220</td>
<td>Nano/Microfabrication</td>
<td>5</td>
</tr>
<tr>
<td>NANO 230</td>
<td>Nano/Micro Characterization, Packaging and Testing</td>
<td>5</td>
</tr>
<tr>
<td>NANO 250</td>
<td>Capstone/Practicum 2</td>
<td>5</td>
</tr>
<tr>
<td>PHYS&amp; 121</td>
<td>General Physics I</td>
<td>5</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS:** 35

### 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 multi-disciplinary design of this program will provide graduates with the skills to enter a wide range of materials-based industries.

#### Prerequisites:

To begin the program, students must test into ENGL& 099 or higher and into MATH& 098 or higher.

#### GENERAL EDUCATION/REQUIREMENTS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL&amp; 101</td>
<td>English Composition</td>
<td>5</td>
</tr>
<tr>
<td>MATH&amp; 141</td>
<td>Precalculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH&amp; 142</td>
<td>Precalculus II</td>
<td>5</td>
</tr>
<tr>
<td>MATH&amp; 151</td>
<td>Calculus I</td>
<td>5</td>
</tr>
</tbody>
</table>

#### TECHNICAL & RELATED INSTRUCTION

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL&amp; 160</td>
<td>General Biology w/Lab</td>
<td>5</td>
</tr>
<tr>
<td>BIOL&amp; 211</td>
<td>Majors Cellular</td>
<td>5</td>
</tr>
<tr>
<td>BUS 210</td>
<td>Business and Economics Statistics</td>
<td>5</td>
</tr>
<tr>
<td>CHEM&amp; 121</td>
<td>Intro to Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM&amp; 131</td>
<td>Intro to Organic &amp; Bio-Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CSC 110</td>
<td>Intro to Computer Programming</td>
<td>5</td>
</tr>
<tr>
<td>CWE 101</td>
<td>Portfolio, Job Search &amp; Interviewing</td>
<td>2</td>
</tr>
<tr>
<td>CWE 110</td>
<td>Internship</td>
<td>3</td>
</tr>
<tr>
<td>EET 160</td>
<td>Intro to Electricity &amp; Electronics</td>
<td>5</td>
</tr>
<tr>
<td>MSC 101</td>
<td>Materials Science</td>
<td>5</td>
</tr>
<tr>
<td>NANO 101</td>
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<td>5</td>
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<tr>
<td>NANO 220</td>
<td>Nano/Microfabrication</td>
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<tr>
<td>NANO 250</td>
<td>Capstone/Practicum 2</td>
<td>5</td>
</tr>
<tr>
<td>PHYS&amp; 121</td>
<td>General Physics I</td>
<td>5</td>
</tr>
</tbody>
</table>
NURSING

Health & Human Services Division
(206) 934-3790
northseattle.edu/health/pracnurs/

Nursing Assistant-Certified

This one-quarter program prepares students for the state certification examination for an entry-level position in the health care field. The courses cover theory, 104 hours of laboratory/clinical experience, CPR/AED and First Aid for the health care provider. Contact the Health and Human Services division office for entry requirements and application procedures. This program also has an I-BEST option.

CERTIFICATE

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 105 CPR &amp; First Aid for the Healthcare Provider</td>
<td>2</td>
</tr>
<tr>
<td>NUR 107 Nursing Assistant-Certified</td>
<td>12</td>
</tr>
</tbody>
</table>

TOTAL CREDITS 14

Nursing, Practical (LPN)

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 outpatient 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.

NOTE: If a student is in good standing (successful completion of all first and second quarter courses) at the start of the 3rd quarter and has fulfilled all LPN to RN prerequisites or will complete by the end of the 4th quarter of the LPN program, the student can request to be admitted directly into the LPN to RN Ladder program following the 4th quarter of the LPN program.

It is possible to earn an Allied Health A.A.S. degree with the License Practical Nursing Certificate as a base, by completing General Education courses and additional electives. See further information under Allied Health, page 102

PROGRAM PREREQUISITES

MATH requirement: COMPASS 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 or AHE 103 Math for Health Careers or within 7 years of application date.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL&amp; 241 Human Anatomy &amp; Physiology I*</td>
<td>5</td>
</tr>
<tr>
<td>BIOL&amp; 242 Human Anatomy &amp; Physiology II*</td>
<td>5</td>
</tr>
<tr>
<td>ENGL&amp; 101 English Composition I</td>
<td>5</td>
</tr>
<tr>
<td>PSYC&amp; 200 Lifespan Psychology</td>
<td>5</td>
</tr>
</tbody>
</table>

TOTAL PREREQUISITES MINIMUM 20

*BIOL& 241 AND 242 and Math requirement must be taken within 7 years of application date. All prerequisites must be completed with a minimum 2.8 grade or higher.

