Shoreline Community College provides equal opportunity in education and employment and does not discriminate on the basis of race, color, religion, national origin, age, marital status, sexual orientation or disability.

This publication is available in alternate formats by contacting the Services for Students With Disabilities Office at (206) 546-5832 or (206) 546-4520 (TTY).

LIMITATION OF LIABILITY: The College's total liability for claims arising from a contractual relationship with the student in any way related to classes or programs shall be limited to the tuition and expenses paid by the student to the College for those classes or programs. In no event shall the College be liable for any special, indirect, incidental, or consequential damages, including but not limited to, loss of earnings or profits.
A MESSAGE FROM THE PRESIDENT

At Shoreline, every student counts…

Dear Students:

A college education can open the door to a brighter future. For over 40 years, Shoreline Community College has helped students make decisions about their futures. We give them education to move into the workplace or on to a four-year university with the confidence and skills they need to succeed.

The college has worked hard to develop one of the most successful university transfer programs in the state. Each year, graduates of Shoreline Community College transfer smoothly to public and private four-year colleges and universities. What’s more, our graduates generally perform as well as the students who begin their college careers in the four-year schools.

Our professional/technical students graduate with the skills most in demand in today’s workplace. Their job placement rate is well over 90 percent. The average entry-level salary is $16 per hour, with many graduates earning much more.

SCC @ Lake Forest Park offers a wide array of information technology training, including A+ Service Technician, Network +, Microsoft Certified Systems Engineer and Oracle database administration and more.

Shoreline provides students with a technology-rich environment with a completely renovated library and 100-seat computer lab. We use technology to provide students with web registration, an online bookstore, and many new distance learning options.

This past year, we saw the economy produce many dislocated workers who began new careers by enrolling at SCC. Many others are preparing to enter the workforce for the first time. To help students prepare for college-level work, the college provides a rich program in basic skills, developmental education and English as a Second Language.

In the friendly, active and diverse environment of Shoreline Community College, every student counts. We invite you to visit our beautifully landscaped campus and learn more about the many exciting opportunities that await you.

With best wishes for your success,

Dr. Holly Moore
President
2005 – 2006 College Calendar

**FALL QUARTER 2005**

- Advising and Registration by Appointment for New Students: TBA
- Instruction Begins: September 29
- Veteran’s Day – Holiday: November 11
- Thanksgiving Day – Holiday: November 24-25
- Preparation Day (No Classes): December 12
- Winter Quarter Registration by Appointment for New Students: TBA
- Exam Days: December 13, 14, 15

**WINTER QUARTER 2006**

- Instruction Begins: January 9
- Martin Luther King Day – Holiday: January 15
- President’s Day – Holiday: February 20
- Preparation Day (No Classes): March 21
- Spring Quarter Registration by Appointment for New Students: TBA
- Exam Days: March 22, 23, 24

**SPRING QUARTER 2006**

- Instruction Begins: April 3
- Memorial Day – Holiday: May 29
- Commencement: June 11
- Preparation Day (No Classes): June 13
- Exam Days: June 14, 15, 16

**SUMMER QUARTER 2006**

- Registration for New Students: TBA
- Preparation Day (No Classes): June 26
- Independence Day – Holiday: July 4
- Fall Quarter Registration for New Students Begins: TBA
- Instruction and Exams End: August 17

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2006–2007 College Calendar

**FALL QUARTER 2006**

- Advising and Registration by Appointment for New Students: TBA
- Instruction Begins: September 28
- Veteran’s Day – Holiday: November 10
- Thanksgiving Day – Holiday: November 23-24
- Preparation Day (No Classes): December 11
- Winter Quarter Registration by Appointment for New Students: TBA
- Exam Days: December 12, 13, 14

**WINTER QUARTER 2007**

- Instruction Begins: January 8
- Martin Luther King Day – Holiday: January 15
- President’s Day – Holiday: February 19
- Preparation Day (No Classes): March 20
- Spring Quarter Registration by Appointment for New Students: TBA
- Exam Days: March 21, 22, 23

**SPRING QUARTER 2007**

- Instruction Begins: April 2
- Memorial Day – Holiday: May 28
- Commencement: June 10
- Preparation Day (No Classes): June 11
- Exam Days: June 12, 13, 14

**SUMMER QUARTER 2007**

- Registration for New Students: TBA
- Preparation Day (No Classes): June 25
- Independence Day – Holiday: July 4
- Fall Quarter Registration for New Students Begins: TBA
- Instruction and Exams End: August 16
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VISION
Shoreline will be recognized in the Puget Sound region, in the state of Washington, across the nation and internationally as an outstanding community college. Shoreline will be a dynamic center for life-long learning and cultural enrichment of the community.

MISSION
Shoreline Community College demonstrates dedication to student success by providing rich opportunities to learn, excellence in teaching and comprehensive support services, in close collaboration with its diverse community. Shoreline serves the community's lifelong educational and cultural needs.

STRATEGIC PLANNING
Shoreline employs a comprehensive strategic planning process in which the campus and community regularly review the college's vision, mission and core values and anticipate the future environment in which the college will operate. Based on this, Shoreline establishes and updates general strategic directions to guide the college's future and specific strategies for implementing the strategic directions. Annual reports are published to show the college's progress in accomplishing its strategic plan. To participate in the planning process or to receive a copy of the strategic plan or annual report, please contact the President's Office.
Shoreline Community College holds certain values that guide the college and endure through the changing environment in which it operates:

**Core Values**

**Academic Freedom**
Shoreline Community College values vigorous intellectual inquiry rooted in academic freedom and built on an open exchange of ideas and the development of knowledge.

**Access**
As a community college, Shoreline values open admission for all students regardless of their educational and socio-economic backgrounds.

**Collaboration**
Shoreline values cooperative partnerships and collaboration in decision making to improve the quality of decisions and to secure broad commitment to them.

**Diversity**
Shoreline values the dignity and worth of all persons and the respectful treatment of the diverse individuals who learn and work at the college.

**Environmental Responsibility**
Shoreline values the conservation of natural resources, improvement of the natural environment and creation of environmentally sustainable practices.

**Excellence**
Shoreline values excellence in all its endeavors.

**Innovation**
Shoreline values creative solutions and continuously seeks new, flexible and responsive ways to achieve its mission.

**Student Success**
Shoreline places high value on the lifelong academic and personal success of its students in and out of the classroom.

**Support**
Shoreline values a supportive environment for students and employees.
General Information

THE COLLEGE

Shoreline Community College offers excellent academic, professional/technical and work force training programs to meet the lifelong learning needs of its community. Dedicated faculty and staff are committed to the educational success of all students.

Located 10 miles north of downtown Seattle, Shoreline is one of the most strikingly beautiful college campuses in Washington. Nestled among native evergreens, the campus is a brilliant sea of colors during spring, summer and fall, when many flowering plants are in bloom. The scenic surrounding area is nationally known for its recreational and cultural opportunities, which richly complement academic life. Twenty-six buildings constitute the 83-acre campus. These include an award-winning automotive training center, a visual arts building, computer centers, laboratories, a student center, a theater, a well-equipped gymnasium that includes an exercise room and racquetball courts, a child care center, a sophisticated multimedia center and the Ray W. Howard Library/Technology Center.

Established in 1964, Shoreline operates under the regulations of the State Board for Community and Technical Colleges and is governed by the Board of Trustees of Shoreline Community College, District Number Seven.

The college is a member of the American Association of Community Colleges and the Association of Community College Trustees.

SCC AT LAKE FOREST PARK

Lake Forest Park Towne Centre
17171 Bothell Way NE, Suite A220
Lake Forest Park, WA

Shoreline Community College also offers new educational opportunities to the local community with its satellite campus, the Shoreline Community College @ Lake Forest Park. SCC@LFP is located in the Lake Forest Park Towne Centre and was established in 1990 to serve the eastern portion of the College’s district. The extension campus consists of six classrooms and computer labs, a testing center, a conference room, and office space.

Shoreline Community College at Lake Forest Park’s mission is to meet the lifelong learning and workforce development needs of its diverse community. As such, SCC@LFP offers a variety of credit classes, continuing education and computer certification classes, community service classes, and customized training. In addition, the Work Skills Assessment Center provides state-of-the-art testing and training programs for area businesses, individuals and organizations. SCC@LFP’s training programs and testing services are aimed at developing the skills of the local workforce.

RAY W. HOWARD LIBRARY

The Library/Technology Center plays an influential role in providing instruction and instructional support to students and faculty across all college programs. The newly renovated building provides a variety of individual and group study areas including a state-of-the-art information and research classroom/lab and a 100+ seat open computer lab. The various service areas and reading rooms house a collection of more than 77,000 books, periodicals, videos, DVD/CDs and other non-print media. All new equipment, furnishings and study areas provide students with a building well suited for research and learning in the 21st century.

Technology is featured on the first of the building’s three floors. The student open computer lab is open seven days a week during the fall, winter and spring quarters and contains current versions of standard and specialized software installed on new computers and scanners. A television/ITV studio is also available for video production and editing. The interactive television service provides a two-way, full motion video/audio capability that enables the college to be linked to other colleges, government agencies and businesses in the United States and around the world. A video editing lab for students is adjacent to the television/ITV studio.

The second and third floors of the Library/Technology Center house library and media collections and services. The Library features an online catalog with many full text periodical and reference databases, a collection of IT and business related electronic books and a home page (www.shoreline.edu/library/) with reviewed web sites, online reference services, research tutorials, links to other libraries and distance learning ser-
In addition to quiet, comfortable reading/study areas, there is an information/research and media classroom, 24 public access computer terminals, copy machines, group study rooms equipped with media playback units and distributed data jacks for connection to the campus network. Additional Internet connectivity is available through the building’s wireless network. High-end multimedia computers available for playback or video production, digital cameras and other media equipment are available for student use.

Friendly faculty and staff are available throughout the building to assist you with your research, information and technology questions. Our librarians and media coordinator provide both general and subject-specific information as well as research and media literacy instruction for students and faculty. Look for courses offered by this division under Informatics and Library in the course description section of this catalog. Information about the various services and collections of the Library/Technology Center may be obtained by calling (206) 546-4556.

SCC WEBSITE
The official website address of the College is www.shoreline.edu. The website contains information that is helpful to students and should be consulted often. The College uses the website to deliver online classes, post grades, register students, sell books, and more.

Announcements regarding changes to polices and programs, publicity for events on campus, and more are posted on a regular basis.

ACCREDITATION
Shoreline Community College is accredited by:

Northwest Commission on Colleges and Universities
8060 165th Avenue North East, Suite 100
Redmond, WA 98052

Specific programs are accredited by the National League for Nursing Accrediting Commission, the American Dental Association, the American Diabetic Association, Commission on Accreditation of Health Informatics and Information Management Education and the National Accrediting Agency for Clinical Laboratory Sciences. The Automotive Program is accredited by the National Automobile Technicians Education Foundation.

COLLEGE AND COMMUNITY
Shoreline Community College is dedicated to meeting the post-secondary educational needs of its community. The college serves more than 8,000 credit students per quarter. Individuals may take, on a credit or an audit basis, any class for which they meet the requirements.

The college is here to serve its community and regularly offers continuing education classes to more than 1,200 people each quarter. Suggestions for workshops and classes are welcome at (206) 546-4562. Schedules listing continuing education classes are issued quarterly.

INSTRUCTIONAL DIVISIONS
Shoreline Community College is organized into the following instructional divisions: Business, Automotive and Manufacturing; Health Occupations and Physical Education; Humanities; Intra-American Studies and Social Sciences; and Science. Continuing Education constitutes another division, which offers primarily non-credit courses. Courses offered by the college generally fall under one of these units. Each unit cooperates in the planning and administration of the instructional programs offered by the college.

ACADEMIC CALENDAR
Shoreline Community College operates a year-round academic calendar comprised of three (3) 11-week quarters during fall, winter, and spring, and one (1) 8-week quarter during the summer. Courses are also offered in the evenings and weekends. Class schedules are published each quarter listing the date, times, and locations of classes. These schedules are available approximately four weeks prior to the start of registration.

GENERAL PROGRAMS OF STUDY
Shoreline Community College is a comprehensive college that offers courses in a variety of areas to meet the demands of local and regional communities.

The college offers courses in the following areas:

University Transfer
College courses at the freshman and sophomore levels are offered. These courses have been designed to prepare students for upper-division work at a four-year college or university. The curriculum at Shoreline is rigorous and challenging. Instructors focus on preparing students for the high caliber of study at the four-year universities.

Career Training
Professional/Technical and Workforce Training
These programs are designed to prepare students for gainful employment upon completing a course of study at the college. More than 50 career training programs are now available at Shoreline Community College. Details may be found in the Professional/Technical Degree Programs section of this catalog.

Worker Retraining Program
The Worker Retraining Program is a partnership between community and technical colleges and the Employment Security Department. The program provides funding and other resources to enable unemployed individuals to acquire the skills needed to return to work. This could
mean a short-term skills upgrade, or a new career path and enrollment in a professional-technical program.

**The WorkFirst Program**
The WorkFirst Program provides free job training as well as free tuition and books for parents who are receiving cash assistance (TANF) or are considered low-income. Currently, the program offers a variety of options and services including a Customized Jobs Skills Training, which prepares participants for employment with an employer partner. The College, through partnerships with local industry, develops short-term (22 weeks or less) training programs designed to give students specific job skills. In addition, WorkFirst Financial Aid allows parents who are working 20 or more hours per week the opportunity to continue their education in SCC’s professional/technical programs. For more information, please call (206) 546-6927.

**Study Abroad**
[206] 546-4627

Shoreline Community College is a regional leader in providing short and long-term study abroad programs for two-year college students. In addition to three-month (one academic quarter) programs sponsored in conjunction with the Washington State Community College Consortium for Study Abroad (WCCCSA), Shoreline offers unique three- and four-week International Summer Institute study abroad programs around the world. Recent opportunities have included programs in Costa Rica, England, France, Guatemala, Italy, Japan, Kenya and Mexico.

Shoreline sponsored study-abroad programs cover a variety of instructional disciplines and feature credit-bearing courses that are transferable to four-year colleges and universities. Financial aid resources apply to Shoreline sponsored study-abroad programs.

Please contact International Programs to learn more about current study-abroad offerings at (206) 546-6940.

**Parent Education Program**
[206] 546-4593; [206] 546-4540

The Parent Education Program encourages parents to develop child guidance skills and a personal philosophy of family relations. Child development, parenting roles in home and society and family communications are studied in a supportive environment. Parents enroll in the following courses: Parent Education 110, 111, 112, 120, 121, 122, 130, 131, 132, 140, 141, 142 and 150, 151, 152. All of these are college credit courses. Up to 6 credits of Parent Education courses may be accepted towards degree requirements at transfer institutions.

Topics explored in these courses include:

**Child Development**
- Social, emotional, physical and cognitive development
- Language and literacy development
- Multicultural perspective

**Nutrition and Health**
- Early intervention and preventive measures
- The impact of diet on children's health
- Dental health care
- Accident prevention for children
- Available resources

**Parenting Skills**
- Child guidance strategies
- Effective communication
- Developing self esteem
- Values structuring
- Impact of mass media pressures

**Family Relationships**
- Single parents/blended family issues
- Family communication
- Changing adult roles and lifestyles in the family
- Parenting in our diverse society
- Impact of culture

Cooperative preschools are located throughout the college district. These programs are affiliates of the college and have varying hours depending on the number of participants. Each preschool is a separate corporation, with responsibility for the financing and operation of their cooperative preschool. The college provides the instructors for the parent education courses. The nine affiliated Parent Education Cooperative Preschools serve parents of children from infants through age 5. For information on the schedules of these affiliated preschools, please call (206) 546-4593. To enroll, contact the cooperative preschool directly.

**State Training and Registry System (S.T.A.R.S)**
(206) 546-4565

Shoreline Community College provides training and professional development opportunities for family childcare providers, childcare center staff, school-age directors and staff, program supervisors, site supervisors and lead teachers. This training and instructional development is in accordance with the Department of Social and Health Services’ licensure requirements. In addition, the curriculum is based on the guidelines of the Washington Association of Education of Young Children (W.A.E.Y.C.). Instructors who conduct this training have been approved as S.T.A.R.S. trainers.

Childcare providers can acquire the required 20 hours of basic training during the first six months of DSHS licensing or the first six months of employment in child-
care by enrolling in EDU 282. The additional 10 hours of training that is required annually by DSHS can be acquired by enrolling in EDU 281. These courses are offered on a quarterly basis through our Education program and students earn college credit for these courses. Tuition costs for this required training is reimbursed through W.A.E.Y.C.

HIGH SCHOOL PROGRAMS

High School Completion Program
Shoreline’s High School Completion Program helps students earn a high school diploma. Adults age 18 or older may be able to earn a high school diploma by attending classes at the college. Full-time high school students may be able to earn a high school diploma from a high school by attending classes at the college and transferring the credits to that high school. For more information, call (206) 546-4591.

GED Program
Shoreline Community College offers a General Education Development (GED) preparation course to help students preparing to take the GED test. Successful completion of the test results in the awarding of a General Educational Development Certificate. Areas of instruction include math, spelling, punctuation, grammar and vocabulary. In addition, the course concentrates on reading skills in social studies, natural sciences and literary interpretation. The GED test is given at various times during fall, winter and spring quarters. For additional information about GED classes, call (206) 546-4788. For information on GED testing, please call (206) 546-4608.

Career Education Options (CEO)
The Career Education Options (CEO) Program offers out-of-school youth a chance to go back to school for the education and training needed to succeed in the world of work. The program is available to 16- to 21-year-olds who left high school without earning a diploma.

Through CEO, students enhance life skills, receive job training and learn effective job search strategies. The program also provides assistance with placement into internships and employment. While in the program, students may pursue a college degree or certificate in a professional/technical field. Many students also simultaneously work toward a GED certificate.

The CEO Program provides continuous support services to help students achieve their educational and career goals. Funded in partnership with the Office of the Superintendent of Public Instruction, the program provides tuition, books, supplies, transportation assistance and tutoring to qualifying students. Additional support services may be available on an individual basis. For information on enrolling in CEO, please call (206) 546-7844 or drop by the CEO office, Rm. 5222 in the 5000 (FOSS) Building.

Running Start
High school juniors and seniors may qualify to participate in the Shoreline Community College Running Start Program and earn college credit while simultaneously completing their high school graduation requirements. To qualify for the program, high school students must take the ASSET/COMPASS placement test and qualify for English 101. Students must qualify for Math 110 and English 101 if they wish to take any math courses or any science courses for which math is a prerequisite.

To receive a free ASSET/COMPASS testing appointment, submit an admission application and an official copy of your high school transcript directly to the Running Start Office in the 5000 (FOSS) Building. For additional information on the Running Start Program, call (206) 546-6906.

Tech Prep
The Tech Prep Program offers high school students the opportunity to prepare for Professional/Technical degrees and to complete college equivalent classes while still in high school. An agreement is prepared between the high school and college faculty that ensures that credits taken in high school and college are transferable between programs. If you enter this program, you will get a solid start on a community/technical college certificate or degree, earning college credit while completing your high school requirement.

Student who complete a Tech Prep class while attending high school with a grade of “B” or better and have submitted a Tech Prep application to the North East Tech Prep Consortium will receive a college transcript from either Shoreline Community College or another North East Tech Prep Consortium member college: Bellevue CC, Cascadia CC, Edmonds CC and Lake Washington Technical College.

COMMUNITY EDUCATION PROGRAMS

Adult Basic Education (ABE)
Courses in reading, writing, study skills and mathematics are designed to help students improve their skills and prepare to enter degree programs or professional/technical training. These courses, along with student support services, provide orientation and guidance to help students discover their interests and abilities and prepare for success in their college courses.

English as a Second Language (ESL)
Classes are offered free of charge to students in need of improving their English skills in speaking, listening, reading, writing and grammar. These classes are offered as intensive day programs (17 hours/week) and part-time
evening programs (5 hours/week) at various locations at the main campus, SCC at Lake Forest Park, and local community venues.

**Continuing Education and Personal Development**

The Continuing Education Department sponsors a wide variety of professional development and personal enrichment courses designed to upgrade and strengthen job skills. These courses may include computer technology, management, biotechnology and education. Courses on foreign language, dance, exercise, art, music, writing and other areas of interest are also offered. Most courses are held evenings or on Saturdays. Credits are granted for some Continuing Education classes meeting the requirements of employers and funding agencies supporting skill development activities. These credits are all below the 100 level and are not considered to be college-level. They are not intended by SCC as transferable credits, although some receiving institutions may accept them at their discretion. Continuing Education courses and workshops are offered on the main campus, at SCC@Lake Forest Park and at Shoreline School District locations. For additional information, call (206) 533-6700.

**Contract Training**

In addition to classes listed each quarter in the college class schedule, customized professional training is available to businesses and organizations to meet specific workforce needs. This skill training can be offered at our site or yours. Call (206) 533-6700 for more information.

**DISTANCE LEARNING**

Shoreline Community College is committed to providing quality education at times and places most convenient to students. To accomplish this, the college has developed distance learning courses that offer several options to students who cannot attend traditional on-campus courses. These options include video courses, online courses (computer based/Internet) and interactive television (ITV) courses. For further information, please call (206) 546-6966 or visit http://success.shoreline.edu/distance/ on the Web. The Northwest Association of Schools and Colleges accredits Shoreline’s distance learning program.

**Telecourses**

Video courses make use of videocassettes, textbooks and study guides to deliver content. Cassettes may be rented as a set for the quarter or checked out individually from the Media Center. Contact the checkout desk at (206) 546-4529 or media@shoreline.edu. Students may be required to attend one or more on-campus sessions with the faculty member teaching the course. Video courses offer flexibility, convenience and challenge in a quality video- and print-based course format.

**Online (Internet)**

Online courses have start and stop dates, regular assignments and project due dates, but because the classroom is online and asynchronous, work can be done at a time and place most convenient for the student. They have been developed with the same learning outcomes as traditional on-campus courses. Because online courses are delivered at a distance, they are reading and writing intensive. Even though attendance is not required at a specific time, students will need to spend time in the virtual classroom five out of every seven days and plan on a minimum of 12 to 15 hours of class work each week for each course. Using a computer and the Internet, students receive lessons and assignments and return completed course work. Students communicate with their instructor and other class members through e-mail and threaded discussions from their home or work place. Students may be required to test on campus or arrange to have an exam proctored several times during the quarter.

**Hybrid**

Hybrid courses offer students a mixture of on-campus and online learning experiences, usually with at least one on-campus meeting per week. Why choose a Hybrid class? You get face-to-face, personal interaction with your instructor and other students. Plus, you have anytime/anywhere access to the course, on your own computer or in Shoreline’s computer labs with Internet access. You spend more time learning and less time traveling to campus or looking for a parking space.

**Interactive Television (ITV)**

Shoreline Community College, in cooperation with 32 community college sites in Washington, participates in the K-20 network. The network makes it possible to offer high-quality interactive TV courses. Students in ITV courses are required to attend class at the designated time at one of the designated sites.

**WashingtonOnline**

WashingtonOnline courses are developed and shared by the Washington State Community and Technical Colleges system and offered as Shoreline courses. These asynchronous virtual courses are conducted completely online. WAOL courses have start and stop dates, regular assignments and project due dates, but students can work at the time and place most convenient to them. Students must be admitted and enrolled at Shoreline Community College in order to enroll in these courses. Grading and content for these courses are the responsibility of the instructor’s home college. Collections and refunds of tuition and fees are Shoreline’s responsibility.
INTERDISCIPLINARY STUDIES
Shoreline’s Interdisciplinary Studies allow students to discover, explore, and connect. Interdisciplinary Studies courses allow you to fulfill graduation requirements in an alternative way. These courses integrate two or more subjects into one class that focuses on a common theme. Two or more instructors team-teach these Interdisciplinary Studies courses, so students get to explore issues or problems through multiple perspectives. Interdisciplinary Studies courses offer you a unique, challenging, engaging learning experience. The benefits of these studies include having you:

- Join a community of learners, students and instructors together.
- Work collaboratively around a common theme.
- Gain a deeper understanding of subjects by exploring the connections between them.
- Solve more complex problems.
- Turn ideas into action and social change.

Interdisciplinary Studies courses come in many forms. Some courses may combine three or more disciplines, giving students a full-time load. Other courses may provide students with ten, eight, or five credits. Below are some examples of various forms and courses we have offered.

15-18 Credit course with three instructors
Thinking Green: Green Money Versus Green Nature
EPWSC 201 (Environmental Science)  
ECON 200 (Macroeconomics)  
ENG 101 or 271 (Composition)

How do businesses and households impact the environment? How does the government protect the needs of the economy, the environment and future generations? In this course, you will explore critical environmental issues through group projects, videos, field trips to old growth forests and watersheds, and community service projects.

8 Credit course with two instructors
Sex and Sweat
PSYCH 210 (Human Sexuality)  
PE 238 (Physical Education)

This Interdisciplinary Studies course will focus on sexual function, dysfunction, orientation, sexually transmitted diseases, and reproductive health. To promote a healthier lifestyle, students will engage in cardiovascular exercise, resistance training, and contemporary movement to music. Students will explore issues concerning body image, eating disorders, lifestyle choices and appropriate goal setting.

5 Credit course with multiple faculty
Jihad, Capitalism and Conflict
INTST 285 (Global Issues)

This Interdisciplinary Studies course will examine the evolving relationship between the West and Islam. The focus will be on the historical events that led to the attack on the World Trade Center and its consequences. Professors from the Humanities, Social Sciences and Sciences will contribute their expertise in an attempt to understand the sometimes volatile relationship between these world views.

SPECIAL PROJECTS
Guidelines for Special Projects
Special project credits are for individualized study. They consist of advanced study in the student’s primary academic or career area of interest under the guidance of the division involved. Students initiate requests for special projects with an appropriate faculty member. Students planning to participate in special project credits must have completed a basic course in the relevant discipline.

Special project credits may not be used to satisfy general or distribution degree requirements. Students should consult with their advisors and check with the elective degree requirements of their transfer institution to determine the applicability of special project credits.

Special project credits:
- For 3 credits: Students must complete 99 project hours and enroll before the end of the second week (10th day) of the quarter.
- For 2 credits: Students must complete 66 project hours and enroll before the end of the third week of the quarter.
- For 1 credit: Students must complete 33 project hours and enroll before the end of the fifth week of the quarter.

Faculty offering special project credits submit to the division dean a written contract, including details of the nature of the project, the resources to be used, the materials to be produced or activities to be completed by the student and the method of evaluation and grading that is to be used by the instructor.

Shoreline’s academic regulations are an ongoing concern of the Faculty Senate and the college governance structure. As such, any of the following requirements are subject to periodic review and possible change.
Shoreline Community College is in compliance with Title IX of the Educational Amendments of 1972. This regulation prohibits discrimination on the basis of sex in employment, educational opportunities and program participation. The college also recognizes that sex discrimination in the form of sexual harassment — defined as the use of one's authority and power to coerce another individual into sexual relations, or to punish the other for his/her refusal — is also a violation of Title IX, as well as Title VII of the Civil Rights Act of 1964.

Shoreline Community College is also in compliance with Title VI of the Civil Rights Act of 1964. All educational programs and services will be administered without regard to race, creed, disability, religion, color, national origin (including minorities with limited English language skills), age, marital status, gender, sexual orientation or status as a Vietnam-era or disabled veteran.

Inquiries regarding compliance with any of these regulations or relevant grievance procedures should be directed to the Vice President for Student Services, (206) 546-4641, 5000 (FOSS) Building, or any administrative unit head.

In accordance with the Rehabilitation Act of 1973, Section 504, all educational programs will be provided without regard to physical status. No otherwise qualified individual with disabling conditions shall, on the basis of disability, be excluded from participation in, be denied the benefits of, or otherwise be subjected to discrimination under any program, activity or service administered by the college. Students who would be deemed qualified are those individuals who can perform at an acceptable level of productivity in a vocational education and/or academic setting. Reasonable accommodations will be made unless such accommodations will cause undue hardship on the college. Campus facilities and programs are accessible to individuals with disabling conditions.

Inquiries regarding this policy should be directed to the Vice President for Student Services, (206) 546-4641, 5000 (FOSS) Building.

Shoreline Community College complies with the Family Educational Rights and Privacy Act of 1974 (Buckley Amendment) concerning the information that becomes a part of a student’s permanent educational record and governing the conditions of its disclosure. Procedural guidelines governing compliance with this statute have been developed and are available through the office of the vice president for student services. Any student wishing to have information withheld when inquiries are received must notify the Vice President for Student Services in writing.

DISCLAIMER

The college reserves the option to amend, modify or revise any provision of this catalog for the following reasons, including but not limited to:
1. a lack of funds to operate a program or course;
2. unavailability of instructors;
3. a change in administrative or Board of Trustees’ policy; or
4. a change in the laws, rules or regulations of the state of Washington that govern the operation of community colleges.
SUMMARY OF STUDENT RIGHTS
Student Rights and Responsibilities are protected through policies and procedures adopted by the College’s Board of Trustees. Following are some of the key policies pertaining to students. A full description of the policies and accompanying procedural guidelines can be found in the offices of the VP of Academic Affairs and VP of Student Services or via the college website.

Fair Grades
Students are protected by College policy through orderly procedures against arbitrary or capricious actions or decisions relating to academic evaluations by their instructors. (College Policy 5040 – Student Records)

Confidential Records
The confidentiality of student records is protected by College policy requiring guidelines which are in accordance with the Family Educational Rights and Privacy Act of 1974 (Buckley Amendment) concerning the information that becomes a part of a student’s permanent educational records and governing conditions of its disclosure. (College Policy 5035 – Student Grievance Procedures)

Freedom from Discrimination
It is College policy that illegal discrimination, including sexual harassment of students and by students will not be tolerated. Sexual harassment is defined as unwelcome sexual advances. (College Policy 4113 – Sexual Harassment) If you believe you have been discriminated against because of your race, ethnicity, gender, age, or marital status, please contact the SCCSBA Student Advocate, the Vice President of Student Services, or the Vice President of Human Resources.

Advanced Placement
Students may be placed in an advanced course of a sequence on the basis of their high school achievement or test results. Credit may be granted for the course omitted. (College Policy 5160 – Advanced Placement)

Credit by Examination
Students currently enrolled at Shoreline may obtain credit for certain courses by satisfactorily passing comprehensive examinations provided the student has never received college credit for the challenged course or for another course which assumes knowledge of the course being challenged. (College Policy 5161 – Credit by Examination)

Freedom of Speech
Any recognized student organization, with the knowledge and approval of its advisor, may invite to the campus any speaker the group would like to hear. Although it is the advisor’s responsibility through the inviting group to insure the educational relevance of such programs, all such speakers have complete discretion in the content and manner of their presentation, subject to restraints imposed by federal and/or state constitutions and statutes. Moreover, the appearance of an invited speaker on campus does not involve an endorsement, either implicit or explicit, or his/her views by Shoreline Community College, its faculty, its administration or its Board of Trustees. (College Policy 5255 – Off Campus Student Invited Speakers)

Use of Human Subjects
It is the policy of the Board of Trustees regarding the use of human subjects to protect the rights, well-being, and personal privacy of individuals, to assure a favorable climate for the acquisition of technical skills and the conduct of academic inquiry, and to protect the interest of Shoreline Community College. (College Policy 5329 – Use of Human Subjects)

Appearance and Dress
Educational opportunities at the College may not be granted or denied on the basis of standards of personal appearance unless a student’s appearance disrupts the educational process or constitutes a threat to safety. (College Policy 5215 – Appearance and Dress)

SUMMARY OF STUDENT RESPONSIBILITIES
Student Conduct
Admission to the College carries with it the expectation that the students will conduct themselves as responsible members of the academic community. This includes the expectation that students will obey the law; comply with the rules and regulations of the College; maintain high standards of integrity and honesty; respect the rights, privileges and property of other members of the College community, and will not interfere with legitimate College operations.

Student activity or behavior which violates any provision of the College conduct code is not acceptable; yet, an individual who enrolls at the College can rightfully expect that the instructors and administrators will exercise with restraint the power of the College to regulate student behavior, and that rules and regulations will be adopted only when the education process clearly and directly requires such legislation. However, restrictive rules and regulations will not be made without showing relevance to those conditions toward which they apply. The enforcement of these rules and regulations shall be fair and shall be pursued in accordance with regulations governing student conduct. Sanctions, up to and including expulsion from the College, may be imposed for failure to satisfy the expectations stated above. These sanctions will determine whether, and under what conditions, the violator may continue at the College.

Violations of the Student Conduct Code will lead to disciplinary action; however, nothing herein will be construed to deny students their legally and/or constitutional-
**Student Grievance**

Students shall have recourse against arbitrary and capricious actions or decisions relating to academic evaluations by their instructors through an orderly procedure.

(College Policy 5035 – Student Grievance Procedures)

a. When a student believes that he/she has a grievance regarding an academic evaluation, he/she should seek out the involved faculty member(s), state the nature of the grievance, and make a serious attempt to mutually resolve the issue. This step shall be initiated no later than the last day of the next regular academic quarter, excluding summer quarter.

b. If step a does not produce a satisfactory result for the student, he/she may request a meeting with the division chair (or the immediate supervisor) of the involved faculty member(s) to discuss the grievance within ten (10) instructional days of the conclusion of the discussion conducted under step 4(a). The student shall present a written, signed statement of the nature of the grievance to the division chair, who shall then attempt to achieve a mutually satisfactory resolution of the grievance. If the student chooses, he/she may be accompanied by a representative of the student body association or personal counsel.

**Dishonesty in Academics**

Each student is expected to exhibit academic integrity. Shoreline Community College does not permit any form of academic dishonesty, such as cheating or plagiarism.

a. Academic dishonesty occurs when a student provides unauthorized academic benefits to another student or receives academic benefits he/she did not earn through his/her own efforts, by cheating or plagiarizing.

b. Cheating includes, but is not limited to, conferring an unearned benefit to another student, copying another’s work on an exam, preparing for an exam by using test questions from a stolen exam, accessing unauthorized materials, or turning in another person’s work as one’s own.

c. Plagiarism is quoting, paraphrasing or summarizing portions of another’s work from a published, unpublished or electronic source without acknowledging that source.

Consequences of any breach of academic integrity shall be clearly defined in a course syllabus and may include withholding or credit lowering of grade, and/or failure (0.0) for the assignment and/or course, or lesser sanction.

Matters involving academic dishonesty may be referred to the Vice President of Student Services for additional disciplinary action(s).

**STUDENT RECORDS AND RIGHTS TO PRIVACY**

All Students at Shoreline Community College are protected by the Family Educational Rights and Privacy Act (FERPA) of 1974. Your privacy is protected with certain restrictions on the disclosure of your student educational records and information. You have the following rights, protection and privacy of your educational records at Shoreline Community College.

1) The right to inspect and review your student education records within 45 days of the day the college receives a request for access. The Student should submit a written request to the Registrar's Office identifying the records(s) they which to inspect.

2) The right to request the amendment of the student’s education records the student believes are inaccurate.

3) The right to authorize disclosure of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. The College will disclose the following information authorized by FERPA on all students:
   - Student's name(s)
   - Telephone number
   - Major or field of study
   - Dates of attendance
   - Degrees and awards received

Directory Information can be released by the College unless the Office of the Vice-President for Student Services or the Registrar's Office has received a written notice signed by the student requesting non-disclosure of all student information.

Upon request, the College may disclose selected education records to the military recruitment services pursuant to the Solomon Amendment. The college will not disclose student records to family members or any inquiries outside the college (with the exception of certain law enforcement and grand jury subpoenas) without notice to the student and/or written authorization.

4) Students have the right to file a complaint with the U.S. Department of Education concerning alleged failure by the college to comply with the requirements of FERPA. The name and address of the Office that administers FERPA:

   Family Policy Compliance Office
   US Department of Education
   400 Maryland Avenue, SW
   Washington, DC 20202-4605

Contact the Registrar’s Office (206) 546-4581, if you wish to inspect, review or restrict disclosure your student educational records or if you have any questions regarding your rights under the Family Educational Rights and Privacy Act.
Students may begin their college education at Shoreline Community College in fall, winter, spring or summer quarter. To apply for admission, students should submit an application to the Admissions Office. Applications should be submitted as early as possible before the quarter begins. Applicants will receive notification of acceptance and registration information by mail.

Web Admissions
To apply to Shoreline Community College via the Web, access the online admissions application at our college Web site: www.shoreline.edu. Fill out the online admissions application on your computer, then follow instructions to submit it.

ADMISSION ELIGIBILITY
A candidate for admission to Shoreline Community College must be a graduate of an accredited high school, have a General Education Development (GED) certificate or be at least 18 years of age. Upon admission, students may be required to submit any of the following records to the Admissions Office.

1. Assessment Results
Evidence of placement level is required before registration in English composition, reading, math, or "W" courses. Assessment test results are used to assist students with placement in appropriate levels of these classes. They are not used to determine whether a student will be admitted to Shoreline Community College.

Students may submit SAT, ACT, Compass or ASSET test scores dated within three years, or take the ASSET/COMPASS assessment test. Test results will be sent automatically to the Admissions Office.

(See Assessment Testing later in this section for more information.)

2. College Transcripts
Students who have attended other colleges are required to submit official transcripts from all colleges from which they wish to transfer credit toward their Shoreline Community College degree. Shoreline Community College accepts credits earned at colleges or universities that are recognized by the Northwest Association of Schools and Colleges as regionally accredited. Transcripts of course work from other colleges may also be required to provide evidence of placement level before registration in English composition, reading, math or "W"* courses.

Students receiving federal financial aid or those receiving educational benefits from the Department of Veterans Affairs are required to submit official transcripts from all prior colleges including, in the case of veterans, those attended before, during, and after active duty.

3. High School Transcripts
Students are encouraged to submit final, official high school transcripts to Shoreline’s Admissions Office. High school transcripts assist advisors of students seeking to transfer to four-year institutions to meet those institutions’ admissions and graduation requirements.

*See Degree Programs for a description of “W” courses, page 44.
STUDENTS WHO HAVE NOT GRADUATED FROM HIGH SCHOOL
Applicants who have not graduated from high school must take placement tests before registration. The College recommends that applicants consider the High School Completion Program or the General Education Development Test as an aid to planning the student’s program.

High school students attending a day high school full-time or part-time may also take high school completion classes or college credit classes to meet their own high school requirements. The student must have an authorization letter from his or her counselor or vice principal stating that the high school will allow the student to attend the college classes and will accept the credits earned.

The Running Start program allows high school juniors and seniors to take college classes tuition-free. See the Running Start section of this catalog for more information.

Students under the age of 16 must meet special requirements in order to enroll at Shoreline. Contact the Admissions Office at (206) 546-4621 for more information.

AUDIT STUDENTS
An audit student must be registered and have paid required tuition and fees. Class participation will be at the instructor’s discretion. No credit is earned. A student cannot change to or from audit status after the first day of the seventh week of the quarter. The audit grade appears as an “N” and will be permanently posted on the official transcript.

INTERNATIONAL STUDENTS
SCC does NOT require international students to take the TOEFL examination. Instead, each Shoreline student is asked to take an ESL proficiency test upon arrival in the U.S. in order to be placed in the appropriate classes.

In order to apply for admission as an international student, the following items are required:
1. A completed application form.
2. Complete and official high school records (all years), as well as any college or university transcripts.
3. Evidence of financial responsibility.
4. Application fee

Please contact International Programs for an application packet.

PROGRAMS WITH SPECIAL SELECTION PROCEDURES
Admission to the college does not guarantee acceptance into certain programs that have special requirements. Dental Hygiene, Health Information Technology, Medical Laboratory Technology and Nursing fall into this category. Other programs such as Automotive Service Technology have waiting lists due to high demand for such majors. Refer to the Professional/Technical Degree Programs section of this catalog for further information.

TRANSFER CREDITS
Credits earned at colleges or universities that are recognized by the Northwest Commission Colleges and Universities or other regional accrediting agencies are accepted by Shoreline Community College.

REGISTRATION
(206) 546-4611
The registration procedure allows students with the largest number of accumulated credits to register first. This permits students to move up in the priority order each quarter they are in attendance.

Appointment dates for registration are assigned to new and continuing students by mail each quarter. In-person registration may be by written proxy if a student is unable to report at the scheduled time.

Students are required to obtain their advisor’s signature for courses to be taken each quarter if they have completed fewer than 15 credits at Shoreline Community College. An advisor’s signature is not required, however, for a student who has completed 15 Shoreline credits and:
1. is not enrolled in an English as a Second Language program;
2. is not an international student; or
3. is not enrolled in a selected professional/technical program.