STRONGLY RECOMMENDED ADDITIONAL PREREQUISITES:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHI 100 Intro to Medical Vocabulary</td>
<td>3</td>
</tr>
<tr>
<td>AHE 103 Math for Health Careers</td>
<td>3</td>
</tr>
</tbody>
</table>

ADDITIONAL COURSES REQUIRED FOR PROGRESSION TO LPN TO RN LADDER PROGRAM:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL&amp; 260 Microbiology*</td>
<td>5</td>
</tr>
<tr>
<td>CHEM&amp; 121 Intro to Chemistry</td>
<td>5</td>
</tr>
</tbody>
</table>

COREQUISITES:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 109 Elementary Statistics</td>
<td>5</td>
</tr>
<tr>
<td>NTR 150 Human Nutrition</td>
<td>5</td>
</tr>
<tr>
<td>US Cultures &amp; Global Studies</td>
<td>5</td>
</tr>
</tbody>
</table>

* Must be taken within 7 years of application date.

Certificate

TECHNICAL SPECIALTY COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 115 Intro to Patient Care</td>
<td>2</td>
</tr>
<tr>
<td>NUR 116 Nursing Fundamentals</td>
<td>6</td>
</tr>
<tr>
<td>NUR 117 Nursing Fundamentals – Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>NUR 118 Clinical Nursing Skills I*</td>
<td>2</td>
</tr>
<tr>
<td>NUR 119 Clinical Nursing Skills II*</td>
<td>1</td>
</tr>
<tr>
<td>NUR 126 Role of the LPN*</td>
<td>3</td>
</tr>
<tr>
<td>NUR 127 Medical/Surgical Nursing – Child/Adult I</td>
<td>6.5</td>
</tr>
<tr>
<td>NUR 128 Medical/Surgical Nursing – Child/Adult II</td>
<td>6</td>
</tr>
<tr>
<td>NUR 130 Critical Thinking in Nursing Practice</td>
<td>2</td>
</tr>
<tr>
<td>NUR 131 Clinical Nursing Practice I*</td>
<td>3.5</td>
</tr>
<tr>
<td>NUR 133 Family Nursing Theory</td>
<td>1.5</td>
</tr>
<tr>
<td>NUR 134 Family Nursing Clinical</td>
<td>1.5</td>
</tr>
<tr>
<td>NUR 139 Transition to LPN Practice</td>
<td>4</td>
</tr>
<tr>
<td>NUR 141 Clinical Nursing Practice II*</td>
<td>2</td>
</tr>
<tr>
<td>NUR 154 Intravenous Therapy Skills*</td>
<td>1</td>
</tr>
</tbody>
</table>

TOTAL CREDITS 44
**Nursing: Associate of Applied Science – T Degree**

North Seattle Community College’s LPN-to-RN Ladder program provides an option for LPNs to complete coursework for a 3-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.

**PREREQUISITES**

**MINIMUM OF 35 CREDITS FROM AN ACCREDITED PRACTICAL NURSING PROGRAM** 35

**TECHNICAL SPECIALTY COURSES** 36

- NUR 223 Advanced Nursing Skills I .................. 2
- NUR 224 Health Promotion & Education in Nursing ............. 2
- NUR 225 Family Nursing .................................. 6
- NUR 226 Care Management & Leadership in Nursing ............. 2
- NUR 227 Complex Medical Surgical Psychiatric Nursing ............ 7
- NUR 228 Complex Medical Surgical Psychiatric Nursing Clinical ........ 5
- NUR 231 Family Nursing Clinical .......................... 4
- NUR 237 Advanced Medical Surgical Nursing Care ............... 3
- NUR 238 Transition to Registered Nursing Practice ............. 5

**GENERAL EDUCATION & RELATED INSTRUCTION REQUIREMENTS** 45

- BIOL& 241 Human Anatomy & Physiology I* ............... 5
- BIOL& 242 Human Anatomy & Physiology II* ............. 5
- BIOL& 260 Microbiology* .................................. 5
- CHEM 121 Intro to Chemistry .............................. 5
- ENGL& 101 English Composition I. ....................... 5
- PSYC& 200 Lifespan Psychology ......................... 5

**COREQUISITES:**

- MATH 109 Elementary Statistics ....................... 5
- NTR 150 Human Nutrition ................................ 5
- U.S. Cultures or Global Studies** ..................... 5

Corequisites may be taken while in the Nursing Program; however, all corequisites must be completed before eligibility for the AAS-T Degree in Nursing and RN NCLEX needed for RN licensure.

- * BIOL& 241, 242 and BIOL& 260 must be taken within seven years of application date.
- ** Students may choose from either category.

---

**PARENT EDUCATION**

Health & Human Services 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 1–4 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 experiences.

**PHARMACY TECHNICIAN**

Health & Human Services Division  
(206) 934-3790  
northseattle.edu/health/phtech/

Pharmacy technicians support pharmacists, who are legally responsible for all prescription orders and drug dispensing. The program emphasizes knowledge, skills and the varied responsibilities of the pharmacy technician. Students completing program requirements earn a certificate and are eligible to take the national certification exam, and apply to the Washington State Board of Pharmacy for a certificate to practice as a Pharmacy Technician. Graduates are employed in hospitals, home infusion, long-term care, independent and chain community pharmacies, out-patient clinics, insurance carriers and pharmacy software companies. Employment opportunities have remained strong in this health service occupation since
its inception in 1975. Applicants should contact the division office regarding enrollment and current information. The program begins in Fall and Spring.

It is possible to earn an Allied Health A.A.S. degree with a Pharmacy Technician Certificate base, by completing General Education courses and additional electives. See further information under Allied Health, page 102.

Certificate

TECHNICAL SPECIALTY COURSES
AHI 100 Intro to Medical Vocabulary ....................... 3
PHA 112 Pharmacy Law .................................. 2
PHA 115 Orientation to Pharmacy Practice .................. 2
PHA 116 HIV/AIDS & HIPAA .......................... 1
PHA 120 Pharmacy Calculations .......................... 3
PHA 130 Over-the-Counter Drugs .......................... 2
PHA 140 Sterile Products & Aseptic Technique I ............... 2
PHA 141 Sterile Products & Aseptic Technique II .......... 2
PHA 145 Pharmacy Ethics .............................. 1
PHA 146 Communications in Pharmacy Practice .......... 2
PHA 150 Pharmacology I ............................... 3
PHA 151 Pharmacology II ............................... 3
PHA 160 Pharmacy Technology I .......................... 3
PHA 161 Pharmacy Technology II ........................ 2
PHA 170 Pharmacy Records Management .................. 4
PHA 190 Pharmacy Technician Externship ............... 13
PHA 191 Job Skills & National Exam Prep .................. 1
TOTAL CREDITS 49

Associate of Applied Science Degree (A.A.S.)
Completion of Certificate Requirements .................. 49

COMMUNICATIONS COURSES 5
Any approved College Level Communication Course (CMST) ........ 5

GENERAL EDUCATION COURSES 20
BUS 236 Interpersonal Communications in the Workplace .............. 5
Any approved College-level Computation or Q Course ...... 5
Any approved US Cultures or Global Studies Course .... 5
Any approved Living World or other Approved Course .... 5

ELECTIVES 16
Any college level electives ................................ 16
TOTAL CREDITS 90

PHLEBOTOMIST CERTIFICATE (I-BEST)

Health & Human Services Division
(206) 934-3790
This 2-quarter program is an I-BEST option that provides both basic education and workforce skills. Students who successfully complete the certificate are prepared to work as phlebotomists in clinical workplaces. Upon successful completion of the program, students will earn a Certificate of Completion from the Health and Human Services Division. Contact division for additional information. All students must attend an information session.

PREREQUISITES
English placement documentation: CASAS 230 minimum score, Reading and Listening, within last 3 years or COMPASS English placement test 40 minimum score, Reading (within last 3 years) or college transcript for ENGL 097/098 or equivalent.

AHE 118 Intro to Phlebotomy 1 .......................... 5
AHE 119 Intro to Phlebotomy 2 .......................... 7
TOTAL CREDITS 12

PROJECT MANAGEMENT

Business, Engineering & Information Technologies
(206) 934-3730
www.northseattle.edu/business/projman.htm
This program is designed for current and future business professionals who need to understand project management principles, may be part of a project team, or simply need to enhance their business skills. Students develop and manage project activities, resources and costs to meet project schedules and budgets. They also learn to produce a work plan including building and maintaining the project team, defining project scope and deliverables, and anticipating risks.