Web Registration
Students who have completed at least 15 credits at Shoreline Community College can register via the Web on or after their scheduled appointment date. Access online registration at the college web address: www.shoreline.edu. See the quarterly Class Schedule for deadlines for tuition payments. Credit card and debit payment is available online.

Automatic Waitlist
Students can put themselves on a waitlist for a full class, or check their position on a waitlist via the web at www.shoreline.edu. Registration into a waitlisted class is automatic when space becomes available until two business days prior to the first day of the quarter. The signa-
ture of the instructor is required to register after that date.

**CHANGE OF REGISTRATION**
Web registration is not available once the quarter begins. It is the student's responsibility to confirm any schedule changes by adding or dropping classes with the Registration Office. The advisor's signature is required if the student wishes to take more than 23 credits in one quarter.

Students desiring to change their class schedules during the first five days* of a quarter must fill out a class schedule change form and take it to the Registration Office. No signatures are required except in the case of special-permission classes as indicated in the class schedule.

Changes during the sixth through the 10th day* are made on the same form and require the signature of the instructor.

From the 11th day through the end of the fourth week*, the class schedule change form must be used and requires the signature of the instructor(s) and, for adds only, the division Dean. During this time a grade of “W” will automatically be given for dropped classes. Although advisors' signatures are not required for these changes, students are encouraged to see advisors for assistance.

It is not possible to add classes after the end of the fourth week* of the quarter. The schedule change form is used for drops only from the second day of the seventh week* until the end of the quarter and requires the signature of the instructor(s). From the second day of the seventh week, the instructor will assign the proper grade on the form (see Grading System section of this catalog). No “W” grades will be issued after the first day of the seventh week*.

**EARLY WITHDRAWAL PROCEDURES (FROM CLASS OR COLLEGE)**
From the eleventh day of the quarter through the first day of the seventh week* of the quarter, the procedure for withdrawing from a class is as follows:

Students should fill out an official class schedule change form, obtain the instructor's signature on the form for each class to be dropped and take the completed form to the Registration Office. During this period, the grade given will be an automatic “W.”

Starting the second class day of the seventh week* through the last day of instruction, the grade will be a I, NC, P, V or Z (if emergency situation is applicable) as the instructor's judgement dictates. No “W” grade will be issued after the end of the first day of the seventh week.*

**DROP FOR NONPAYMENT**
Students who fail to pay their tuition in full by the tuition payment deadline will be administratively withdrawn from all classes. Re-registration will not be possible after the fourth week (or summer equivalent.)

**SPECIAL BENEFITS REQUIREMENT**
Students expecting to receive compensation for full-time programs under the G.I. Bill, Social Security, Railroad Retirement Board or any other outside agency will be required to carry at least 12 credit hours.

**DROP FOR NON-ATTENDANCE**
During the first week of the quarter, it is important that students attend all classes in which they are registered. In those courses that have an established waiting list a student who does not attend the first two class sessions in the quarter and who has not made prior arrangements with the course instructor, may be dropped from the class at the discretion of the instructor. Students withdrawn by the College during the first week under this policy will receive a refund of tuition and fees, if due.

The College does not always withdraw the student for non-attendance. It is the student's responsibility to determine if he/she has been withdrawn by the College. A student who is not officially withdrawn by the College or does not officially withdraw himself/herself may be issued a failing grade by the course instructor based on non-attendance.

**RECORDS**
(206) 546-4623

**CONFIDENTIALITY**
Shoreline Community College protects student privacy as required by federal law in the Family Education Rights and Privacy Act (FERPA) of 1974. A student at Shoreline may have all personal information held confidential. The office of the vice president for student services can provide this special service. For more information, call (206) 546-4641.

**NAME CHANGES**
Continuing or returning students are required to submit legal documentation for a change of name as shown on Shoreline records. Acceptable proof would be a marriage certificate or court order or notarized copy thereof. Picture identification is also required.

*Summer quarter deadlines differ. Please refer to the Summer class schedule.
STUDENT IDENTIFICATION NUMBER (SID)
Students are issued a randomly assigned student identification number at the time of admission. Disclosure of social security numbers is not mandatory, except for the purposes of financial aid, Federal HOPE Scholarship tax credit, employment in any position at Shoreline including work study, and workforce or unemployment reporting. Voluntary disclosure is authorized for the purposes of academic transcripts and assessment/accountability research. Your social security number is confidential and will be protected under the Family Educational Rights and Privacy Act.

TRANSCRIPT REQUESTS
An official transcript of academic achievement at Shoreline is available for a fee of $5.00 each, plus $1.00 for each additional copy per order. Requests may be made in person, by mail or by fax at (206) 546-5835. The Transcript Request form is available on the second floor of the 5000 building, or on Shoreline’s web site: www.shoreline.edu. Faxed requests must include a Visa or MasterCard number, expiration date, and signature. For more information, phone (206) 546-4614. Allow 72 hours for processing after the college receives your request.

OBTAINING INFORMATION
Information kiosks are located in Enrollment Services (5000 Building), Shoreline Bookstore, and the library, where students may view and print an unofficial copy of their records free of charge. This information can also be accessed via the Web at www.shoreline.edu.

HOLDS ON STUDENT RECORDS
Students who have been placed on academic suspension or who are under age 16 must meet with the registrar before being allowed to register. Students who have outstanding debts to the college (such as traffic and parking fines, library fines or instructional materials overdue) will not be allowed to register or make program changes until these have been cleared. Likewise, official transcripts will not be released until debts are cleared. The Registrar’s Office requires up to 24 hours to process the release of a hold on student records.

SCHEDULE OF TUITION AND FEES
Please see quarterly class schedules for tuition payment deadlines. The college reserves the right to change any fees without notice to comply with state or college regulations and policies.

RESIDENCY REQUIREMENTS
Non-resident tuition is required of students whose legal residence is outside of Washington state. For tuition purposes, a state resident is one who is a U.S. citizen or who has permanent resident immigrant status, refugee-parolee status or conditional entrant status, and

1) has established domicile (residence) in the state of Washington primarily for purposes other than educational for the period of one year immediately prior to the first day of the quarter and was financially independent from parents or legally appointed guardians for the calendar year prior to and the calendar year during which college enrollment begins, or

2) is a financially dependent student, one or both of whose parents or legal guardians have maintained domicile in the state of Washington for at least one year immediately prior to the first day of the quarter.

Effective July 1, 2003, individuals who are not permanent residents or U.S. citizens MAY qualify for resident tuition. To qualify, they must have graduated from a Washington state high school or, while living in Washington, have received the equivalent of a high school diploma. Additional criteria may apply.
NOTE: Typically, state residents document their legal residence in Washington by showing that for the entire 12 months immediately preceding the beginning of the quarter, they have done any or all of the following: a) held a Washington driver’s license or identification card, b) had their vehicle registered in the state of Washington, and c) been registered to vote in Washington.

Exemption from non-resident tuition is granted to students who:

a) are employed by a public university, college or community college within the state of Washington and

b) hold a graduate service appointment (involving not less than 20 hours per week) designated as such by an institution, or

c) are employed by an academic department (involving not less than 20 hours per week) in support of the instructional or research programs, or

d) are faculty members, classified staff members or administratively exempt employees holding not less than a half-time appointment, or spouses or dependent children of such persons.

A student wishing to change his or her residency classification must petition the college by completing the residency questionnaire form (obtainable in Enrollment Services) and by providing necessary documentation. This should be completed before registration.

**STUDENT FEES (a)**

**Audit Fee**
Same as for credit above.

**Credit by Examination (Challenge)**
Per credit hour: $10. Contact the appropriate instructional division office for more information.

**Methods of Payment**
MasterCard, VISA, cash, debit cards and personal checks are accepted.

**Senior Citizens (60 or Over)**
Tuition is waived for up to two regular college credit classes on a space-available basis for audit only. There is a $5 fee for this service. Senior citizens must pay all applicable college and class fees.

**Special Fees**
Many classes require special fees for equipment, laboratory use, materials or personal instruction. Such fees will be listed in the quarterly class schedule. A special selection process fee will be required when applying to certain programs.

**Student Union Renovation Fee**
$3 per credit up to a maximum of $30 per quarter.

**Technology Fee**
$2.50 per credit up to a maximum of $25 per quarter.

**Transcript Fee**
$5.00 each, plus $1.00 for each additional copy per order. There is a 72-hour processing period.

**Refunding of Fees**
A refund of fees is made either when a student officially withdraws from the college or when there is a partial withdrawal (reduction in credit hours).
Financial aid recipients may be required to repay some or all financial aid upon withdrawal, depending on the type of aid received, the documented last day of attendance and applicable rules and regulations governing financial aid. For refunds for financial aid recipients, see the Financial Aid section of this catalog.

REFUND POLICIES

Refunds are made according to the following schedule:

- **Before first week of the quarter**: full refund except for fees listed in the schedule of fees as non-refundable.
- **During the first week of classes**: 80 percent of refundable fees. (Summer Quarter: see class schedule.) Withdrawal is not reflected on student transcript.
- **Second week of classes**: 50 percent of refundable fees. (Summer Quarter: see class schedule.) Withdrawal is not reflected on student transcript.
- **Third and fourth weeks of classes**: 50 percent of refundable fees. (Summer Quarter: see class schedule.) Withdrawal appears as a "W" on student transcript.
- **After the fourth week of classes**: No refund will be issued. (Summer Quarter: see class schedule.) Students who withdraw from the college without complying with official withdrawal procedures, and students who are asked to withdraw by the college, do not receive a refund of fees.

**Example 1**: Student A officially withdraws during the first week of the quarter. Whether or not the student attended class, he or she is eligible for an 80-percent refund. The college retains 20 percent of the tuition paid. (See Summer Quarter class schedule for equivalent.)

**Example 2**: Student B withdraws halfway through the fourth week of the quarter. The student is eligible for a 50-percent refund of tuition; the college retains 50 percent. (See Summer Quarter class schedule for equivalent.)

*Note: Financial Aid recipients should refer to the examples in the Financial Aid section, since different regulations and percentages may apply.*

*Note: Student fees for Continuing Education classes are refundable up to two business days before the class begins. Refunds will be made if a class is cancelled by the college.*
ADDITIONAL SERVICES FOR STUDENTS

ADVISING
Advising provides students with the necessary information to make sound academic decisions and educational plans. Advisors assist students with information about admission and graduation requirements, course placement and selection, transcript evaluation and registration. Through advising, students make the connection between academic interests, degree requirements and career opportunities.

All full-time faculty and some staff assume responsibility for advising students. Counselors are available to work with students who are undecided and in need of career or personal counseling. Students may request a change of advisor at any time at the Information Desk in the 5000 (FOSS) Building.

Planning guides, course equivalency guides, transfer manuals and many college catalogs are available for reference in the Student Development Center, Room 5229 (FOSS) Building. The Student Development Center is open from 8 a.m. to 5 p.m. on Monday, Tuesday, and Thursday; from 8 a.m. to 8 p.m. on Wednesday; and from 8 a.m. to 4:30 p.m. on Friday.

RESOURCES FOR STUDENTS
ON SITE COUNSELORS
[206] 546-4559
Counseling Services are located in the Student Development Center, Room 5229 (FOSS) Building. Grounded in human development theories, counselors offer a range of services to help students identify and achieve their personal, academic and career goals. Through personal, educational or career counseling, counselors work closely with students in an effort to promote a positive learning environment and educational experience.

Career counseling is available to help students identify their personal interests and abilities in relation to academic planning and the world of work. Counselors provide both group and individualized career counseling with a variety of assessment and evaluation services offered at a minimal fee.

Shoreline offers short-term personal counseling to help students overcome difficulties that present barriers to success. Issues that may impede academic progress can be addressed through counseling services. Counselors are experienced in handling complex situations that may result in a need for crisis intervention. They also serve as a campus and community referral resource for students, faculty and staff. Counselors are professionally educated, trained and experienced in counseling, psychology and social work. Information shared during the course of personal counseling is confidential.

Faculty teach an array of human development courses such as Career Exploration and Life Planning, Stress Management, Improving Relationships, College Orientation and Student Success. Counselors provide advising assistance, help students in their transition to other institutions and meet new and prospective students to assist with access to college programs and services.

WEB ADVISING
Shoreline Community College is dedicated to increasing access to important student services and information. To this end, the Student Development Center maintains a Web site providing comprehensive advising resources to all students and to the general public at: http://success.shoreline.edu/advising. Features of the Web site include a GPA calculator, career information, student success strategies, links to baccalaureate institutions and answers to frequently asked advising questions. Students can also get personalized answers to most advising questions via e-mail by visiting “Ask Alberta” on our advising Web site.

CAREER/EMPLOYMENT SERVICES CENTER
(206) 546-4610
The Career/Employment Services Center, located on the second floor of the 5000 (Foss) building, provides students and the community with resources to find all types of employment - be it a part-time job during school or a professional career after completion of a training program.

The Center posts announcements about current job openings, upcoming job fairs, and companies that are hiring. Students may also look through job binders and use the E-Recruiting software - a customized database of local jobs and internships. The Center sponsors an annual career fair for students and the community.

Students who are uncertain about their future choice of career or program of study can access WOIS software - a career assessment tool that includes interest inventories, as well as information about various careers and training programs.

Staff is available to help students use the Center’s computers to access job banks, career information, and labor market information. Staff is also available to critique resumes and provide workshops on job search strategies. Students can learn more about the job search, resume writing, and interviewing by viewing videos or reading books in the Center’s library.

The Career/Employment Services Center also houses the Co-operative Education Program, the Worker Retraining Program, and the Employment Security representative.
For information on services call:
Job Posting and Information . . . . . . . . . . . . . (206) 546-4610
Worker Retraining/WorkFirst Programs . . . . . (206) 546-6961
Cooperative Education Internship Program . . . . . (206) 546-7843
Employment Security co-location . . . . . . . . . . . . . . . . (206) 546-7842
or email shorecareers@shoreline.edu.

EMPLOYMENT SECURITY CO-LOCATION
(206) 546-7842
The Washington State Employment Security Department has a representative on campus at Shoreline Community College to save you the time of traveling to your local office for service. The co-location representative is located in the Career/Employment Services One-Stop Center and is available Monday-Friday 8:30 a.m.-5 p.m. and offers a full range of support services including, but not limited to:

Unemployment Insurance Benefits Information and Assistance
- Help in understanding and completing Unemployment Insurance paperwork
- Assistance in completing Commissioner Approval for Training (CAT) applications for the Worker Retraining and other training/retraining programs
- Assistance in completing Training Benefits applications for the Worker Retraining and other training/retraining programs
- Liaison between claimant and the Employment Security Telecenter in resolving issues and problems regarding Unemployment Insurance Benefits
- Current Unemployment Insurance information on campus

Employment Information and Job Referral
- Access to Employment Security web site for job listings and job referral: go2worksource.com
- Job boards with printed job announcements
- Individual counseling, résumé assistance, labor market information, and job referrals

MULTICULTURAL/DIVERSITY EDUCATION CENTER
(206) 533-6618
The Multicultural/Diversity Education Center (MCDEC) is a place for all people to meet, explore their cultural origins and work toward understanding, respect and appreciation for the diversity within our campus community and society.

Located in the Pagoda Union Building, MCDEC provides information and services that support students’ academic success. Students are encouraged to use the center to study, discuss their experiences, learn strategies for reaching their educational goals and to find out about college and community resources. The Center is open from 8am to 5pm Monday through Thursday and 8am to 4:30pm on Fridays. Summer hours may vary.

The Multicultural/Diversity Education Center also organizes the college’s annual Multicultural Week and offers workshops, presentations and performances that highlight aspects of diversity throughout the year. Books and other resources are available for faculty interested in integrating multicultural theory and perspectives into the curriculum.

PARENT-CHILD CENTER
The Parent-Child Center on campus provides quality childcare and educational experiences for children between the ages of 3 months and kindergarten. The center also functions as an instructional laboratory, serving as an observational and practicum site for students in Education and Human Services and other vocational and academic programs.

The Center is also a Parent Education Cooperative Program with required laboratory experiences for parents in the preschool, as well as course requirements. A parent in each family is required to enroll in a 1-credit Parent Education course each quarter. Classes are offered on Saturdays and are taught by a college faculty member. Courses provide a support network and opportunity for group discussions on parenting topics. Parents must also spend 2 hours per quarter volunteering in the classroom.

Information on fees is available at the center. All students paying tuition and student activity fees receive a reduced rate. The hours of the Parent-Child Center are 7 a.m. to 10 p.m. Monday through Friday. Saturday hours are 8:00 a.m. to 6 p.m.. Evening and weekend hours are subject to change. The center is closed on state holidays, between the end of Summer Quarter and the beginning of Fall Quarter, and the last two weeks of December. Summer Quarter hours and requirements may differ from those of the academic year.

SCC FOUNDATION
(206) 546-4755
The Shoreline Community College Foundation directly assists students by providing emergency aid and scholarships to those in need. Because of generous donations, the Foundation can help students with such necessities as partial tuition, books, utility bills, child care, and bus passes. High school scholarships, returning student grants and transfer student scholarships are also awarded through the Foundation. The goal of the Foundation is to make the difference that allows students to stay in school.
SERVICES FOR STUDENTS WITH DISABILITIES
[206] 546-4545

The Services for Students with Disabilities (SSD) Program is housed in the Student Development Center (5000 Building). All students who qualify as having a disabling condition under section 504 of the Rehabilitation Act of 1973, the Washington Core Services bill or the Americans with Disabilities Act, may request accommodation or assistance from the SSD program. Students with questions about qualification should contact the program office for an appointment.

It is the mission of the SSD program to ensure that these mandates are followed and that all students have access to educational programs, campus services and activities. SSD program staff are committed to providing students with exceptional individualized service.

This commitment to student service and satisfaction is demonstrated by service standards which include: attending to students promptly and courteously, maintaining strict confidentiality, making sure that students are referred to appropriate resources as necessary and ensuring that students are treated with dignity, respect and kindness.

Examples of possible accommodations include testing accommodation, note-taking assistance and referral for tutoring. Other services include personal counseling, academic advising, career assessment, referral to resources on and off campus and other assistance as appropriate.

Students requesting accommodation should call the SSD program office at (206) 546-5832 or (TTY) (206) 546-4520 for information on specific accommodations or to make an appointment with the SSD coordinator.

VETERANS OFFICE
[206] 546-4645 or [206] 546-4559

Selected programs of study are approved by a Washington State Approving Agency for enrollment of those eligible for benefits under Title 38 and Title 10, U.S. Code.

Veterans or other students who are planning to attend Shoreline Community College under benefits offered by the Veterans Administration and who have any questions about applications, credit load requirements, courses acceptable in specific programs, changes of educational goals, etc., must check with the veterans coordinator in the Veteran’s Office (FOSS Bldg., Room 5246) or with the veterans counselor in the Student Development Center (FOSS Building, Room 5229). Vietnam and Persian Gulf veterans should check with the Veterans Affairs Office before registration regarding their eligibility for fee waivers.

To receive the fee waivers, veterans need to have served “in the combat zone,” not just during the time period. A Vietnam veteran needs to be a Washington State resident at the time of enrollment, and on active duty in the U.S. military in S.E. Asia between 8/5/64 and 5/7/75. A Persian Gulf veteran must have been a Washington State resident as of August 1990 and on active duty in the U.S. military in the Persian Gulf combat zone in calendar year 1991.

V.A. application deadlines are extremely important, and it is recommended that contact with the college Veterans Office be made as soon as possible.

Many benefits and services are available to veterans at Shoreline Community College. Those who have any difficulties with either the questions about the V.A. or the college program should contact the Veterans Counselor or the Veterans Coordinator.

All persons receiving Veterans benefits are subject to “Standards of Progress” and “Standards of Conduct,” statements required by the Veterans Administration. The “Standards of Progress” statement requires maintaining a minimum of 1.75 grade-point average, reporting changes in attendance or progress to the veterans coordinator promptly and completing a course of study in the length of time approved by the Veterans Administration. Any V.A. beneficiary who fails to meet these standards will be placed on probationary status for Veterans benefits for the following quarter.

Students who are placed on probation must complete all subjects for which they are registered with at least a 2.0 GPA, in addition to the requirements listed above. Students who fail to meet the standards for the probationary period will have their certification for Veterans benefits terminated for lack of sufficient progress and will be required to complete counseling before they are allowed to have their benefits reinstated. For further information, see the Veterans Counselor in the Advising and Counseling Center or the Veterans Coordinator in the Records Office.

The “Standards of Conduct” statement for veterans is the same as for all students at Shoreline Community College, as indicated under the Student Life section in this catalog.

WOMEN’S CENTER
(206) 546-4715

The Women’s Center reflects the college’s commitment to student success and educational excellence. It supports women and men who are exploring or pursuing educational opportunities by providing an array of services and initiatives that are grounded in principles of equity and inclusiveness.

Located in the Pagoda Union Building, the Women’s Center is a comfortable place for meeting informally, sharing information and learning about college and community resources. The Center is open from 8 a.m. to 5 p.m., Monday through Thursday, and from 8 a.m. to
4:30 p.m. on Fridays. Summer hours may vary. Students and community members have access to these services:

**Information and Resources**
Personalized referrals are provided to individuals with questions about housing, legal assistance, child and health care, financial matters, and other concerns. The Women’s Center also has reference materials on topics related to women’s lives and experiences. Information about financial resources for college students is available.

**Learning Opportunities**
Lectures, performances and exhibits are held each quarter to increase awareness of different issues and perspectives. An array of presenters – educators, artists, writers, performers – is highlighted.

Workshops, special topics groups, and classes are organized in response to students’ interests and needs. These sessions may include life transitions, personal safety and self-defense, ways of knowing, and managing personal finances.

The Women’s Center arranges special events on campus, including Women’s History Month celebrations, Multicultural Week and the Expanding Your Horizons Conference for high school women to explore careers in math, science and technology fields.

**LEARNING ASSISTANCE CENTERS**

**Academic Skills Center**
(206) 546-4308
The Academic Skills Center (ASC) provides opportunities for students to learn study techniques and improve reading and/or writing skills in a lab environment. Students learn through a variety of media, including computer programs, audio and video lessons, and traditional text materials. The Center’s director develops an individualized program of study and provides feedback to students. Learning assistants are available for one-on-one instruction. Students may also receive individual assistance on a walk-in basis with assignments from other classes in which they are enrolled. The ASC is located in Room 1501.

**Math Learning Center**
(206) 546-5825
The Math Learning Center (MLC), located in the 2200 Building, serves students in math courses from arithmetic through calculus. The MLC provides individual assistance and the opportunity for students to work in groups. Equipped with computers, graphing calculators, videos and printed materials, the MLC provides a supportive environment for students studying math.

**English as a Second Language (ESL/GED Computer Lab)**
(206) 546-6624
The ESL/GED Computer lab is located in Room 1721 and provides students with additional assistance towards learning English as a second language. The lab is equipped with computers and training modules to enhance the study of the language. Students may drop-in during open lab hours.

**INTERNATIONAL PROGRAMS**
(206) 546-4697
(206) 546-7854 - Fax
Website: www.international.shoreline.edu
Shoreline Community College currently serves more than 400 international students from over 40 different countries. Our International Student Office provides comprehensive services to each of our students. International students are a valued part of our campus community and significantly contribute to Shoreline’s multicultural environment.

International students choose Shoreline Community College for many reasons its close proximity to downtown Seattle, ease of transfer to a university to obtain a bachelor’s degree, and the quality of the education at an affordable cost.

Shoreline offers a comprehensive ESL program that allows international students to take college classes while completing the higher levels of their ESL training.

**TUTORING**
(206) 546-7852
The Carl Perkins Support Services program manager and staff are available to assist and advocate for students with special needs who are members of special populations such as single parents, re-entry students, limited-English-speaking students, students receiving financial aid and students with disabilities. Services provided may include, but are not limited to, providing access and referral to tutoring, counseling, guidance and other educational services on campus. The staff also advocates on behalf of students who receive supplemental assistance from community and governmental agencies such as Division of Vocational Rehabilitation, Department of Social and Health Services and Employment Security.

Tutoring services are also available in the Transfer Student Tutoring office in Room 952 for students intending to transfer to a four-year college or university. Students may also find jobs as tutors through this office. A number of drop-in centers are also available on campus for academic assistance.
NEW STUDENT ORIENTATION

Shoreline offers a comprehensive orientation and registration program for new students, which includes a packet of orientation materials, a multimedia presentation, small-group discussions and individual advising assistance.

At orientation students are provided with information about Shoreline's programs, services and degrees. Students are given assistance reading class schedules, placement testing, financial aid and connecting to advisors, counselors and student campus activities. Copies of placement test scores and evaluated transcripts are normally made available to students, provided official transcripts are on file in the Admissions Office before the orientation appointment. Transfer students who need a transcript evaluation after their initial registration should fill out a request form at the Information Desk in the 5000 (FOSS) Building.

Upon completion of the application, students make an appointment for new student orientation and registration. New students who have already earned a bachelor's degree and do not need advising may go ahead and register at their scheduled time.

Continuing students have first priority in completing their registration based on the total number of completed credits identified on all official college transcripts that are submitted to the Admissions Office. Advising and an advisor's signature is not required for a continuing student who has completed 15 Shoreline credits and:

1. is not enrolled in an English as a Second Language program;
2. is not an international student; or
3. is not enrolled in a selected professional/technical program.

It is strongly recommended, however, that students seek advising services before registration to ensure progress toward degree and certificate requirements.

ASSESSMENT TESTING/COURSE PLACEMENT
(206) 546-4608

Shoreline conducts the ASSET and COMPASS placement tests to help students identify their skill levels in reading, writing and math. Test scores are used to help ensure accurate placement in English and math courses. Students who have taken either the SAT or ACT test within the previous three years may submit these scores in lieu of the ASSET or COMPASS test. Information about the assessment program will be provided to new students when they apply for admission and when they receive instructions regarding the registration process. These tests also determine the ability of a student to benefit from instruction at Shoreline Community College. Placement based on ASSET, COMPASS, SAT or ACT scores is required for the following students:

1. students who declare an intent to pursue a college degree or certificate.
2. students who plan to enroll in a math, English or a ‘W' designated course or any course with math or English prerequisite. 'W' courses include extra writing requirements and are identified in the quarterly class schedule.

Placement testing is waived for transfer students who submit official college transcripts showing successful completion of both college-level math and English composition with a grade of 2.0 (C) or better.

Note: All students who are non-native speakers of English and who have been in the United States less than four years will have their English skills assessed, according to the policies and procedures of the English as a Second Language (ESL) program described elsewhere in this catalog.

FINANCIAL AID
(206) 546-4762

Shoreline offers financial assistance to students enrolled in an eligible degree or certificate program at the college. Eligibility is determined by federal and state regulations based on information students and parents report on the application forms. Students might receive aid in the form of grants, employment or student loans. Students are encouraged to complete the federal FAFSA form as soon as possible after January 1 for the following academic year which starts at Shoreline in summer quarter. Financial aid files complete by April 15, with all the required documents, will be given priority consideration for available funds.

To apply for aid, students must:

1. Complete the FAFSA (Free Application for Federal Student Aid) and submit it to the federal processor. Students may apply using either the paper form or on the Internet. Applications are available in the Financial Aid Office, 5000 Building, and are available at high schools and public libraries. The web application can be located at www.fafsa.ed.gov; students and parents can request a financial aid PIN at www.pin.ed.gov to use to electronically "sign" the FAFSA and for other electronic federal financial aid processes.

2. Complete the Financial Aid Data Sheet for Shoreline

3. Have academic transcripts from prior colleges attended in the last 10 years submitted to the Admissions Office and evaluated for credits that can transfer to
Shoreline; and

4. Submit all additional documents as required by the Financial Aid Office.

5. After a file is complete, eligibility for aid will be determined, and students will be notified by mail. Student loans require an additional application. The Data Sheet and other forms are available on Shoreline’s Financial Aid office web site: www.shoreline.edu/financialaid/

**General Eligibility Requirements**

To receive financial aid, federal regulations require that students must:

- be eligible according to federal calculations based on the FAFSA;
- have a high school diploma or GED; or submit a copy of passing scores on the ASSET or COMPASS placement tests for math (numerical), reading, and writing;
- be enrolled in an eligible degree or certificate program;
- be a U.S. citizen or eligible non-citizen;
- have a valid Social Security Number;
- make satisfactory academic progress;
- sign the FAFSA statement certifying that they will use financial aid only for educational purposes;
- not be disqualified based on a conviction for a drug-related offense;
- certify that they are not in default on a federal student loan and do not owe a repayment of a federal grant; and
- be registered with the Selective Service, if required;
- not currently enrolled in high school.

Additional eligibility notes:

- Students generally must be enrolled for at least half time (6 credits) to receive aid; students enrolled for less than half time might be eligible for a limited amount of federal Pell grant assistance.
- A student must be an undergraduate to receive grants. Students who have received a bachelor’s degree or its equivalent or a first professional degree are not eligible for grants, but they are eligible for student loans. As required by federal regulations, this includes unaccredited or foreign schools and schools not accepted or recognized by Shoreline.
- Students cannot receive financial aid from two schools at the same time.
- Shoreline participates in study-abroad programs approved for academic credit. Eligible students may receive financial aid through available grant and loan programs offered at Shoreline.

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**Types of Aid Available**

**GRANTS AND WAIVERS**

**Federal Pell Grants**

This federal grant is available to eligible students enrolled at least part-time. In some cases, limited amounts of Pell Grants may be available to students enrolled for less than six credit hours. Grants will be awarded in amounts up to $4,050* for the 2005-06 academic year. Determination of the amount is based on the FAFSA application information submitted by the applicant to the federal processor.

*subject to change

**Supplemental Educational Opportunity Grants (SEOG)**

These federal grants are available to students with exceptional financial need and range from $100 to $1,000 for the year. Priority is given to students with the greatest need who meet the priority deadlines.

**Washington State Need Grants**

These are available for state residents enrolled for at least 6 credits. Students must meet other criteria established by the state.

**Shoreline Grant, Tuition and Fee Waivers**

These are available for state residents enrolled for at least 6 credits. The state permits colleges to award this grant and/or to waive a portion of resident tuition and fees for a limited number of eligible students.

**EMPLOYMENT**

**Federal and State Work-Study**

Work Study is a program in which students are employed and earn money to help pay for their educational expenses. Paychecks are received twice each month for the hours worked. The earnings are partially subsidized by federal and state funding. Jobs are available on and off campus.

**STUDENT LOANS**

Shoreline Community College participates in federal loan programs including the federal Direct Loan (subsidized and unsubsidized), parent PLUS loan and Nursing Loans. Students are encouraged to borrow as little as possible, as cumulative debt by the end of college can be financially difficult.

More information about the federal Direct Loan program is available in the Financial Aid Office and on the Internet at www.dlsonline.com.
Subsidized Direct Loans
The maximum loan is $2,625 per academic year for first-year students and $3,500 for second-year students (must have completed half of the required credits in their program of study). Eligibility for the subsidized Direct Loan is based on financial need as determined using the federal FAFSA application and the credits completed in their degree program.

Unsubsidized Direct Loans
Unsubsidized Direct Loans are not based on financial need. First-year dependent students may borrow up to a combined maximum of $2,625 in subsidized and unsubsidized Direct Loans. Second-year dependent students with at least half of the required credits completed in their degree program may borrow up to a combined maximum of $3,500. Independent students may borrow up to $4,000 in unsubsidized Direct Loans in addition to the maximum subsidized amounts, depending on need and the cost of attendance (see Estimated Costs of Attendance below).

The interest rate on these loans is variable, not to exceed 8.25 percent.** Although application is made through the college, the loan is granted through a bank or other lender, requiring the student to complete an application process in addition to the FAFSA. Further, loan counseling is required of all first-time borrowers, and exit interviews are required of all borrowers when they leave the college.

If a Direct Loan recipient’s enrollment drops below 6 credits during a quarter, the college is required by the U.S. Department of Education to cancel the student’s loan. The student is no longer eligible to receive any further funds from the original loan application. The student must be re-approved for the receipt of further loan aid, and must submit a new student loan request form.

Student loan checks are available for each quarter of enrollment in the academic year. For first-time borrowers, in their first year, the first loan check will not be available until 30 days after the first quarter begins.

Nursing Loans
Students admitted to the Nursing Program may borrow up to $2,500 a year. These funds are available to those who demonstrate need. These loans must be repaid during a 10-year period after completing the degree program. Interest is paid during the repayment period at 5 percent.

Short-Term/Emergency Loans
Who may borrow? Continuing students with a 2.0 GPA. A cosigner may be required.

Conditions of the loan: Loans are granted for resident tuition, books, and emergencies. The maximum amount a student may borrow is the amount needed for the quarter’s books, or the amount needed to pay resident tuition, or $150 for emergencies.

Service charge and repayment: A service charge of $5 is placed on each loan. To assist as many students as possible with these limited funds, a short-term loan must be repaid within 60 days of the date of the promissory note, and no later than the end of the quarter in which the loan is made.

How to apply: Students must apply in person through the Financial Aid Office. The application may require additional documentation.

Satisfactory Academic Progress for Financial Aid Recipients
Satisfactory academic progress toward a degree or certificate must be maintained to be eligible for financial aid. Students must meet the academic standards of the college and the requirements of the financial aid policy for progress. A complete copy of the policy is available in the Financial Aid Office and is mailed with each initial notification of financial aid. The policy is also available at www.shoreline.edu/financialaid/.

Academic performance is evaluated each quarter and on an annual basis, according to the Registrar’s grade reports and/or an instructor’s report. Each quarter, full-time students are expected to register for and complete a minimum of 12 credits with at least a 2.0 grade point average (GPA). Students must achieve and maintain at least a 2.0 cumulative GPA. Students are also expected to complete at least 75 percent of all credits they attempt.

Grades of 0.0, H, I, N, NC, V, W and Z do not count toward completed credits. At the end of each quarter, full-time students who complete less than 12 credits and at least 6 credits are on financial aid probation. Students on probation must complete all credits for which they enroll (at least 6) with a GPA of 2.0 or higher. If they fail to make progress during a probationary quarter, financial aid is canceled until they have reinstated their eligibility. Students may reinstate eligibility by completing at least 6 credits in a quarter without financial aid, earning at least a 2.0 g.p.a. for the quarter; and they must also achieve or maintain a cumulative g.p.a. of at least 2.0 and a 75% completion rate. Aid is normally available for 125 percent of the number of credits required for the program of study.

**Interest rates and other conditions are subject to change, and the federal government pays interest charges for students only on subsidized Direct Loans for students enrolled at least half time.
If unusual circumstances prevent a student from making progress, students may submit a written petition to request that their eligibility for aid be reinstated. Students must attach supporting documentation to their petition.

**ESTIMATED AVERAGE COSTS OF ATTENDANCE FOR FINANCIAL AID**

The following estimated average costs will be used to determine financial aid eligibility for a state resident attending full-time for three quarters (nine months) in the 2005-2006 academic year. The tuition and fee amounts are determined primarily by the State Legislature; the other expenses are estimated averages.

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<thead>
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<th>Living with parents/relatives</th>
<th>Living away from parents/relatives</th>
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</table>

Expenses will vary depending on special program costs, non-resident tuition, daycare and other factors. The student budget is revised annually to reflect current costs.

**QUALIFYING SKILL-BUILDING COURSES**

The following courses are designed to increase the ability of a student to pursue a course of study leading to a certificate or degree offered by Shoreline Community College. Classes acceptable for financial aid will be funded to a maximum of three (3) quarters or 45 credits. (Tutorial and audit classes are not acceptable.) All other provisions of the Satisfactory Academic Progress Policy must be met by financial aid recipients.

- BioSc 090
- Chem 090
- Eng 080
- Eng 081
- Eng 082
- Eng 083
- Eng 087
- ESL 090
- ESL 091
- ESL 092
- ESL 093
- ESL 096
- ESL 098
- ESL 100A
- ESL 100B
- Math 060
- Math 070
- Math 080
- Math 081
- SpCmu 095A
- SySk 099
- TLS 10A
- TLS 10B

**RIGHTS AND RESPONSIBILITIES**

**Rights**

All financial aid recipients have the right to review their financial aid file for the accuracy of the information contained therein and submit corrections. Confidential information covered under the Privacy Act may not be reviewed without prior approval of the individual concerned.

**Responsibilities**

Students and their families have the primary responsibility for paying for their educational expenses. In addition to expected contributions from parents or guardians, students are expected to contribute from their savings and earnings. Federal and state financial aid programs are intended to supplement, not replace, the resources of a student’s family.

Students are responsible for:

- knowing when their tuition, fees and other charges are due;
- understanding when and how financial aid funds will be available to help pay expenses;
- ensuring that they have other funds to pay their remaining expenses, if financial aid does not cover all expenses;
- completing all applications clearly and completely, and submitting all additional documentation required by the Financial Aid Office;
- reading and understanding all information mailed to them related to financial aid;
- knowing the financial aid requirements for Satisfactory Academic Progress;
- completing all credits each quarter for which they receive financial aid with at least a 2.0 G.P.A.;
- informing the Financial Aid Office if they will receive agency funding or a scholarship to help pay their expenses at Shoreline;
- notifying the Financial Aid Office immediately when they officially withdraw from classes (or when they withdraw unofficially by stopping attendance in their classes); and
- starting each quarter with their own money to pay for their initial expenses, as financial aid checks are not available until after the first day of the quarter.

**Withdrawal From Classes:** Should it become necessary for a student to withdraw from classes, he or she should obtain a Schedule Change Form from Registration. The form should be completed and returned to Registration so that the Financial Aid Office is notified. Students should indicate their last day of attendance on the Schedule Change Form (add/drop form). If required, students might have to repay a portion of the aid they received (see following).

**Withdrawal or Not Completing Credits After Receiving Financial Aid: Requirements for Repayment and Return of Aid**

When students receive financial aid, either by picking up a check or by having tuition or other charges paid electronically, they are expected to complete the credits for which they received the aid.
When students officially or unofficially withdraw from Shoreline after they receive financial aid, or if students complete zero credits in any quarter they received financial aid, they might have to repay a portion of the aid they received. Shoreline also might have to return some financial aid funds to federal or state programs.

Shoreline uses the federal "Return of Title IV Funds" requirements to calculate the amount of federal financial aid that must be repaid by students and the amount that must be returned to the federal aid programs by Shoreline. This calculation is based on the withdrawal date.

The federal calculations generally use a student's date of official withdrawal or the last documented date of attendance in class to determine the amount of federal financial aid (Title IV SFA program funds) that the student did not "earn" by remaining enrolled. The amount of Title IV aid funds that the student received in excess of the standard costs of attendance for the time in class must be repaid or returned to the student aid programs.

For the State Need Grant and for the Shoreline Grant, Shoreline's Institutional Refund policy is used to determine the amounts that must be returned to these state aid programs, and to determine the amount of non-institutional expenses for the calculation of state aid that must be repaid by students.

State funds used for institutional charges will be returned after federal Title IV aid funds. The federal and state aid funds will be returned in the following allocation order: Unsubsidized Federal Direct Loan, Subsidized Federal Direct Loan, FFEL PLUS loan, Federal Pell Grant, FSEOG, State Need Grant, and Shoreline Grant (state 31⁄2% funds).

Students are expected to notify the Financial Aid Office immediately when they withdraw officially (or when they withdraw unofficially by stopping attendance in their classes). If students owe a repayment of financial aid, they will not be eligible to receive aid in the future until they have repaid the full amount owed.

This policy is subject to change, and a complete copy of the current policy for repayment and return of all aid types is available in the financial aid office.

**Concurrent Enrollment**
Students are allowed to receive financial aid only from one college for the same enrollment period — they are not allowed to receive aid from two colleges at the same time. Students attending two colleges simultaneously (concurrent enrollment) are eligible to receive aid only from the college at which they are seeking a degree or certificate.

**WORK BASED ASSISTANCE**

**Worker Retraining Program**
The Worker Retraining Program, located in the Career/Employment Services One-stop Center, provides excellent opportunities for skills upgrades or career retraining for dislocated workers and displaced homemakers.

Students can select any one of over 50 professional/technical programs - from a one-quarter skills upgrade to a two-year certificate program. Students receive one quarter of free tuition from the college, plus referrals to on-site funding sources that may provide up to two years of additional funding. Depending on the availability of funds and the student's eligibility, financial assistance for books and funds for ASSET testing may also be available.

The program targets people who are currently receiving unemployment insurance or who have been on unemployment insurance in the past 24 months. Displaced homemakers may also qualify for the program.

At the Career/Employment Services Center, students have access to on-site representatives from Employment Security and various funding sources. The Worker Retraining Program also coordinates closely with the Financial Aid office at SCC. Worker Retraining students receive priority registration, educational planning, enrollment assistance, and job search assistance.