Contact the division office for enrollment and current information. The program begins in Fall and Winter quarters.

PREREQUISITES:
BUS 236, BUS 169 or IT 101

Certificate

TECHNICAL SPECIALTY COURSES
BUS 118 Project Management Intro & Overview ........... 5
BUS 119 Leadership and Management Skills ............... 3
BUS 229 Project Management Tools, Techniques, Control 5
ENGL& 230 Technical Writing ............................ 3
CWE 110 Internship .......................................... 3
TOTAL 19

*Must be eligible for ENGL& 101 through Placement Exam or complete ENGL 097/098.
REAL ESTATE

Business, Engineering & Information Technologies Division
(206) 934-3730
northseattle.edu/res

North Seattle’s Real Estate program prepares students for work in Residential and Commercial Real Estate Sales and Brokerage, Appraising, Property Management, Green Real Estate, Escrow, Finance, Investment and Home Inspection 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.

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

TECHNICAL SPECIALTY COURSES
RES 100 Real Estate Fundamentals ............... 5
RES 101 Technology for Real Estate ............... 5
RES 106 Real Estate Fraud ...................... 1
RES 110 Intro to Commercial Real Estate ........... 3
RES 125 Real Estate Math* ..................... 2
-OR-
MATH& 107 Math In Society .................... 5
-OR-
MATH 116 Applications of Math to Management,
Life & Social Sciences ...................... 5
RES 130 Green Real Estate ...................... 3
RES 140 Real Estate Sales Practice ............. 3
RES 141 Land Use Principles & Practice .......... 3
RES 142 Inspecting the Condition of Real Estate .... 3
RES 150 Residential Sales & Leasing Documentation .. 1.5
RES 164 Real Estate Finance – Residential ........ 5
-OR-
RES 260 Real Estate Finance – Commercial .......... 2
RES 170 Real Estate Law ....................... 3
RES 175 Intro to Title ................................ 3
RES 177 Real Estate Taxes .................... 1.5
RES 180 Basic Appraisal Principles ............... 3
RES 190 Real Estate Escrow I .................... 3
RES 201 Principles of Real Estate Management .... 3
-OR-
RES 202 Multi-Family Property Management ....... 3
RES 203 Commercial Property Management ........ 3
RES 210 Residential Property Investments ........ 3
RES 217 Real Estate Development & Sustainability .. 3
RES 220 Real Estate Economics .................. 3
RES 235 Sales & Marketing ..................... 3
Real Estate Electives .......................... 13

Choose any non-required courses with RES prefix.

TOTAL CREDITS 73-78

RELATED INSTRUCTION
ACCT 215 Accounting for Small Business Owners ...... 3
-OR-
ACCT 110 Intro to Accounting/Bookkeeping I ........ 5
BUS 140 Customer Relations ........................ 5
BUS 236 Interpersonal Communication 
for the Workplace ................................ 5
Multicultural, U.S. Culture or Global Studies Elective** .... 5

TOTAL CREDITS 91.96

* Students may challenge by passing the RES 125 test and receive 2 credits.
** Select 5 credits from approved list. See Advising Center.

North Seattle Community College Real Estate

This certificate program gives a strong basic background in real estate. The completion of six real estate courses entitles the student to a certificate in real estate issued by the Washington Department of Licensing and by North Seattle Community College.

Certificate

TECHNICAL SPECIALTY COURSES
RES 100 Real Estate Fundamentals ............... 5
RES 101 Technology for Real Estate ............... 5
RES 164 Real Estate Finance – Residential ........ 5
-OR-
RES 260 Real Estate Finance – Commercial .......... 2
RES 170 Real Estate Law ....................... 3
RES 180 Basic Appraisal Principles ............... 3
RES 281 National USPAP Course ................ 1.5

TOTAL CREDITS 18.21

* Choose any course with the Real Estate prefix of RES.

Real Estate Appraisal Trainee

Certificate

TECHNICAL SPECIALTY COURSES
RES 100 Real Estate Fundamentals ............... 5
RES 101 Technology for Real Estate ............... 5
RES 106 Real Estate Fraud ...................... 1
RES 125 Real Estate Math* ..................... 2
RES 180 Basic Appraisal Principles ............... 3
RES 281 National USPAP Course ................ 1.5

TOTAL CREDITS 20.5

* Students may challenge by passing the RES 125 test.
### Commercial Real Estate Certificate

**TECHNICAL SPECIALTY COURSES**
- RES 141 Land Use Principles & Practice .................................. 3
- RES 217 Real Estate Development & Sustainability .................. 3
- RES 260 Real Estate Finance – Commercial ......................... 2
- RES 295 Commercial Real Estate Investment Analysis ............ 2
- RES Electives ........................................................................... 6

**TOTAL CREDITS** 16

### Commercial Real Estate and Investment Certificate

**TECHNICAL SPECIALTY COURSES**
- RES 110 Intro to Commercial Real Estate ............................. 3
- RES 125 Real Estate Math* .................................................. 2
- RES 141 Land Use Principles & Practice ............................ 3
- RES 170 Real Estate Law ................................................... 3
- RES 217 Real Estate Development & Sustainability ............ 3
- RES 220 Real Estate Economics ......................................... 3
- RES 260 Real Estate Finance – Commercial ..................... 2
- RES 295 Commercial Real Estate Investment Analysis ........ 2
- Approved Elective* ......................................................... 5

**TOTAL CREDITS** 26

*Choose 3 credits from approved list. See Advising Center.

### Real Estate Escrow Certificate

**TECHNICAL SPECIALTY COURSES**
- RES 100 Real Estate Fundamentals .................................. 5
- RES 106 Real Estate Fraud ................................................. 1
- RES 150 Residential Sales & Leasing Documentation ........ 1.5
- RES 170 Real Estate Law ................................................... 3
- RES 175 Intro to Title .......................................................... 3
- RES 190 Real Estate Escrow I ............................................. 3
- Approved Electives* ......................................................... 6

**TOTAL CREDITS** 22.5

*Choose any courses with RES prefix, or CWE 101 or CWE 110.

### Real Estate Loan Processor Certificate

**TECHNICAL SPECIALTY COURSES**
- RES 100 Real Estate Fundamentals .................................. 5
- RES 106 Real Estate Fraud ................................................. 1
- RES 125 Real Estate Math* .................................................. 2
- RES 140 Real Estate Sales Practice .................................. 3
- RES 142 Inspecting Real Estate ......................................... 3
- RES 175 Intro to Title .......................................................... 3
- RES 180 Basic Appraisal Principles .................................. 3
- RES 190 Real Estate Escrow I ............................................. 3
- RES 195 Residential Sales & Leasing Documentation ........ 1.5
- RES 164 Real Estate Finance – Residential ..................... 5
- RES 260 Real Estate Finance – Commercial ..................... 2
- RES 170 Real Estate Law ................................................... 3

**TOTAL CREDITS** 23.5

*Students may challenge by passing the RES 125 test.

### Real Estate Property Management Certificate

**TECHNICAL SPECIALTY COURSES**
- RES 100 Real Estate Fundamentals .................................. 5
- RES 101 Technology for Real Estate .................................. 5
- RES 120 Real Estate Principles of Maintenance & Repair ...... 1.5
- RES 170 Real Estate Law ................................................... 3
- Choose two from 201, 202, 203 or 204:
  - RES 201 Principles of Real Estate Management ............ 3
  - RES 202 Multi-Family Property Management ............. 3
  - RES 203 Commercial Property Management ............. 3
  - RES 204 Community Association Management .......... 3
  - RES 220 Real Estate Economics .................................. 3
- Approved Elective* ......................................................... 3

**TOTAL CREDITS** 26.5

*Choose any non-required RES course or BUS 140, 197, 131, 230, 236 or CWE 100.

### Real Estate Sales Certificate

**TECHNICAL SPECIALTY COURSES**
- RES 100 Real Estate Fundamentals .................................. 5
- RES 106 Real Estate Fraud ................................................. 1
- RES 125 Real Estate Math* .................................................. 2
- RES 140 Real Estate Sales Practice .................................. 3
- RES 142 Inspecting Real Estate ......................................... 3
- RES 175 Intro to Title .......................................................... 3
- RES 180 Basic Appraisal Principles .................................. 3
- RES 190 Real Estate Escrow I ............................................. 3
- RES 195 Residential Sales & Leasing Documentation ........ 1.5
- RES 164 Real Estate Finance – Residential ..................... 5
- RES 260 Real Estate Finance – Commercial ..................... 2
- RES 170 Real Estate Law ................................................... 3