Orientations with program information are held weekly. To find out about the next orientation session, call (206) 546-4610, email shorecareers@shoreline.edu or visit the Career/Employment Services Center.

**WorkFirst**
The WorkFirst Program provides job-related training and free tuition and books for clients who are disadvantaged and of low income. For eligibility requirements, call (206) 546-6992.

**Available Services Include:**
- financial aid and assessment for tuition and books;
- career interest tests;
- ASSET test for math and English placement;
- career placement assistance;
- internships;
- career and job opportunities — part-time, full-time and seasonal;
- employment preparation — the resume, the interview, job search strategies;
- employer interviews on campus; and
- Internet career assistance.
THE COOPERATIVE EDUCATION INTERNSHIP PROGRAM
(206) 546-7843

The Co-operative Education Program provides students the opportunity to utilize skills learned in the classroom and to gain relevant work experience while receiving college credit. Students participating in a Co-operative Education internship work closely with a faculty advisor to ensure that the internship is a valuable learning experience.

Although several professional-technical departments run their own internship programs, many departments utilize the Co-operative Education program. Located in the Career/Employment Center on the second floor of the Foss Building, Co-op staff can assist students with finding and setting up an internship, writing a resume, interviewing, and processing the Co-op Ed paperwork.

For more information, talk to your faculty advisor or call (206) 546-7843.

OTHER STUDENT SERVICES

BOOKSTORE
(206) 546-4732

The College Bookstore, on the lower level of the 5000 (FOSS) Building, stocks textbooks, class required supplies and materials. In addition, the bookstore stocks art, photography and office supplies, software, snacks, gifts, and Shoreline logo clothing. The bookstore is an authorized Apple Store and maintains an online site for Apple computers, which can be purchased by enrolled students at an educational discount.

The bookstore accepts cash, MasterCard and Visa and personal checks with student picture ID.

Fall, winter and spring quarter normal hours are 7:15 am to 6:00 pm, Monday through Thursday, and 7:15 am to 4:00 pm Friday.

The bookstore is open extended hours the week before the quarter begins, and the first week of the quarter. Hours vary for summer quarter and the time period between the end of summer quarter and Labor Day. Open hours are posted, and are available on the information phone line: (206)546-4731.

Online Bookstore
Students are encouraged to take advantage of the bookstore website which can be access directly at http://www.shorelineccbookstore.com or via links from the Shoreline Community College web page. This site is operational 24 hours a day, 7 days a week. Students may purchase textbooks at this site and have the books shipped to their home address or bundled for pickup at the bookstore. Purchases made online must be paid with a MasterCard or Visa. The site provides up-to-date information about textbook availability and pricing.

Textbook Buyback
At the end of each quarter during exam week, the bookstore invites a used book wholesaler to conduct a textbook buyback. There are two levels of pricing for books; 50% of the new retail price will be paid for books that the bookstore needs for the upcoming quarter. Need is based on the information the bookstore receives from the instructors and the level of bookstore stock. Books that the bookstore does not need are bought back based on the current national demand. These books are shipped to the wholesalers warehouse for resale. Wholesale prices are approximately 10-30% of the new retail price. Out-of-print books and old editions are not in national demand and therefore may have no buyback value.

CAMPUS SALON
The SCC Campus Salon is located in a brand new facility at 910 N. 160th Street, just a few blocks east of the main campus. The Salon offers a wide array of services at very affordable prices. Services include: haircuts, styles, colors, foils, relaxers, manicures and pedicures. All services are performed by students and supervised by licensed instructors. We are open to the general public, students, faculty and staff.

Call the salon at (206) 542-5056 for an appointment and a schedule of salon hours.

CAMPUS SECURITY
The Shoreline Community College Safety and Security Department provides security 7 days a week, 24 hours a day. The Safety and Security office manages traffic safety, parking, emergency preparedness and response and crime prevention. This office works closely with Shoreline Fire and Police Departments.

The Safety and Security Office is located in the Pagoda Union Building (Building 900) in room 968. The business line for the office is (206) 546-4633. For emergencies and/or after hours and weekends, a security officer can be reached by dialing 4499 from any campus or blue light phone. To contact Shoreline Police and Fire Departments directly from campus phones dial 9911 or 911 from pay phones or cellular phones.

Contact the Safety and Security Office for:
Emergencies (any fire, medical, or disasters); Crimes on campus, including damage to campus facilities or property, or traffic collisions, disputes, parking or other violations.
DENTAL HYGIENE CLINIC
[206] 546-4711
Shoreline Community College Dental Hygiene Clinic provides a number of dental services to adults and children who would like affordable dental care. The clinic dentists provide dental exams. Dental hygiene students, with supervision of instructing licensed dental hygienists, provide teeth cleaning, x-rays, fluoride treatments, sealants and selected fillings. This is an educational setting so appointment times are restricted to open clinic times.

FOOD SERVICE
[206] 546-4644
Food services are provided in Shoreline’s student center (PUB, Building 900). Hours are 7 a.m. to 7 p.m. on Monday through Thursday, and from 7 a.m. to 4 p.m. Friday during instruction and finals week of each quarter. Emphasis is placed on providing a variety of foods to meet special dietary requirements and diverse tastes. Customized service is available for meetings, banquets and other special occasions.

An espresso stand is located located in the courtyard outside the PUB, operating from 7 a.m. to 2 p.m. Monday through Friday. The Java Shack, located next to the 2400 building, operates from 7 a.m. to 7:45 p.m. Monday through Thursday and from 7 a.m. to 2 p.m. Friday. These stands are open when classes are in session.

Food service needs for persons with disabilities should be addressed to the college Americans with Disabilities Act compliance officer, located in the Human Resources Office of Building 1000.

HOUSING
Shoreline Community College is designed to serve students who commute to the campus. The college maintains no dormitories or other housing, and assumes no responsibility for independent housing facilities used by students.

As a convenience to students and local citizens, a bulletin board in the Pagoda Union Building near the Women’s Center is designated for posting rental listings available to Shoreline students. Rental units listed on the bulletin board must be available to all students, regardless of race, creed or national origin. Rental conditions and agreements are between the student and landlord.

INSURANCE
Student accident/health insurance (and/or other types of insurance) may be required in some programs. International students and study abroad students are required to have accident/health insurance coverage. Students must obtain their own health insurance coverage(s). A Injury and Sickness Insurance Plan brochure as well as Student and Family Dental Plan information request card are located at the Cashier’s Officer in the 5000 (FOSS) building.

PARKING AND TRANSPORTATION
Shoreline Community College is designed to serve students who commute to the campus. Parking permits or day passes are required for ALL parking areas at Shoreline’s main campus and in the Sears shuttle parking lot. Quarterly permits may be purchased at the Cashier’s Office in the FOSS Building. Permits may be purchased at the time of registration. If you do not wish to purchase a quarterly permit, a day or evening permit may be purchased at one of the gates.

For vehicles transporting two or more students, carpool permits are available at the Safety and Security Office. Carpool lots are reserved for carpool only parking from 7 a.m. until 1 p.m.

A shuttle bus service is available from the Sears lot (off 160th) and the Greenwood lot to the main campus. For information other transit service to the college, please call Metro at (206) 553-3000 or visit http://transit.metrokc.gov/bus/bus.htm

Parking fees are subject to change.

Parking permits must hang from your vehicle’s rear view mirror as instructions indicate to be valid.

Parking areas will be marked and it illegal at all times to park in roadways, fire lanes, bus zones, loading zones, service driveways, on sidewalks, on landscape, in zones with red curbs and “No parking” signs. Parking is not allowed in a reserved space without the appropriate permit or authorization.

Parking in illegal areas will result in fines or having your vehicle impounded. Vehicles will be impounded without warning for blocking a roadway so as to impede the flow of traffic, blocking a fire hydrant or fire lane, creating a safety hazard, blocking another legally parked vehicle, parking in a marked tow away zone, or for outstanding unpaid parking citations.

Campus Safety and Security Officers patrol the campus (including the Sears lot). Officers may initiate vehicle stops for violations of traffic laws, which are applicable on all campus properties. Enforcement action may include a disciplinary referral to the Vice President of Student Services or citation and arrest depending on the specific violation, incident and totality of the circumstances.
Enforcement action may be taken to enforce state traffic laws including, but not limited to, speeding, negligent or reckless driving, failing to obey a traffic control device (stop sign), failing to yield to pedestrians, and all other traffic laws. If stopped by an officer, you are required to identify yourself. Failure to do so can result in disciplinary action and/or arrest, and impoundment of your vehicle.

Individuals may be cited for parking without a permit, parking in an unauthorized area, blocking a roadway, speeding, etc. If a fine is not paid, the college may delay a student's registration, place a hold on his/her transcripts and/or financial aid, impound the vehicle or turn the fine over to a collection agency.

Fines are payable at the Cashier's Office. If you believe a ticket was unjustified, you may fill out a citation appeal form at the campus Safety and Security Office (968). Appeals must be filed 5 working days after the date on the ticket; after that time you are required to pay the fine and may not appeal.

**Suggestions for Easier Parking**

- The Greenwood Avenue North lower lot usually has parking available throughout the day.
- Consider taking classes in the afternoon and at night, when parking is readily available in most student lots.
- Parking permits may be purchased at the Cashier's Office in the 5000 (FOSS) Building.

Please be considerate of our surrounding community by adhering to the speed limits, not parking in residential neighborhoods, and keeping all of our streets free of litter.
Shoreline Community College encourages students to take advantage of our services and facilities, and welcomes student involvement in campus activities and special events. Students are offered many opportunities to become involved in the campus community through attendance at special educational programs offered outside of the classroom, through participation with clubs and organizations that plan these programs, through participation in recreational or intercollegiate sports, and especially through working with the outstanding students, professional staff, and faculty who support these programs. Students can learn valuable skills and develop lifelong friendships by taking leadership roles in campus organizations. Your participation in the extracurricular programs that help define campus life is always valued and will broaden your educational experience at the college.

Shoreline Community College expects students to exercise good judgment when using buildings, equipment or campus grounds, when participating in classroom discussions, assignments or tests, and when interacting with other members of our campus community. A complete list of student standards of conduct, as well as campus rules and procedures, is printed in the college Policy Manual, which is available in the Ray W. Howard Library/Media Center, the Student Programs Office, the Student Government Office, and other administrative offices. College Policy 5030, the Student Code of Conduct and Discipline, outlines general expectations for student behavior and procedures for resolving issues of student conduct and discipline. College Policy 5033, Dishonesty in Academics, describes behavior that is unacceptable in the classroom and procedures for resolving situations involving academic dishonesty. College Policy 5035, Student Grievance Procedures-Academic Evaluation, provides procedures for resolving disputes that arise between students and faculty members regarding grades.

STUDENT PROGRAMS OFFICE
Pagoda Union Building, Room 952
(206) 546-4654 or 546-5862 or 546-5821

Shoreline Community College offers students unique educational opportunities for student leadership, co-curricular learning, service learning, social interaction, cultural expression, and recreational experiences. Activities include a variety of student clubs and organizations, performing arts, publications, intramural and intercollegiate sports, and college governance opportunities. Many of these programs are organized to supplement classroom learning, while many others are developed in response to student interest. The Student Guide, available at no charge through the Student Programs Office, provides a description of the more than 70 clubs and organizations available on campus, with contact information on how to become involved. Students are encouraged to join organizations on campus in the belief that this participation can build lasting friendships, provide unique educational experiences, and establish support systems of peers, faculty and staff advisors.
Many activities provide students with the opportunity to develop leadership skills, including learning how to manage meetings, how to recruit members and develop organizations, how to manage events, how to communicate with diverse groups, how to manage budgets, and how to promote programs. The Student Leadership program offers formal leadership training, with a credit option for club officers and members. Internships are also available through the Student Leadership program to plan major events. The Ambassadors Program offers students an opportunity to provide campus tours and other community outreach activities. The CAPS (Campus Ambassador Program) program provides a means for students to involve other students in campus activities. The Arts and Entertainment Board develops the college’s Artist & Lecture Series.

There are many opportunities for students to perform as part of the outstanding music department groups, drama, film and video programs available on campus. Students also receive significant discounts on tickets to attend the Artist & Lecture Series performances and intercollegiate athletics available on campus.

Listed on the next page are the organizations currently active on campus. Contact information for club advisors and descriptions of club activities and events are available in the Student Programs Office.

**STUDENT GOVERNMENT**

**Pagoda Union Building, Room 950**  
(206) 546-4541

The Student Body Association serves as the recognized representative of Shoreline Community College students on campus. Student leaders provide a student perspective to the college on campus life and the quality of educational programs and services on campus. Student leaders have the opportunity to address the Board of Trustees, staff members and governance committees on issues they deem important. They serve on faculty appointment review committees and on faculty and administrative hiring committees, and participate in developing the strategic plans, policies and priorities of the college.

Student Government also allocates funds to student clubs and organizations and provides support and advocacy for these groups. Student Government is an active participant in fostering the mission of Shoreline Community College, and it has provided leadership for many innovations on campus, including the creation of the Multicultural/Diversity Education Center, the creation of the Student Technology Fee (to fund computer labs), and the renovation of the Pagoda Union Building (PUB).

The Student Senate is composed of nine paid representatives, all of whom are elected during Spring Quarter. The Senate manages the Student Services and Activities Fee Budget, the Student Technology Fee Budget, and the PUB Renovation Fee Budget. The Senate also provides recognition of new student clubs and organizations, and serves as a forum for student issues and concerns. Responsibilities of the Senate, including the structure of standing committees on Budget and Finance, Constitution and Bylaws, and Publicity, are outlined in the Student Body Association Constitution, available in the Student Government Office.

The Student Executive Board is composed of six paid members, each having specific responsibilities outlined in the Student Body Association Constitution. All Executive Board positions are selected during Spring Quarter, with three elected (president, treasurer and legislative director), and three appointed (vice president, secretary, and student advocate).

The Student Body Association (SBA) president appoints student representatives to campus governance committees and to faculty Appointment Review Committees. Students are encouraged to apply for these jobs, as well as to fill vacancies on the Senate and Executive Board. The Student Advocate receives any student complaints and serves as a referral source for resolving these issues. Students are encouraged to visit Room 950 in the Pagoda Union Building to inquire about leadership opportunities available through Student Government.
### Campus Organizations

#### Organizations

<table>
<thead>
<tr>
<th>Organization</th>
<th>Advisor</th>
<th>Phone</th>
</tr>
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<tbody>
<tr>
<td>Academic Skills Center</td>
<td>Grace Rhodes</td>
<td>4308</td>
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<tr>
<td>ADA Compliance</td>
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<tr>
<td>Americans with Disabilities Act</td>
<td>Scott Saunders</td>
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<tr>
<td>Art Gallery</td>
<td>Natalie Niblack</td>
<td>4244</td>
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<tr>
<td>Baseball, Men</td>
<td>Steve Seki</td>
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<tr>
<td>Basketball, Women</td>
<td>Steve Eskridge</td>
<td>4649/6682</td>
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<tr>
<td>Basketball, Women</td>
<td>Petra Jackson</td>
<td>533-6654</td>
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<tr>
<td>Campus Ambassador</td>
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<tr>
<td>Choral Union</td>
<td>Fred Lokken</td>
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<tr>
<td>Colbert Lecture Series</td>
<td>Jamie Ardena</td>
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<tr>
<td>Concert Band</td>
<td>Ken Noreen</td>
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<td>Delta Epsilon Chi</td>
<td>David Starr</td>
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<tr>
<td>Ebbtide, The</td>
<td>Patti Jones</td>
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<td>Friends Parent/Child Center</td>
<td>Lisa Trichler</td>
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<td>Gallery</td>
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<td>General Activities Expense</td>
<td>Lisa Smith</td>
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<td>General Athletics, Men</td>
<td>Ken Burrus</td>
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<td>General Athletics, Women</td>
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<td>Instrumental Music/</td>
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<td>Jazz Ensemble</td>
<td>Doug Reid</td>
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<td>Intramural Sports</td>
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<td>Opera Workshop/Musicals</td>
<td>Susan Dolacky</td>
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<td>Phi Theta Kappa</td>
<td>Shawn Miller</td>
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<td>Phone Outreach Program</td>
<td>Scott Saunders</td>
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<tr>
<td>Plays/Video/Films</td>
<td>Jane Winslow</td>
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<td>Soccer, Men</td>
<td>George Dremausis</td>
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<td>Soccer, Women</td>
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<td>Softball, Women</td>
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<td>Spindrift Magazine</td>
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<td>Student Executive Board</td>
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<td>Student Guide</td>
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<td>Student Leadership Team</td>
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<td>Student Theater Group</td>
<td>Chris Fisher</td>
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<td>Student Theater Tech /</td>
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<td>Stage Crew</td>
<td>Ron Owens</td>
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<td>Tennis, Men/Women</td>
<td>Eric Moujtabah-Webster</td>
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<td>Transfer Student Tutoring Program</td>
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<td>Spindrift Magazine</td>
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<td>Volleyball, Women</td>
<td>Mark &amp; Raquel West</td>
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<tr>
<td>Women’s Programs</td>
<td>Cathy Chun</td>
<td>4716</td>
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</tbody>
</table>

* If calling from off campus, please use the extension 546-. If calling from outside the Seattle area, please use area code (206).

#### Clubs

<table>
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<tr>
<th>Organization</th>
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<tbody>
<tr>
<td>Action 4 Change</td>
<td>Robert Francis</td>
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<tr>
<td>African Student Club</td>
<td>Ernest Johnson</td>
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<tr>
<td>A.L.A.S [Assoc. of Latin American Students]</td>
<td>Esther Pineira-Hall</td>
<td>533-6618</td>
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<tr>
<td>American Sign Language</td>
<td>Richard Jacobs</td>
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<td>Archery, Men &amp; Women</td>
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<td>Art Club</td>
<td>Mary Wills</td>
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<td>Asian Pacific Islanders</td>
<td>Robert Hayden</td>
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<td>Badminton Club</td>
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<td>Black Student Union</td>
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<td>Bowling Club</td>
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<td>Buddhists for World Peace</td>
<td>Sonja Solland</td>
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<tr>
<td>Cause Chaos Improv Club</td>
<td>Tony Douppe</td>
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<tr>
<td>Clay Club</td>
<td>Patricia Wade</td>
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<td>Commercial Photography Group</td>
<td>Charles Loomis</td>
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<td>Composition Club</td>
<td>Jeff Junkinsmith</td>
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<td>Dance Club</td>
<td>Steve Eskridge</td>
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<td>Dental Hygiene</td>
<td>Oca Canfield</td>
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<td>Disciples for Christ</td>
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<td>Engineering Club</td>
<td>Kenneth Lynch</td>
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<td>Environmental Club</td>
<td>Brian Saunders</td>
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<tr>
<td>Feminist Majority Leadership</td>
<td>Katherine Hunt</td>
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<td>Fencing Club</td>
<td>Robert Shields</td>
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<td>Field Recording Club</td>
<td>Steve Malott</td>
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<td>Film Club</td>
<td>Jane Winslow</td>
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<tr>
<td>First Nations</td>
<td>Ken LaFontaine</td>
<td>4571</td>
</tr>
<tr>
<td>Golf Club</td>
<td>Tony Costa</td>
<td>7852</td>
</tr>
<tr>
<td>Hip Hop Club</td>
<td>Kathleen Lynch</td>
<td>4648</td>
</tr>
<tr>
<td>Hong Kong Student Union</td>
<td>Gabriel Wan</td>
<td>4746</td>
</tr>
<tr>
<td>Indonesian Fellowship Club</td>
<td>Daina Smurdrins</td>
<td>533-6649</td>
</tr>
<tr>
<td>International Club</td>
<td>Troy Wolf</td>
<td>4765</td>
</tr>
<tr>
<td>Japan Club</td>
<td>Kathleen Lynch</td>
<td>4648</td>
</tr>
<tr>
<td>Jazz Improv Club</td>
<td>Steve Kim</td>
<td>4391</td>
</tr>
<tr>
<td>Jewish Student Union</td>
<td>Steven Bogart</td>
<td>6986</td>
</tr>
<tr>
<td>Math Club</td>
<td>Scott Fallstrom</td>
<td>5825</td>
</tr>
<tr>
<td>Muslim Student Association</td>
<td>Ernest Johnson</td>
<td>4582</td>
</tr>
<tr>
<td>Nutrition &amp; Dietetic Tech</td>
<td>Alison Leahy</td>
<td>5891</td>
</tr>
<tr>
<td>Photo Forum Club</td>
<td>Dan Metke</td>
<td>4671</td>
</tr>
<tr>
<td>Piano Club</td>
<td>Helena Azevedo</td>
<td>533-6608</td>
</tr>
<tr>
<td>Ping Pong Club</td>
<td>Movakel Sargizzi</td>
<td>6994</td>
</tr>
<tr>
<td>Rainbow Club</td>
<td>Rachel David</td>
<td>4760</td>
</tr>
<tr>
<td>Rebel Alliance Club</td>
<td>Linda Warren</td>
<td>6987</td>
</tr>
<tr>
<td>Russian Club</td>
<td>Aleksy Koval</td>
<td>6907</td>
</tr>
<tr>
<td>SCCANS Nursing</td>
<td>Linda Barnes</td>
<td>4500</td>
</tr>
<tr>
<td>Self-Awareness Club</td>
<td>Janice Dashon</td>
<td>4593</td>
</tr>
<tr>
<td>Ski Club</td>
<td>Movakel Sargizzi</td>
<td>6994</td>
</tr>
<tr>
<td>Soccer Club</td>
<td>No advisor</td>
<td>4654</td>
</tr>
<tr>
<td>Sonic Arts</td>
<td>Cody Groom</td>
<td>4607</td>
</tr>
<tr>
<td>Speech, Language Pathology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Assistance (SLPA Shoreline)</td>
<td>Susan Sparks</td>
<td>533-6648</td>
</tr>
<tr>
<td>Students into Teaching</td>
<td>Betty Peace-Oldstone</td>
<td>4729</td>
</tr>
<tr>
<td>Vietnamese Club</td>
<td>Jennifer Caffman</td>
<td>4563</td>
</tr>
<tr>
<td>“Vine, The”</td>
<td>Shalin HoJew</td>
<td>4537</td>
</tr>
<tr>
<td>Visual Communications Tech</td>
<td>Jim Reddin</td>
<td>4671</td>
</tr>
<tr>
<td>WordSmithies Club</td>
<td>Ed Harkness</td>
<td>4516</td>
</tr>
<tr>
<td>World Peace Buddhist Group</td>
<td>Sonja Solland</td>
<td>4686</td>
</tr>
<tr>
<td>Worldly Phil. &amp; Dismal Sci.</td>
<td>Kenneth Lawson</td>
<td>4691</td>
</tr>
<tr>
<td>Yoga Club</td>
<td>No advisor</td>
<td>4654</td>
</tr>
</tbody>
</table>
The College offers a complete program of intercollegiate competition for both women and men. Shoreline is a member of the Northwest Athletic Association of Community Colleges (NWAACC), which includes 39 colleges in Washington, Oregon, Idaho, and British Columbia.

Program offerings include men’s and women’s soccer, women’s volleyball, men’s and women’s basketball, men’s and women’s tennis, women’s softball, and men’s baseball. Teams routinely travel as far as Coos Bay, Oregon and Coeur d’Alene, Idaho for league competition. Scholar athletes and league all-stars are honored each spring at the annual All Sports Awards Banquet. The Department has an excellent coaching staff that includes a former Olympic volleyball player and women’s basketball coach who played professionally. Coaches are allowed to award partial tuition scholarships.

In addition, Shoreline is a leader among NWAACC colleges in its commitment to student/athlete academic success. In the fall of 2004, Steve Seki was hired as the Athletic Department’s Student/Athlete Academic Success Manager. Seki works with all athletes in the Department to help them achieve academic success as they work towards their graduation requirements. For more information on Intercollegiate Athletics, please call 206-546-4746.

Students are encouraged to become involved and make suggestions for new programs. The Intramural Department works towards providing any activity or program that is of interest to the students of Shoreline Community College. For more information, please call 206-546-6994.

The Shoreline Community College Intramural Department encourages all students to participate in a wide variety of recreational activities. The program features leagues, tournaments, clubs and specialty programs. League and tournament activities are geared towards men and women of all ages and skill levels. Beginners are welcome! Basketball, soccer, racquetball, ping-pong, and badminton are some of the more popular activities. Club activities are less competitive or non-competitive in nature. The purpose of these clubs is to allow people with similar interests to get together and participate in their chosen activity. Ski Club, Backpacking Club, Fencing Club, and Archery Club are a few examples. Specialty programs include both individual events and year long activities. The annual river rafting trip and the annual spring break ski trip are examples of individual events, while the swimming, yoga, and aerobics programs are examples of year-long activities.

The Arts & Entertainment Board provides a diverse schedule of music performances, lectures, comedy and special events for students and the community. At the same time, the Board provides employment opportunities and training for students to learn entertainment booking, contract negotiation, promotion and concert staging. The Board functions as a production team, with two special events coordinators responsible for auditioning and hiring entertainers and promoting events, two graphic arts coordinators responsible for designing promotional materials, a lecture series coordinator to oversee the operation of the Robert E. Colbert Lecture Series of eminent speakers, and two stage managers to operate sound and lighting equipment at events. The Arts & Entertainment Board announces the schedule of big name performances in an Artist & Lecture Series flier distributed each September. Numerous other events are scheduled for daytime performances on campus.
S

Shoreline’s academic regulations are an ongoing concern of the Faculty Senate and the college governance structure. As such, any of the following requirements are subject to periodic review and possible change.

**GRADING**

**PROCEDURAL GUIDELINES**

1. **Time Frame for Assignment of Possible Grades – Fall, Winter, Spring**

<table>
<thead>
<tr>
<th>WEEK(S)</th>
<th>POSSIBLE GRADES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 – 2</td>
<td>None</td>
</tr>
<tr>
<td>3 – first day of seventh week</td>
<td>N or W—if early exit procedure is followed</td>
</tr>
<tr>
<td>7 – last day of instruction</td>
<td>I, NC, F, P, V, Z—if early withdrawal procedure is followed</td>
</tr>
<tr>
<td>Final Exam Week</td>
<td>4.0 - 0.0, H, I, NC, P, V, Z</td>
</tr>
</tbody>
</table>

2. **Time Frame for Assignment of Summer Quarter Grades**

   The Registrar’s Office will publish the time frame for summer quarter.

3. **Grading System**

   Instructors may report grades from 4.0 to 0.7 in 0.1 increments, and the grade of 0.0. Grades in the range of 0.6 to 0.1 may not be assigned. Numerical grades may be considered equivalent to letter grades as follows:

   4.0 - 3.9  A
   3.8 - 3.5  A-
   3.4 - 3.2  B+
   3.1 - 2.9  B
   2.8 - 2.5  B-
   2.4 - 2.2  C+
   2.1 - 1.9  C
   1.8 - 1.5  C-
   1.4 - 1.2  D+
   1.1 - 0.9  D
   0.8 - 0.7  D-
   0.0       F

   **H: Hold Grades** – Course still in progress after grading deadline has passed - With the approval of the Vice President for Academic Affairs, instructors teaching courses that extend beyond the end of a quarter will award an H grade to all students at the time when grades are normally due. Upon the completion of the course, the instructor will award the final grades that will replace the H grade on each student’s transcript.

   **I: Incomplete** – At a student’s request, a grade of Incomplete may be given when the instructor agrees that the student is unable to complete the requirements of the course during the eleven-week quarter but can successfully complete the course work with no additional instruction.

   The instructor must specify on a standard Incomplete Contract form what requirements the student must fulfill in order to convert the Incomplete grade to an appropriate grade.

   To obtain credit for the course, the student must convert an Incomplete into an appropriate grade by completing the requirements specified in the standard contract within the time limits specified therein, not to exceed one calendar year from the date of the contract.
N: Audit – To audit a course, a student must register for the course and pay the required tuition and fees. Class participation will be at the instructor’s discretion. Students may change their registration status to or from audit by completing the appropriate form in the registration office no later than the first class day of the seventh week of the quarter. Ns will appear on the transcript but are not counted in the GPA computation.

P/NC & P/0.0: Pass/No Credit & Pass/0.0 – This grade is given when a student successfully completes a course offering a Pass/No Credit (P/NC) option. By assigning a P, the instructor certifies a performance level of at least 2.0. P allows credit for the course, but the grade will not be considered in GPA calculations. In college-level courses (numbered 100 and higher) designated as having the P/0.0 or P/NC option, students who wish to be graded on the Pass/0.0 or Pass/NC option, must submit a Student Option Grading Form signed by their instructor to the registration desk no later than the end of the day which constitutes the midpoint of the course. In pre-college level courses (numbered less than 100), students may request a P/NC or P/0.0 grade option without a Student Option Grading Form at any time during the quarter. Unless a 2.0 performance level is achieved, the student selecting the P/0.0 option will receive no credit and the grade of 0.0, and the student selecting the P/NC option will receive an NC grade. The NC grade will not be considered in the GPA calculation. While some degrees and programs may allow no P credits, no degree or program at Shoreline may include more than thirty P credits.

V: Unofficial Withdrawal – To be awarded when a student attends briefly, rarely or not at all and does not withdraw with a W grade. This grade will be considered to be a zero in GPA calculations.

W: Official Withdrawal – A W grade will be granted only from the first day of the third week through the last class day of the seventh week of the quarter (or the equivalent date for summer quarter), to a student who withdraws from a course. Ws remain on the transcript but are not counted in the GPA computation. A student may not withdraw to avoid consequences of cheating, plagiarism or other intellectual dishonesty.

4. Early Withdrawal Procedure

Early withdrawal from a course is possible from the sixth day (or the equivalent date for summer quarter) through the last instructional day of any quarter.

a. Student’s Early Withdrawal Procedure

(1) The student will initiate the early withdrawal request by securing an official Schedule Change form and filling it out.

(2) The student must obtain the instructor’s signature and date on the form. A grade must be assigned starting with the eleventh day (or equivalent date for summer quarter) through the last instructional day.

(3) The student will turn in the form to the registration office immediately.

b. Assignment of Early Withdrawal Grades

(1) If a properly completed Schedule Change form is turned in to the registration office during the first ten instructional days of a regular quarter (or the summer quarter equivalent), no grade will be assigned and no record of registration will appear on the transcript.

(2) Starting with the eleventh instructional day and continuing through the first class day of the seventh week of a regular quarter (or the summer quarter equivalent), the grade given on the Change of Program form must be a W. Registration is recorded on the transcript, as is the W or Z.

(3) Starting with the second class day of the seventh week of a regular quarter (or the summer quarter equivalent) through the last day of instruction, the grade given will be a I, NC, P V or Z (if emergency situation is applicable) as the instructor’s judgment dictates.

(4) A student may not withdraw to avoid consequences of cheating, plagiarism or other intellectual dishonesty.
c. Early Withdrawal Procedure if Extreme or Unusual Circumstances Apply

This may be invoked when Early Withdrawal Procedures in 4.a. cannot be followed. If the situation is judged to warrant special consideration, the Vice President for Student Services will be responsible to inform the student’s instructor(s) of the circumstances in order that each instructor may award the appropriate grade.

1. From the beginning of the **second week** through the **first day** of the **seventh week** of each quarter (or the summer quarter equivalent), the instructor, appropriate division dean, or the Vice President for Student Services, if necessary may sign a Schedule Change form to withdraw the student if circumstances do not permit completion of the normal withdrawal procedure. In such cases, if the person signing the withdrawal form is not the instructor, the person signing the form shall notify the instructor(s) of the reason(s) for withdrawal. The W or Z grade will appear on the transcript.

2. From the **second day** of the **seventh week** through the **last day** of instruction (or the summer quarter equivalent), the instructor, appropriate division dean, or the Vice President for Student Services, if necessary, may sign a Schedule Change form to withdraw the student if circumstances do not permit completion of the normal withdrawal procedure. The grade of I, NC, V or Z will appear on the transcript.

5. Repeating a Course

Courses may be repeated to improve the grade, but credit is applied only once. In no circumstance will any course be repeated more than twice in order to improve a grade; (this is defined as two repeats in addition to the original enrollment). This limit may not apply to all pre-college level courses (numbered less than 100). To repeat a course for the purpose of improving a grade, the student must register for the course, submit a Course Repeat form to the registration office at the time of registration that a course is being repeated, and pay all necessary fees. Only the highest grade for the course will be used in computing grade point average. The lower grade remains on the transcript and is designated with an “R”, and only the highest grade awarded in a repeated course will be used in calculating GPA at Shoreline. Other colleges and universities may not accept a grade earned in a repeated course. If accepted, the grade may be treated differently in the calculation of grade point average.

6. Computation of Grade Point Average (GPA)

The number of credits for each course is multiplied by the numerical grade awarded resulting in the grade points for that course. The GPA is computed by dividing the sum of the grade points earned in courses awarding numerical grades by the total number of credits attempted in those courses. H, I, N, NC, P, W, and Z grades are not assigned weights and are not used in computing GPA. When a student transfers credits from Shoreline Community College to another institution, the grading policy of the receiving institution will be applied to the transcript and the computation of the GPA.

6. Grading Systems

a. **Mandatory Numerical Grade**: Students will be awarded grades from 4.0 to 0.7 in 0.1 increments, 0.0, H, I, V, W, or Z.

b. **Mandatory and Optional Pass/No Credit Systems**: Divisional faculty, acting in appropriate disciplinary sub-units, may designate certain courses as Mandatory or Optional Pass/No Credit. Faculty will report any change in designation to the division chair two weeks prior to the submission of the next quarter’s class schedule to the registrar’s office.

1. **Grading in Mandatory Pass/No Credit Courses**. The instructor will give only a 0.0, H, I, N, NC, P, V, W, or Z grade as defined in section 3.

2. **Grading in Optional Pass/No Credit Courses**. Students wishing to be graded on the Pass/0.0 or Pass/NC system must submit a pass option card signed by their instructor to the registration desk no later than the end of the day which constitutes the midpoint of the course. Students selecting this option will receive a 0.0, H, I, N, NC, P, V, W or Z grade as defined in section 3. Students not qualifying for this optional grading system will receive a numerical grade. Courses assigned by faculty to mandatory or optional pass/no credit will be marked on each quarter’s class schedule. All unmarked courses will use only the numerical grading system.
GRADE REPORTS
Grade reports are not be mailed to students. Students may view or print an unofficial transcript of their final grades from Shoreline’s web site: www.shoreline.edu.

GRADE CHANGES
Instructors must submit a signed grade change form to the Records Desk in Enrollment Services to change a grade. Grade changes are allowed only within one year of the date the original grade was issued.

SCHOLASTIC REQUIREMENTS
SCHOLASTIC WARNING, PROBATION AND SUSPENSION
A student who earns a quarterly grade-point average of less than 1.75 is placed on academic warning. A student whose quarterly grade-point average is less than 1.75 for a second consecutive quarter receives an academic probation notice. A student who earns a quarterly grade-point average of less than 1.75 for the third consecutive quarter receives academic suspension. Students who have been academically suspended by the college may petition for reinstatement after one quarter. Contact the Registrar's Office at (206) 546-5834 for more information.

Transfer students entering the college after having been on probation at or having been dropped from another institution must maintain a minimum cumulative grade-point average of 1.75 after attempting 24 credit hours at Shoreline Community College.

Note: Different criteria and regulations apply to financial aid recipients. See the Financial Aid section earlier in this catalog, or contact the Financial Aid Office.

Note regarding Senate Bill 5135:
Scholastic requirements and academic progress for all students may be changing due to the requirements of Senate Bill 5135. Student progress toward completion of degrees and certificates may affect your ability to meet graduation requirements and may impact eligibility requirements for Financial Aid resources. See pages 23 and 24.

FRESH START
Students who have not been in attendance at Shoreline Community College or any institution of higher learning for a period of 18 months may request the elimination of their previous Shoreline credits and GPA. The student’s academic record and transcript will continue to show the previous courses taken and grades received, but the grades for previous courses will not be used in the calculation of the student's Shoreline GPA, and credits earned may not be used to satisfy graduation requirements. If a student transfers to another college or university, the receiving institution may accept credits and recalculate the GPA according to its own policies. Contact the Registrar's Office at (206) 546-4613 for more information.

HIGH SCHOLARSHIP
PRESIDENT’S LIST
Full-time students (enrolled for at least 12 credits) who have earned at least 30 hours of credit, all of which are used in the computation of the grade-point average*, and who earn a cumulative grade-point average of 3.9 or higher are named to the President’s List.

In addition, students who attain a cumulative grade-point average of 3.9 to 4.0 shall be designated President’s Scholars at graduation.

* Mandatory P/Z/0.0 courses are excluded from this requirement.

VICE PRESIDENT’S LIST
Full-time students (enrolled for at least 12 credits) who have earned at least 30 hours of credit, all of which are used in the computation of the grade-point average*, and who achieve a quarterly grade-point average of 3.9 or higher have their name placed on the Vice President’s List and shall be designated V.P. Scholar.

* Mandatory P/Z/0.0 courses are excluded from this requirement.

HONORS LIST
Full-time students (enrolled for at least 12 credits) who have earned at least 30 hours of credit, all of which are used in the computation of the grade-point average*, and who earn a quarterly grade-point average of 3.6 to 3.89 are named to the Honors List.

Students who attain a grade-point average of 3.6 to 3.89 shall be designated Honors Graduates at graduation.

Eligibility for these lists is determined by the Faculty Senate and the college governance structure. As such, the standards governing eligibility are subject to periodic review and possible change.

* Mandatory P/Z/0.0 are excluded from this requirement.
CREDIT INFORMATION

CREDIT AND CREDIT LOADS

The academic year at Shoreline Community College is divided into three quarters of 10 weeks each and a summer session of eight weeks. In general, a class that meets one hour a week yields 1 hour of credit per quarter; one that meets five hours a week yields 5 credit hours. Laboratory and some other classes may vary from this pattern.

ASSESSMENT AND AWARDING OF CREDIT FOR PRIOR EXPERIENTIAL LEARNING (CPEL)

Shoreline Community College is currently developing a policy and procedural guidelines for the process of awarding credit for prior college level experiential learning. This assessment process will be created to evaluate a student’s documented knowledge and skills from employment, military experience, internships, externships, independent research, volunteer or civic work, certifications, licensure experiences and training, and college courses not previously transcripted. CPEL will be awarded only for college level learning and must be related to the theories, practices, and content of the relevant academic field. The learning must have taken place after high school. This new process is being created to minimize the loss of credit to students and to eliminate repeated coursework.

COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)

Credit is generally not allowed for the College Level Examination Program (CLEP) general exams or subject exams. Exceptions can be made by the appropriate division dean.

CREDIT BY EXAMINATION (CHALLENGE)

Students currently enrolled at Shoreline may obtain credit for certain courses by satisfactorily passing comprehensive examinations, provided the student has never received college credit for the challenged course or for another course which assumes knowledge of the course being challenged. The dean of the appropriate instructional division, in consultation with faculty members, will determine whether a particular course is open to challenge.

Arrangements for challenge examinations are to be made in the appropriate division office. The division dean, with concurrence from the faculty member involved, will appoint the faculty member to administer and grade the examination. A fee of $10 per credit hour must be paid before the examination.

Challenge examinations will be graded on a NC basis and will be recorded on the student's transcript. A student who challenges a course may not challenge it again.

IMPORTANT: See description of “P” grade, especially for students intending to transfer to another college or university.

ADVANCED PLACEMENT

Students who do college-level work in high school can receive appropriate credit or placement or both on the basis of performance in the Advanced Placement Program (A.P.) of the College Board. Credit earned through Advanced Placement will be recorded with a “P” grade. To receive transfer consideration for A.P. exam scores, students must either have the A.P. Testing Service send an official score report to the Shoreline Records Office, or if the high school identifies A.P. exam scores on the high school transcript, alert the Records Office to make note of this.

Advanced Placement scores range from a high of 5 to a low of 1. The various academic areas that offer A.P. credit or placement or both have adopted the same qualifying scores as the corresponding departments at the University of Washington. Where appropriate, A.P. credit may apply toward the general or distribution requirements for the Associate of Arts and Sciences degree (Option A).

The following chart outlines the current Advanced Placement practices of the college:

<table>
<thead>
<tr>
<th>Area</th>
<th>AP-5</th>
<th>AP-4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art History</td>
<td>10 credits</td>
<td>5 credits</td>
</tr>
<tr>
<td>Biology</td>
<td>See biology advisor for credit and placement.</td>
<td>A minimum of 5 credits awarded after conference with advisor; up to 10 credits possible. “Biol X” A.P. credit may be counted toward natural science distribution.</td>
</tr>
<tr>
<td>Computer Science</td>
<td>Exemption from Chem 140 granted upon successful completion of Chem 150; consult Chemistry advisor.</td>
<td></td>
</tr>
<tr>
<td>English</td>
<td>Humanities (5 credits); may be counted toward Humanities distribution for either AP English exam.</td>
<td></td>
</tr>
</tbody>
</table>
German

LANGUAGE
AP-5  Germ 201, Germ 202, Germ 203 (15 credits)
AP-4  Germ 201, Germ 202 (10 credits)
AP-3  Germ 201 (5 credits)

History

AMERICAN
AP-5  Hist 241 or Hist 242 (max. 5 credits)
AP-4

EUROPEAN HISTORY
AP-5  Hist 231 or Hist 232 (max. 5 credits)
AP-4

Mathematics

AB Exam:
AP-5  Math 124, Math 125 (10 credits)
AP-4  Math 124 (5 credits)
AP-3

BC Exam:
AP-5  Math 124, Math 125 (10 credits)
AP-4  Math 124 (5 credits)
AP-3  Math 124 (5 credits)
Statistics Exam:
AP-5  Math 108 or Math 211 (max. 5 credits)
AP-4  Math 108 or Math 211 (max. 5 credits)

Music

Appreciation: See department advisor for placement and possible credit.
Theory: No credit; see department advisor for placement.

Physics

AP-5  No credit; exemption from Phys 121, Phys 122 for Physics C exam, or from Phys 114, Phys 115, Phys 116 for Physics B exam.

Romance Languages

LANGUAGE
AP-5  French or Spanish 201, 202, 203 (15 credits)
AP-4  French or Spanish 201, 202 (10 credits)
AP-3  French or Spanish 201 (5 credits)
See department advisor.

Additional information may be obtained from the Advising and Counseling Center in the 5000 (FOSS) Building, (206) 546-4559.

ATTENDANCE

Students are expected to attend all sessions of classes in which they are enrolled, in accordance with instructor requirements.

STUDENT CLASSIFICATION

Students are considered freshmen until they have completed 45 credit hours, at which time they become sophomores.

FINAL EXAMINATIONS

Final examinations are held at the end of each quarter. Students are required to take the final examination at the time and date specified in the Quarterly Class Schedule in order to receive credit for a course. Students who have three or more finals in one day or a scheduling conflict may petition a division dean whose courses are involved for a change of examination time. Such a petition must be received in writing at least two weeks before the beginning of the first day of examinations. Division deans will consult with the affected faculty members before approving or disapproving the petition.

Finals for Summer Quarter are given during the last scheduled meeting of the class.

OFFICIAL TRANSCRIPTS

An official transcript is a record of the student’s academic grades. It shows courses taken, credits earned, grades received, transfer credits accepted and degrees or certificates received at Shoreline. An official transcript carries the registrar's signature and the college seal. There is a charge of $5.00 for the first copy, and $1.00 for each additional copy on the same order.

GRADUATION REGULATIONS

After consultation with the faculty advisor, it is ultimately the student’s responsibility to choose and implement his or her program to see that all specific requirements for that program and all general requirements for graduation from the college have been met in an acceptable manner. To receive a degree or certificate from Shoreline Community College, a student must:

1. Satisfy all specific program and general college requirements as stated in the college catalog that was printed for the academic year that the student began that specific degree/certificate program at Shoreline, provided that the catalog used is not more than 10 years old at the time of the student’s graduation. However, for programs that have selective admission (e.g., Dental Hygiene, Health Care Information, Nursing and Automotive), students must satisfy both the prerequisite and program requirements in effect at the time they first attended Shoreline Community College, provided that was within the past 10 years.
2. Achieve a minimum 2.0 grade-point average for all Shoreline Community College course work and all courses accepted in transfer from other colleges which are used to satisfy degree requirements. The grades from these transfer credits will not be averaged with the Shoreline Community College GPA, and therefore, transfer credits must also average 2.0. An exception is that the Certificate of General Studies has an overall grade-point average requirement of 1.75.

3. Earn from Shoreline at least 25 of the credits being applied toward the degree or certificate.

4. Submit an official transcript to the Shoreline Admissions Office for each college from which transfer credit is to be applied to the Shoreline degree.

5. For a degree, earn at least 60 credits (63 for the AAS Option A Degree) with numerical grades rather than “P” (Pass) grades.

6. Be in attendance at Shoreline at the time final credits toward graduation are earned. However, students who are short no more than 10 credits toward a degree or certificate after leaving Shoreline Community College may be able to arrange, on a case-by-case basis, to transfer those credits back to Shoreline from another accredited institution. Contact the credentials evaluator in Records at (206) 546-5841 for more information.

7. Satisfy all general and specific requirements of the college, including fulfillment of financial obligations and removal of any financial holds on the student’s records.

8. File an application for a degree or certificate in the Registrar’s Office.

Students who are eligible for a degree may submit a graduation application during their last quarter or the quarter preceding. Degrees will be awarded on a quarterly basis.

GRADUATION CEREMONY (COMMENCEMENT)

Students who have graduated during the previous fall and winter quarters will be invited to participate in the annual spring graduation ceremony, along with all applicants for spring and summer quarter graduation. In order to be included in the ceremony, graduation applications for spring and summer must be received by the second week of April.
Shoreline’s General Education curriculum is built on a unique set of outcomes, designed to provide our students with the skills, knowledge and awareness they will need to make informed decisions, lead healthy and productive lives, and contribute to the global community as lifelong learners. Through various experiences in many different courses, students learn to place their personal knowledge in a wider framework, to expand their understanding of themselves and others, and to integrate their learning across traditional subject boundaries. The curriculum emphasizes strong skills in communication and analytic thought, as well as broad knowledge in the major areas of human learning: science, social science, arts and humanities.

- **Quantitative Reasoning.** Students will demonstrate college-level skills and knowledge in applying the principles of mathematics and logic.

- **Communication.** Students will read, write, speak in, and listen to college-level English. Effective communication incorporates awareness of the social nature of communication and the effects of ethnicity, age, culture, gender, sexual orientation and ability on sending and receiving oral, non-verbal, and written messages.

- **Multicultural Understanding.** Students will demonstrate understanding of issues related to race, social class, gender, sexual orientation, disabilities and culture and the role these issues play in the distribution of power and privilege in the United States.

- **Information Literacy.** Students will access, use and evaluate information in a variety of formats, keeping in mind social, legal and ethical issues surrounding information access in today’s society.

- **General Intellectual Abilities.** Students will think critically within a discipline, identify connections and relationships among disciplines, and use an integrated approach to analyze new situations.

- **Global Awareness.** Students will demonstrate understanding and awareness of issues related to, and consequences of, the growing global interdependence of diverse societies by integrating knowledge from multiple disciplines. Students will describe how social, cultural, political, and economic values and norms interact.

These General Education outcomes are broad statements of what students should ideally be able to do after completing Shoreline’s Associate in Arts and Sciences or Associate in Science degree. The College is committed to providing each student with the opportunity to attain these outcomes; however, individual attainment within and among the outcome areas will vary according to each student’s ability, readiness and level of commitment. The outcomes are also integrated as appropriate within the degrees and certificates offered through each of the professional/technical programs.

**LISTING OF DEGREES AND CERTIFICATES**

Provided here are general descriptions of the degrees and certificates available through Shoreline Community College. Detailed course lists and graduation requirements are provided in the Degree Programs sections of this catalog. Planning guides are available near Registration in the 5000 (FOSS) Building.
ASSOCIATE IN ARTS AND SCIENCES
ACADEMIC TRANSFER (AAS)
Candidates for this degree may pursue either the Option A or the Option B plan.

Students pursuing either Option A or Option B must maintain a minimum 2.0 cumulative grade-point average to be eligible to receive this degree.

It is not necessary to complete a degree at Shoreline to be eligible to transfer, but most universities or programs within a university give admission preference to transfer students who have completed the Associate in Arts and Sciences degree or the Associate in Science.

Option A
This degree is designed for those students who are interested in earning a general two-year academic degree. This degree is the designated “Direct Transfer Degree” at SCC as it meets the requirements for transfer under the Washington State Direct Transfer Agreement. This 93-credit degree is most often an appropriate goal for students who intend to transfer within Washington to one of the following institutions: Central Washington University, Eastern Washington University, Western Washington University, Washington State University, The Evergreen State College, Pacific Lutheran University, Seattle Pacific University, Seattle University, Northwest College, Whitworth College and the University of Washington branch campuses. The Option A degree transfers as a “package” to the colleges indicated, fulfilling most of their General Education requirements and providing junior status. It does not, however, guarantee admission to a specific major.

This degree may also be a goal for the student planning to transfer to the University of Washington main campus even though this institution has additional admission requirements beyond those of the Option A degree (see your advisor). It is also the degree of choice for students who intend to transfer but who are undecided about which baccalaureate institution they will attend. The degree provides strong academic study and may in itself provide excellent employment preparation for many careers. Requirements for this degree are shown under the Degree Programs: Academic Transfer section of this catalog.

Option B
This degree is called the “pre-professional/specific major” degree or “self-design” degree, and is primarily for those students who are planning to transfer to a four-year institution that does not accept the Option A “package,” or who prefer to follow the curriculum of their future school rather than the Option A. Another purpose of the degree is to prepare for a major, which has many prerequisite courses such as the arts, health professional programs, and others.

Ninety credit hours in transferable courses that satisfy the Shoreline Community College General Education Core Requirements are required to complete this degree.

Students intending to complete the Option B AAS degree should consult the admission and graduation requirements of their intended university and work carefully with their advisor to satisfy both Shoreline and intended transfer institution requirements.

ASSOCIATE IN SCIENCE (AS)
This degree is intended for transfer students who wish to pursue a bachelor’s degree in science, computer science, engineering or certain health professional programs at another college or university after completing their studies at Shoreline. The Associate in Science (AS) degree offers two tracks, one for students who plan to major in astronomy, atmospheric sciences, computer science, engineering or physics, and the other for students planning to major in biological sciences, chemistry, geology, earth science, environmental science, oceanography or prepare for programs such as dentistry, pharmacy and medical school.

The focus of this program is on foundation mathematics and science courses, providing the AS graduate with a solid preparation for their future majors. This degree requires a minimum of 90 credits.

Both tracks of the Associate in Science are included in the Associate in Science Transfer Agreement, which applies to all public universities and several private colleges and universities in Washington State. This agreement provides students with some priority for admission at their intended transfer institution, and helps ease transferability of AS courses towards major and general education requirements for the bachelors degree at the receiving transfer institution.
ASSOCIATE IN APPLIED ARTS AND SCIENCES (AAAS)
Shoreline offers more than 50 specialized programs under the Applied Associate in Arts and Sciences (AAAS) degree. The primary purpose of the AAAS is to provide students with professional skills that will allow them to gain employment in a specific field of work. The minimum number of credits varies for each specialized program, but must be at least 90 credits.

Shoreline regularly updates and revises its curriculum and degrees in these applied areas, working closely with local advisory committees to ensure that students are receiving the skills and knowledge currently in demand by employers in the field.

ASSOCIATE IN APPLIED SCIENCE – TRANSFER (AAS-T)
This degree is intended to provide possible transfer options for students whose immediate goal is professional/technical preparation for employment, but who may later wish to complete a bachelor’s degree related to their technical field of study. Programs currently offering this degree include: Biotechnology Lab Specialist, Dental Hygiene, Manufacturing Engineering and Nursing. For updated information about the status and requirements of this new degree, ask for a planning guide at the Student Development Center in the 5000 (FOSS) Building.

CERTIFICATE OF PROFICIENCY OR COMPLETION
A Certificate of Proficiency or a Certificate of Completion is awarded for the following programs to students who complete the requirements: Accounting, Basic Manufacturing, Business Technology, Child Care Professional, Computer Information Systems, Cosmetology, CAD Drafting, Digital Filmmaking, Emergency Dispatcher, Entrepreneurship, Graphic/Print Production, In-Home Care Provider, CNC Machinist, Medical Coding and Reimbursement Specialist, Purchasing, and Web Developer.

Other programs may offer certificates; please check with faculty advisors.

TRANSFER OF CREDITS
Shoreline Community College endorses the Policy on Inter-College Transfer among Washington colleges and universities approved by the Higher Education Coordinating Board in February 1986.

Copies of this document are available through all public post-secondary institutions in the state of Washington and in the Registrar's Office at Shoreline. Transfer students encountering difficulties are encouraged to contact the Registrar’s Office.

Students who plan to transfer from Shoreline Community College to a baccalaureate college or university are advised to study the following information.

Transferring students will be expected to meet the admission requirements of the baccalaureate institution at the time they transfer. Transferability of courses taken at Shoreline Community College is determined by the institution to which the student transfers. Most Shoreline courses that are designed for transfer do in fact transfer without problems. However, certain institutions may limit the number of credits earned in a Pass system (P/0.0 or P/Z), or may have limits on certain classes.

In general, those courses whose titles contain the word “technical” or “technology” are not transferable to all institutions, but they may transfer to some selected programs at four-year schools. Students should work closely with advisors before attempting to transfer courses that are specialized components of a two-year professional/technical program.

Students may earn a total of more than 90 academic hours of credit at Shoreline Community College, but the total number of hours accepted for transfer is determined by the institution to which they transfer. Usually a minimum of 90 additional credits is required at the senior institution to earn a degree.

An institution to which an official transcript is sent may recompute the grade-point average of the student in accordance with its own requirements and policies.

A student should follow the given procedures given to transfer satisfactorily to a baccalaureate institution.

1. Obtain a current catalog of the institution to which the student wishes to transfer and study its admission requirements and its suggested freshman and sophomore-level courses in the major field of interest. Institutions differ in treatment of credits received.

2. Confer with a Shoreline Community College advisor about transfer issues. Many curriculum planning guides for transfer to baccalaureate institutions are supplied by the college.
3. Confer, by letter or personal interview, with an admissions officer at the baccalaureate institution for further information about curriculum and transfer regulations.

4. Check carefully a quarter or two before transfer to be sure that all requirements will be met and all regulations observed to the satisfaction of the baccalaureate institution.

Last-minute changes in students’ major fields of study or in their choice of baccalaureate institution may cause Shoreline’s credits to transfer in different ways. Changes should be evaluated so that consequences are understood.

APPLIED DEGREE TRANSFER PROGRAM

Shoreline Community College has articulation agreements that allow a student to complete an Associate of Applied Arts and Sciences Degree in some technical areas, transfer to selected four-year institutions and earn a B.S. degree. For further information regarding applied transfer degrees, call the dean of Professional/Technical Programs at (206) 546-4595, or check with your program advisor.

NON-TRANSFERABLE COURSES

The following courses will not transfer to most four-year colleges:

1. Courses numbered below 100.

2. Certain courses numbered 100 or above, such as Parent Education and Continuing Education (These are not normally transferable; consult with your advisor for more information.)

3. Courses that are listed in the Restricted Transfer Course List (see Degree Programs).
ASSOCIATE IN ARTS AND SCIENCES (AAS): OPTION A

A minimum of 93 quarter hours of college credit are required. Students who have completed the requirements for Option A and have met the required admission standards will have completed the General Education Requirements and will be accepted at the junior level at the following institutions:

- Central Washington University
- Eastern Washington University
- Evergreen State College
- Gonzaga University
- Northwest College
- Pacific Lutheran University
- Saint Martins College
- Seattle Pacific University
- Seattle University
- The Evergreen State College
- Washington State University
- Western Washington University
- Whitworth College
- The University of Washington (Note: The UW has additional admission requirements beyond those of the Option A.)

Students graduating under Option A who choose to transfer to other institutions will normally be able to transfer their courses successfully. However, the above institutions have signed agreements with Shoreline Community College that guarantee, with possible minor exceptions, the completion of general education requirements and admission at the junior level.

Shoreline's General Education Core Curriculum requirements are Communications Skills, Quantitative Reasoning, Physical Education and Multicultural Education, as shown below under “General Requirements.”

General and distribution course requirements follow.

GENERAL REQUIREMENTS

**Communication Skills – 10 credit hours:** English 101, 102


**Physical Education – 3 credit hours:** See the list of approved courses under Physical Education in the elective section on page 44.

**Multicultural Education – 3-5 credit hours:** Anthropology 202; Intra-American Studies 102, 103, 201, 202; Geography 277; Sociology 288; Speech Communication 100, 102, 103; all three of either of these sets of courses: French 201, 202, 203; or 202, 203, 297.

Shoreline has recently revised its General Education Outcomes and will be revising its General Education Curriculum. As revisions and additional alternative courses are approved, they will be added to the “Approved List of General Education Core Requirements” available from the Student Development Center, advisors and division offices.

DISTRIBUTION REQUIREMENTS

- Humanities 15
- Intra-American Studies 5
- Natural Sciences 15
- Social Sciences 15
- 50

A total of 50 credit hours from Humanities, Intra-American Studies, Natural Sciences and Social Sciences is required.
Electives
A minimum of 22 additional college-level credits numbered 100 or above are required for electives. Electives may include any course listed in the distribution areas or on the non-restricted elective list. A maximum of 15 credits are allowed from the Restricted Transfer course list.

“W” — Writing-intensive Courses
Several of the courses listed in the following distribution areas are offered as “W” or writing-intensive courses. Check the individual course descriptions in the back of the catalog for “W” course offerings. While “W” courses are not a requirement to graduate from Shoreline Community College, many degrees at the University of Washington require 10 credits of “W” courses, which students can take at Shoreline.

HUMANITIES: 15 CREDIT HOURS

1. Select 5 credits from each of two disciplines.
2. No more than 5 credits may be included from those courses designated as performance/skills, applied theory or lecture/studio courses.
3. No more than 5 credits in foreign language at the 100 level may be included.
4. See the list that follows for courses eligible for Humanities distribution courses.

HUMANITIES — GENERAL
American Sign Language 103
Art 111, 129
Art History 201, 202, 203
Chinese 113
Cinema 201
Communications 200, 202, 203
Drama 101
English 201, 202, 231, 234, 257, 258, 259, 264, 265, 266, 267, 268, 269, 274, 275, 277, 278, 281, 282, 283
French 103, 201, 202, 203
German 103
Humanities 111, 112, 113, 116, 151, 160, 164
Japanese 111, 112
Spanish 101, 102
Speech Communication 198, 201, 202, 203, 290

INTRA-AMERICAN STUDIES: 5 CREDIT HOURS

Select 5 credits from the following list of Intra-American courses.


*Note: Students may count either IAS 103 or IAS 102/SPCMU 102 toward their degree requirements, but not both.

MATHEMATICS/SCIENCE COURSES: 15 CREDIT HOURS

1. Select from at least two different disciplines.
2. Five credits must be in a laboratory science course.
3. Ten credits required in physical, earth and/or biological sciences (underlined).
4. See list below for courses eligible for Natural Science distribution credit.

LABORATORY SCIENCE
Astronomy 101
Biology Science 100, 102, 123, 126, 143, 201, 202, 203, 210, 211, 215, 230, 243, 251, 260, 265
Chemistry 101, 140-141, 150-151, 160-161, 190, 191, 220, 241-242
Degree Programs

Environmental Science 201, 202
Geography 205, 206
Geology 101, 103, 120, 201, 208
Oceanography 101
Physics 110, 114-116, 121-123

Non-Laboratory Science
Anthropology 201
Biological Science 103, 108, 140, 150, 250
Chemistry 139, 237-239
Environmental Science 101
Geology 100, 107
Math 107, 108, 111, 120, 121, 124, 125, 126, 207, 208, 209, 211, 224
Nutrition 110
Philosophy 115, 120
Psychology 202

Social Sciences: 15 Credit Hours

1. Select from at least two different disciplines.
2. Philosophy courses (except Philosophy 120) may be used for either Humanities or Social Sciences distribution.
3. See list which follows for courses eligible for Social Sciences distribution credit.

Anthropology 100, 202, 203, 205
Business Administration 100
Communications 203
East Asia 210, 211, 212, 213
Economics 100, 200, 201, 215, 260, 272, 273, 281, 282 283, 284, 285
Geography 100, 200, 250, 277, 285
International Studies 101, 200, 201, 285
Philosophy 100, 102, 115, 210, 230, 240, 248, 267, 280, 285
Political Science 101, 202, 203, 221, 272, 273, 276, 281, 282, 283, 284, 285
Psychology 100, 204, 205, 206, 208, 209, 210, 236, 245, 285
Social Science 100
Sociology 110, 252, 260, 270, 280, 285, 288
Women’s Studies 282, 283, 284, 285

Electives Courses

A minimum of 22 college-level credits numbered 100 or above are required for electives. They may be chosen from the list of Distribution Requirements or from the following elective courses. A maximum of 15 credits from Restricted Transfer courses may be included.

Accounting 210, 220, 230
Anthropology 297, 298, 299
American Sign Language 297, 298, 299
Biological Science 275, 285, 290, 295, 297, 298, 299
Business Administration 100, 250, 260
Chemistry 297, 298, 299
Communications 297, 298, 299
Computer 131, 142, 143, 201, 297, 298, 299
Computer Information Systems 105, 106
Criminal Justice 131, 297, 298, 299
Drama 295, 297, 298, 299
East Asia 297, 298, 299
Economics 297, 298, 299
Education (Humanities) 199
Education 100, 101, 105, 125, 265, 297, 298, 299
Engineering 100, 101, 102, 103, 111, 121, 170, 200, 201, 210, 220, 230, 260, 297, 298, 299
English 297, 298, 299
Environmental Science 297, 298, 299
French 297, 298, 299
Geography 297, 298, 299
Geology 297, 298, 299
German 297, 298, 299
History 297, 298, 299
Humanities 285, 297, 298, 299
International Studies 297, 298, 299
Intra-American Studies 297, 298, 299
Mathematics 114, 297, 298, 299
Music 297, 298, 299
Oceanography 297, 298, 299
Philosophy 297, 298, 299
Physics 297, 298, 299
Political Science 297, 298, 299
Psychology 297, 298, 299
Sociology 297, 298, 299
Social Science 297, 298, 299
Spanish 297, 298, 299
Speech Communication 297, 298, 299
Women’s Studies 297, 298, 299
## RESTRICTED TRANSFER COURSES

A maximum of 15 credits from these courses may be used toward the AAS Option A degree. A maximum of 15 credits from these courses may be used toward the University of Washington degree. A maximum of 5 credits from these courses may be used towards the AS degree.

| Accounting       | 101, 102, 103, 104, 170, 206, 208 |
| Automotive Sales | 160, 161, 163, 164, 165, 166, 167, 168, 180 |
| Automotive Service Mid-management | 101, 102, 103, 104, 105, 106, 107, 108, 109, 110 |
| Automotive Technology | 250, 251, 252 |
| Business Administration | 110, 112, 120, 130, 135, 150, 155, 170, 175, 190, 191, 192, 195, 200, 201, 215, 220, 221, 222, 224, 230, 240, 270, 281, 282, 283, 284, 285, 297, 298, 299 |
| CNC Operator Training | 170, 171, 172 |
| CNC Metal Fabrication | 130, 131, 132, 180, 181, 182 |
| Chemistry       | 190, 191 |
| Cosmetology     | 101, 102, 103, 148, 149, 150, 151, 152, 201, 251, 252, 253, 260, 265, 281, 282, 283, 284, 285, 290, 291, 292, 293 |
| Economics       | 297, 298, 299 |
| English         | 100 |
| ESL             | 100 |

## ASSOCIATE IN ARTS AND SCIENCES: OPTION A – FINE ARTS CONCENTRATION

The Option A degree can be tailored to meet the academic needs of the Fine Arts student. A student successfully completing the college’s General Education requirements and an area of concentration OR specialization (see below) may be awarded an Associate in Arts and Sciences with a concentration in Fine Arts from Shoreline Community College.
### General Education Requirements

(See Degree Programs: Academic Transfer for acceptable courses.)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 101 &amp; 102</td>
<td>10</td>
</tr>
<tr>
<td>Quant./Symbolic Reasoning:</td>
<td>5</td>
</tr>
<tr>
<td>P.E.:</td>
<td>3</td>
</tr>
<tr>
<td>Multicultural Issues:</td>
<td></td>
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<tr>
<td>SpCmu 100, SpCmu 102</td>
<td></td>
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<tr>
<td>SpCmu 103</td>
<td></td>
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<tr>
<td>Humanities distribution:</td>
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</tr>
<tr>
<td>Art and Art History courses:</td>
<td>15</td>
</tr>
<tr>
<td>Social Science distribution:</td>
<td></td>
</tr>
<tr>
<td>Science distribution:</td>
<td>15</td>
</tr>
<tr>
<td>Intra-American Studies:</td>
<td>5</td>
</tr>
</tbody>
</table>

**Fine Arts Core Requirements:**

Art 105, 106, 107 (Drawing sequence)
Art History 201, 202, 203
Art 109, 110 (2-D & 3-D design sequence)

*Note: Core requirements provide 35 credits beyond what is required for the AA degree. Fifteen credits from the core requirements may be applied to the Humanities distribution requirements for Option A.

### Areas of Concentration:

Students seeking the Associate in Arts and Sciences with a Fine Arts Concentration must also select and complete one of the sequences of concentration listed below after satisfying necessary core prerequisites:

#### Two-Dimensional Studio Arts:

Complete at least 15 credits from the following:

- Art 100, 102, 103 (photography)
- Art 205, 206, 207 (graphic arts)
- Art 256, 257, 258 (painting)

  - Or -

#### Three-Dimensional Studio Arts:

Complete 15 credits from the following:

- Art 201, 202, 203 (ceramics)
- Art 253, 254, 255 (design & materials)
- Art 272, 273, 274 (sculpture)

  - Or -

#### Areas of Specialization:

Complete one of these sequences:

- Photography: Art 100, 102, 103, 292 (11 credits)
- Design & Materials: Art 253, 254, 255 (12 credits)
- Ceramics: Art 201, 202 & 203 (12 credits)
- Painting: Art 256, 257 & 258 (12 credits)
- Graphic Design: Art 205, 206 & 207 (15 credits)
- Sculpture: Art 272, 273 & 274 (12 credits)

### Associate in Arts and Sciences (AAS): Option B

This degree is called the “pre-professional/specific major” degree and is designed primarily for those students who are planning to transfer to a four-year institution that does not accept the Option A “package” concept or to complete a degree in a profession such as Engineering, Pharmacy, Architecture or Music.

Students planning to transfer to a specific institution in fields such as Engineering or Health Sciences may find Option B more flexible to allow for course preparation in a specific program or major; check with your advisor.

The Associate in Arts and Sciences degree Option B is awarded to the student who has completed 77 or more credits transferable to a specific baccalaureate institution, and 13 credit hours of the Shoreline Community College General Education Core Requirements:

**Communication Skills — 5 credits**
- English 101 (or other English course as specified by transfer institution)

**Quantitative Reasoning — 5 credits**
- Chemistry 140, 141, 150, 151, 160, 161, Computer Science 131, 142, Economics 200, Mathematics 107, 108, 110, 111, 112, 120, 121, 124, 125, 126, 207, 208, 209, 211, 224, Philosophy 120, or Physics 110, 114, 115, 116, 121, 122, 123

**Multicultural Education — 3 credits**

(By careful course selection and educational planning, students may satisfy requirements of their intended baccalaureate institution while also satisfying the above General Education Core Requirements.)

The baccalaureate requirements usually include prerequisites for the intended major and/or fulfill general graduation requirements for the transfer institution. Students may learn about these requirements by reading the catalog of the specific four-year institution and enrolling for equivalent classes at Shoreline Community College.

Planning guides have been prepared for many programs and institutions. These planning guides are available in the Student Development Center. Students intending to complete an Option B AAS degree for an institution for which a planning sheet has not been prepared should consult with their advisor or staff in the Student Development Center.
ASSOCIATE IN SCIENCE (AS): TRACK 1 AND TRACK 2

Track 1 is designed for students entering the fields of Biological Sciences, Chemistry, Geology and Earth Sciences, Environmental Sciences and Oceanography. This track is also a good option for students preparing for some health professional programs, such as dentistry, medical school, pharmacy and veterinary medicine. Planning guides for dentistry, pharmacy and veterinary medicine are also available. Track 2 is designed for students entering the fields of Astronomy and Atmospheric Sciences, Computer Science, Engineering and Physics.

A minimum of 90 quarter hours of college credit and a minimum 2.0 Grade Point Average are required. The Associate in Science degrees are accepted as part of the Associate in Science Transfer Agreement at all public universities in Washington state, as well as a number of private colleges and universities. These include:

- Central Washington University
- Eastern Washington University
- The Evergreen State College
- University of Washington
- University of Washington – Bothell Campus
- University of Washington – Tacoma Campus
- Washington State University
- Western Washington University

The Associate in Science Transfer Agreement gives students the same priority consideration for admission to baccalaureate institutions as they would receive for completing the Direct Transfer Agreement Degree (At Shoreline Community College, this is AAS, Option A). It also ensures that students will be given junior status by the receiving institution. As is true for the Direct Transfer Agreement, this admission priority does not guarantee admission to any particular department.

The Associate in Science Transfer Agreement differs from the Direct Transfer Agreement in that most course requirements are major/program prerequisites, and the degree includes few General Education course requirements. Therefore, the Associate in Science Transfer Agreement does not stipulate that students will have met the General Education Requirements for their transfer university. On the contrary, students are expected to complete further General Education Requirements after transfer.

<table>
<thead>
<tr>
<th>TRACK 1</th>
<th>TRACK 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological Sciences, Chemistry, Geology and Earth Sciences, Environmental Sciences, and Oceanography.</td>
<td>Astronomy/Atmospheric Sciences, Computer Sciences, Engineering, Physics.</td>
</tr>
<tr>
<td><strong>GENERAL REQUIREMENTS</strong></td>
<td><strong>GENERAL REQUIREMENTS</strong></td>
</tr>
<tr>
<td>Communication Skills — 8-10 credit hours: English 101 and 102 or 270 or Speech Communication 101</td>
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</tr>
<tr>
<td>Quantitative Reasoning — 5 credit hours: Mathematics 124</td>
<td>Quantitative Reasoning — 5 credit hours: Mathematics 124</td>
</tr>
<tr>
<td>Multicultural Education — 5 credit hours: Anthropology 202, Intra-American Studies 103, 201 or 202, Geography 277, Sociology 288; all three of either of these sets of courses: French 201, 202, 203 or 202, 203, 297; Speech Communication 103</td>
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</tr>
<tr>
<td><strong>DISTRIBUTION REQUIREMENTS</strong></td>
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</tr>
<tr>
<td>Humanities — 5 credit hours: See list for Associate in Arts and Sciences, Option A</td>
<td>Humanities — 5 credit hours: See list for Associate in Arts and Sciences, Option A</td>
</tr>
<tr>
<td>Social Sciences — 5 credit hours: See list for Associate in Arts and Sciences, Option A</td>
<td>Social Sciences — 5 credit hours: See list for Associate in Arts and Sciences, Option A</td>
</tr>
<tr>
<td>Humanities or Social Sciences — 5 credit hours: See list for Associate in Arts and Sciences, Option A</td>
<td>Humanities or Social Sciences — 5 credit hours: See list for Associate in Arts and Sciences, Option A</td>
</tr>
<tr>
<td><strong>PRE-MAJOR PROGRAM</strong></td>
<td><strong>PRE-MAJOR PROGRAM</strong></td>
</tr>
<tr>
<td>Science — 19 credit hours: Chemistry 140/141 and 150/151 and 160/161</td>
<td>Science — 19 credit hours: Chemistry 140/141 and 150/151 and 160/161</td>
</tr>
<tr>
<td>Additional Mathematics — 10 credit hours: Mathematics 125, and 126 or 211</td>
<td>Additional Mathematics — 10 credit hours: Mathematics 125, and 126 or 211</td>
</tr>
<tr>
<td>One of the following sequences — 15-16.5 credit hours: Biological Sciences 201 and 202 and 203; or Physics 114 and 115 and 116; or Physics 121 or 122 or 123</td>
<td>One of the following sequences — 15-16.5 credit hours: Biological Sciences 201 and 202 and 203; or Physics 114 and 115 and 116; or Physics 121 or 122 or 123</td>
</tr>
<tr>
<td>Major sequence and/or supporting science courses — 10-15 credit hours: 10 to 15 credit hours of additional science courses to support major preparation</td>
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</tr>
<tr>
<td><strong>ELECTIVES</strong></td>
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</tr>
<tr>
<td>Elective courses are taken as needed to reach the minimum of 90 credit hours. The Associate in Science Transfer Agreement allows a maximum of 5 credits for restricted transfer/vocational course work.</td>
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</tr>
</tbody>
</table>
DISTRIBUTION REQUIREMENTS

Humanities – 5 credit hours: See list for Associate in Arts and Sciences, Option A
Social Sciences – 5 credit hours: See list for Associate in Arts and Sciences, Option A

PRE-MAJOR PROGRAM

Science – 15-16.5 credit hours: Physics 121 and 122 and 123 (required for most Bachelor’s Degrees); or Physics 114 and 115 and 116
Additional Mathematics – 10 credit hours: Mathematics 125; and 126 or 211 (Almost all students need 126 for their major.)
Additional Science – 5 credit hours: See Math/Science list for the Associate in Arts and Sciences, but this course must be outside of mathematics, physics and computer science departments. Engineering majors almost always require Chemistry 140/141.
Computer Programming – 5 credit hours: Several courses are available. Many degree programs require Computer Science 142.

PROGRAM SPECIFIC COURSE AND ELECTIVES (24-26 CREDIT HOURS)

Additional courses specific to the major requirements and elective courses are taken as needed to reach the minimum of 90 credit hours. The Associate in Science Transfer Agreement allows a maximum of 5 credits for restricted transfer/vocational course work.

This section of the degree is designed for students to take the additional prerequisite courses needed to enter their major’s junior year. It may also include additional general education or elective courses. Thus, required and recommended courses vary by major, and there is also some variation by college/university. It is important for students to stay in close contact with their SCC advisor as well as their intended receiving institution, including the department in which they wish to major, as they plan their elective program.

ASSOCIATE IN APPLIED SCIENCES-TRANSFER (AAS-T)

AAS-T degrees are Professional/Technical degrees (AAAS) which either include a certain number of transfer courses, or have an articulation agreement with one or more universities. Minimum requirements for all AAS-T degrees will be to complete required applied courses for the equivalent Associate in Applied Arts and Sciences (AAAS) degree, plus the following general education coursework, selected from the list of Approved Courses provided in this catalog for the Associate in Arts and Sciences degree, Option A:

5 credits in Communication
5 credits in Quantitative Skills
10 credits in Science, Social Science, or Humanities.

Students who complete this degree will not have fulfilled their General Education Requirements for their receiving transfer institution. Students who transfer into a baccalaureate program with the AAS-T are expected to complete by far the great majority of their general education and distribution requirements after transfer.

ASSOCIATE IN APPLIED ARTS AND SCIENCES (AAAS)

Professional/Technical programs lead to Associate in Applied Arts and Sciences (AAAS) degrees and certificates and are designed for those students who are primarily interested in college work leading directly to employment. Several programs also offer certificates of completion for short-term training.

Details of the professional/technical programs available at Shoreline Community College are given in this section of the catalog. It is especially important that students work closely with program advisors when registering for courses in professional/technical programs. Some programs require a separate application to enter and several have prerequisite courses before such applications are considered. Planning sheets are available in the Student Development Center for all programs, as well as in the Professional-Technical Advising Handbook which is circulated to all faculty, program directors, and administrators.

Professional/Technical programs include specific vocational course work as well as required general education core courses in communication, quantitative reasoning, multicultural education and human relations. Related instruction supports programs of study for some applied or specialized associate degrees, and these degrees contain a recognizable body of instruction in the program related areas of 1) communication, 2) computation and 3) human relations.

If a specific general education course is not required by a professional/technical program, students may, as an option, choose classes from the list of transfer general education courses in communication (English 101), quantitative reasoning and multicultural education. However, in some certificate and AAAS degree programs, the following courses may also satisfy requirements:

Communication: BusAd 252 or Eng 100; Quantitative Reasoning: BusAd 175 or CIS 105. The Human Relations requirement can be satisfied with BusAd 110, 112; or Speech Communications 101, or in some cases by instruction embedded within program-specific courses. Students must get written approval for any substitution from the program advisor. Students should check with program advisors, individual program planning sheets, or this section of the catalog for specific program requirements.
The opportunities to transfer these degree programs towards a baccalaureate program are expanding. The College is currently negotiating articulation agreements with Seattle Pacific University, University of Phoenix, City University, the University of Washington - Tacoma, and Cogswell College. Currently, articulation agreements exist with the University of Washington - Bothell, Eastern Washington University, Western Washington University, Cogswell College, Evergreen State College and Central Washington University for students presenting some professional technical degrees. Check with your program advisor and with these institutions for further information. Some of the courses required in occupational programs, may individually transfer to a baccalaureate program. Students should check with their program advisor and should also inquire about the availability of an Associate in Applied Science-Transfer (AAS-T) degree in their chosen fields.

Lists of advisory committee members for each of the professional/technical programs are available online and in the Office of the Dean of Professional/Technical Education.

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DESCRIPTION
The Accounting Program prepares students for a variety of accounting occupations in the public and private sector. Typically, accounting clerks establish, develop and maintain the financial records of organizations and departments. Job duties may include recording debits and credits, preparing ledgers and balance sheets, verifying the accuracy of records, classifying payables and receivables, preparing bank deposits and posting transactions.

With the aid of improved and simplified software applications, many of these tasks are now performed and stored in computer files. Automation has expanded opportunities for managing financial information. In the accounting program, students use current software and develop skills in the creative process of organizing, analyzing and interpreting financial information.

OUTCOMES
Students who successfully complete this program will be able to:
1. Apply basic principles, theories and procedures for recording and reporting financial data.
2. Apply practical accounting practices in a variety of business structures including corporations, partnerships and small businesses.
3. Prepare financial reports, which summarize or analyze relevant financial data.
4. Provide management support in the budgeting, planning and decision-making processes.
5. Apply knowledge of payroll, business and personal income tax laws and related practices.
6. Integrate accounting functions within a computerized business environment, select appropriate software and convert a manual accounting system to a computerized one.

AAAS DEGREE
ASSUMED KNOWLEDGE: Keyboarding and 10-Key skills. If you do not possess these skills, Shoreline Community College offers courses in these areas.

A minimum grade of 2.0 for each Accounting course is required for credit towards the degree or certificate.

GENERAL EDUCATION REQUIREMENTS

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<tr>
<th>Course</th>
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<td>CIS</td>
<td>105 Computer Applications</td>
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<td>BusTc</td>
<td>150 Excel</td>
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<td>BusAd</td>
<td>110 Human Relations in Business</td>
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<td>Multicultural Education: See Approved List</td>
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<td>BusAd</td>
<td>100 Business: An Introductory Analysis</td>
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CORE REQUIREMENTS

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<td>102 Practical Accounting II</td>
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<td>Acctg</td>
<td>103 Practical Acctg - Managerial</td>
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<td>Acctg</td>
<td>104 Payroll &amp; Business Tax</td>
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<td>170 Fundamentals of Federal</td>
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<td>250 Introduction to Law</td>
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<td>175 Business Math</td>
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<td>SpCmu</td>
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<td>BusTc</td>
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<td>Total Credits Required</td>
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*Please note: Econ 100 or Econ 200 required if ASSET math placement is above Math 099.
CERTIFICATE OF PROFICIENCY

The certificate will be awarded upon completion of the course outlined below. All of these courses apply toward the Accounting AAAS degree.

A minimum grade of 2.0 for each Acctg-designated course is required for credit toward the degree or certificate.

GENERAL EDUCATION REQUIREMENTS  Cr.

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<thead>
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<th>Course</th>
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CORE REQUIREMENTS  Cr.

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Total Credits Required  55

CERTIFICATE OF COMPLETION

These programs are designed to prepare students for entry level accounting clerk positions.

OUTCOMES

Students who successfully complete this program will understand the basic account cycle for service and merchandising firms. Students will have basic business computer skills with specific knowledge of commercial accounting software.

Accounting Clerk

PROGRAM REQUIREMENTS  Cr.

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Total Credits Required  15

Accounts Receivable/Payable Clerk

PROGRAM REQUIREMENTS  Cr.

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<td>Practical Accounting II</td>
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<td>105</td>
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</tr>
<tr>
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Total Credits Required  20

Payroll Clerk

PROGRAM REQUIREMENTS  Cr.

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<td>Payroll &amp; Business Tax Accounting</td>
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<td>CIS</td>
<td>105</td>
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<tr>
<td>Acctg</td>
<td>206</td>
<td>Computer Accounting</td>
</tr>
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</table>

Total Credits Required  20
DEGREE PROGRAMS: PROFESSIONAL/TECHNICAL

AUTOMOTIVE FACTORY-SPONSORED TRAINING PROGRAM

DESCRIPTION
Each of these factory-sponsored programs is comprehensive in both the depth and breadth of knowledge required of graduates. Students should plan to complete an average of 20 credits per quarter, unless they take their General Education/Related Instruction courses prior to beginning the program.