**TOTAL CREDITS** 23.5

*Students may challenge by passing the RES 125 test.
Real Estate Sales (Advanced)
Certificate

TECHNICAL SPECIALTY COURSES
RES 100 Real Estate Fundamentals .......................... 5
RES 101 Technology for Real Estate .......................... 5
RES 106 Real Estate Fraud .................................... 1
RES 125 Real Estate Math * .................................. 2
RES 140 Real Estate Sales Practice .......................... 3
RES 142 Inspecting Real Estate .............................. 3
-OR-
RES 175 Intro to Title ..................................... 3
-OR-
RES 180 Basic Appraisal Principles .......................... 3
-OR-
RES 190 Real Estate Escrow I ............................... 3
RES 150 Residential Sales & Leasing Documentation .... 1.5
-OR-
RES 164 Real Estate Finance – Residential .............. 5
-OR-
RES 260 Real Estate Finance – Commercial .............. 2
RES 170 Real Estate Law ..................................... 3
TOTAL CREDITS 28.5

* Students may challenge by passing the RES 125 test.

APPROVED REAL ESTATE ELECTIVES
RES 100 Real Estate Fundamentals .......................... 5
RES 101 Technology for Real Estate .......................... 5
RES 120 Real Estate Principles of Maintenance & Repair .......................... 1.5
RES 130 Green Real Estate ................................... 3
RES 140 Real Estate Sales Practice .......................... 3
RES 142 Inspecting Real Estate .............................. 3
RES 150 Residential Sales & Leasing Documentation .... 1.5
RES 176 Using Tax-Deferred Exchanges .................. 1.5
RES 177 Real Estate Taxes ................................... 1.5
RES 178 Buyers Agency ...................................... 1.5
RES 180 Basic Appraisal Principles .......................... 3
RES 200 Seminar in Current Real Estate Issues .......... 5
RES 201 Principles of Real Estate Management .......... 3
RES 202 Multi-Family Property Management ............. 3
RES 203 Commercial Property Management .............. 3
RES 210 Residential Property Investments ................. 3
RES 217 Real Estate Development & Sustainability ....... 3
RES 225 Current Trends in Real Estate Market Analysis .. 1.5
RES 235 Sales & Marketing .................................. 3
RES 280 Commercial Real Estate: Marketing & Income . 3
RES 281 National USPAP ..................................... 1.5
RES 298 Special Projects/Internships ....................... 2.6
CWE 101 Portfolio, Job Search, & Interviewing .......... 2
CWE 110 Internship ........................................ 3

SUSTAINABLE & CONVENTIONAL ENERGY & CONTROL TECHNOLOGY

Business, Engineering & Information Technologies Division
(206) 934-3730

The Sustainable and Conventional Energy and Control Technology program offers a one-year certificate and a two-year Associate of Applied Science degree. 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.”

Certificate

TECHNICAL SPECIALTY COURSES
EEL 201 Energy Generation, Conversion & Sustainability .................................. 5
EEL 202 Industrial Motor Controls .................................. 5
EEL 203 Industrial Motor Drives .................................. 5
EET 109 Mathematical Applications For Circuit Analysis* .................................. 5
EET 114 Applied Physics* ........................................ 5
EET 161 DC Principles of Electronics .................................. 5
EET 162 AC Principles of Electronics .................................. 5
EET 163 Solid State Electronics ................................... 5
EET 165 Analog Circuits & Devices I .................................. 5
EET 170 Digital Circuits I ........................................ 5

RELATED INSTRUCTION
BUS 236 Interpersonal Communication For The Workplace* .................................. 5
CSC 110 Intro to Computer Programming* .................................. 5
ENGL& 230 Technical Writing ..................................... 3

TOTAL CREDITS 63

* These courses have acceptable substitutes.
See Advising Center.
Associate of Applied Science Degree (A.A.S.)