AUTOMOTIVE SERVICE EDUCATIONAL PROGRAM (ASEP) – General Motors
The General Motors Automotive Service Educational Program (ASEP) is a two-year cooperative program. The student spends alternating quarters in class and working in a sponsoring General Motors dealership. Students must be sponsored in a General Motors dealership before they are admitted to the program.

DAIMLERCHRYSLER COLLEGE AUTOMOTIVE PROGRAM (CAP) – DaimlerChrysler
The DaimlerChrysler College Automotive Program is a two-year cooperative program. The student spends alternating quarters in class and working in a sponsoring Chrysler dealership. Students must be sponsored in a Chrysler dealership before they are admitted to the program.

PROFESSIONAL AUTOMOTIVE CAREER TRAINING (PACT) – Honda
The American Honda Professional Automotive Career Training Program (PACT) is a two-year cooperative program. The student spends alternating quarters in class and working in a sponsoring Honda or Acura dealership. Students must be sponsored in a Honda or Acura dealership before they are admitted to the program.

TOYOTA TECHNICAL EDUCATION NETWORK PROGRAM (T-TEN) – Toyota
The Toyota Technical Education Network Program (T-TEN) is a two-year cooperative program. The student spends alternating quarters in class and working in a sponsoring Toyota or Lexus dealership. Students must be sponsored in a Toyota or Lexus dealership before they are admitted to the program.

OUTCOMES
Students who successfully complete this program will be able to:
1. Apply fundamentals of automotive service training, including the basics of automotive diagnostics and repair, pre-delivery inspection and warranty repair procedures.
2. Identify, inspect, disassemble and assemble basic components of automotive power plants.
3. Apply knowledge of the function, construction, operation troubleshooting and servicing of disc, drum and ABS brake systems, steering, suspension and wheel alignment.
4. Use electronic engine analyzers and scanners to test and tune ignition, fuel injection and emission systems.
5. Apply understanding of electrical principles, semi-conductors, microprocessors and wiring diagrams to diagnose and repair malfunctions of automotive electrical systems.
6. Apply knowledge of the function, construction, operation, troubleshooting and service of front- and rear-wheel drive manual and automatic transmissions and transaxles.
7. Test, service and repair heating and air-conditioning systems.

AAAS DEGREE PROGRAM PREREQUISITES:
Minimum ASSET Test Scores for Numerical Skills (34-45), Writing (45-54), Reading (44-53) or ESL test placement in English 101
Sponsorship in appropriate dealership (GM, Toyota, etc.)
Automotive Skills Test
Valid Driver’s License
Proof of Insurability
Some dealers require drug testing
Instructor Interview

PLEASE SEE THE FOLLOWING PAGES FOR THE AAAS DEGREE OPTIONS.
### DaimlerChrysler College Automotive Program (CAP)

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>Fall Quarter</strong></td>
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<tr>
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<td></td>
<td>BusAd 175* Bus. Mathematics –or–</td>
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<tr>
<td></td>
<td>Math 099* Intermediate Algebra</td>
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<tr>
<td></td>
<td>BusAd 112* Human Relations</td>
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<td>PE 292* First Aid &amp; Safety</td>
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<td><strong>Winter Quarter</strong></td>
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<tr>
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<td>AutoT 161 Engine Repair</td>
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**SOPHOMORE YEAR**

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<td></td>
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<td>AutoT 167 Automatic Transmission</td>
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<td>AutoT 168 Heating and Air Cond.</td>
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Total Credits Required: 150-152

Courses marked with an * are the General Education/Related Instruction requirements for this program.

### General Motors Automotive Service Educational Program (ASEP)

**FRESHMAN YEAR**

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<td>BusAd 175* Bus. Mathematics –or–</td>
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<td>AutoT 164 Manual Gear Trains &amp; Transaxles</td>
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**SOPHOMORE YEAR**

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<td>AutoT 167 Automatic Transmissions &amp; Transaxles</td>
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<td>AutoT 168 Heating and Air Conditioning</td>
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Total Credits Required: 150-155

Courses marked with an * are the General Education/Related Instruction requirements for this program.
### Honda PACT Program

**FRESHMAN YEAR**

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<td><strong>Fall Quarter</strong></td>
<td><strong>Cr.</strong></td>
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<td>Brakes, Suspension &amp; Alignment</td>
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**SOPHOMORE YEAR**

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<td>AutoT</td>
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<td><strong>Winter Quarter</strong></td>
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<tr>
<td>AutoT</td>
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</table>

Total Credits Required: 150-155

*Courses marked with an * are the General Education/Related Instruction requirements for this program.*

### Toyota T-TEN Program

**FRESHMAN YEAR**

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<tbody>
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<tr>
<td>PE</td>
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<tr>
<td>Eng</td>
<td>Composition</td>
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**SOPHOMORE YEAR**

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<td><strong>Cr.</strong></td>
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<tr>
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<td>Brakes, Suspension &amp; Alignment</td>
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<tr>
<td>AutoT</td>
<td>Manual Gear Transaxles</td>
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<tr>
<td>Human Relations: See Approved List</td>
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<tr>
<td><strong>Winter Quarter</strong></td>
<td><strong>Cr.</strong></td>
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<td><strong>Cr.</strong></td>
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<td>AutoT</td>
<td>Heating &amp; Air Conditioning</td>
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<tr>
<td>*Multicultural Education See Approved List</td>
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</table>

Total Credits Required: 150-155

*Courses marked with an * are the General Education/Related Instruction requirements for this program.*
DESCRIPTION
The Beauty Salon Management program offers students who complete the Cosmetology program an opportunity to earn an Associate degree (AAAS) by completing additional requirements in marketing and/or management (10 credits) and general education (19-21 credits). The Beauty Salon Management program is designed to prepare students to successfully own, operate or manage a beauty salon. Students can select a variety of courses in management, supervision, marketing, salesmanship, advertising, and retailing from the electives list.

Through the general education curriculum students build their communication and interpersonal skills. Admission to the Certificate and Degree program is by waiting list. All interested students should call (206) 542-5056 to request a brochure be mailed to them. Next, interested students will need to attend an information session. Session dates and times are listed in the brochure.

OUTCOMES
Students who successfully complete this program will be able to:
1. Successfully interact with customers and build a clientele.
2. Perform hair care and styling services such as permanent waving, hair coloring and lightening, chemical relaxing, scalp treatments, shampooing, cutting, shaping, setting and combing techniques.
3. Perform nail and skin care services such as manicuring and pedicuring, skin analysis, make-up application, facials and superfluous hair removal.
4. Perform appropriate safety and sanitation procedures related to all hair, skin and nail services.
5. Conduct typical business transactions such as making appointments, cashiering and inventory.
6. Manage daily salon operations, purchase supplies, supervise staff, and effectively promote products and services.

GENERAL EDUCATION REQUIREMENTS

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<th>Title</th>
<th>Cr.</th>
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<td>BusTc 252</td>
<td>Professional Communications</td>
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<td>BusAd 175</td>
<td>Business Mathematics</td>
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<td>Cos 154</td>
<td>Human Relationship Skills</td>
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<td>PE 292</td>
<td>First Aid &amp; Safety</td>
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CORE REQUIREMENTS

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<td>Cos 102</td>
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<td>Cos 103</td>
<td>Theory of Cosmetology 3</td>
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<tr>
<td>Cos 151</td>
<td>Clinical Practice I</td>
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<td>Cos 152</td>
<td>Clinical Practice II</td>
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<td>Cos 201</td>
<td>Salon Business Operations</td>
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<td>Cos 251</td>
<td>Clinical Practice III</td>
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<td>Cos 252</td>
<td>Clinical Practice IV</td>
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<td>Clinical Practice V</td>
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<td>Cos 265</td>
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<td>Cos 260</td>
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<td>BusAd 270</td>
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If you attended part-time your first four quarters, you need to complete the following core requirements instead of Cos 151, 152:

<table>
<thead>
<tr>
<th>Course</th>
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<td>Cos 149</td>
<td>Clinical Practice IIb</td>
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<tr>
<td>Cos 155</td>
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</table>

ELECTIVES

Choose a minimum of 10 credits from the following courses:

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<tbody>
<tr>
<td>Acctg 101</td>
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<td>BusAd 100</td>
<td>Bus. Intro Analysis</td>
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<td>BusTc 152</td>
<td>Fundamentals of Business Communications</td>
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<td>BusAd 200</td>
<td>Essentials of Supervision</td>
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<td>BusAd 250</td>
<td>Introduction to Law</td>
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<td>Principles of Marketing</td>
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<td>BusTc 100</td>
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<td>CIS 105</td>
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<tr>
<td>SpCmu 101</td>
<td>Speech Communication</td>
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Total credits required ............... 114-117

Attendance in the Summer Quarter is mandatory for all students in the Cosmetology program. Cosmetology quarters are 11 weeks in length.
**DESCRIPTION**

Biotechnology is an exciting and rapidly expanding field. Biologists and other scientists working in research and development use biotechnology techniques for the production of genetically engineered drugs, gene therapy, microbiology, virology, forensic science, agriculture and environmental science. The Biotechnology Laboratory Specialist Program prepares students for work in laboratories involved in any aspect of these processes.

The curriculum provides a foundation in a variety of math and science disciplines including algebra, statistics, chemistry, biology, microbiology and computer science. Students gain a working knowledge of molecular biology, recombinant DNA, immunology, protein purification and tissue culture — both through classroom lectures and "hands-on" laboratory learning experiences.

Biotechnology laboratories are found in educational institutions, public health facilities and private corporations.

This program is Associate of Applied Science-Technology (AAS-T) degree eligible. The AAS-T degree indicator, which will appear on your transcript, will enable students to transfer this degree directly to some four-year institutions. Please check with your program advisor for more specific information.

**OUTCOMES**

Students who successfully complete this program will be able to:

1. Assist research scientists in the laboratory.
2. Perform technical procedures such as cell counting, solution and media preparation, DNA extraction and characterization, electrophoresis, cloning, polymerase chain reaction, ELISA and other immunology techniques, maintenance of cell lines transfection, fermentation, protein isolation and purification using various chromatographic techniques.
3. Conduct research experiments following operating and safety protocols and apply knowledge of theory and techniques to troubleshoot appropriately.
4. Analyze and display data using computer technology including the Internet and software designed for maintaining a database, preparing spreadsheets, conducting statistical analysis, and graphical display.
5. Manage laboratory activities including record keeping, ordering supplies and preparing reports.

**AAAS DEGREE**

**PROGRAM PREREQUISITES:**

College level mathematics (Math 099 Intermediate Algebra) is a prerequisite for Math 108.

**FIRST YEAR**

**Fall Quarter**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Eng 101*</td>
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<td>Chem 101</td>
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**Winter Quarter**

<table>
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<tbody>
<tr>
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<td>BioSc 102*</td>
<td>5</td>
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<tr>
<td>BioSc 108</td>
<td>5</td>
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<td>BioSc 110</td>
<td>3</td>
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<tr>
<td>PE 292*</td>
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<td>CIS 105</td>
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**Spring Quarter**

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<td>BioSc 215</td>
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**Summer Quarter**

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<td>BioSc 245</td>
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**SECOND YEAR**

**Fall Quarter**

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**Winter Quarter**

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<td>BioSc 295</td>
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**Spring Quarter**

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<tr>
<td>BioSc 270</td>
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**Summer Quarter**

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<td>BioSc 290</td>
<td>1-2</td>
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</table>

Total Credits Required: 95-96

*Courses marked with an * are the General Education/Related Instruction requirements for this program.*
Certificate of Completion
Biotechnology Lab Specialist

DESCRIPTION
This Certificate is for students who have a Bachelor’s Degree or higher or substantial Science background. At a minimum, students will take the Biotechnology classes offered in the second year of the Associate’s Degree Program. These are: Media and Solution Prep, Molecular Biology, Recombinant DNA Technology, Immunology, Biotechnology Techniques (protein chemistry, isolation and purification). If students need updating in Math, Chemistry or Biology before starting the Certificate Program, Program advisors will recommend specific classes. Advisors may also recommend Chemistry Technology, statistics or Excel.

OUTCOMES
Provides students who already have degrees or substantial science background broad-based hands-on laboratory experience with associated academics to allow them to work as laboratory technicians and research assistants.

CERTIFICATE OF COMPLETION

PROGRAM PREREQUISITES:
Current background in Algebra, General Chemistry, Organic Chemistry, Cell Biology and Microbiology.
It is advantageous to have experience in statistics and Excel. Some students may choose to also take Chemistry Technology, which will provide additional laboratory experience and high end instrumentation such as mass spectrometry, gas chromatography and atomic absorption. Some students may choose to take BioSc 110, An Overview of the Field of Biotechnology.

PROGRAM REQUIREMENTS

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Title</th>
<th>Cr.</th>
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<tbody>
<tr>
<td>BioSc</td>
<td>245</td>
<td>Media and Solution Prep for Biotechnology</td>
<td>4</td>
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<tr>
<td>BioSc</td>
<td>250</td>
<td>Molecular Biology Lecture</td>
<td>3</td>
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<td>BioSc</td>
<td>251</td>
<td>Molecular Biology Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>BioSc</td>
<td>265</td>
<td>Recombinant DNA Techniques</td>
<td>6</td>
</tr>
<tr>
<td>BioSc</td>
<td>270</td>
<td>Immunology</td>
<td>5</td>
</tr>
<tr>
<td>BioSc</td>
<td>275</td>
<td>Biotechnology Techniques</td>
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<td>BioSc</td>
<td>295</td>
<td>Biotechnology Seminar</td>
<td>1</td>
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<tr>
<td>BioSc</td>
<td>260</td>
<td>Tissue Culture and Staining</td>
<td>4</td>
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<tr>
<td>BioSc</td>
<td>290</td>
<td>Internship</td>
<td>2</td>
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</table>

Total Credits Required: 31
DESCRIPTION

The Business Administration Program offers concentrations in:

- Entrepreneurship
- Fashion Merchandising
- General Business
- Marketing
- Retail Management

This vocational degree program provides the student with a balanced background in business plus the opportunity for career specialization. The student completes the core requirements and can choose either a specific area of concentration in one of the five areas listed or he/she can plan an individualized course of study to meet specific career needs by completing 25 credits of advisor-approved electives. (General Business area of concentration).

AAAS Degrees

Entrepreneurship Option

This program is designed to prepare students for careers in business management or to upgrade the skills of professionals already working in management positions. The Management Program provides an overview of business management theory, standard operating procedures, financial planning and business development techniques along with strategies for effective supervision. Students refine skills in oral and written communication. Through the core curriculum, students demonstrate fundamental business skills in accounting, economics, communication, marketing, purchasing, computer technology, supervision, and legal issues. Graduates will be prepared for positions as middle managers.

OUTCOMES

Students who successfully complete this program should be able to:

1. Understand the nature of operations, personnel, finances, regulations, marketing and decision-making.
2. Apply business mathematics in order to analyze data and solve business problems.
3. Apply theories of motivation, occupational behavior and management in order to create a healthy, productive organizational climate.
4. Effectively communicate verbally and in writing within the business environment.
5. Understand the principles of managing business products, information and finance.
6. Apply principles of business planning and development.
7. Demonstrate effective leadership and supervision skills.
8. Effectively manage and supervise their own work and career development.
**Fashion Merchandising Option**

Students will develop basic business skills, with a focus in Fashion Merchandising. The curriculum will focus on economics, accounting, computers, marketing, management, and general education outcomes. Students also take focused Fashion Merchandising classes to hone their skills in the area of display and effective visual merchandising, retail buying, retail management, and merchandising planning. This professional/technical degree is available to day students on a full or part-time basis.

Graduates with general business administration skills and fashion merchandising skills may be able to obtain jobs in the retail sector of business. Graduates may also be able to apply their knowledge in a general business setting.

**OUTCOMES**

Students who successfully complete this program should be able to:

1. Understand the nature of operations, accounting, regulations, marketing, human relations and decision-making.
2. Understanding of textiles and costume history.
3. Ability to identify trends and the development process.
4. Demonstration of understanding of the fashion design and development process.
5. Ability to effectively display merchandise.
6. Ability to develop 6 month buying plans.
7. Understand the trend development process.

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**AAAS DEGREE**

**PROGRAM PREREQUISITES:**

- Eng 100 (Analytical Reading and Writing) or ESL 100 (Academic ESL) or satisfactory ASSET test score or ESL placement test score for English 101
- Math 070 (Preparation for Algebra) or satisfactory ASSET test score for Math 080 or 099

**GENERAL EDUCATION REQUIREMENTS**  

<table>
<thead>
<tr>
<th>Course</th>
<th>Cr.</th>
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<tbody>
<tr>
<td>Multicultural Ed: See Approved List</td>
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<tr>
<td>PE: Wellness/First Aid/Activities</td>
<td>3</td>
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**CORE REQUIREMENTS**  

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>BusAd 100 Intro. Analysis</td>
<td>5</td>
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<tr>
<td>BusAd 120 Principles of Marketing</td>
<td>5</td>
</tr>
<tr>
<td>BusAd 285 Intro to Fashion Marketing</td>
<td>5</td>
</tr>
<tr>
<td>BusAd 150 Retail Marketing and Management</td>
<td>5</td>
</tr>
<tr>
<td>BusAd 175 Business Math</td>
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<tr>
<td>BusTc 252 Prof. Communications</td>
<td>5</td>
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<tr>
<td>Acctg 101 Practical Acctg. I</td>
<td>5</td>
</tr>
<tr>
<td>BusAd 201 Intro. Internat’l Business</td>
<td>5</td>
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<tr>
<td>BusAd 222 Special Topics: eBusiness</td>
<td>5</td>
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<tr>
<td>Acctg 102 Practical Acctg. II</td>
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<tr>
<td>BusAd 155 Management Seminar</td>
<td>5</td>
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<tr>
<td>BusAd 285 History of Fashion</td>
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<tr>
<td>BusAd 110 Human Relations in Bus.</td>
<td>5</td>
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<tr>
<td>CIS 105 Computer Applications</td>
<td>5</td>
</tr>
<tr>
<td>Econ 100 Principles of Economics</td>
<td>5</td>
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<tr>
<td>Econ 200 Microeconomics</td>
<td>5</td>
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<tr>
<td>Econ 201* Macroeconomics</td>
<td>5</td>
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<tr>
<td>BusAd 240 Retail Buying and Management</td>
<td>5</td>
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<tr>
<td>BusAd 250 Introduction to Law</td>
<td>5</td>
</tr>
<tr>
<td>BusAd 270 Entrepreneurship</td>
<td>5</td>
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</tbody>
</table>

Total Credits Required 96-98

**APPROVED COURSE SUBSTITUTIONS**

- Eng 101 Composition and Expository Prose for BusTc 252 Professional Communications (5 cr.)
- Math 099 Intermediate Algebra for BusAd 175 Business Mathematics (5cr.)

* Students planning to complete Econ 201 should see catalog for course requirements.
General Business Administration Option

This Business Administration degree increases career alternatives in respect to employment and is designed to meet the needs of employed students who wish retraining and upgrading of skills and those students who prefer to plan their courses of study to meet specific employment objectives.

This degree program is available to day and evening students either full-time or part-time.

NOTE: This degree does not transfer to four-year academic institutions. See “Degree Programs: Academic Transfer” section for information on business administration transfer degree.

OUTCOMES

Students who successfully complete this program should be able to:
1. Understand the nature of operations, accounting, regulations, marketing and decision-making.
2. Apply business mathematics in order to analyze data and solve business problems.
3. Apply theories of motivation, occupational behavior and management in order to create a healthy, productive organizational climate.
4. Effectively communicate verbally and in writing in various business settings.
5. Understand management principles related to finance, personnel, products, services and information.
6. Apply general business skills to a variety of business environments.

AAAS DEGREE

PROGRAM PREREQUISITES:
Eng 100 or ESL 100 or satisfactory ASSET, COMPASS or ESL placement test score for English 101 or BusAd 252.
Math 099 or satisfactory ASSET, COMPASS test score for Math 107 or BusAd 175.

GENERAL EDUCATION REQUIREMENTS Cr.
BusTc 252 Prof. Communications ....................5
BusAd 175 Business Math ...............................5
BusAd 110 Human Relations in Bus. ................5
Multicultural Ed: See Approved List .................3-5
PE: Wellness/First Aid/Activities ......................3

BUSAD CORE REQUIREMENTS Cr.
Acctg 210 Financial Accounting I ..........5
Acctg 230 Managerial Accounting ..........5
BusAd 100 Business: An Introductory Analysis 5
CIS 105 Computer Applications ..........5
BusAd 120 Principles of Marketing ..........5
BusAd 200 Essentials of Supervision ..........5
BusAd 201 Introduction to International Business 5
BusAd 222 E-Business .........................5
BusAd 250 Introduction to Law ..........5
Econ 100 Principles of Economics ..........5
Econ 200 Microeconomics* ..........5
BusAd 270 Entrepreneurship –
Starting a New Business ........5

GENERAL BUSINESS DEGREE REQUIREMENTS Cr.
BusAd 130 Salesmanship .........................5
BusAd 150 Retail Marketing & Management ..5
BusAd 170 Fundamentals of Logistics & Transportation 5
BusAd 190 Purchasing & Supply Chain Management ..5

APPROVED COURSE SUBSTITUTIONS
Eng 101 Composition and Expository Prose
for BusTc 252 Professional Communications (5 cr.)
Math 107 Math: A Practical Art
for BusAd 175 Business Mathematics (5 cr.)
Acctg 101 Practical Accounting I
for Acctg 210 Financial Accounting (5 cr.)
Acctg 103 Practical Accounting III
for Acctg 230 Managerial Accounting (5 cr.)
CIS 106* Introduction to Information Technology
for CIS 105 Computer Applications (5 cr.)
Econ 100 Economic Principles
for Econ 200 Introduction to Microeconomics (5 cr.)

Total Credits Required .........................94-96

* Students planning to take Econ 200 or CIS 106 should see the catalog for course requirements.
Marketing Option
Marketing encompasses a broad spectrum of business activities which relate to consumer demand, product awareness and customer satisfaction. Marketing specialists study trends which influence consumer needs and buying habits. They help to determine the level of demand of particular products and services, identify and attract potential consumers, develop pricing strategies, oversee product development and promote products and services. They also enhance the public image of businesses through advertising, promotional events and public information.

The Marketing program provides an overview of basic marketing components including the principles of retailing, professional selling, advertising, public speaking, transportation and international marketing. Students completing this degree have the opportunity to transfer to Central Washington University to earn a bachelor’s degree in Retail Management.

OUTCOMES
Students who successfully complete this program should be able to:
1. Demonstrate professional sales skills, effectively interview clients and accurately gauge consumer needs.
2. Apply principles of sales management including the development and analysis of sales programs, budgets and expense reports.
3. Apply advertising principles including strategies for planning, producing and selecting the appropriate media.
4. Understand principles of product development, pricing, distribution strategies, promotion strategies and market research.
5. Apply principles of retailing such as business location, merchandising, inventory control, store management and vendor relationships.
6. Communicate effectively with consumers, business managers and vendors.
7. Understand business management as it relates to daily operations, personnel issues, finance, profit-loss analysis and decision-making.

OUTCOMES
Students who successfully complete this program should be able to:
1. Demonstrate professional sales skills, effectively interview clients and accurately gauge consumer needs.
2. Apply principles of sales management including the development and analysis of sales programs, budgets and expense reports.
3. Apply advertising principles including strategies for planning, producing and selecting the appropriate media.
4. Understand principles of product development, pricing, distribution strategies, promotion strategies and market research.
5. Apply principles of retailing such as business location, merchandising, inventory control, store management and vendor relationships.
6. Communicate effectively with consumers, business managers and vendors.
7. Understand business management as it relates to daily operations, personnel issues, finance, profit-loss analysis and decision-making.
Retail Management Option

Retail marketing is any business activity that directs its efforts toward the selling of goods or services to consumers. The Retail Management program builds on the general business curriculum and prepares students for a leadership role in the dynamic retail industry. Depending upon the size of the retail company, retail managers are responsible for one or more parts of a retail operation including buying, marketing, merchandising, operations, inventory control, personnel or finance. Leadership training is provided through DEC. Delta Epsilon Chi members prepare for careers in marketing, merchandising or management. Students completing this degree may have the opportunity to transfer to Central Washington University to earn a Bachelor’s Degree in Retail Management.

OUTCOMES

Students who successfully complete this program should be able to:

1. Apply principles of retail buying such as planning, merchandise selection and control, and building positive vendor relationships.
2. Apply principles of advertising including strategies for planning, producing and selecting appropriate media.
3. Communicate effectively with consumers, staff and vendors.
4. Demonstrate good salesmanship, effectively interview clients, accurately gauge consumer needs and build customer goodwill.
5. Apply principles of sales management including the development and analysis of sales programs, budget and expense reports.
6. Understand the nature of business operations, personnel, finances, regulations, marketing and decision-making.
7. Apply business mathematics to analyze data and solve business problems.

APPROVED COURSE SUBSTITUTIONS

* Students planning to take Econ 200 or CIS 106 should see the catalog for course requirements.
Certificate of Proficiency
Entrepreneurship

Students acquire an overview of basic marketing components including the principles of retailing, professional selling, advertising, public speaking, transportation, and international marketing.

OUTCOMES
Students acquire an overview of small business such as planning, merchandise selection and control, and building positive vendor relationships. They learn to apply principles of advertising strategies and how to develop and analyze sales programs.

<table>
<thead>
<tr>
<th>CERTIFICATE OF PROFICIENCY</th>
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**GENERAL EDUCATION REQUIREMENTS**

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<td>Human Relations in Business</td>
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**CORE REQUIREMENTS**

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<td>Practical Accounting II</td>
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<td>Acctg 220</td>
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<td>CIS 105</td>
<td>Computer Applications</td>
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<td>BusAd 201</td>
<td>Introduction to International Business</td>
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<td>BusAd 200</td>
<td>Essentials of Supervision</td>
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<td>Principles of Marketing</td>
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<tr>
<td>BusAd 250</td>
<td>Intro. to Law</td>
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</tr>
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</table>

Total credits required 50
DEGREE PROGRAMS: PROFESSIONAL/TECHNICAL

DESCRIPTION

The Business Technology program helps prepare individuals for jobs in today's computerized business environments. Students complete hands-on computer training in current word processing, spreadsheet, database, and presentation software. Students study human relations, mathematics, and communications, all essential for success in the workplace. Graduates of the program may find employment in a variety of office and administrative support positions. Students in the program develop skills essential in an office environment.

Students may complete both an AAAS Degree and Certificate of Proficiency. Those completing a degree program may choose electives from Accounting, Business Technology, Computer Information Systems, Visual Communications Technology, and/or other areas with Business Technology advisor approval.

OUTCOMES

Students who successfully complete this program will have:
1. A knowledge of current business practice and office technologies.
2. An ability to prioritize, organize, and plan office work.
3. An ability to use current computer software packages proficiently.
4. The communication and interpersonal skills necessary to work effectively with others.
5. An ability to manage information effectively.

AAAS DEGREE

PROGRAM PREREQUISITES or ASSUMED KNOWLEDGE
BusTc 100 Beginning Keyboarding or equivalent

GENERAL EDUCATION REQUIREMENTS

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<td>BusAd 112</td>
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<td>Human Relations in Business (5)</td>
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CORE REQUIREMENTS

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<td>BusAd 175</td>
<td>Business Mathematics</td>
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<td>BusTc 170</td>
<td>Access 2003</td>
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<td>Front Page</td>
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<td>BusTc 190</td>
<td>Electronic/Ten Key Calculator</td>
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<tr>
<td>BusTc 214</td>
<td>Filing</td>
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<tr>
<td>BusTc 270*</td>
<td>Office Procedures</td>
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<tr>
<td>BusTc 283**</td>
<td>Outlook</td>
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<tr>
<td>BusTc 299</td>
<td>Special Project: Work Experience</td>
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</table>

* offered Spring Quarter only
** offered Winter Quarter only

ELECTIVES

Choose 4-13 elective credits from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acctg 101</td>
<td>Practical Accounting I</td>
</tr>
<tr>
<td>Acctg 102</td>
<td>Practical Accounting II</td>
</tr>
<tr>
<td>Acctg 103</td>
<td>Computer Accounting</td>
</tr>
<tr>
<td>BusTc 100</td>
<td>Beginning Keyboarding</td>
</tr>
<tr>
<td>BusTc 284</td>
<td>Publisher</td>
</tr>
<tr>
<td>CIS 106</td>
<td>Intro to Information Tech</td>
</tr>
<tr>
<td>CIS 112</td>
<td>Intro to PC Hardware</td>
</tr>
<tr>
<td>CIS 192</td>
<td>Lab for PC Hardware</td>
</tr>
<tr>
<td>CIS 110</td>
<td>Operating Systems</td>
</tr>
<tr>
<td>CIS 190</td>
<td>Lab for Operating Systems</td>
</tr>
<tr>
<td>VCT 124</td>
<td>Basic Macintosh Systems Operation</td>
</tr>
<tr>
<td>VCT 125</td>
<td>Intro to Image Construction, Editing and Output</td>
</tr>
<tr>
<td>VCT 131</td>
<td>Computer Graphics: Desktop Publishing I</td>
</tr>
</tbody>
</table>

Total Credits Required 90
Certificate of Proficiency

DESCRIPTION
The Business Technology Certificate of Proficiency program helps prepare individuals for success in today's computerized business environments. Students complete hands-on computer training in current word processing, spreadsheet and presentation software. Students study human relations, mathematics, and communications - all in demand in today's business environments. Graduates of the program may find employment in a variety of office support positions.

The Business Technology Certificate of Proficiency credits may be applied to the Business Technology AAAS Degree. See an advisor in this program for details.

OUTCOMES
Students who successfully complete this program will have:
1. A working knowledge of current computer software.
2. A knowledge of current business practice and office technologies.
3. An ability to prioritize, organize, and plan office work.
4. The communication and interpersonal skills necessary to work effectively with others.

Certificates of Completion

DESCRIPTION
These programs are designed to train students for entry-level jobs in a business environment using the most common Microsoft business applications.

OUTCOMES
Students who successfully complete this program are ready to work in entry-level office settings.

PROGRAM REQUIREMENTS
Students choose four of the following courses.
- Business Software Applications
- Microsoft Software Applications
- Word Processing

Total Credits Required 19-20

Certificate of Completion

Business Software Applications

Certificate of Completion

PROGRAM REQUIREMENTS
Cr.
BusTc 128 Word 2003, Level 1 5
BusTc 129 Word 2003, Level 2 5
BusTc 150 Excel 2003 5
BusTc 160 PowerPoint 2003 4
BusTc 170 Access 2003 5

Total Credits Required 19

Microsoft Software Applications

Certificate of Completion

PROGRAM REQUIREMENTS
Cr.
BusTc 128 Word 2003, Level 1 5
BusTc 150 Excel 2003 5
BusTc 160 PowerPoint 2003 4
BusTc 170 Access 2003 5

Total Credits Required 19

Word Processing

Certificate of Completion

PROGRAM REQUIREMENTS
Cr.
BusTc 103 Speed Keyboarding I or 50 wpm 4
BusTc 128 Word 2003, Level 1 5
BusTc 129 Word 2003, Level 2 5
BusTc 135 Applied Word Processing 4

Total Credits Required 18
DEGREE PROGRAMS: PROFESSIONAL/TECHNICAL

COMPUTER INFORMATION SYSTEMS

DESCRIPTION
The Computer Information Systems (CIS) program offers a well-balanced course of study designed to prepare graduates for a career in microcomputer or Internet support or sales. Students gain technical expertise on microcomputers and learn good communication skills. The core curriculum focuses on various aspects of microcomputer support including these areas: operating systems, data communications, local area networks, systems analysis and design, web support, database and programming languages. Students work with state-of-the-art business computers and software. Class instruction and computer labs provide many opportunities for developing "hands-on" skills. Students may also elect to complete a Computer Information Systems certificate program.

OUTCOMES
Students who successfully complete this program should be able to:
1. Work in desktop computer operating systems including Windows.
2. Understand and apply data communications (hardware and software) concepts and terminology.
3. Understand and apply basic concepts of computer systems design and analysis.
4. Select, install and maintain computer equipment.
5. Communicate effectively in business settings.
6. Provide additional support in one (or more) of these areas: database, networking, programming or web development.

AAAS DEGREE

PROGRAM PREREQUISITES
Eng 100 (Analytical Reading and Writing) or BusAd 152 (Fundamentals of Business Communications); Math 80 and CIS 105.

GENERAL EDUCATION REQUIREMENTS  Cr.
BusTc 252  Professional Communications .................... 5
CIS 106  Introduction to Information Technology ........... 5
BusAd 112  Essentials of Human Relations ................. 2
Multicultural Ed: See Approved List ....................... 3
PE  Physical Education/Wellness/First Aid ................ 3

PROGRAM CORE  Cr.
Hardware, Operating Systems and Networks
CIS110/190 Operating Systems/Lab ..................... 5/1
CIS112/192 PC Hardware/Lab .......................... 5/2
CIS114/194 Data Communications/Lab ................. 5/1
CIS116/196 Local Area Networks ....................... 5/2
Database Systems
CIS 120  Database Applications & Concepts ............ 5
CIS 121  Database Design ............................... 5
CIS 287  Systems Analysis/Design ....................... 5
Programming
CIS 140  The Internet and HTML ....................... 5
CIS 162  C++ I —or—
CIS 172  Java I ........................................ 5
Communication & Customer Service
BusAd 135  Customer Service ........................... 3
CIS 299  Internship ...................................... 3

RECOMMENDED ELECTIVE  Cr.
Eng 270  Technical Report Writing ....................... 5

STUDENTS MUST CHOOSE ONE DEGREE OPTION FROM THE LIST ON THE FOLLOWING PAGE.
DEGREE OPTIONS (CHOOSE ONE)

**Database Management/Design (40 credits)**
- Acctg 210 Financial Accounting ............... 5
- BusAd 100 Business: An Introductory Analysis .... 5
- Math 108 Introduction to Statistics ............. 5
- Phil 120 Introduction to Logic ................. 5
- CIS 211 UNIX Fund. & Sys. Adm. ............... 5
- CIS 221 Intro SQL/oracle PL/SQL .............. 5
- CIS 222 Database Architecture -- Oracle ....... 5
- CIS 223 Adv. DB Apps./Mgmt. .................. 5

**Networks (23-25 credits)**
- BusAd 100 Business: An Introductory Analysis .... 5
- CIS 214/290 Windows and Lab .................. 6
- CIS 216/291 Windows Server and Lab ............ 7
- CIS 2xx Add'l. 200-level CIS .................. 5/6/7

**Web Developer (37 credits)**
- VCT 124 Basic Mac Sys. Ops. .................. 2
- VCT 125 Intro Image Construction ............... 2
- VCT 138 Intro to Internet Web Design .......... 3
- VCT 129 Photoshop ............................. 3
- CIS 240 JavaScript and Advanced HTML ........ 5
- MusTc 105 Rights/Methods/Menu ................ 2
- Eng 272 Writing for New Media ................ 5
- BusAd 224 Marketing.com ........................ 5
- PLUS: Additional 10 credits from Web Certificate areas of specialization.

Total Credits Required .................. 98-115

Certificates of Proficiency

**PC Tech Support**

The Computer Information Systems (CIS) certificate program offers a well-balanced course of study designed to introduce students to various aspects of microcomputer support including these areas: operating systems, data communications, local area networks, systems analysis and design, web support, database and programming languages. This program also provides working professionals with an opportunity to enhance their computer skills and gain confidence -- essential elements for advancing in today’s job market. In addition, students gain technical expertise on microcomputers and build good communication skills. Students develop hands-on skills in class labs where they work with state-of-the-art business computers and software. Students may also elect to complete a Computer Information Systems degree.

**OUTCOMES**

Students who successfully complete this program should be able to:
1. Work in desktop computer operating systems including Windows.
2. Understand and apply data communications (hardware and software) concepts and terminology.
3. Select, install and maintain computer equipment.

**CREDENTIAL OF PROFICIENCY**

**PROGRAM PREREQUISITES**

Eng 100 (Analytical Reading and Writing) or ESL 100 (Academic ESL) or BusAd 152 (Fundamentals of Business Communications) or satisfactory ASSET test or ESL placement test score for Eng 101. See Program Advisors for details, exceptions and additional information regarding prerequisites and program requirements.

**GENERAL EDUCATION REQUIREMENTS**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>BusTc 252</td>
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<tr>
<td>CIS 106</td>
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<td>BusAd 112</td>
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<td>BusAd 110</td>
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<td>Multicultural Ed.</td>
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<td>PE</td>
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**CERTIFICATE REQUIREMENTS**

<table>
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<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CIS 110/190</td>
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<tr>
<td>CIS 112/192</td>
<td>7</td>
</tr>
<tr>
<td>CIS 114/194</td>
<td>6</td>
</tr>
<tr>
<td>CIS 116/196</td>
<td>7</td>
</tr>
<tr>
<td>BusAd 135</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits Required .............. 47-50
Web Developer
Companies are investing more resources in creating a dynamic presence on the World Wide Web for communication, advertising, and commerce. As a result, skilled Web programmers, Web designers, and Web writers are in demand. Developed by a team of faculty and industry representatives, the Web Developer program integrates coursework and degree/certification tracks in the areas of Web programming, Web design, and Web writing.

OUTCOMES
Students who successfully complete this program should be able to:
1. Apply visual design principles and elements in creating Web pages and sites.
2. Write effective code using HTML and JavaScript.
3. Incorporate appropriate multimedia for the Web.
4. Use PCs and Macs in designing pages and sites.
5. Write effective text for publication on Web sites, intranets and interactive kiosks.
6. Understand and apply basic data communications concepts and terminology.
7. Apply marketing principles in developing Web pages.

CERTIFICATE OF PROFICIENCY
PROGRAM PREREQUISITES
ENG 100 (Analytical Reading and Writing) or BusAd 152 (Fundamentals of Business Communications) or satisfactory ASSET test score for ENG 101. See Program Advisors for details, exceptions and additional information regarding prerequisites and program requirements.

PROGRAM REQUIREMENTS  Cr.

<table>
<thead>
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<tbody>
<tr>
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<td>Computer Basics</td>
<td>5</td>
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<tr>
<td>VCT</td>
<td>Introduction Information Technology</td>
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</tr>
<tr>
<td>VCT</td>
<td>Basic Macintosh Systems Operation</td>
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<table>
<thead>
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<th>Course</th>
<th>Title</th>
<th>Cr.</th>
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</thead>
<tbody>
<tr>
<td>CIS</td>
<td>Web Programming</td>
<td>5</td>
</tr>
<tr>
<td>CIS</td>
<td>The Internet &amp; HTML</td>
<td>5</td>
</tr>
<tr>
<td>CIS</td>
<td>JavaScript &amp; Adv HTML</td>
<td>5</td>
</tr>
<tr>
<td>VCT</td>
<td>Intro to Photoshop</td>
<td>3</td>
</tr>
<tr>
<td>VCT</td>
<td>Introduction to Internet Web Design</td>
<td>3</td>
</tr>
<tr>
<td>MusTc</td>
<td>Rights and Methods in Multimedia</td>
<td>2</td>
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<tr>
<td>Eng</td>
<td>Writing for New Media</td>
<td>5</td>
</tr>
<tr>
<td>BusAd</td>
<td>Marketing.com</td>
<td>5</td>
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<table>
<thead>
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<th>Course</th>
<th>Title</th>
<th>Cr.</th>
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<tbody>
<tr>
<td>BusTc</td>
<td>Professional Communications</td>
<td>5</td>
</tr>
<tr>
<td>BusAd</td>
<td>Essentials of Human Relations (2)</td>
<td>5</td>
</tr>
<tr>
<td>BusAd</td>
<td>Human Relations in Business (5)</td>
<td>5</td>
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</table>

Total: 44-47

ONE SPECIALIZATION REQUIRED:

Web Programmer

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS</td>
<td>Database Applications and Concepts</td>
<td>5</td>
</tr>
<tr>
<td>CIS</td>
<td>Web Database</td>
<td>5</td>
</tr>
<tr>
<td>VCT</td>
<td>Computer Graphics: Desktop Publishing I</td>
<td>3</td>
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<tr>
<td>VCT</td>
<td>Computer Illustration</td>
<td>3</td>
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<tr>
<td>Art</td>
<td>Design</td>
<td>5</td>
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<tr>
<td>VCT</td>
<td>Advanced Web Design</td>
<td>3</td>
</tr>
<tr>
<td>Eng</td>
<td>Technical Report Writing</td>
<td>5</td>
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<tr>
<td>Eng</td>
<td>Composition and Expository Prose</td>
<td>5</td>
</tr>
<tr>
<td>Eng</td>
<td>Expository Writing</td>
<td>5</td>
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<tr>
<td>Eng</td>
<td>Poetry &amp; Lyric Writing I</td>
<td>5</td>
</tr>
<tr>
<td>Eng</td>
<td>Poetry &amp; Lyric Writing II</td>
<td>5</td>
</tr>
<tr>
<td>Eng</td>
<td>Beginning Short Story Writing I</td>
<td>5</td>
</tr>
<tr>
<td>Eng</td>
<td>Beginning Short Story Writing II</td>
<td>5</td>
</tr>
</tbody>
</table>

*General Education Requirements
Certificates of Completion

PC Service Tech

This course is designed to prepare students to understand PC hardware and operating systems based on A+ certification.

OUTCOMES

Students who successfully complete this program will understand the basic components of data communications, LAN operating systems, and associated technology.

Certificate of Completion

PROGRAM PREREQUISITES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 106</td>
<td>Introduction to Information Technology</td>
<td>5</td>
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Certificate Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 110</td>
<td>Operating Systems (with lab)</td>
<td>5</td>
</tr>
<tr>
<td>CIS 112</td>
<td>Introduction to PC Hardware</td>
<td>5</td>
</tr>
<tr>
<td>CIS 190</td>
<td>Operating Systems Lab</td>
<td>1</td>
</tr>
<tr>
<td>CIS 192</td>
<td>Intro to PC Hardware Lab</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Credits Required: 13

Network

This program is designed to prepare students to set up and manage networks. The curriculum includes topics based upon Network + certification requirements.

OUTCOMES

Students who successfully complete this program will understand the basic components of data communications, LAN operating systems, and associated technology.

Certificate of Completion

PROGRAM PREREQUISITES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 106</td>
<td>Introduction to Information Technology</td>
<td>5</td>
</tr>
<tr>
<td>VCT 124</td>
<td>Basic Macintosh Systems Operations</td>
<td>2</td>
</tr>
<tr>
<td>VCT 125</td>
<td>Intro to Image Const. &amp; Output</td>
<td>2</td>
</tr>
<tr>
<td>CIS 140</td>
<td>The Internet and HTML</td>
<td>5</td>
</tr>
<tr>
<td>VCT 129</td>
<td>Intro to Photoshop</td>
<td>3</td>
</tr>
<tr>
<td>MusTc 105</td>
<td>Rights and Methods in Multimedia</td>
<td>2</td>
</tr>
<tr>
<td>ENG 272</td>
<td>Writing for New Media</td>
<td>5</td>
</tr>
<tr>
<td>BusAd 110</td>
<td>Human Relations in Business (5) –or– BusAd 112</td>
<td>Essentials of Human Relations (2)</td>
</tr>
<tr>
<td>BusTc 252</td>
<td>Professional Communications –or– Eng 101</td>
<td>Composition and Expository Prose</td>
</tr>
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CERTIFICATE REQUIREMENTS

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
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<tbody>
<tr>
<td>BusAd 284</td>
<td>Special Topics: E-Procurement</td>
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<tr>
<td>BusAd 285</td>
<td>Special Topics: E-Business</td>
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<tr>
<td>BusAd 285</td>
<td>Special Topics: Internet Law</td>
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</tr>
<tr>
<td>BusAd 224</td>
<td>Marketing.com</td>
<td>5</td>
</tr>
</tbody>
</table>

Total Credits Required: 19

Web Development with emphasis in Web E-commerce

Students will acquire an overview of e-commerce, categorize it, and examine its application to business. The program lays a foundation for employment in emerging web-based business positions.

OUTCOMES

This short-term certificate is offered to those business managers who would like to update their knowledge in the expanding field of e-commerce. This specialization is also part of the Web Development certificate program and may be applied to a one-year certificate of proficiency.

Certificate of Completion

PROGRAM PREREQUISITES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 105</td>
<td>Computer Applications</td>
<td>5</td>
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<td>VCT 124</td>
<td>Basic Macintosh Systems Operations</td>
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<td>VCT 125</td>
<td>Intro to Image Const. &amp; Output</td>
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<td>CIS 140</td>
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<td>Essentials of Human Relations (2)</td>
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<td>BusTc 252</td>
<td>Professional Communications –or– Eng 101</td>
<td>Composition and Expository Prose</td>
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CERTIFICATE REQUIREMENTS

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<tbody>
<tr>
<td>BusAd 284</td>
<td>Special Topics: E-Procurement</td>
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<tr>
<td>BusAd 285</td>
<td>Special Topics: E-Business</td>
<td>5</td>
</tr>
<tr>
<td>BusAd 285</td>
<td>Special Topics: Internet Law</td>
<td>5</td>
</tr>
<tr>
<td>BusAd 224</td>
<td>Marketing.com</td>
<td>5</td>
</tr>
</tbody>
</table>

Total Credits Required: 19
Web Development with emphasis in Web Writer

Students will acquire the skills to write effective text for publication on websites, intranets and interactive kiosks.

OUTCOMES
Students who successfully complete this program will acquire the skills to write effective text for publication on websites, intranets, and interactive kiosks. They will learn the principles and practices of creating new media content. Students will explore types of site hierarchy, online content writing and editing, project documentation and audience analysis. Students will develop new media content for a client.

CERTIFICATE OF COMPLETION

PROGRAM PREREQUISITES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tr>
<td>CIS</td>
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<td>VCT</td>
<td>Basic Macintosh Systems Operations</td>
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<td>VCT</td>
<td>Intro to Image Const. &amp; Output</td>
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</tr>
<tr>
<td>CIS</td>
<td>The Internet and HTMlL</td>
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<tr>
<td>CIS</td>
<td>JavaScript and Advanced HTMlL</td>
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<tr>
<td>VCT</td>
<td>Intro to Photoshop</td>
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</tr>
<tr>
<td>VCT</td>
<td>Introduction to Internet Web Design</td>
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</tr>
<tr>
<td>MusTc</td>
<td>Rights and Methods in Multimedia</td>
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<tr>
<td>ENG</td>
<td>Writing for New Media</td>
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<tr>
<td>BusAd</td>
<td>Marketing.com</td>
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<tr>
<td>BusAd</td>
<td>Human Relations in Business (5)</td>
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<tr>
<td>BusAd</td>
<td>Essentials of Human Relations (2)</td>
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CERTIFICATE REQUIREMENTS

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<td>Technical Report Writing</td>
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<tr>
<td>ENG</td>
<td>Composition &amp; Expository Prose (5)</td>
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<td>Expository Writing (5)</td>
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<td>ENG</td>
<td>Beginning Poetry Writing I (5)</td>
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<tr>
<td>ENG</td>
<td>Beginning Poetry Writing II (5)</td>
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<tr>
<td>ENG</td>
<td>Beginning Short Story Writing I (5)</td>
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<tr>
<td>ENG</td>
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</tbody>
</table>

Total Credits Required: 13
COSMETOLOGY PROGRAM

| (206) 542-5685 or (206) 546-5365 |

DESCRIPTION
The Cosmetology curriculum teaches the art and science of cosmetology as well as basic business and interpersonal skills. Students learn hair, skin and nail care along with health and safety procedures. Building upon a foundation of cosmetology theory, students gain hands-on experience in beauty culture practice. Students work in the classroom and under actual salon conditions. Course work prepares graduates for the Washington State Cosmetology Licensing Examinations. Students completing the Cosmetology program receive a Certificate of Proficiency. Admission to the Certificate program is by waiting list. All interested students should call (206) 542-5056 to request a brochure be mailed to them. Next, interested students will need to attend an information session. Session dates and times are listed in the brochure.

OUTCOMES
Students who successfully complete this program should be able to:
1. Successfully interact with customers and build a clientele.
2. Perform hair care and styling services such as scalp treatments, shampooing, cutting, shaping, setting and combing techniques, as well as chemical treatments including permanent waving, hair coloring and lightening, and chemical relaxing.
3. Perform nail care services such as manicuring and pedicuring.
4. Perform skin care services including skin analysis, make-up application and basic facial treatments, and superfluous hair removal.
5. Perform appropriate safety and sanitation procedures related to all hair, skin and nail services.
6. Conduct typical business operations such as making appointments, cashiering and inventory.

CERTIFICATE OF PROFICIENCY

PROGRAM PREREQUISITES
Applicants must be at least sixteen years of age and comply with established College entrance testing.

GENERAL EDUCATION REQUIREMENTS Cr.
BusTc 152 Fundamentals of Business Communications 5
Cos 154 Human Relationships 3

FOR FULL-TIME STUDENTS Cr.
Cos 151* Clinical Practice I 18
Cos 152* Clinical Practice II 10

FOR PART-TIME STUDENTS Cr.
Cos 148* Clinical Practice Ia 9
Cos 149 Clinical Practice Iib 4.5
Cos 150* Clinical Practice IIIc 9
Cos 155 Clinical Practice IVd 4.5

FOR ALL STUDENTS Cr.
Cos 101 Theory of Cosmetology 1 5
Cos 102 Theory of Cosmetology 2 5
Cos 103 Theory of Cosmetology 3 5
Cos 201* Salon Bus. Operations 5
Cos 251* Clinical Practice III 10
Cos 252* Clinical Practice IV 9
Cos 253 Clinical Practice V 9
Cos 260 Adv Haircut & Styling 2
Cos 265 Cos Final Assignment 3

Total Credits Required 88-89

*The Quantitative Reasoning requirements are embedded in these courses.

Classes for part-time students meet Monday through Friday from 12 to 3-3:45 pm during the first through the fourth quarters. The fifth through seventh quarters require full-time enrollment. Attendance in the Summer Quarter is mandatory for all students in the Cosmetology program. Cosmetology quarters are 11 weeks in length.
DESCRIPTION
Offers students an overview of the forces that have shaped and influenced the field of criminal justice; explores ethical and social issues and promotes self-awareness; introduces strategies for understanding, preventing and investigating criminal activities; teaches practical criminal justice procedures and prepares students for careers in law enforcement, corrections, private security, and other areas. Students planning to pursue a bachelor's degree should follow the Criminal Justice Option A transfer degree.

OUTCOMES
Students who successfully complete this program should be able to:
1. Evaluate federal and state constitutions and their respective criminal codes.
2. Apply basic theories of police operations and management.
3. Communicate effectively within the criminal justice system.
4. Effectively communicate with the public and respond to various problems many of which may not be criminal in nature.
5. Fairly enforce the laws which regulate public conduct.
6. Properly identify, collect and preserve evidence.
7. Conduct preliminary traffic and criminal investigations, report findings and testify effectively in court.
8. Promote security through appropriate application of standard patrol practices and police interventions.

AAAS DEGREE

GENERAL EDUCATION REQUIREMENTS

<table>
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*Human Relation requirement is embedded in CrimJ131 &134.

NON-CRIMINAL JUSTICE CORE REQUIREMENTS

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RECOMMENDED COURSE OF STUDY

CORE REQUIREMENTS

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<td></td>
<td>Phil 248 Ethical Issues</td>
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<td>Second</td>
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<td>Crimj 134 Administ.</td>
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<td>Fourth</td>
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PROFESSIONAL ELECTIVES

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ACADEMIC ELECTIVES

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Total Credits Required 94-96

*Internship is recommended for either 5th or 6th quarter. It is only offered winter and spring quarters.
CRIMINAL JUSTICE PROGRAM (CONT.)

Emergency Dispatcher

DESCRIPTION
The Emergency Dispatcher course (ED) is part of Shoreline’s Criminal Justice Program. It includes some of the same core course work included in the Criminal Justice A.A.A.S. However, the course then focuses on the specific skills and techniques required for those interested in a career working specifically in the Emergency Dispatcher arena where value is placed on technical expertise with computers and keyboarding, critical thinking, problem solving, a calm demeanor, and the ability to multi-task. The program focuses on computer related technical skills, cultural awareness, human relations, relevant ethical and social issues, communications, and criminal justice education. In the second year, students will take successive Emergency Dispatcher* courses, concluding with a one-quarter-long lab designed to train them to work in a 9-1-1 dispatch center. Students with previous course work may qualify to take only specific portions of the PSC course.

*Students should not enroll in CrimJ 210, 211 and 212 as stand-alone classes without pursuing either the AAAS degree or the Certificate of Proficiency. Any questions in this regard should be directed to the instructor teaching the course or the Criminal Justice Program Director.

OUTCOMES
Students who successfully complete this program should be able to:
1. Apply basic theories of police operations and organization.
2. Communicate effectively within the criminal justice system using current 9-1-1 communications technology.
3. Communicate effectively with the public in high stress situations using current 9-1-1 communications technology.

AAAS DEGREE

PROGRAM PREREQUISITES:
High School Diploma or GED English 100 or ASSET test at that level

GENERAL EDUCATION REQUIREMENTS  Cr.
Eng 101 Composition  .................. 5
CIS 105 Computer Applications  .......... 5
IAStu 202 Soc. Of Minority Groups  .... 5
IAStu 282 Gender/Viol/Soc. Change  .... 5
PE 292 First Aid & Safety  ....... 3

NON-CRIMINAL JUSTICE CORE REQUIREMENTS  Cr.
SpCmu 101 Speech Communication  .... 5
Psych 100 General Psychology  ........ 5
BusTC 100 Beg. Keyboarding  .......... 5
BusTC 103 Speed Keyboarding  .......... 4
BusAd 112 Essentials of Human Relations 2
HumDv 130 Stress Management  .......... 2

RECOMMENDED COURSE OF STUDY

POLICE COMMUNICATIONS COURSE CORE REQUIREMENTS  Cr.
First Quarter
CrimJ 131 Intro to Criminal Justice .... 5
Phil 248 Ethical Issues in Crim,Just. .... 5
Second Quarter
CrimJ 132 Police Records and Report Writing 4
CrimJ 133 Criminal Law  ........ 5
Third Quarter
CrimJ 249 Police Operations  ........ 5
Fourth Quarter
CrimJ 210 ED I – Intro to Operations Systems and Technology 5
Fifth Quarter
CrimJ 211 ED II – 911 & Emergency Call Screening 5
CrimJ 138 Juvenile Justice  ........ 5
Sixth Quarter
CrimJ 212 ED III – Call Processing Techniques and Lab 5

Total Credits Required .............. 90
Certificate of Proficiency
Emergency Dispatcher

The Emergency Dispatcher certificate of proficiency course (ED) is part of Shoreline’s Criminal Justice Program. It is similar to the A.A.A.S. degree in Emergency Dispatcher, but focuses on the technical skills and techniques required for working in the Emergency Dispatcher arena where value is placed on technical expertise with computers and keyboarding, critical thinking, problem solving, a calm demeanor, and the ability to multi-task. The program focuses on computer related technical skills, human relations, and stress management. The course includes three successive Emergency Dispatcher* courses, concluding with a one-quarter-long lab designed to students to work in a 9-1-1 dispatch center. Students with previous course work in the criminal justice program could combine that course work and this certificate program into an A.A.A.S. degree.

*Students should not enroll in CrimJ 210, 211, or 212 as stand-alone classes without pursuing either the A.A.S. degree or the Certificate of Proficiency. Any questions in this regard should be directed to the instructor teaching the course or the Criminal Justice Program Director.

OUTCOMES
Students who successfully complete this program should be able to:
1. Communicate effectively within the criminal justice system using current 9-1-1 communications technology
2. Communicate effectively with the public in high stress situations using current 9-1-1 communications technology
DEGREE PROGRAMS: PROFESSIONAL/TECHNICAL

DENTAL HYGIENE PROGRAM

(206) 546-4711

DESCRIPTION
Dental Hygiene is a health profession with its primary responsibility being preventive in nature. Licensure qualifies the dental hygienist to provide oral health services to patients in a variety of settings including private dental offices (general or specialty practices), public health facilities, state institutions, hospitals, common schools, nursing homes, group homes for the elderly or the disabled, and the military. In addition, dental hygienists may be employed as dental clinic managers, dental health educators and supervisors for public health agencies.

The Dental Hygiene Program is a two-year, seven-quarter curriculum which focuses on the development of strong clinical skills and proficiency as a dental health educator. Students completing this program are eligible to write the National Board Examination given by the Joint Commission on National Dental Examinations. Students are also prepared to take the clinical examination required by each of the licensing jurisdictions in the United States in order to become registered dental hygienists (RDH). Upon completion of the program, the student will receive an Associate of Applied Arts and Sciences Degree. The program is accredited by the Commission on Dental Accreditation, a specialized accrediting body recognized by the U.S. Dept. of Education.

This program is Associate of Applied Science-Technology (AAS-T) degree eligible. The AAS-T degree indicator, which will appear on your transcript, will enable students to transfer this degree directly to some four-year institutions. Please check with your program advisor for more specific information.

PREREQUISITE COURSE WORK
Upon entry into the program, the student begins intense study of advanced sciences. Background in general education/related instruction and the basic sciences is essential to prepare the student to succeed in the dental hygiene curriculum.

Therefore, applicants are required to complete designated pre-dental hygiene course requirements no later than the end of Summer Quarter the year of application. Information on these courses is provided in the Dental Hygiene Program brochure. Applicants must obtain the brochure from either the Dental Hygiene webpage found on the SCC website for the year they are applying.

GENERAL EDUCATION REQUIREMENTS/RELATED INSTRUCTION

Quantitative Reasoning
See list of approved courses ........................................5

Multicultural Education
See list of approved courses .........................................3-5

Human Relations
BusAd 112 Essentials of Human Relations (2) —or—
BusAd 110 Human Relations (5) .................................2-5

PROGRAM PREREQUISITES
Eng 101 Composition and Expository Prose .............5
BioSc 201 Principles of Biology ...............................5
Chem 101 Basic General Chemistry ........................5
PE 292 First Aid and Personal Safety ........................3
Chem 220 Basic Organic Chemistry/Biochemistry .......5
BioSc 210 Human Anatomy .................................5
BioSc 211 Human Physiology ...............................5
BioSc 215 Topics in Microbiology ............................5
NDF 110 Nutrition .............................................5
SpCmu 101 Basic Speech Communication —or—
SpCmu 220 Introduction to Public Speaking .............5
Psych 100 General Psychology ...............................5

APPLICATION TO PROGRAM
The Dental Hygiene Program receives more applications each year than there are available student spaces. It is therefore necessary to employ strict admissions requirements and selection procedures so that those applicants who are deemed best qualified to succeed in the Dental Hygiene Program and the dental hygiene profession may be selected.

It is important for every applicant (new or re-applying) to obtain an updated copy of the Dental Hygiene Program brochure from the Dental Hygiene webpage during the Fall Quarter prior to beginning the application process. Since class selection procedures are subject to change, this will ensure that the applicant receives accurate information about required procedures, documents and deadlines. It is the applicant’s responsibility to seek current admissions information and to see that his or her file is complete and up-to-date. Advanced planning and early submission of materials are strongly encouraged.

REQUIREMENTS AFTER ACCEPTANCE INTO THE PROGRAM

1. Complete physical examination, including eye examination
2. Tuberculin skin test
3. Record of current immunizations (tetanus, diphtheria, rubella, polio, measles, hepatitis B and mumps)

CONTINUED NEXT PAGE
Students selected for the program will be required to purchase approved personal protective equipment, a “student issue” of supplies and instruments, and malpractice insurance. Students seeking further information about program costs should contact the Dental Hygiene Program at (206) 546-4711. Financial aid may be available through the college. Contact the Financial Aid Office at (206) 546-4762 for information. Dental Hygiene web advisor: dentalhygiene@shoreline.edu.

OUTCOMES
Students who successfully complete this program should be able to:
1. Examine patients using appropriate screening procedures.
2. Expose and develop radiographs.
3. Remove calculus and plaque (hard and soft deposits) from teeth.
4. Teach patients how to maintain healthy teeth and gums through proper oral hygiene.
5. Counsel patients concerning the role of good nutrition in oral health maintenance.
6. Apply cavity preventive agents such as fluoride and sealants.
7. Make impressions of patients’ teeth for study models used in the evaluation of treatment options.
8. Place and finish dental restorations (fillings.)

AAAS DEGREE

FIRST YEAR

Fall Quarter

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Spring Quarter

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SECOND YEAR

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Total Credits Required: 118

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Summer Quarter

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SECOND YEAR

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Spring Quarter

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Total Credits Required: 118

DENTAL HYGIENE PROGRAM (Cont.)
**DESCRIPTION**

Dietitians, Nutritionists and Dietetic Technicians focus on ways to promote health and prevent disease through good eating habits. They may work directly with clients to evaluate eating habits and make dietary recommendations, develop menus, or supervise food service operations in health care institutions. Dietetic Technicians also work in community health agencies, school nutrition programs, fitness and wellness organizations, and specialty clinics.

The Dietetic Technology program is designed to prepare students to work in nutritional services in a variety of settings. Students develop a firm foundation in patient education, basic and clinical nutrition, menu writing, supervisory and management skills related to nutritional services and institutional food production. Students learn and practice nutritional assessment skills along with techniques for screening and educating clients and patients. Students integrate classroom learning and gain valuable experience through clinical preceptorships.

The program places emphasis on nutritional care and is approved by the American Dietetic Association. Graduates may join the professional organization as voting members. A national registration examination must be successfully written by graduates who wish to earn the title “Dietetic Technician, Registered.” This examination is taken after graduation and is administered through the ADA.

**OUTCOMES**

Students who successfully complete this program should be able to:

1. Effectively interview and communicate with clients and patients.
2. Use basic tools and strategies for data collection, assessment and patient education.
3. Prepare nutritional care plans for clients at various stages in the life-cycle and from diverse cultural and social backgrounds.
4. Apply knowledge of nutrition, anatomy and human physiology to assist clients with energy balance, weight control and improvement of general good health and well-being.
5. Apply knowledge of food safety and sanitation procedures, menu planning, purchasing, inventory and quality control and other aspects of food service operations.
6. Apply principles of clinical nutrition and food service administration including planning, decision making, leadership, and management of financial and human resources.
7. Work effectively with both institutionalized and home-based clients.
8. Demonstrate a general understanding of the role and professional responsibility of dietetic technicians at various private and public health care delivery systems and regulatory agencies.

**CONTINUED NEXT PAGE**
DEGREE PROGRAMS: PROFESSIONAL/TECHNICAL

AAAS DEGREE

PROGRAM PREREQUISITES
Eng 100 (Analytical Reading and Writing) or ESL 100 [Academic ESL] or satisfactory ASSET test score or ESL placement test score for English 101
Math 070 (Preparation for Algebra) or satisfactory ASSET test score for Math 080 or 099

FRESHMAN YEAR

Fall Quarter
- Eng 101 Composition and Expository Prose . . . . . . .5
- NDF 180 Dietetics in Health Care . . . . . . . . . . . . . . .5
- NDF 200 Food Science & Meal Management . . . . . .5

Winter Quarter
- NDF 110 Nutrition . . . . . . . . . . . . . . . . . . . . . . . . . .5
- NDF 103 Food Systems Management I . . . . . . . . . . .5
- NDF 104 Food Systems Preceptorship I . . . . . . . . . . .2
- CIS 105 Computer Applications . . . . . . . . . . . . . . 5

Spring Quarter
- NDF 210 Advanced Nutrition . . . . . . . . . . . . . . . . . . .5
- NDF 105 Food Systems Management II . . . . . . . . . . .5
- NDF 106 Food Systems Preceptorship II . . . . . . . . . . .3

SOPHOMORE YEAR

Fall Quarter
- NDF 220 Nutrition/Diet Therapy I . . . . . . . . . . . . . . .5
- NDF 221 Clinical Preceptorship I . . . . . . . . . . . . . . .3
- BioSc 108 Anatomy & Physiology . . . . . . . . . . . . . . 5

Winter Quarter
- NDF 230 Nutrition/Diet Therapy II . . . . . . . . . . . . . . .5
- NDF 231 Clinical Preceptorship II . . . . . . . . . . . . . . .3
- IAS 102 Multicultural Issues (3) —OR—
- IAS 103 Introduction to Multicultural Studies (5) 3-5

Spring Quarter
- NDF 240 Community Nutrition . . . . . . . . . . . . . . . . .5
- NDF 241 Community Nutrition Preceptorship . . . . . .3
- NDF 281 Seminar . . . . . . . . . . . . . . . . . . . . . . . . . . .1
- PE 292 First Aid & Personal Safety . . . . . . . . . . . . . .3

Total Credits Required . . . . . . . . . .91-93

IMPORTANT: A minimum of 450 clock hours of food systems management and clinical preceptorships in various food management and health care facilities is required to allow students to put into practice skills learned in the classroom. Students participating in preceptorships must provide their own transportation, health and liability insurance, laboratory coats and name plates as required by the institutions. A health assessment including immunizations and a food handler’s permit is required of each student. A Washington State Patrol background check will be conducted on each student. Any student who cannot participate in patient or client care based on the background check and/or serious health problems will not be able to attend clinical preceptorships.

In addition to the above courses, students will be required to take 10 extra credits to meet graduation requirements. Please see the Dietetic Technology Program director for a list of suggested courses.
DESCRIPTION
The Education Programs are designed to provide students with the knowledge and skills necessary for employment in a variety of social and educational agencies. Based on personal and career interests, students may select one of three AAAS degree options: Early Childhood Educator/Paraeducator, Special Education and Bilingual/Bicultural Education. These programs are designed to meet paraeducator requirements set by the State of Washington Office of the Superintendent of Public Instruction (OSPI) as well as the lead teacher requirements established by the State of Washington childcare licensing standards, the State of Washington ECEAP standards and the national Head Start performance standards.

Students learn about the social, emotional, language and intellectual development of children as well as specific strategies for encouraging healthy development. Students also learn how to develop group activities, plan a curriculum, guide individuals and groups of children, and effectively communicate with children, families and co-workers. Internships provide students with an opportunity to integrate classroom coursework, increase confidence and gain valuable experience. All courses are taught from a multicultural perspective.

OUTCOMES
Students who successfully complete this program should be able to:
1. Select and implement developmentally and culturally appropriate educational practices that positively impact young children’s development, creativity and self-esteem.
2. Develop and implement creative, innovative and culturally sensitive instructional techniques.
3. Plan group activities and effectively manage a multicultural classroom.
4. Perform basic assessments and measurements of children in an educational setting.
5. Work appropriately with exceptional children and those with special needs.
6. Communicate effectively with children, parents, colleagues and educational administrators.

Bilingual/Bicultural Education Option

AAAS DEGREE

PROGRAM PREREQUISITES
Eng 100 (Analytical Reading and Writing) or ESL 100 (Academic ESL) or satisfactory ASSET test score or ESL placement test score for English 101
Math 070 (Preparation for Algebra) or satisfactory ASSET test score for Math 080 or 099

GENERAL EDUCATION REQUIREMENTS

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<td>Eng 101</td>
<td>Composition and Expository Prose</td>
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<td>Math 170</td>
<td>Math for Elem Teachers I</td>
<td>5</td>
</tr>
<tr>
<td>Math 107</td>
<td>Math: A Practical Art</td>
<td>5</td>
</tr>
<tr>
<td>Math 107</td>
<td>or other approved Math course</td>
<td>5</td>
</tr>
<tr>
<td>IASStu 103</td>
<td>Intro to Multicultural Studies</td>
<td>5</td>
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<tr>
<td>EnvSc 201</td>
<td>Environmental Science</td>
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<tr>
<td>IASStu 282</td>
<td>Gender, Violence &amp; Social Change</td>
<td>5</td>
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<tr>
<td>PE 292</td>
<td>First Aid and Personal Safety</td>
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CORE REQUIREMENTS

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<tbody>
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<td>Edu 100</td>
<td>Intro to Education</td>
<td>5</td>
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<tr>
<td>Edu 101*</td>
<td>Child Growth &amp; Development</td>
<td>5</td>
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<tr>
<td>Edu 105</td>
<td>Language &amp; Literacy</td>
<td>5</td>
</tr>
<tr>
<td>Edu 115†</td>
<td>Culturally Relevant Anti-Bias Strategies</td>
<td>5</td>
</tr>
<tr>
<td>Edu 121†</td>
<td>Strategies and Methods: Bilingual/Bicultural Education</td>
<td>5</td>
</tr>
<tr>
<td>Edu 122†</td>
<td>The Educational Context of Linguistics</td>
<td>5</td>
</tr>
<tr>
<td>Edu 123†</td>
<td>Multi-Ethnic Children &amp; Families</td>
<td>5</td>
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<tr>
<td>Edu 125*</td>
<td>Intro to Special Education</td>
<td>5</td>
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<tr>
<td>Edu 250†</td>
<td>Child Guidance and Classroom Mgmt.</td>
<td>5</td>
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<td>Edu 260†</td>
<td>Student Internship I</td>
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<tr>
<td>Edu 261†</td>
<td>Student Internship II</td>
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</table>

ELECTIVES

Choose 10 credits from courses listed below:
Edu Any Education class not taken as a core requirement | 5
World Languages | 5

Total Credits Required | 93

* The Human Relations requirement is embedded in these courses.
† Classes only offered once a year: Check with Education instructors for schedule.
**Early Childhood Educator/Paraeducator Option**

### AAAS Degree

**Program Prerequisites**

- Eng 100 (Analytical Reading and Writing) or ESL 100 (Academic ESL) or satisfactory ASSET test score or ESL placement test score for English 101
- Math 070 (Preparation for Algebra) or satisfactory ASSET test score for Math 080 or 099

**General Education Requirements**

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<td>Math 170 Math for Elem Teachers I</td>
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<td>Math 107 Math: A Practical Art</td>
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<td>IAStu 103 Intro to Multicultural Studies</td>
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<td>EnvSc 201 Environmental Science</td>
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<td>IAStu 282 Gender, Violence &amp; Social Change</td>
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<td>PE 292 First Aid and Personal Safety</td>
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**Core Requirements**

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<td>Edu 105 Language &amp; Literacy</td>
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<tr>
<td>Edu 115† Culturally Relevant Anti-Bias Strategies</td>
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<tr>
<td>Edu 125* Intro to Special Education</td>
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<tr>
<td>Edu 250† Child Guidance and Classroom Mgmt</td>
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<td>Edu 265† Issues &amp; Trends in Childhood Education</td>
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<td>Edu 260† Student Internship I</td>
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<tr>
<td>Edu 140† Educational Methods: K-3</td>
<td>5</td>
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<tr>
<td>Edu 150† Early Childhood Curriculum Dev.</td>
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<tr>
<td>Edu 160† Programs for Infants and Toddlers</td>
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<td>Edu 215† Family Systems</td>
<td>5</td>
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<td>Edu 123† Multi Ethnic Children and Families</td>
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**Electives**

Choose 10 credits from courses listed below:

- World Languages American Sign Language I or any other world language | 5
- Edu Any Education class not taken as a core requirement | 5
- Math/Science Any approved Math or Science course | 5

**Total Credits Required**

93

*The Human Relations requirement is embedded in these courses.

† Classes only offered once a year: Check with Education instructors for schedule.

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**Special Education Option**

### AAAS Degree

**Program Prerequisites**

- Eng 100 (Analytical Reading and Writing) or ESL 100 (Academic ESL) or satisfactory ASSET test score or ESL placement test score for English 101
- Math 070 (Preparation for Algebra) or satisfactory ASSET test score for Math 080 or 099

**General Education Requirements**

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<td>Math 107 Math: A Practical Art</td>
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<td>EnvSc 201 Environmental Science</td>
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**Core Requirements**

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<td>Edu 105 Language &amp; Literacy</td>
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<td>Edu 115† Culturally Relevant Anti-Bias Strategies</td>
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<td>Edu 250† Child Guidance and Classroom Mgmt</td>
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<td>Edu 140† Educational Methods: K-3</td>
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<td>Edu 150† Early Childhood Curriculum Dev.</td>
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<tr>
<td>Edu 160† Programs for Infants and Toddlers</td>
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<td>Edu 215† Family Systems</td>
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<td>Edu 123† Multi Ethnic Children and Families</td>
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**Electives**

Choose 5 credits from courses listed below:

- World Languages American Sign Language I or any other world language | 5
- Edu Any Education class not taken as a core requirement | 5
- Math/Science Any approved Math or Science course | 5

**Total Credits Required**

93

*The Human Relations requirement is embedded in these courses.

**Credits can apply in only one area: either core requirements or elective.

† Classes only offered once a year: Check with Education instructors for schedule.
In-Home Care Provider
The Certificate of Proficiency for In-Home Care Providers prepares graduates for work as a nanny or in-home care provider. Students gain an understanding of human growth and development along with a working knowledge of developmentally appropriate practices and activities. In addition, students learn practical skills such as first aid, safety, healthy food preparation and effective communication. Internships and field placements provide students with an opportunity to integrate classroom learning and gain valuable "hands-on" experience. The program can usually be completed in three or four quarters.

OUTCOMES
Students who successfully complete this program should be able to:
1. Understand the basic and developmental needs of infants, toddlers and preschool children.
2. Plan and prepare developmentally appropriate and culturally sensitive activities for young children.
3. Communicate effectively with parents and children.
4. Understand the principles of healthy nutrition and safe food handling and preparation.
5. Apply knowledge of safety and prevention techniques as well as perform basic first aid.

CERTIFICATE OF PROFICIENCY

PROGRAM PREREQUISITES
Eng 100 (Analytical Reading and Writing) or ESL 100 (Academic ESL) or satisfactory ASSET test score or ESL placement test score for English 101
Math 070 (Preparation for Algebra) or satisfactory ASSET test score for Math 080 or 099

GENERAL EDUCATION REQUIREMENTS/RELATED INSTRUCTION
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PROGRAM REQUIREMENTS
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<th>Title</th>
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<tr>
<td>Edu 150</td>
<td>Early Childhood Curriculum Development</td>
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<tr>
<td>Edu 215*</td>
<td>Family Systems</td>
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<td>NDF 110</td>
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<td>PE 292</td>
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ELECTIVES
Choose 5 credits from the following courses:
<table>
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<th>Course</th>
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<tbody>
<tr>
<td>Edu 105</td>
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<td>Edu 125*</td>
<td>Intro to Special Education</td>
<td>5</td>
</tr>
<tr>
<td>Edu 160</td>
<td>Programs for Infants and Toddlers</td>
<td>5</td>
</tr>
<tr>
<td>Edu 210</td>
<td>Best Practices in Special Education</td>
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<td>Soc 252</td>
<td>Sociology of the Family</td>
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<td>Psych 204</td>
<td>Lifespan Development</td>
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<td>IAStu/</td>
<td>Gender, Violence and Social Change</td>
<td>5</td>
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<tr>
<td>Women 282</td>
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<tr>
<td>IAStu 103</td>
<td>Intro to Multicultural Studies</td>
<td>5</td>
</tr>
</tbody>
</table>

Total Credits Required 48

* The Human Relations requirement is embedded in these courses.
**Child Care Professional**

The Certificate of Proficiency for Child Care Professionals prepares graduates for employment as lead teachers in licensed child care settings. Students learn about the social, emotional and intellectual development of young children as well as specific strategies for encouraging healthy development. Students also learn how to develop group activities, plan curriculum and manage a classroom. Internships provide students with an opportunity to integrate classroom learning and gain valuable "hands-on" experience. In addition, students learn effective strategies for communicating with children and parents as well as ways to integrate computer technology into the classroom. The program can usually be completed in three or four quarters.

**OUTCOMES**

Students who successfully complete this program should be able to:

1. Work positively with young children fostering their development, creativity and self-esteem.
2. Plan group activities and effectively manage a classroom.
3. Work with children developing normally as well as those with special needs in an age appropriate and culturally sensitive way.
4. Effectively communicate with children, parents, colleagues and educational administrators.

---

**CERTIFICATE OF PROFICIENCY**

**PROGRAM PREREQUISITES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng 100 (Analytical Reading and Writing) or ESL 100 (Academic ESL) or satisfactory ASSET test score or ESL placement test score for English 101</td>
<td></td>
</tr>
<tr>
<td>Math 070 (Preparation for Algebra) or satisfactory ASSET test score for Math 080 or 099</td>
<td></td>
</tr>
</tbody>
</table>

**GENERAL EDUCATION REQUIREMENTS** **Cr.**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng 101 Composition and Expository Prose</td>
<td>5</td>
</tr>
<tr>
<td>Math 170** Math for Elem Teachers I – or –</td>
<td></td>
</tr>
<tr>
<td>Math 107 Math: A Practical Art – or –</td>
<td></td>
</tr>
<tr>
<td>IASu 102 Intro to Multicultural Studies – or –</td>
<td></td>
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</tbody>
</table>

**CORE REQUIREMENTS** **Cr.**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edu 100 Intro to Education</td>
<td>5</td>
</tr>
<tr>
<td>Edu 101* Child Growth &amp; Development</td>
<td>5</td>
</tr>
<tr>
<td>Edu 105 Language &amp; Literacy</td>
<td>5</td>
</tr>
<tr>
<td>Edu 125* Intro to Special Education</td>
<td>5</td>
</tr>
<tr>
<td>Edu 140† Educational Methods: K-3 – or –</td>
<td></td>
</tr>
<tr>
<td>Edu 150† Early Childhood Curriculum Dev. – or –</td>
<td></td>
</tr>
<tr>
<td>Edu 160 Infant and Toddler Programs</td>
<td>5</td>
</tr>
<tr>
<td>Edu 250 Child Guidance and Classroom Mgmt.</td>
<td>5</td>
</tr>
<tr>
<td>Edu 260**† Student Internship I</td>
<td>5</td>
</tr>
<tr>
<td>Edu 261**† Student Internship II</td>
<td>5</td>
</tr>
</tbody>
</table>

**ELECTIVES**

Choose 5 credits from any Education course not taken as a requirement.

Total Credits Required 58

* The Human Relations requirement is embedded in these courses.

** Credits can apply in only one area: either core requirements or elective.

† Classes only offered once a year: Check with Education instructors for schedule.
**CAD/Drafting and Design Technology**

Designers and drafters work with engineers and other professionals to translate their ideas into technical drawings which will guide the fabrication of products, the assembly of industrial equipment and the construction of large projects such as buildings, dams and pipelines. Technical drawings prepared by drafters typically show what the finished product or structure will look like from every angle along with detailed specifications on the dimensions, materials and assembly procedures. These drawings are then used to convey the engineer's concepts to the people who will do the actual construction. Computer Aided Design (CAD) systems allow designers to create and revise products in the office or through the Internet. The CAD/Drafting program prepares students to become designers, detailers or technical illustrators in construction, engineering or manufacturing.

**OUTCOMES**

Students who successfully complete this program should be able to:

1. Utilize CAD/Drafting and design skills to prepare drawings that detail specifications and procedures to be used in the construction and manufacturing process.
2. Apply appropriate techniques and procedures for solving basic engineering problems.
3. Use illustration skills to create pictorial drawings for use in manuals, parts books and advertisements.
4. Use calculation skills to determine the precise size of features shown on technical drawings.
5. Understand basic principles of general physics and the science of materials.
6. Apply basic principles of mechanics and mechanical detailing including stress-strain, torsion and precision tolerances.
7. Prepare logical, concise and effective technical reports.

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**AAAS DEGREE**

**PROGRAM PREREQUISITES**

Eng 100 (Analytical Reading and Writing) or ESL 100 (Academic ESL) or satisfactory ASSET test score or ESL placement test score for English 101

Math 070 (Preparation for Algebra) or satisfactory ASSET test score for Math 080 or 099

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Quarter</td>
<td>101</td>
<td>Engineering Graphics</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>159*</td>
<td>Technical Orientation</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>099*</td>
<td>Intermediate Algebra</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>105*</td>
<td>Computer Applications</td>
<td>5</td>
</tr>
</tbody>
</table>

**Winter Quarter**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>103</td>
<td>Descriptive Geometry</td>
<td>5</td>
</tr>
<tr>
<td>200</td>
<td>Introduction to CAD</td>
<td>5</td>
</tr>
<tr>
<td>154</td>
<td>Statics</td>
<td>5</td>
</tr>
<tr>
<td>110</td>
<td>Pre-Calculus I</td>
<td>5</td>
</tr>
</tbody>
</table>

**Spring Quarter**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>255</td>
<td>Strength of Materials</td>
<td>5</td>
</tr>
<tr>
<td>120</td>
<td>Pre-Calculus II</td>
<td>5</td>
</tr>
<tr>
<td>205</td>
<td>Solid Works &amp; Parametric Modeling</td>
<td>3</td>
</tr>
</tbody>
</table>

**Summer Quarter**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>114</td>
<td>General Physics</td>
<td>5</td>
</tr>
</tbody>
</table>

**SOPHOMORE YEAR**

**Fall Quarter**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>201</td>
<td>Advanced CAD</td>
<td>5</td>
</tr>
<tr>
<td>171</td>
<td>Intro to GIS</td>
<td>4</td>
</tr>
<tr>
<td>266</td>
<td>Basic Hydraulics</td>
<td>5</td>
</tr>
</tbody>
</table>

**Winter Quarter**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>163</td>
<td>Properties of Materials</td>
<td>4</td>
</tr>
<tr>
<td>287</td>
<td>Technical Illustration</td>
<td>5</td>
</tr>
<tr>
<td>206</td>
<td>Advanced Solid Works</td>
<td>3</td>
</tr>
</tbody>
</table>

**Spring Quarter**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>289</td>
<td>Mechanical Detailing</td>
<td>5</td>
</tr>
<tr>
<td>102*</td>
<td>Multicultural Issues</td>
<td>3</td>
</tr>
<tr>
<td>292*</td>
<td>First Aid &amp; Safety</td>
<td>3</td>
</tr>
<tr>
<td>101*</td>
<td>Composition and Expository Prose</td>
<td>5</td>
</tr>
</tbody>
</table>

**Total Credits Required** 100

Courses marked with an * are the General Education/Related Instruction requirements for this program.