TECHNICAL SPECIALTY COURSES

EEL 201 Energy Generation, Conversion & Sustainability ................. 5
EEL 202 Industrial Motor Controls ........................................ 5
EEL 203 Industrial Motor Drives ............................................ 5
EET 105 Intro to Technology* .............................................. 3
EET 109 Mathematical Applications
  For Circuit Analysis* ..................................................... 5
EET 112 Fluid Power & Alternative Energy Systems .................... 5
EET 114 Applied Physics* .................................................... 5
EET 131 IT Essentials I – A+ Certification ............................. 5
EET 132 IT Essentials I – A+ Certification Advanced ................. 5
EET 135 Intro to Broadband ................................................ 5
EET 136 Intro to Robotics ..................................................... 5
EET 151 DC Principles of Electronics .................................... 5
EET 162 AC Principles of Electronics .................................... 5
EET 163 Solid State Electronics ........................................... 5
EET 165 Analog Circuits & Devices I ..................................... 5
EET 166 Analog Circuits & Devices II .................................... 5
EET 170 Digital Circuits I .................................................... 5
EET 171 Digital Circuits II ................................................... 5
EET 251 Microprocessor Fundamentals I ............................... 5
EET 252 Microprocessor Fundamentals II ............................... 5
EET 285 Electronics Technology Project* .............................. 3

RELATED INSTRUCTION

BUS 112 Multicultural Issues in the American Workplace * ........ 5
BUS 236 Interpersonal Communications
  For The Workplace * ..................................................... 5
CSC 110 Computer Programming * ......................................... 5
ENGL& 101 English Composition I ** .................................... 5

TOTAL CREDITS 121

* For acceptable substitutes, see Advising Center.
** While students must test into ENGL 093 to start the degree, they must complete ENGL& 101 to finish.

WATCH TECHNOLOGY INSTITUTE

Business, Engineering & Information Technologies Division
(206) 934-0169

This program is currently under review. Please contact the office for the most current information.

The Watch Technology Institute teaches watch repair, theory and practical applications. Faculty members have industry experience and are WOSTEP-certified trainers. After the successful completion of the program, students will qualify to take the American Watchmakers & Clockmakers Institute (AWCI) CW21 exams for certification. Contact the office for more information.

Rolex Watch USA, Inc. joined with North to create a state-of-the-art facility for North’s long-established watchmaking school, one of only a few partnership-training programs nationally and the only program on the West Coast.

The SAWTA curriculum is supported by Rolex Watch USA, Inc. to encourage the training of watchmakers in the U.S.

Certificate

TECHNICAL SPECIALTY COURSES

HIN 111 Watch Technology I – Intro .................................... 6
HIN 112 Watch Technology I – Tools, Equipment/Measurement .... 6
HIN 113 Watch Technology I – Practicum ............................ 10
HIN 121 Watch Technology II – Professional Knowledge ............ 6
HIN 122 Watch Technology II – The Watchmaker’s Lathe .......... 6
HIN 123 Watch Technology II – Practicum ............................ 10
HIN 131 Watch Technology III – Winding & Setting
  Mechanisms & Gear Trains .............................................. 6
HIN 132 Watch Technology III – Watch Gear Trains .................. 6
HIN 133 Watch Technology III – Practicum ............................ 10
HIN 141 Watch Technology IV – Escapements ......................... 4
HIN 142 Watch Technology IV – External Parts ....................... 4
HIN 143 Watch Technology IV – Practicum ............................ 8
HIN 211 Watch Technology V – Intro to Precision Timing ........... 6
HIN 212 Watch Technology V – Intro to Electronic Watches ....... 6
HIN 213 Watch Technology V – Practicum ............................. 10
HIN 221 Watch Technology VI – Precision Timing 2 ................ 6
HIN 222 Watch Technology VI – Automatic Watches ................. 6
HIN 223 Watch Technology VI – Practicum ............................. 10
HIN 231 Watch Technology VII – Advanced Precision Timing ...... 6
HIN 232 Watch Technology VII – Chronographs ..................... 6
HIN 233 Watch Technology VII – Practicum ............................ 10
HIN 241 Watch Technology VIII – After Sales & Service .......... 4
HIN 242 Watch Technology VIII – Review of Course ............... 4
HIN 243 Watch Technology VIII – Practicum .......................... 8

TOTAL CREDITS 164

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

Completion of Certificate Requirements .................................. 164

TECHNICAL SPECIALTY COURSES

ACCT 110 Intro to Accounting/Bookkeeping I .......................... 5
BUS& 101 Intro to Business .................................................. 5
CMST 185 Organizational Communication * ............................ 5
ENGL& 230 Technical Writing ............................................ 3
ENGL& 101 English Composition I ......................................... 5

* Satisfies 5 General Education requirements.

GENERAL EDUCATION COURSES

Multicultural, U.S. Cultures or Global Studies ........................... 5

TOTAL CREDITS 192