Other recommended classes: Engr 100, 111, EngrT 171, 172, Math 120, Physics 115 & 116. Tech electives include internship and Engr course approved by advisor.
**ENGINEERING TECHNOLOGY PROGRAM (CONT.)**

(CAD/Drafting and Design Technology, Continued)

### CERTIFICATE OF PROFICIENCY

**PROGRAM PREREQUISITES**

- Eng 100 (Analytical Reading and Writing) or ESL 100 (Academic ESL) or satisfactory ASSET test score or ESL placement test score for English 101
- Math 070 (Preparation for Algebra) or satisfactory ASSET test score for Math 080 or 099

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall Quarter</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engr 101</td>
<td>Engineering Graphics</td>
<td>5</td>
</tr>
<tr>
<td>EngrT 159*</td>
<td>Technical Orientation</td>
<td>5</td>
</tr>
<tr>
<td>CIS 105*</td>
<td>Computer Applications</td>
<td>5</td>
</tr>
<tr>
<td>Math 099*</td>
<td>Intermediate Algebra</td>
<td>5</td>
</tr>
<tr>
<td><strong>Winter Quarter</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engr 205</td>
<td>Solid Works &amp; Parametric Modeling</td>
<td>3</td>
</tr>
<tr>
<td>Engr 200</td>
<td>Intro to CAD</td>
<td>5</td>
</tr>
<tr>
<td>Math 110</td>
<td>Pre-Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>Engr 103</td>
<td>Descriptive Geometry</td>
<td>5</td>
</tr>
<tr>
<td><strong>Spring Quarter</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eng 101*</td>
<td>Composition and Expository Prose</td>
<td>5</td>
</tr>
<tr>
<td>EngrT 287</td>
<td>Technical Illustration</td>
<td>5</td>
</tr>
<tr>
<td>Engr 201</td>
<td>Advanced CAD</td>
<td>5</td>
</tr>
<tr>
<td>EngrT 206</td>
<td>Advanced Solid Works</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits Required**: 55

Other recommended classes: EngT 171, Eng 121, Math 120, Eng 270, Physics 114, 115, 116.

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**Mechanical Engineering Technology**

Mechanical Engineering is a broad engineering discipline focused primarily upon the creation and adaptation of machines, tools, engines, robotics, industrial production, and cooling and heating systems. Engineers apply principles of the physical sciences and mathematics to design mechanical equipment or solve mechanical problems.

The Mechanical Engineering Technology program prepares students for careers in a wide variety of disciplines in the engineering technology field including mechanical testing, production planning or machine design.

Students study mathematical principles and applied mathematics including algebra, geometry, trigonometry and pre-calculus. In addition, students learn about general physics, properties and strength of materials, and engineering technology. The program provides hands-on experience with computer-assisted design software and programming. The curriculum also develops other job-related skills such as business communications, human relations and technical report writing.

**OUTCOMES**

Students who successfully complete this program should be able to:

1. Assist mechanical engineers or contractors by performing entry-level tasks in the field of mechanical engineering technology.
2. Apply basic technical procedures and techniques for solving engineering problems.
3. Apply knowledge of engineering such as static forces including shear stresses, stress-strain relationships, tension and compression.
4. Use graphical methods to visualize and solve engineering problems.
5. Use graphics-based software for computer assisted drafting and design (CAD).

CONTINUED NEXT PAGE
ENGINEERING TECHNOLOGY PROGRAM (CONT.)

AAAS DEGREE
PROGRAM PREREQUISITES
Eng 100 (Analytical Reading and Writing) or ESL 100 [Academic ESL] or satisfactory ASSET test score or ESL placement test score for English 101
Math 070 (Preparation for Algebra) or satisfactory ASSET test score for Math 080 or 099

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Course Code</th>
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<th>Cr.</th>
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</thead>
<tbody>
<tr>
<td>Fall Quarter</td>
<td>Engr 101</td>
<td>Engineering Graphics I</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>EngrT 159</td>
<td>Technical Orientation</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Math 099*</td>
<td>Intermediate Algebra</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>CIS 105*</td>
<td>Computer Applications</td>
<td>5</td>
</tr>
<tr>
<td>Winter Quarter</td>
<td>Engr 103</td>
<td>Applied Descriptive Geometry</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Engr 200</td>
<td>Intro. to CAD</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>EngrT 154</td>
<td>Statics</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Math 110</td>
<td>Pre-Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>Spring Quarter</td>
<td>EngrT 255</td>
<td>Strength of Materials</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Math 120</td>
<td>Pre-Calculus II</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Engr 205</td>
<td>Solid Works and Parametric Modeling</td>
<td>3</td>
</tr>
<tr>
<td>Summer Quarter</td>
<td>Phys 114</td>
<td>General Physics</td>
<td>5</td>
</tr>
</tbody>
</table>

Tech Electives include internship and Engr course approved by advisor. Other recommended classes: Eng 100, 111, EngT 171, 172, Physics 115, 116, Math 120.

SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Quarter</td>
<td>Engr 201</td>
<td>Adv. CAD</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>EngrT 266</td>
<td>Basic Hydraulics</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Engr 206</td>
<td>Advanced Solid Works</td>
<td>3</td>
</tr>
<tr>
<td>Winter Quarter</td>
<td>EngrT 163</td>
<td>Properties of Materials</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>EngrT 287</td>
<td>Technical Illustration</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>— —</td>
<td>Tech elective</td>
<td>3</td>
</tr>
<tr>
<td>Spring Quarter</td>
<td>EngrT 289</td>
<td>Mechanical Detailing</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Eng 101</td>
<td>Composition and Expository Prose</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>IAStu/SpCmu</td>
<td>Multicultural Issues</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PE 292*</td>
<td>First Aid &amp; Personal Safety</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>— —</td>
<td>— Tech elective</td>
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</tr>
<tr>
<td></td>
<td>— —</td>
<td>Total Credits Required</td>
<td>99</td>
</tr>
</tbody>
</table>

Courses marked with an * are the General Education/Related Instruction requirements for this program.

Students interested in transferring to a four-year degree program should be using a different planning sheet. If you are considering transfer to a four-year institution or have questions concerning academic and career planning, please contact the program advisor or the Advising and Counseling Center.
ADMISSION PROCEDURE FOR ALL HEALTH CARE INFORMATION PROGRAMS

Applicants should have a high school diploma or G.E.D. Application for admission to the College must be made through the Admissions Office. To be admitted to any of the Health Care Information Programs (HCI), the following procedures must be followed:

Application Process for Entry into the Medical Coding and Reimbursement Specialist Certificate Program and First Year of the Health Information Technology Program

1. Complete the Shoreline Community College Application Form and send to the Shoreline Admissions Office.
2. Complete the Health Care Information Programs Application Form (form A) and attach the $15 application fee.
3. Complete the Health Care Information Programs Coursework to be Evaluated Form (form B).
4. Send two official transcripts for each college attended prior to entrance into the HCI Program: One sent to Shoreline's Admission Office, and one provided to the HCI Program. For coursework taken at Shoreline Community College, provide a printout of the transcript and printout for the current registration form if currently attending Shoreline.
5. Results of Asset/Compass tests showing placement recommendations for English, Reading and Mathematics (or college course work showing readiness for English 101 and Math 099 or higher). ESL students with limited English proficiency need to attach the results of the ESL assessment showing readiness for English 101.
6. Attend an HCI Informational Session. Please contact the Health Care Information Program for information on prerequisites.

APPLICATION PROCESS FOR SECOND YEAR OF HEALTH INFORMATION TECHNOLOGY PROGRAM

1. During Spring Quarter, first year a meeting will be held with all interested individuals.
2. Application forms for consideration of acceptance into the second year will be provided.
3. Acceptance will be based on written program policies.

PREREQUISITE CLASSES/SKILLS FOR ENTRANCE INTO ALL HCI PROGRAMS

English: Students must have completed English 100 or ESL 100 with a grade of 2.0 or higher, or have placement results on an Asset test indicating readiness for English 101. ESL students with limited English proficiency will be required to complete all levels of the ESL curriculum prior to entry into any HCI program. ESL students not completing all levels of the curriculum must be assessed by the ESL program advisors to determine their readiness for English 101.

Mathematics: Students must have completed Math 80 Elementary Algebra or higher level math with a grade of 2.0 or higher, or have placement results on Asset or Compass tests showing placement at Math 099 Intermediate Algebra or higher.

Computer Applications: Students must be computer literate, at least at the basic level. They must have keyboarding skills at a minimum of 30 words per minute or take BusTc 100. Students must have completed CIS 105 with a grade of 2.0 or higher, or, as an alternate, they must provide evidence of their ability to work in a PC Windows environment, do word processing with MS Word, send and receive e-mails with attachments, and have basic internet skills.
HEALTH INFORMATION TECHNOLOGY
The Health Information Technician is in growing demand as a health information specialist. This professional manages the collection of paper and computer-based patient health records, monitors the accuracy and completeness of the information, analyzes records for quality of care and documentation, abstracts and codes patient information, prepares and interprets statistical clinical data and ensures appropriate access by others to clinical records while protecting the confidentiality of patient information.

Graduates have found jobs in hospitals, long term care facilities, ambulatory care clinics, hospices, home health care agencies, correctional centers, tumor registries, governmental agencies, clinics, and in research.

ACADEMIC REQUIREMENTS
Students in the Health Information Technology Program are required to maintain a final grade of 2.0 in all required courses. When one course is listed as a prerequisite to another course, this means that the student must have completed the prerequisite course with a grade of 2.0 or above before enrolling in the second course. Strong English communication skills are needed throughout the program since this is an essential component of the career. Students must choose a decimal grading system for all courses unless prior permission is received from the HCI Program director.

GRADUATION
All students completing the Health Information Technology program are expected to earn the Associate of Applied Arts and Science Degree. Upon completion, the students are eligible to write the certification examination offered by the American Health Information Management Association.

ACCREDITATION
The Health Information Technology program at Shoreline Community College is accredited by the Commission on Accreditation of Health Informatics and Information Management Education.

COURSE FORMAT
Theory is presented in lectures and web lessons. Laboratory projects reinforce lectures and provide hands-on experiences simulating on-the-job activities. Clinical experiences are provided in which the student is assigned to one or more clinical sites.

CLINICAL ASSIGNMENTS
The first experience at a clinical site is a total of 32 hours and offered in the summer between the first and second years of the program. Students are eligible for placement in HCI 122, Clinical Practicum I, only after formal application for entry into the second year of the HIT program and acceptance by the HCI Program Director. Please refer to the course description and written HCI program policies for additional information. If there are not enough clinical sites available for the number of students requesting assignment, priority placement will be given according to written program policy.

The second-year clinical practicum is a total of 120 hours, normally completed winter term. Students are eligible for placement in HCI 231, Clinical Practicum II, only if HCI 122 has been completed and only if the student has received formal admission into the second year of the Health Information Technology Program. Refer to written program policies regarding eligibility for placement into HCI 231. If there are not enough clinical sites available, priority assignment for Clinical Practicum II will be according to written program policy.

Attendance is required for all assigned hours. Absences must be made up according to written program policy. Prior to placement in practicum sites, students are required to write a résumé, sign the Professional Standards Agreement, have a criminal background check performed, and at their own expense, obtain a a TB test. Some sites may require current immunizations and a physical examination. Students will be assigned, when possible, to sites at their preferred geographic areas. However, due to the volume of students and limited number of sites, it is very probable that students will be required to travel to areas outside their preferred locations. Students are expected to provide their own transportation to and from clinical sites. Additional expenses related to parking or bus travel should be anticipated.

HCI 232, Management Practicum, (spring term, second year) is project-oriented and does not require placement at a specific site. The students will be expected to spend between 9 and 12 hours per week on the management assignment and will be required to work in student groups. Please refer to the course description for eligibility requirements.
FINANCIAL AID
Please see the section on Financial Aid for information pertaining to general loans, grants and waivers. In addition, three sources are available specifically for the health information technology student. Scholarships and loans from the Foundation for Research and Education (F.O.R.E.) are available through the American Health Information Management Association for qualified students. One Sister Peter Olivant Scholarship Award is given yearly to a health information technician student by the Washington State Health Information Management Association. The scholarship is available only to students entering their final year of the program. The Lucy Hay Scholarship is also available from the Seattle Area Health Information Management Association. Further information may be obtained from the program director.

OUTCOMES
Students who successfully complete this program will have a working knowledge of:
1. Medical terminology, anatomy and physiology, human diseases, and pharmacology.
2. Patient clinical record content and health information systems for hospitals, long term care facilities, home health agencies, medical and dental offices, and other outpatient clinics.
3. Health care delivery systems, regulations and political reform.
4. Legal and ethical issues related to health care and release of confidential data. Health Insurance Portability and Accounting Act (HIPAA) requirements for privacy and security of health/billing data.
6. Diagnostic related groups (DRG’s), Resource Based Relative Value Scale (RBRVS); Minimum Data Set (MDS); Intermediate Care Facility and Inpatient Rehabilitation Facility; Patient Assessment Instruments; Home Health Outcome and Assessment Information Set (OAISIS); Ambulatory Payment Classifications (APC’s), components of fee setting, optimizing reimbursement based on insurance specifications, common coding errors and their impact on claims processing.
7. Medicare, Medicaid and private insurance requirements for health care facilities. Billing procedures for facilities using the CMS Form 1500.
10. Supervisory principles for the health information manager.
CERTIFICATIONS
Graduates are eligible to write the certification examination offered by the American Health Information Management Association (AHIMA) to become Registered Health Information Technicians (RHIT). In addition, they are qualified to write the AHIMA Certified Coding Associate (CCA) exam (entry level inpatient coding), the AHIMA Certified Coding Specialist-Physician's Office (CCS-P) exam, and the American Academy of Professional Coders Certified Professional Coding (CPC) exam (physician's office/outpatient coding). After several years of experience, the graduate is eligible for the AHIMA Certified Coding Specialist (CCS) exam, considered testing advanced level inpatient coding practice.

CLINICAL FACILITIES FOR THE HEALTH INFORMATION TECHNOLOGY PROGRAM

Hospitals
Children's Hospital and Medical Center, Seattle
Evergreen Hospital Medical Center, Redmond
Group Health Hospitals, Central and Eastside, Seattle and Redmond
Harborview Medical Center, Seattle
Northwest Hospital, Seattle
Overlake Hospital, Bellevue
Skagit Valley Hospital, Mount Vernon
Stevens Hospital, Edmonds
Swedish Hospital, First Hill Campus, Seattle
Swedish Hospital, Ballard Campus, Seattle
Swedish Hospital, Providence Campus, Seattle
University of Washington Medical Center, Seattle
Veterans Administration Hospital, Seattle
Virginia Mason Medical Center, Seattle
Whidbey General Hospital, Coupeville

Long-Term Care Facilities
Alderwood Nursing and Rehab Center, Edmonds
Columbia Lutheran Home, Seattle
Corwin Center at Emerald Heights, Redmond
Hilltop Health Care, Maple Valley
Ida Culver House, Seattle

Other Non-acute Care Sites
CodeCorrect.Com
Everett Clinic, Seattle
Minimum Security Unit, Monroe
Northwest Eye Surgery Clinic, Seattle and Arlington
Pac Med Clinics, Seattle
Providence Hospice and Home Care, Seattle
Seattle Cancer Care Alliance, Seattle
Special Offenders Unit, Monroe
Summit Cardiology Clinic, Seattle
Twin Rivers Correctional Unit, Monroe
University of Washington Physicians, Seattle
Visiting Nurse Services of the Northwest, Mountlake Terrace
Washington State Reformatory Unit, Monroe

Health Information Technology

AAAS DEGREE

PROGRAM PREREQUISITES
See page 88 for prerequisite information.

PROGRAM REQUIREMENTS
Please note: This curriculum is subject to change. Please contact program advisor for possible revisions.

GENERAL EDUCATION REQUIREMENTS

<table>
<thead>
<tr>
<th>Course</th>
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<th>Cr.</th>
</tr>
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<tbody>
<tr>
<td>Eng 101</td>
<td>Composition and Expository Prose</td>
<td>5</td>
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<tr>
<td>CIS 105</td>
<td>Computer Applications</td>
<td>5</td>
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<tr>
<td></td>
<td>Physical Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Multicultural Education: See Approved List 3-5

OTHER NON-HEALTH INFORMATION TECHNOLOGY REQUIREMENTS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Cr.</th>
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<tbody>
<tr>
<td>BioSci 108</td>
<td>Anatomy &amp; Physiology</td>
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<tr>
<td>BusTc 170</td>
<td>Access 2002</td>
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<tr>
<td>CIS 120</td>
<td>Database Applications and Concepts</td>
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HEALTH INFORMATION TECHNOLOGY REQUIREMENTS

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>HCI 120</td>
<td>Survey of Health Care Delivery</td>
<td>4</td>
</tr>
<tr>
<td>HCI 121</td>
<td>Hospital and Clinic Records</td>
<td>5</td>
</tr>
<tr>
<td>HCI 122</td>
<td>Clinical Practice I</td>
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<tr>
<td>HCI 132</td>
<td>Medical Terminology</td>
<td>5</td>
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<tr>
<td>HCI 154</td>
<td>Medical Reimbursement Systems</td>
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</tr>
<tr>
<td>HCI 210</td>
<td>Legal Aspects of Health Care</td>
<td>4</td>
</tr>
<tr>
<td>HCI 214</td>
<td>Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>HCI 215</td>
<td>Human Diseases</td>
<td>5</td>
</tr>
<tr>
<td>HCI 220</td>
<td>Quality Improvement in Health Care</td>
<td>3</td>
</tr>
<tr>
<td>HCI 221</td>
<td>Basic ICD-9-CM Coding</td>
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<tr>
<td>HCI 222</td>
<td>Intermediate Medical Coding</td>
<td>5</td>
</tr>
<tr>
<td>HCI 223</td>
<td>Statistics in Health Care</td>
<td>4</td>
</tr>
<tr>
<td>HCl 224*</td>
<td>Management for Health Info Supervisors</td>
<td>5</td>
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<tr>
<td>HCI 225</td>
<td>Computers in Health Care</td>
<td>3</td>
</tr>
<tr>
<td>HCI 226</td>
<td>Alternate Care Records</td>
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</tr>
<tr>
<td>HCI 227</td>
<td>CPT Coding</td>
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</tr>
<tr>
<td>HCI 228</td>
<td>Medical Coding Practicum</td>
<td>2</td>
</tr>
<tr>
<td>HCI 231</td>
<td>Clinical Practice II</td>
<td>4</td>
</tr>
<tr>
<td>HCI 232</td>
<td>Management Practicum</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credits Required 100-102

*Satisfies Human Relations general education requirement
Certificates of Proficiency

Health Information Technology
Refer to pages 90-91 under AAAS Degree in Health Information Technology for a career description, requirements, outcomes, certifications and clinical facilities.

**CERTIFICATE OF PROFICIENCY**

**PROGRAM PREREQUISITES:**
See page 88 for prerequisite information.

**REQUIRED COURSES**

*The following required courses in the regular HIT program do not need to be re-taken if student has had the same or similar course from Shoreline or another recognized college or university within the past 5 years:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCI 132</td>
<td>Medical Terminology</td>
<td>5</td>
</tr>
<tr>
<td>BioSci 108</td>
<td>Anatomy and Physiology</td>
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</tr>
<tr>
<td>CIS 105</td>
<td>Computer Applications</td>
<td>5</td>
</tr>
<tr>
<td>CIS 120</td>
<td>Database Principles – or – BusTc 170 MS Access</td>
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</tr>
<tr>
<td>HCI 214</td>
<td>Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>HCI 215</td>
<td>Human Diseases</td>
<td>5</td>
</tr>
</tbody>
</table>

*The following required courses must be taken at Shoreline unless the same or similar classes were taken at an AHIMA accredited HIT educational program elsewhere within the past five years:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCI 120</td>
<td>Survey of Health Care Delivery</td>
<td>4</td>
</tr>
<tr>
<td>HCI 121</td>
<td>Hospital and Clinic Records</td>
<td>5</td>
</tr>
<tr>
<td>HCI 122</td>
<td>Clinical Practice I</td>
<td>1</td>
</tr>
<tr>
<td>HCI 154</td>
<td>Medical Reimbursement I</td>
<td>5</td>
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<tr>
<td>HCI 210</td>
<td>Legal Aspects of Health Care</td>
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<tr>
<td>HCI 220</td>
<td>Quality Improvement in Health Care</td>
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</tr>
<tr>
<td>HCI 221</td>
<td>Basic ICD-9-CM Coding</td>
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<tr>
<td>HCI 222</td>
<td>Intermediate Medical Coding</td>
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<tr>
<td>HCI 223</td>
<td>Statistics in Health Care</td>
<td>4</td>
</tr>
<tr>
<td>HCI 224</td>
<td>Management for Health Info Supervisors</td>
<td>5</td>
</tr>
<tr>
<td>HCI 225</td>
<td>Computers in Health Care</td>
<td>3</td>
</tr>
<tr>
<td>HCI 226</td>
<td>Alternate Care Records</td>
<td>3</td>
</tr>
<tr>
<td>HCI 227</td>
<td>CPT Coding</td>
<td>4</td>
</tr>
<tr>
<td>HCI 228</td>
<td>Medical Coding Practicum</td>
<td>2</td>
</tr>
<tr>
<td>HCI 231</td>
<td>Clinical Practice II</td>
<td>4</td>
</tr>
<tr>
<td>HCI 232</td>
<td>Management Practicum</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Credits Required** 89

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**Medical Coding and Reimbursement Specialist**

The medical coding and reimbursement specialist reads and interprets the medical records of patients in all types of health care facilities to obtain detailed information regarding their diseases, injuries, surgical operations and other procedures. This specialist then assigns codes using ICD-9-CM (International Classification of Diseases – 9th Revision – Clinical Modification) and CPT (Current Procedural Terminology). Some specialists also code CDT (Current Dental Terminology) when working in dental offices. They handle all components of claims processing including management of disputed, rejected and delayed claims.

**OUTCOMES**

Students who successfully complete this program should be able to:

1. Read and interpret medical records of patients.
2. Accurately assign diagnostic and procedural codes according to ICD-9-CM, CPT, and CDT coding systems using federal coding compliance guidelines.
3. Complete and electronically transmit insurance, CMS 1500 and UB 04 Medicare/Medicaid claim forms.
4. Apply regulations for the release of confidential data, following HIPAA privacy requirements.
5. Use manual and computerized encoders and groupers systems to determine Diagnostic Related Groups (DRGs), Resource Based Relative Value Scale (RBRVS), and Ambulatory Payment Classification (APCs).
6. Use personal computer software programs, as well as manual and automated accounting systems.

**CERTIFICATIONS**

Graduates are eligible to write the American Health Information Management Association’s (AHIMA) Certified Coding Specialist – Physician’s Office (CCS-P) examination or the entry level Certified Coding Associate (CCA) for hospital inpatient coding. They are also eligible to write the American Academy of Professional Coders Certified Professional Coding (CPC) examination. The AHIMA mastery-level Certified Coding Specialist (CCS) examination is also available.
## Certificate of Proficiency

**Program Prerequisites:**
See page 88 for prerequisite information.

### General Education Requirements (Cr.)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng 101</td>
<td>Composition and Expository Prose</td>
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<td>CIS 105</td>
<td>Computer Applications</td>
<td>5</td>
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<tr>
<td>BusAd 112</td>
<td>Essentials of Human Relations (2)</td>
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<tr>
<td>BusAd 110</td>
<td>Human Relations (5)</td>
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</tr>
<tr>
<td>HCI 224</td>
<td>Management for Health Info Superv.</td>
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### Other Medical Coding Specialist Program Requirements (Cr.)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BioSci 108</td>
<td>Anatomy &amp; Physiology</td>
<td>5</td>
</tr>
<tr>
<td>Acctg 101</td>
<td>Accounting Principles</td>
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</table>

### Medical Coding Specialist Program Requirements (Cr.)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCI 120</td>
<td>Survey of Health Care Delivery</td>
<td>4</td>
</tr>
<tr>
<td>HCI 121</td>
<td>Hospital and Clinic Records</td>
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</tr>
<tr>
<td>HCI 132</td>
<td>Medical Terminology</td>
<td>5</td>
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<tr>
<td>HCI 154</td>
<td>Medical Reimbursement</td>
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<td>HCI 210</td>
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</tr>
<tr>
<td>HCI 227</td>
<td>CPT Coding</td>
<td>4</td>
</tr>
</tbody>
</table>

*Total Credits Required: 70-73*
DESCRIPTION
The CNC Manufacturing offerings at Shoreline Community College were designed by a Skill Panel representing manufacturing firms from the Puget Sound region. Each program has been customized to accommodate individual training needs depending on student goals and previous experience. The CNC Manufacturing programs were created for entry level students with little or no experience, also for incumbent workers with several years of experience looking to upgrade their skills. Students can also choose from a degree program for students looking to transfer to 4 year schools.

Certificates of Completion
Certificate in Basic Manufacturing
The CBM has two specific objectives for students that desire to enter the manufacturing work environment. The CBM can serve as a stand alone training tool preparing students for immediate entry into the workforce at the entry level. The CBM also serves as the prerequisite for entering into any of the manufacturing programs at Shoreline Community College. Students have the ability to challenge part or all of the courses within the CBM through a process of testing or by documenting evidence of prior experience.

The Certificate in Basic Manufacturing is an 18-21 credit, one-quarter course of study that provides students with entry-level manufacturing skills and a foundation to pursue other certificates and two-year degrees in other manufacturing specialty areas. The Certificate in Basic Manufacturing builds on the nine Learning Outcomes. Each Learning Outcome also represents an important component of the manufacturing industry, as identified by Washington State employers.

OUTCOMES
Students who successfully complete this program will have acquired the foundational skills, knowledge and abilities necessary to:
1. Work effectively in a manufacturing environment.
2. Use systems to support the manufacturing business to meet the needs of internal and external customers.
3. Participate and contribute to the effectiveness of teams.
4. Introduction to Statistical Process Control (SPC).
5. Use fundamental skills in (writing, reading, math, speaking, listening and computing) to meet the needs of the workplace.
6. Gather, interpret and use data consistently and accurately to make decisions and take action.
7. Contribute to the maintenance of a safe and healthy work environment.
8. Blueprint reading
9. Demonstrate basic and precision measurement methods.
CNC Specialist
This is an intensive program designed to prepare qualified individuals for entry into the job market as a CNC Specialist (Computer Numerical Control). Instruction covers advanced set up and operation of CNC machines, inspection, surface plate techniques, and Statistical Process Control (SPC). Specialist courses include Computer Aided Manufacturing (CAM), Computer Numerical Control Programming (CNC), and Rapid Prototyping. Students will be involved in the production and machining of industry parts. Instruction will also include the use and care of a wide variety of measuring devices used in the machining profession.

OUTCOMES
Students who successfully complete this program will have acquired the foundational skills, knowledge and abilities necessary to:

1. Program, Set-up and operate CNC machine tools utilizing advanced techniques.
2. Work effectively in a manufacturing environment.
3. Participate and contribute to the effectiveness of teams.
4. Apply technology to operate and contribute to business and manufacturing systems.
5. Gather, interpret and use data consistently and accurately to make decisions and take action.
6. Contribute to the maintenance of a safe and healthy work environment.
Certificates of Proficiency

CNC Machinist

This is an intensive program designed to prepare qualified individuals for entry into the job market as a CNC (Computer Numerical Control) Machinist. Instruction covers programming and basic set up and operation of CNC machines, blueprint reading, shop mathematics, machine tool theory, inspection, surface plate techniques, and Statistical Process Control (SPC). Students will be involved in the production and machining of industry parts. Instruction will also include the use and care of a wide variety of measuring devices used in the machining profession.

OUTCOMES

Students who successfully complete this program will be able to:

1. Perform entry-level tasks as a CNC machinist.
2. Use mathematics skills to solve basic manufacturing problems.
3. Program basic CNC machine tools to perform routine machining functions.
4. Safely set-up CNC Mills and Turning tools making tool length and work piece offsets.
5. Applying teamwork, inspection and SPC to manufacturing problems.
6. Utilizing properties of materials, establishing correct speeds and feeds.
7. Interpreting mechanical blueprints.
8. Use current software for computer assisted machining.

CNC Technician

This is an intensive program designed to prepare qualified individuals for entry into the job market as a CNC Technician (Computer Numerical Control). Instruction covers basic set up and operation of CNC machines, blueprint reading, shop mathematics, machine tool theory, inspection, surface plate techniques, and Statistical Process Control (SPC). Specialist courses include Computer Aided Manufacturing (CAM), Computer Numerical Control Programming (CNC), and Rapid Prototyping. Students will be involved in the production and machining of industry parts. Instruction will also include the use and care of a wide variety of measuring devices used in the machining profession.

OUTCOMES

Students who successfully complete this program will be able to:

1. Perform entry-level tasks as a CNC machinist.
2. Use mathematics skills to solve basic manufacturing problems.
3. Program basic CNC machine tools to perform routine machining functions.
4. Safely set-up CNC Mills and Turning tools making tool length and work piece offsets.
5. Apply teamwork, inspection and SPC to manufacturing problems.
6. Utilize properties of materials, establishing correct speeds and feeds.
7. Interpret mechanical blueprints.
8. Use current software for computer assisted machining.

Certificate of Proficiency

PROGRAM PREREQUISITES:

Certificate of Basic Manufacturing (see page 94 for information regarding the CBM)

PROGRAM REQUIREMENTS

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>MFGT 115</td>
<td>CNC Fundamentals</td>
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<tr>
<td>MFGT 120</td>
<td>CNC Applications</td>
</tr>
<tr>
<td>Total Credits Required</td>
<td>46-49</td>
</tr>
</tbody>
</table>
AAAS Degrees

CNC Technology
This is an intensive program designed to prepare qualified individuals for entry into the job market as a CNC Technician (Computer Numerical Control). Instruction covers basic setup and operation of CNC machines, blueprint reading, shop mathematics, machine tool theory, inspection, surface plate techniques, and Statistical Process Control (SPC). Specialist courses include Computer Aided Manufacturing (CAM), Computer Numerical Control Programming (CNC), and Rapid Prototyping. Students will be involved in the production and machining of industry parts. Instruction will also include the use and care of a wide variety of measuring devices used in the machining profession.

OUTCOMES
Students who successfully complete this program will be able to:
1. Perform entry-level tasks as a CNC machinist.
2. Use mathematics skills to solve basic manufacturing problems.
3. Program basic CNC machine tools to perform routine machining functions.
4. Safely set up CNC Mills and Turning tools making tool length and work piece offsets.
5. Apply teamwork, inspection and SPC to manufacturing problems.
6. Utilize properties of materials, establishing correct speeds and feeds.
7. Interpret mechanical blueprints.
8. Use current software for computer assisted machining.

<table>
<thead>
<tr>
<th>AAAS DEGREE</th>
<th>PROGRAM PREREQUISITES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certificate of Basic Manufacturing (see page 94 for information regarding the CBM)</td>
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</tbody>
</table>

FIRST YEAR

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>First Quarter</td>
<td>Certificate in Basic Manufacturing</td>
<td>18-21</td>
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<tr>
<td>Second Quarter</td>
<td>MFGT 115</td>
<td>CNC Fundamentals</td>
<td>14</td>
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<tr>
<td>Third Quarter</td>
<td>MFGT 120</td>
<td>CNC Applications</td>
<td>14</td>
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SECOND YEAR

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Course Code</th>
<th>Course Name</th>
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<td>MFGT 176</td>
<td>CNC Internship</td>
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<td>MATH 110</td>
<td>PreCalculus*</td>
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<td>BusTc 252*</td>
<td>Professional Communications</td>
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<td>ENG 101*</td>
<td>Composition and Expository Prose</td>
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</tr>
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<td>Fifth Quarter</td>
<td>MFGT 220</td>
<td>CAM Computer Aided Manufacturing</td>
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<td>MFGT 225</td>
<td>Rapid Prototyping</td>
<td>3</td>
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<td></td>
<td>Human Relations* (See approved list)</td>
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<td>Multicultural Education* (See approved list)</td>
<td>3-5</td>
<td></td>
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<tr>
<td>Sixth Quarter</td>
<td>MFGT 215</td>
<td>CNC Programming</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>MFGT 276</td>
<td>CNC Internship</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>PE 292*</td>
<td>First Aid &amp; Safety</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits Required 98-105

Courses marked with an * are the General Education/Related Instruction requirements for this program.
Manufacturing Engineering

Manufacturing Engineering Technology is an especially exciting field today. Foreign competition and new technological advancements have combined to create a demand for highly trained individuals in the manufacturing environment. The use of new technologies like computer-integrated manufacturing (CIM), flexible manufacturing, robotics and lasers will continue to create a stimulating and rewarding environment. The MET Program at Shoreline transfers directly to Western Washington University and was created in response to this need for a competent, well-trained work force in the state.

This program is Associate of Applied Science-Technology (AAS-T) degree eligible. The AAS-T degree indicator, which will appear on your transcript, will enable students to transfer this degree directly to some four-year institutions. Please check with your program advisor for more specific information.

OUTCOMES

Students who successfully complete this program should be able to:
1. Perform entry-level tasks as a manufacturing engineer.
2. Use mathematics skills to solve basic engineering problems.
3. Program basic CNC machine tools to perform routine machining functions.
4. Apply knowledge of physics, properties of materials, labor and management, teamwork, inspection and SPC to manufacturing problems.
5. Use current software for computer assisted drafting.

AAAS DEGREE

PROGRAM PREREQUISITES:
Eng 100 (Analytical Reading and Writing) or ESL 100 (Academic ESL) or satisfactory ASSET test score or ESL placement test score for English 101
Math 070 (Preparation for Algebra) or satisfactory ASSET test score for Math 080 or 099

FRESHMAN YEAR

<table>
<thead>
<tr>
<th></th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
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<tr>
<td>Math 120</td>
<td>Pre-Calculus II</td>
</tr>
<tr>
<td>Indus 102</td>
<td>Machine Tool Fundamentals</td>
</tr>
<tr>
<td>Engr 100</td>
<td>Intro to Engineering and Design</td>
</tr>
<tr>
<td>Engr 101</td>
<td>Engineering Graphics</td>
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<tr>
<td>Winter</td>
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</tr>
<tr>
<td>Chem 101</td>
<td>Basic General Chemistry</td>
</tr>
<tr>
<td>Indus 103</td>
<td>CNC &amp; CAM Programming</td>
</tr>
<tr>
<td>Math 124*</td>
<td>Calculus (first quarter)</td>
</tr>
<tr>
<td>Spring</td>
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<tr>
<td>Eng 101</td>
<td>Composition &amp; Expository Prose</td>
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<tr>
<td>Eng 270</td>
<td>Technical Report Writing</td>
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<tr>
<td>Engr 102</td>
<td>Engineering Graphics</td>
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<tr>
<td>Math 125</td>
<td>Calculus (second quarter)</td>
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</table>

SOPHOMORE YEAR

<table>
<thead>
<tr>
<th></th>
<th>Cr.</th>
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<tbody>
<tr>
<td>Fall</td>
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<tr>
<td>Engr 200</td>
<td>Intro to CAD</td>
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<tr>
<td>Phys 114</td>
<td>General Physics</td>
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<tr>
<td>Econ 200</td>
<td>Principles of Microeconomics</td>
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<td>Multicultural Education: See approved list</td>
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<tr>
<td>Winter</td>
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<tr>
<td>EngrT 154</td>
<td>Statics</td>
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<td>Phys 115</td>
<td>General Physics</td>
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<td>EngrT 163</td>
<td>Properties of Materials</td>
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<td>Compu 131</td>
<td>Intro to Programming</td>
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<td>Using Visual BASIC</td>
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<td>Spring</td>
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<tr>
<td>Phys 116</td>
<td>General Physics</td>
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<tr>
<td>EngrT 255</td>
<td>Strength of Materials</td>
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<tr>
<td>Human Relations: See approved list</td>
<td>2-5</td>
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<tr>
<td>PE 292</td>
<td>First Aid &amp; Personal Safety</td>
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<td></td>
</tr>
<tr>
<td>Total Credits Required</td>
<td>102-107</td>
</tr>
</tbody>
</table>
DESCRIPTION
This course of studies is designed to prepare the graduate to work as a member of a clinical laboratory staff. As part of a clinical lab team, graduates will perform scientific laboratory testing to aid in the detection, diagnosis and treatment of disease. The program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences.

Often graduates will seek career opportunities in clinical, research reference laboratory or veterinary labs.

Students obtain a background in the basic sciences and an understanding of medical laboratory procedures. The first year of the program is spent in classrooms and in college campus laboratories. The second year is spent on campus in lectures and student laboratories and in participating clinical laboratories under the combined direction of hospital and college personnel. This year covers four quarters.

Upon completion of the second year of the program with a GPA of 2.0 or better, the student is awarded an Associate in Applied Arts and Sciences Degree in Medical Laboratory Technology and is eligible to write national examinations for Medical Laboratory Technicians and Clinical Laboratory technicians. The Medical Laboratory Technician (MLT) student may go through graduation exercises in June and will receive a degree upon completion of the year of clinical training at the end of Summer Quarter.

ACADEMIC REQUIREMENTS
Students planning to pursue a MLT career should meet the following academic requirements:

1. All entering freshmen must comply with established college entrance testing.
2. It is expected that college level credit earned in areas of the physical sciences will have been completed within the past ten years. Exceptions may be made on an individual basis.
3. Certificate of Proficiency pathway is open to students with an associate degree or higher. Science prerequisites must be met. General Education requirements can be waived; core requirements must be met.

SELECTION INTO THE SECOND YEAR OF THE MLT PROGRAM
Selection to the second year of the program is based on successful completion of the academic requirements of the first year and an evaluation of certain personal attributes. Positions may be limited by the number of clinical spaces.

In order to be considered for the second year of the program, students must have completed the first year academic requirements with a grade point average of at least 2.5. These academic requirements include:

2. Chem 101 and 220
3. MLT 197
4. Quantitative Reasoning (CIS 105 or approved alternate)
5. Eng 101
6. PE 292 or three credits of Physical Education and possession of current Red Cross First Aid & Adult CPR cards
7. IAStu 102/SpCmu 102 Multicultural Issues
8. BusAd 110 or BusAd 112

Students entering the MLT program will be expected to enroll in and satisfactorily complete MLT 197 in Spring Quarter before beginning the second year of study.

In the event that more students finish first year academic requirements than there are available clinical spaces, a selection committee will meet with candidates to consider the following factors:

1. Courses taken and grades received.
2. Ability to communicate.
4. Sound physical and mental health.*

*Following acceptance into the program, each individual will be required to submit a health assessment report completed at the student’s expense. Should this report reveal health problems which would interfere with successful completion of the program, admission may be reviewed or revoked by an ad hoc MLT committee. Situations that might disqualify a student could include such things as history of serious emotional problems, incapacitating disease or condition, and/or visual impairment.

All students accepted into the 2nd year Medical Laboratory Technology program will be required to purchase malpractice insurance from the College any quarter they are in a clinical practicum rotation.
OUTCOMES
Students who successfully complete this program should be able to:
1. Seek employment in a clinical laboratory setting performing routine laboratory procedures in each department with accuracy and precision.
2. Recognize normal and abnormal test results and take necessary action with critical values.
3. Perform and interpret basic quality control procedures.
4. Operate and maintain basic laboratory equipment.
5. Recognize and adhere to safety policies.
6. Demonstrate sound work ethics in interactions with patients, co-workers, and other personnel.

ACCREDITATION
National Accrediting Agency for Clinical Laboratory Science (NAACLS)
8410 W. Bryn Mawr Ave., Suite 670
Chicago, IL 60631-3415 • (773) 714-8880
Medical Director: Richard Patton, M.D.
Northwest Hospital, Seattle

AAAS DEGREE
PROGRAM REQUIREMENTS
FRESHMAN YEAR
General Education Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng 101</td>
<td>Composition and Expository Prose</td>
<td>5</td>
</tr>
<tr>
<td>CIS 105</td>
<td>Computer Applications</td>
<td>5</td>
</tr>
<tr>
<td>IAStu/SpCmu 102</td>
<td>Multicultural Issues: — or — approved alternate</td>
<td>3-5</td>
</tr>
<tr>
<td>BusAd 110</td>
<td>Human Relations — or — Approved Alternate</td>
<td>2-5</td>
</tr>
<tr>
<td>PE 292</td>
<td>First Aid &amp; Personal Safety</td>
<td>3</td>
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</tbody>
</table>

Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>BioSc 201</td>
<td>Principles of Biology</td>
</tr>
<tr>
<td>BioSc 108</td>
<td>Anatomy &amp; Physiology</td>
</tr>
<tr>
<td>BioSc 215</td>
<td>Microbiology</td>
</tr>
<tr>
<td>Chem 101</td>
<td>General Chemistry</td>
</tr>
<tr>
<td>Chem 220</td>
<td>Basic Organic Chemistry</td>
</tr>
</tbody>
</table>

Selection to the professional year of the MLT Program is based on successful completion of the academic requirements of the first year and certain personal attributes. Students must have completed the first year academic requirements with a grade point average of at least 2.5 and may participate in an interview to assess courses, grades, ability to communicate, motivation, sound physical and mental health. Students accepted into the program must submit to a health assessment with their physician at their own expense and must also submit to a criminal background check. Positions may be limited by the number of clinical spaces.

Spring Before Professional Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLT 197</td>
<td>Intro: Medical Lab Procedures</td>
</tr>
<tr>
<td>MLT 224</td>
<td>Parasitology and Mycology Lecture</td>
</tr>
<tr>
<td>MLT 225</td>
<td>Parasitology and Mycology Lab</td>
</tr>
</tbody>
</table>

PROFESSIONAL YEAR*

Fall Quarter

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLT 220</td>
<td>Hematology Lecture</td>
<td>6</td>
</tr>
<tr>
<td>MLT 221</td>
<td>Hematology Lab</td>
<td>3</td>
</tr>
<tr>
<td>MLT 222</td>
<td>Immunology Lecture</td>
<td>3</td>
</tr>
<tr>
<td>MLT 223</td>
<td>Immunology Lab</td>
<td>2</td>
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</tbody>
</table>

Winter Quarter

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLT 226</td>
<td>Clinical Chemistry Lecture</td>
<td>6</td>
</tr>
<tr>
<td>MLT 227</td>
<td>Clinical Chemistry Lab</td>
<td>3</td>
</tr>
<tr>
<td>MLT 228</td>
<td>Microbiology Lecture</td>
<td>5</td>
</tr>
<tr>
<td>MLT 229</td>
<td>Microbiology Lab</td>
<td>3</td>
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</table>

Spring Quarter

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLT 230</td>
<td>Hematology Practicum</td>
</tr>
<tr>
<td>MLT 231</td>
<td>Chemistry Practicum</td>
</tr>
<tr>
<td>MLT 232</td>
<td>Microbiology Practicum</td>
</tr>
</tbody>
</table>

Summer Quarter

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLT 233</td>
<td>Integrated Immunohematology (Combined Lecture &amp; Lab)</td>
</tr>
</tbody>
</table>

Total Credits Required: 112-117

*MLT 215 Phlebotomy Practicum is required for students with no phlebotomy experience. This class is completed during the professional year.

Clinical Facilities Used: MLT and Phlebotomy classes

- Dynacare NW Inc., Skagit, Kitsap
- The Everett Clinic
- Group Health Cooperative of Puget Sound
- Minor and James Medical Clinic
- Northwest Clinical Laboratory
- Puget Sound Blood Center
- Stevens Memorial Hospital
- Valley Medical Center
- Veterans Puget Sound Health Care System
- Virginia Mason Medical Center
- Whidbey General Hospital
Certificate of Proficiency

Medical Laboratory Technology

Medical Laboratory personnel examine, analyze and test clinical specimens such as cells, blood and other body fluids to aid in the detection, diagnosis and treatment of disease. Graduates of this program will be prepared to perform laboratory tasks assigned by the medical technologist, the pathologist or the physician. These tasks typically include the preparation of specimens, operation of automatic analyzers and performance of routine laboratory tests. The curriculum provides students with a foundation in the general sciences including biology, microbiology, general chemistry, organic and biochemistry, human anatomy and physiology. Students must complete these basic program and general education requirements prior to entering the second year of the program. During the second year students focus on all aspects of the medical laboratory technology curriculum. Students attend classroom lectures and gain “hands-on” experience working in on-campus student laboratories. Laboratory practicums are completed in professional medical and hospital laboratories. After successful completion of the program, graduates are eligible to take national certification examinations for Medical Laboratory Technician (MLT) or Clinical Laboratory Technician (CLT).

OUTCOMES

Students who successfully complete this program should be able to:
1. Seek employment in a clinical laboratory setting performing routine laboratory procedures in each department with accuracy and precision.
2. Recognize normal and abnormal test results and take necessary action with critical values.
3. Perform and interpret basic quality control procedures.
4. Operate and maintain basic laboratory equipment.
5. Recognize and adhere to safety policies.
6. Demonstrate sound work ethics in interactions with patients, co-workers, and other personnel.
Certificate of Completion
Phlebotomy

Students learn the essentials of drawing blood, the role of the phlebotomist, safety and infection control, blood collection equipment, specimen processing, simple “waived testing,” and practice with equipment on classmates. Upon successful completion of didactic and student lab practice, students can register for a practicum work experience.

OUTCOMES
Students will be prepared to work in this field after one to two quarters.

**CERTIFICATE OF COMPLETION**

**PROGRAM REQUIREMENTS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLT 214</td>
<td>Essentials of Phlebotomy</td>
<td>3</td>
</tr>
<tr>
<td>MLT 215</td>
<td>Phlebotomy Practicum*</td>
<td>2</td>
</tr>
<tr>
<td>MLT 216</td>
<td>AIDS &amp; HIV Education for Healthcare Workers</td>
<td>1</td>
</tr>
</tbody>
</table>

*To participate in MLT 215, Phlebotomy Practicum, students must:
1. Complete MLT 214 with a grade of 2.0 or better.
2. Show proof of health insurance to Shoreline Community College faculty arranging the off-campus practicum training in a healthcare facility.
3. Pay an additional $5.50 Washington State liability fee which is included with the 2-credit tuition.

**ADDITIONAL CLASSES**

Additional Classes to enhance a student’s background might include:

**Terminology or Anatomy and Physiology**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCI 132</td>
<td>Medical Terminology (5)</td>
<td>5</td>
</tr>
<tr>
<td>HCI 135</td>
<td>Intro to Medical Terminology (3)</td>
<td>3-5</td>
</tr>
<tr>
<td>BIOSC 108</td>
<td>Intro to Human Anatomy and Physiology</td>
<td>5</td>
</tr>
</tbody>
</table>

**Computer classes**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BusTc 105</td>
<td>Beginning Keyboarding</td>
<td>5</td>
</tr>
<tr>
<td>CIS 105</td>
<td>Computer Applications</td>
<td>5</td>
</tr>
<tr>
<td>CIS 102</td>
<td>Computer Preparation</td>
<td>2</td>
</tr>
</tbody>
</table>

**Computer classes**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BusAd 112</td>
<td>Essentials of Human Relations</td>
<td>2</td>
</tr>
</tbody>
</table>
DESCRIPTION
The Music Technology program at Shoreline Community College is designed to familiarize the student who is interested in music merchandising, audio engineering, Musical Instrument Digital Interface (MIDI) composition/production, and performance practice with the current trends of the profession.

**Digital Audio Engineering Option**
The Music Technology: Digital Audio Engineering program option prepares students for careers in linear and non-linear digital applications. Audio engineers use hardware and software to record, store, and edit musical and non-musical sounds. The development of multimedia and the Internet have created a variety of occupations built around the development and use of platform-specific tools for linear and non-linear digital audio production. The program provides students with an overview of music theory, performance, audio recording, digital and analog audio technology, Internet and multimedia applications. Graduates are prepared for entry-level positions in CD and DVD audio production, radio and television broadcast production, and audio for video post-production and sound design.

OUTCOMES
Students who successfully complete this program should be able to:
1. Create audio recordings and provide mastering of material for distribution.
2. Create radio commercials as well as educational and instructional industrial products.
3. Create enhanced and new audio for existing video and film transfers.
4. Explain and apply Musical Instrument Digital Interface (MIDI) technology and digital audio technology.
5. Identify current production values, trends and industry standards affecting production today.
6. Relate to others and communicate effectively in the workplace.
7. Demonstrate basic music theory including ear training, sight reading, and keyboard proficiency.
8. Use basic business computer software applications.
MIDI Music Production Option

The Music Technology MIDI Music Production program option is designed to prepare students for a career in music studio production and related occupations. This program provides students with a broad base of knowledge in Musical Instrument Digital Interface Technology (MIDI) including MIDI music production, sequencing, synthesis and sampling. Students develop "hands-on" skills in modern MIDI technology. They learn how to use MIDI as a tool to manipulate sound and create music. The program also includes an overview of the principles of music theory, audio recording and music arranging. Graduates are prepared for entry-level positions in radio, television, advertising and audio recording studios as well as churches, synagogues and other environments where MIDI technology is used.

OUTCOMES

Students who successfully complete this program should be able to:

1. Use and program MIDI equipment to sample, sequence, synthesize and produce audio recordings.
2. Explain and apply fundamentals of music theory in the creation, evaluation and interpretation of musical compositions.
3. Apply basic principles of audio production, amplification and recording, and MIDI implementation.
4. Safely and appropriately use and maintain electronic audio equipment.
5. Relate to others and communicate effectively in the workplace.
6. Use basic business computer software applications.

Courses marked with an * are the General Education/Related Instruction requirements for this program.

**Music 201, 202, 203 may be substituted for MusTc 215, 216, 217.
**AAAS DEGREE**

**PROGRAM PREREQUISITES:**

Students without secure knowledge of music fundamentals and keyboard ability should take Music 100 & 120 before taking Music 101. Students completing ANY A.A.A.S. Degree in Music Technology are required to maintain a final grade of 2.0 in each music theory course and each digital audio course in order to progress to the next class.

**PROGRAM REQUIREMENTS**

**Core Curriculum & General Education Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng 101* Composition and Expository Prose</td>
<td>5</td>
</tr>
<tr>
<td>CIS 105* Computer Applications</td>
<td>5</td>
</tr>
<tr>
<td>SpCmu 100 Communication in a Diverse Workplace</td>
<td>3</td>
</tr>
<tr>
<td>BusAd 112 Essentials of Human Relations</td>
<td>2</td>
</tr>
<tr>
<td>PE 292 First Aid &amp; Personal Safety</td>
<td>3</td>
</tr>
<tr>
<td>VCT 124 Basic Macintosh Systems Operation</td>
<td>2</td>
</tr>
</tbody>
</table>

**Music Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MusTc 100 Vocational Seminar</td>
<td>2</td>
</tr>
<tr>
<td>Music 101 First-Year Music Theory</td>
<td>5</td>
</tr>
<tr>
<td>Music 102 First-Year Music Theory</td>
<td>5</td>
</tr>
<tr>
<td>Music 103 First-Year Music Theory</td>
<td>5</td>
</tr>
<tr>
<td>MusTc 104 Music Recording/Publ.</td>
<td>2</td>
</tr>
<tr>
<td>MusTc 105 Rights/Meth. Multimedia</td>
<td>2</td>
</tr>
<tr>
<td>Music 121 Class Piano for Music 101 Students</td>
<td>2</td>
</tr>
<tr>
<td>Music 207 The Craft of Songwriting</td>
<td>2</td>
</tr>
<tr>
<td>MusTc 215** Pop &amp; Comm. Theory I</td>
<td>4</td>
</tr>
<tr>
<td>MusTc 216** Pop &amp; Comm. Theory II</td>
<td>4</td>
</tr>
<tr>
<td>MusTc 217** Pop &amp; Comm. Theory III</td>
<td>4</td>
</tr>
<tr>
<td>MusTc 220 1st Yr. Audio Record. I</td>
<td>3</td>
</tr>
<tr>
<td>MusTc 221 1st Yr. Audio Record. II</td>
<td>3</td>
</tr>
<tr>
<td>MusTc 222 1st Yr. Audio Record. III</td>
<td>3</td>
</tr>
<tr>
<td>MusTc 236 Digital Performer I</td>
<td>5</td>
</tr>
<tr>
<td>MusTc 237 Digital Performer II</td>
<td>5</td>
</tr>
<tr>
<td>MusTc 238 Digital Performer III</td>
<td>5</td>
</tr>
<tr>
<td>MusTc 230 Introduction to MIDI</td>
<td>2</td>
</tr>
<tr>
<td>MusTc 231 MIDI Sequencing I</td>
<td>2</td>
</tr>
<tr>
<td>MusTc 234 MIDI Drum Programming</td>
<td>2</td>
</tr>
<tr>
<td>MusTc 233 MIDI Synthesis</td>
<td>2</td>
</tr>
<tr>
<td>MusTc 242 Advanced Sampling</td>
<td>2</td>
</tr>
<tr>
<td>MusTc 243 Advanced Synthesis</td>
<td>2</td>
</tr>
<tr>
<td>MusTc 249 MIDI Portfolio Dvlpmnt</td>
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</table>

See the Electives Listing on page 109 for MIDI electives.

**SAMPLE SCHEDULE**

<table>
<thead>
<tr>
<th>Sample Schedule</th>
<th>Cr.</th>
</tr>
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<tbody>
<tr>
<td><strong>Fall Quarter</strong></td>
<td></td>
</tr>
<tr>
<td>MusTc 100 Vocational Seminar</td>
<td>2</td>
</tr>
<tr>
<td>Music 101 First Year Music Theory</td>
<td>5</td>
</tr>
<tr>
<td>Music 121 Class Piano for Music 101 Students</td>
<td>2</td>
</tr>
<tr>
<td>MusTc 230 Introduction to MIDI</td>
<td>2</td>
</tr>
<tr>
<td>MusTc 231 MIDI Sequencing I</td>
<td>2</td>
</tr>
<tr>
<td>VCT 124 Basic Macintosh Systems Operation</td>
<td>2</td>
</tr>
<tr>
<td><strong>Winter Quarter</strong></td>
<td></td>
</tr>
<tr>
<td>Music 102 First-Year Theory II</td>
<td>5</td>
</tr>
<tr>
<td>MusTc 232 MIDI Sampling</td>
<td>2</td>
</tr>
<tr>
<td>MusTc 241 MIDI Sequencing II</td>
<td>2</td>
</tr>
<tr>
<td>BusAd 112 Essentials of Human Relations</td>
<td>2</td>
</tr>
<tr>
<td><strong>Spring Quarter</strong></td>
<td></td>
</tr>
<tr>
<td>Music 103 First Year Music Theory III</td>
<td>5</td>
</tr>
<tr>
<td>MusTc 233 MIDI Synthesis</td>
<td>2</td>
</tr>
<tr>
<td>MusTc 251 MIDI Sequencing III</td>
<td>2</td>
</tr>
<tr>
<td>MusTc 261 MIDI Sequencing IV</td>
<td>2</td>
</tr>
<tr>
<td>PE 292 First Aid &amp; Personal Safety</td>
<td>3</td>
</tr>
<tr>
<td><strong>Fall Quarter</strong></td>
<td></td>
</tr>
<tr>
<td>MusTc 215** Pop &amp; Commercial Theory I</td>
<td>4</td>
</tr>
<tr>
<td>MusTc 220 1st Year Audio Recording</td>
<td>3</td>
</tr>
<tr>
<td>MusTc 236 Digital Performer I</td>
<td>5</td>
</tr>
<tr>
<td>SpCmu 100 Communication in a Diverse Workplace</td>
<td>3</td>
</tr>
<tr>
<td><strong>Winter Quarter</strong></td>
<td></td>
</tr>
<tr>
<td>MusTc 216** Pop &amp; Commercial Theory II</td>
<td>4</td>
</tr>
<tr>
<td>MusTc 221 1st Year Audio Recording</td>
<td>3</td>
</tr>
<tr>
<td>MusTc 234 MIDI Drum Programming</td>
<td>2</td>
</tr>
<tr>
<td>MusTc 237 Digital Performer II</td>
<td>5</td>
</tr>
<tr>
<td>Eng 101* Composition &amp; Exp. Prose</td>
<td>5</td>
</tr>
<tr>
<td><strong>Spring Quarter</strong></td>
<td></td>
</tr>
<tr>
<td>MusTc 217** Pop &amp; Commercial Theory III</td>
<td>4</td>
</tr>
<tr>
<td>MusTc 222 1st Year Audio Recording</td>
<td>3</td>
</tr>
<tr>
<td>MusTc 238 Digital Performer III</td>
<td>5</td>
</tr>
<tr>
<td>MusTc 244 MIDI Drug Program II</td>
<td>2</td>
</tr>
<tr>
<td>MusTc 249 MIDI Portfolio Dvlpmnt</td>
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<tr>
<td><strong>Total Credits Required</strong></td>
<td>105</td>
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</tbody>
</table>

Courses marked with an * are the General Education/Related Instruction requirements for this program.

**Music 201, 202, 203 may be substituted for MusTc 215, 216, 217.**
Music Merchandising Option
The Music Technology Merchandising program option is designed to prepare students for a career in music merchandising and related occupations. Students learn the fundamentals of music theory, along with the basic elements of merchandising including marketing, salesmanship, legal issues, business math and practical accounting. In addition, students develop related skills in professional communications and human relations. Depending upon personal interests and career interests, students also choose from a wide variety of electives in music performance, business management, contract administration, commercial law, MIDI, radio and television production, and audio recording.

OUTCOMES
Students who successfully complete this program should be able to:
1. Apply principles of marketing and salesmanship in the merchandising of musical products or productions.
2. Create radio commercials as well as educational and instructional industrial productions.
3. Communicate effectively in the workplace both verbally and in writing.
4. Apply basic business math skills and accounting principles to plan and evaluate merchandising strategies.
5. Explain the basic principles of music theory.
6. Apply principles of applied music and performance in a selected area of interest -- vocal or instrumental.
7. Use basic business computer software applications.
## SAMPLE SCHEDULE

### Fall Quarter
<table>
<thead>
<tr>
<th>Course</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MusTc 100 Vocational Seminar</td>
<td>2</td>
</tr>
<tr>
<td>Music 101 First-Year Theory I</td>
<td>5</td>
</tr>
<tr>
<td>Music 121 Class Piano for Music 101 Students</td>
<td>2</td>
</tr>
<tr>
<td>Eng 101 Composition and Expository Prose</td>
<td>5</td>
</tr>
<tr>
<td>Music &amp; Performance Elective</td>
<td>2</td>
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</table>

### Winter Quarter
<table>
<thead>
<tr>
<th>Course</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 102 First-Year Theory II</td>
<td>5</td>
</tr>
<tr>
<td>MusTc 104 Music Recording/Publishing</td>
<td>2</td>
</tr>
<tr>
<td>SpCmu 100 Communication in a Diverse Workplace</td>
<td>3</td>
</tr>
<tr>
<td>Quantitative Reasoning (see approved list)</td>
<td>5</td>
</tr>
<tr>
<td>Music &amp; Performance Elective</td>
<td>2</td>
</tr>
</tbody>
</table>

### Spring Quarter
<table>
<thead>
<tr>
<th>Course</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 103 First-Year Theory III</td>
<td>5</td>
</tr>
<tr>
<td>MusTc 105 Rights and Methods in Multimedia</td>
<td>2</td>
</tr>
<tr>
<td>BusAd 112 Human Relations</td>
<td>2</td>
</tr>
<tr>
<td>BusAd 175 Business Math</td>
<td>5</td>
</tr>
<tr>
<td>Music &amp; Performance Elective</td>
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### Fall Quarter
<table>
<thead>
<tr>
<th>Course</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acctg 101 Practical Accounting I</td>
<td>5</td>
</tr>
<tr>
<td>BusAd 120 Principles of Marketing</td>
<td>5</td>
</tr>
<tr>
<td>PE 292 First Aid &amp; Personal Safety</td>
<td>3</td>
</tr>
<tr>
<td>Music &amp; Performance Elective</td>
<td>4</td>
</tr>
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</table>

### Winter Quarter
<table>
<thead>
<tr>
<th>Course</th>
<th>Cr.</th>
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</thead>
<tbody>
<tr>
<td>BusAd 130 Salesmanship</td>
<td>5</td>
</tr>
<tr>
<td>BusAd 250 Introduction to Law</td>
<td>5</td>
</tr>
<tr>
<td>BusTc 252 Professional Communications</td>
<td>5</td>
</tr>
<tr>
<td>Music &amp; Performance Elective</td>
<td>2</td>
</tr>
</tbody>
</table>

### Spring Quarter
<table>
<thead>
<tr>
<th>Course</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Merchandising Electives (see your advisor)</td>
<td>10</td>
</tr>
<tr>
<td>MusTc 249 MIDI Portfolio Development</td>
<td>2</td>
</tr>
<tr>
<td>Music &amp; Performance Elective</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Credits Required** | 96

Courses marked with an * are the General Education/Related Instruction requirements for this program.

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### Performance Option

The Music Technology Performance program option is designed to prepare students for a career in music performance and related occupations. The program provides students with a foundation in music theory and applied music including options for participation in concert bands, jazz, choral and bluegrass ensembles, orchestra, opera, musical theater and voice-dance theater.

Depending upon their personal and career interests, students may choose from a variety of electives in television production, digital audio recording, MIDI music production, music appreciation and commercial music in theory and practice.

### OUTCOMES

Students who successfully complete this program should be able to:

1. Demonstrate an understanding of the principles of music performance.
2. Explain and apply the fundamental principles of music theory.
3. Demonstrate a proficiency in some area of musical performance either vocal or instrumental.
5. Identify current trends and industry standards affecting the field of music performance today.
6. Relate to others and communicate effectively in the workplace.
7. Use basic business computer software applications.
**AAAS Degree**

**PROGRAM PREREQUISITES:**

Students without secure knowledge of music fundamentals and keyboard ability should take Music 100 & 120 before taking Music 101. Students completing ANY A.A.A.S. Degree in Music Technology are required to maintain a final grade of 2.0 in each music theory course and each digital audio course in order to progress to the next class.

**PROGRAM REQUIREMENTS Cr.**

<table>
<thead>
<tr>
<th>Core Curriculum &amp; General Education Requirements</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng 101* Composition and Expository Prose</td>
<td>5</td>
</tr>
<tr>
<td>CIS 105* Computer Applications</td>
<td>5</td>
</tr>
<tr>
<td>SpCmu 100 Communication in a Diverse Workplace</td>
<td>3</td>
</tr>
<tr>
<td>BusAd 112* Essentials of Human Relations</td>
<td>2</td>
</tr>
<tr>
<td>PE 292* First Aid &amp; Personal Safety</td>
<td>3</td>
</tr>
</tbody>
</table>

**Music Requirements**

<table>
<thead>
<tr>
<th>Music Requirements</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MusTc 100 Vocational Seminar</td>
<td>2</td>
</tr>
<tr>
<td>Music 101 First-Year Theory I</td>
<td>5</td>
</tr>
<tr>
<td>Music 102 First-Year Theory II</td>
<td>5</td>
</tr>
<tr>
<td>Music 103 First-Year Theory III</td>
<td>5</td>
</tr>
<tr>
<td>MusTc 104 Music Recording/Publishing</td>
<td>2</td>
</tr>
<tr>
<td>MusTc 105 Rights and Methods in Multimedia</td>
<td>2</td>
</tr>
<tr>
<td>Music 107 Experiencing Music</td>
<td>5</td>
</tr>
<tr>
<td>Music 109 American Popular Music</td>
<td>5</td>
</tr>
<tr>
<td>Music 121 Class Piano for Music 101 Students</td>
<td>2</td>
</tr>
<tr>
<td>MusTc 215** Pop &amp; Commercial Music Theory I</td>
<td>4</td>
</tr>
<tr>
<td>MusTc 216** Pop &amp; Commercial Music Theory II</td>
<td>4</td>
</tr>
<tr>
<td>MusTc 217** Pop &amp; Commercial Music Theory III</td>
<td>4</td>
</tr>
<tr>
<td>Music 211 History of Jazz</td>
<td>5</td>
</tr>
<tr>
<td>MusTc 231 MIDI Sequencing I</td>
<td>2</td>
</tr>
<tr>
<td>MusTc 249 MIDI Portfolio Development</td>
<td>2</td>
</tr>
</tbody>
</table>

**MUSIC ELECTIVES**

Select 26 credits from the list of approved electives on page 109.

**SAMPLE SCHEDULE**

### Fall Quarter

<table>
<thead>
<tr>
<th>Course</th>
<th>Cr.</th>
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</thead>
<tbody>
<tr>
<td>MusTc 100 Vocational Seminar</td>
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<tr>
<td>Music 101 First-Year Theory I</td>
<td>5</td>
</tr>
<tr>
<td>Music 121 Class Piano for Music 101 Students</td>
<td>2</td>
</tr>
<tr>
<td>Eng 101 Composition and Expository Prose</td>
<td>5</td>
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<tr>
<td>Approved Electives</td>
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### Winter Quarter

<table>
<thead>
<tr>
<th>Course</th>
<th>Cr.</th>
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<tbody>
<tr>
<td>Music 102 First-Year Theory II</td>
<td>5</td>
</tr>
<tr>
<td>MusTc 104 Music Recording/Publishing</td>
<td>2</td>
</tr>
<tr>
<td>CIS 105 Computer Applications</td>
<td>5</td>
</tr>
<tr>
<td>Approved Electives</td>
<td>4</td>
</tr>
</tbody>
</table>

### Spring Quarter

<table>
<thead>
<tr>
<th>Course</th>
<th>Cr.</th>
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</thead>
<tbody>
<tr>
<td>Music 103 First-Year Theory III</td>
<td>5</td>
</tr>
<tr>
<td>MusTc 105 Rights and Methods in Multimedia</td>
<td>2</td>
</tr>
<tr>
<td>Music 109 American Popular Music</td>
<td>5</td>
</tr>
<tr>
<td>Approved Electives</td>
<td>4</td>
</tr>
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</table>

### Fall Quarter

<table>
<thead>
<tr>
<th>Course</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 107 Experiencing Music</td>
<td>5</td>
</tr>
<tr>
<td>Music 211 History of Jazz</td>
<td>5</td>
</tr>
<tr>
<td>MusTc 215** Pop &amp; Commercial Music Theory I</td>
<td>4</td>
</tr>
<tr>
<td>MusTc 231 MIDI Sequencing I</td>
<td>2</td>
</tr>
<tr>
<td>Approved Electives</td>
<td>4</td>
</tr>
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### Winter Quarter

<table>
<thead>
<tr>
<th>Course</th>
<th>Cr.</th>
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</thead>
<tbody>
<tr>
<td>MusTc 216** Pop &amp; Commercial Music Theory II</td>
<td>4</td>
</tr>
<tr>
<td>SpCmu 100 Communication in a Diverse Workplace</td>
<td>3</td>
</tr>
<tr>
<td>PE 292 First Aid &amp; Personal Safety</td>
<td>3</td>
</tr>
<tr>
<td>Approved Electives</td>
<td>4</td>
</tr>
</tbody>
</table>

### Spring Quarter

<table>
<thead>
<tr>
<th>Course</th>
<th>Cr.</th>
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</thead>
<tbody>
<tr>
<td>MusTc 217** Pop &amp; Commercial Music Theory III</td>
<td>4</td>
</tr>
<tr>
<td>MusTc 249 MIDI Portfolio Development</td>
<td>2</td>
</tr>
<tr>
<td>BusAd 112 Essentials of Human Relations</td>
<td>2</td>
</tr>
<tr>
<td>Approved Electives</td>
<td>4</td>
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</tbody>
</table>

**Total Credits Required** 98

Courses marked with an * are the General Education/Related Instruction requirements for this program.
### APPROVED ELECTIVES FOR MERCHANDISING AND PERFORMANCE OPTIONS

<table>
<thead>
<tr>
<th>Music 100</th>
<th>Music 104</th>
<th>Music 108</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Music Theory</td>
<td>Music in American Culture</td>
<td>Music in World Cultures</td>
</tr>
<tr>
<td>Music 120</td>
<td>Music 127</td>
<td>Music 113</td>
</tr>
<tr>
<td>Class Piano for Music 100 Students</td>
<td>Class Piano for General Student</td>
<td>Rock Ensemble</td>
</tr>
<tr>
<td>Music 114</td>
<td>Music 115</td>
<td>Music 116</td>
</tr>
<tr>
<td>Class Instruction - Guitar</td>
<td>Class Instruction - Electric Bass Guitar</td>
<td>Rhythm Section Techniques</td>
</tr>
<tr>
<td>Music 117</td>
<td>Music 122</td>
<td>Music 123</td>
</tr>
<tr>
<td>Electric Guitar</td>
<td>Class Piano for Music 102 Students</td>
<td>Class Piano for Music 103 Students</td>
</tr>
<tr>
<td>Music 131</td>
<td>Music 136</td>
<td>Music 137</td>
</tr>
<tr>
<td>Shoreline Singers</td>
<td>Jazz Ensemble</td>
<td>Class Voice Instruction - Beginning</td>
</tr>
<tr>
<td>Music 138</td>
<td>Music 139</td>
<td>Music 140</td>
</tr>
<tr>
<td>Class Voice Instruction - Intermediate</td>
<td>Class Voice instruction - Advanced</td>
<td>Symphonic Band</td>
</tr>
<tr>
<td>Music 141</td>
<td>Music 142</td>
<td>Music 144</td>
</tr>
<tr>
<td>Choral Union</td>
<td>Evening Concert Choir/Choir of the Sound</td>
<td>Funkn groove</td>
</tr>
<tr>
<td>Music 146</td>
<td>Music 148</td>
<td>Music 149</td>
</tr>
<tr>
<td>Orchestra</td>
<td>Chamber Wind Ensemble</td>
<td>Vocal Ensemble</td>
</tr>
<tr>
<td>Music 150</td>
<td>Music 151</td>
<td>Music 152</td>
</tr>
<tr>
<td>History of Bluegrass</td>
<td>Guitar Ensemble</td>
<td>Bluegrass Band</td>
</tr>
<tr>
<td>Music 153</td>
<td>Music 154</td>
<td>Music 155</td>
</tr>
<tr>
<td>Chamber Chorale</td>
<td>Saxophone Ensemble</td>
<td>String Ensemble</td>
</tr>
<tr>
<td>Music 156</td>
<td>Music 157</td>
<td>Music 158</td>
</tr>
<tr>
<td>Piano Ensemble</td>
<td>Repertoire Jazz Group</td>
<td>Re-Bop Brass Band</td>
</tr>
<tr>
<td>Music 159</td>
<td>Music 160</td>
<td>Music 162</td>
</tr>
<tr>
<td>Brass Ensemble</td>
<td>Percussion Ensemble</td>
<td>Opera Workshop</td>
</tr>
<tr>
<td>Music 163</td>
<td>Music 165</td>
<td>Music 166</td>
</tr>
<tr>
<td>Opera Workshop</td>
<td>Musical Theater Performance</td>
<td>Musical Theater Performance</td>
</tr>
<tr>
<td>Music 167</td>
<td>Music 168</td>
<td>Music 170-195</td>
</tr>
<tr>
<td>Voice/Dance Performance Techniques I</td>
<td>Voice/Dance Performance Techniques II</td>
<td>Applied Music Instruction (see advisor)</td>
</tr>
<tr>
<td>Music 200</td>
<td>Music 201</td>
<td>Music 202</td>
</tr>
<tr>
<td>Fundamentals of Music</td>
<td>Second-Year Theory I</td>
<td>Second-Year Theory I</td>
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<tr>
<td>Music 203</td>
<td>Music 204</td>
<td>Music 205</td>
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<tr>
<td>Second-Year Theory III</td>
<td>Improvisation I</td>
<td>Improvisation II</td>
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<tr>
<td>Music 207</td>
<td>Music 208</td>
<td>Music 209</td>
</tr>
<tr>
<td>The Craft of Songwriting</td>
<td>Diction for Singers: Italian/German</td>
<td>Diction for Singers: French/English</td>
</tr>
<tr>
<td>Music 270-295</td>
<td>Music 206</td>
<td>Music 215</td>
</tr>
<tr>
<td>Applied Music Instruction (see advisor)</td>
<td>Live Sound Reinforcement</td>
<td>Pop and Commercial Music Theory I</td>
</tr>
<tr>
<td>Music 216</td>
<td>Music 217</td>
<td>Music 220</td>
</tr>
<tr>
<td>Pop and Commercial Music Theory II</td>
<td>Pop and Commercial Music Theory III</td>
<td>First-Year Audio Recording I</td>
</tr>
<tr>
<td>Music 221</td>
<td>Music 222</td>
<td>Music 223</td>
</tr>
<tr>
<td>First-Year Audio Recording II</td>
<td>First-Year Audio Recording III</td>
<td>Multitrack Music Production I</td>
</tr>
<tr>
<td>Music 224</td>
<td>Music 225</td>
<td>Music 226</td>
</tr>
<tr>
<td>Multitrack Music Production 2</td>
<td>Multitrack Music Production 3</td>
<td>Digital Audio Production I</td>
</tr>
<tr>
<td>Music 227</td>
<td>Music 228</td>
<td>Music 230</td>
</tr>
<tr>
<td>Digital Audio Production II</td>
<td>Digital Audio Production III</td>
<td>Introduction to MIDI</td>
</tr>
<tr>
<td>Music 231</td>
<td>Music 232</td>
<td>Music 233</td>
</tr>
<tr>
<td>MIDI Sequencing I</td>
<td>MIDI Sampling I</td>
<td>MIDI Synthesis</td>
</tr>
<tr>
<td>Music 234</td>
<td>Music 235</td>
<td>Music 236</td>
</tr>
<tr>
<td>MIDI Drum Programming I</td>
<td>MIDI Drum Programming II</td>
<td>Digital Performer I</td>
</tr>
<tr>
<td>Music 237</td>
<td>Music 238</td>
<td>Music 239</td>
</tr>
<tr>
<td>Digital Performer II</td>
<td>Digital Performer III</td>
<td>MIDI Portfolio Development</td>
</tr>
<tr>
<td>Music 240</td>
<td>Music 241</td>
<td>Music 242</td>
</tr>
<tr>
<td>MIDI Sequencing II</td>
<td>MIDI Sequencing II</td>
<td>Advanced Sampling</td>
</tr>
<tr>
<td>Music 243</td>
<td>Music 244</td>
<td>Music 245</td>
</tr>
<tr>
<td>Advanced Synthesis</td>
<td>MIDI Drum Programming II</td>
<td>Audio Post I Digital Music</td>
</tr>
<tr>
<td>Music 246</td>
<td>Music 247</td>
<td>Music 248</td>
</tr>
<tr>
<td>Audio Post II Digital Radio</td>
<td>Audio Post III Digital/Audio</td>
<td>MIDI Production Development</td>
</tr>
<tr>
<td>Music 249</td>
<td>Music 250</td>
<td>Music 251</td>
</tr>
<tr>
<td>MIDI Portfolio Development</td>
<td>MIDI Sequencing III</td>
<td>MIDI Sequencing IV</td>
</tr>
<tr>
<td>Music 252</td>
<td>Music 253</td>
<td>Music 254</td>
</tr>
<tr>
<td>Basic Studio and Sound Maintenance</td>
<td>Advanced Studio &amp; Sound Maintenance</td>
<td>Special Projects (1 Credit)</td>
</tr>
<tr>
<td>Music 255</td>
<td>Music 256</td>
<td>Music 257</td>
</tr>
<tr>
<td>Special Projects (2 Credits)</td>
<td>Special Projects (3 Credits)</td>
<td>Essentials of Supervision</td>
</tr>
<tr>
<td>Music 258</td>
<td>Music 259</td>
<td>Music 260</td>
</tr>
<tr>
<td>Contract Administration</td>
<td>Commercial Law</td>
<td>Basic Video Production</td>
</tr>
<tr>
<td>BusAd 195</td>
<td>BusAd 200</td>
<td>Cmu 261</td>
</tr>
<tr>
<td>BusAd 260</td>
<td>BusAd 200</td>
<td>Basic Video Production</td>
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<tr>
<td>Cmu 262</td>
<td>Cmu 263</td>
<td>CMU 264</td>
</tr>
<tr>
<td>Television Studio</td>
<td>TV: Electronic Field Production</td>
<td>Introduction to Multi-Image</td>
</tr>
<tr>
<td>Cmu 265</td>
<td>CMU 266</td>
<td>CMU 267</td>
</tr>
<tr>
<td>Reasoning, Research &amp; Writing</td>
<td>Introduction to Logic</td>
<td>Basic Speech Communication</td>
</tr>
<tr>
<td>Eng 102</td>
<td>Phil 120</td>
<td>SpCmu 101</td>
</tr>
</tbody>
</table>
DESCRIPTION
The Nursing Program prepares individuals to become Registered Nurses. The curriculum provides a strong foundation in natural and social sciences and an understanding of patient care in a variety of settings. Throughout the program, students integrate experience caring for patients in acute care hospitals, long-term care facilities and community agencies. Graduates receive an Associate Degree in Applied Arts and Sciences in Nursing. After graduation, individuals must take and pass the N-CLEX RN examination to be licensed by the state as a Registered Nurse. Licensed graduates are qualified for employment as entry-level staff nurses in hospitals, nursing homes, clinics, doctors’ offices and home care agencies and to coordinate patient care provided by a nursing team.

This program is approved by the Washington State Nursing Commission and is nationally accredited by the National League for Nursing Accrediting Commission at 61 Broadway, New York, NY 10006 (212-363-5555).

OUTCOMES
Students who complete this program will:
1. Value nursing as a profession and support the health and well-being of individuals and society.
2. Value and maintain ethical, legal and professional standards of nursing practice.
3. Value caring as an approach to the nursing profession and serve as a role model of caring for others.
4. Value self awareness that leads to continued learning, self development in nursing and development of the nursing profession.
5. Value critical thinking and judgment as fundamental attributes for the registered nurse.
6. Assess the client as a total person.
7. Analyze data in order to accurately identify nursing diagnoses requiring independent action, medical problems needing referral and potential problems requiring nursing preventive action.
8. Plan appropriate and culturally sensitive nursing care.
9. Provide safe, effective nursing care through technical skills, communication and health teaching.
10. Evaluate nursing care, re-analyze and re-plan based on this evaluation.
11. Lead a group of nursing personnel in the care of a group of clients.
12. Communicate and collaborate effectively with other members of the health care team.
13. Use technology and both human and material resources in a cost-effective and appropriate manner.
PREREQUISITES FOR ADMISSION

To apply, every applicant (basic, LPN, and transfer) MUST meet the following minimum prerequisites.

1. Grade point average: 3.0 on high school work or 2.0 on college level work;
2. English 101 (meets Gen. ed. requirement);
3. Mathematics Competence: Must have completed Intermediate Algebra (Math 99) OR be above that level as demonstrated by the ASSET or COMPASS Test; OR have successfully completed (2.0 or better) a college mathematics class at a level higher than intermediate algebra;
4. Biology: Must have completed (2.0 or higher) one year of high school biology OR a five-credit college level general biology course (BioSci 201) within the past 10 years for basic applicants;
5. Chemistry: Must have completed (2.0 or higher) one year of high school chemistry OR five-credit college level inorganic chemistry course (Chem 101) within the past 10 years for basic applicants and 15 years for LPN advanced placement applicants. Chem 101 may be counted toward the Quantitative Reasoning requirement for the degree HOWEVER, admission points are only awarded in the Q. R. category and the chemistry requirement will be noted as “Met” with no additional points;
6. Anatomy (BioSci 210) and Physiology (BioSci 211) or an equivalent 10 credits of Anatomy and Physiology I and II.

ADMISSION PROCEDURES

Students are expected to comply with all procedures for admission to Shoreline Community College. Admission to the College and initiation of course work to meet prerequisites or to complete some of the non-nursing courses that are part of the nursing program can occur any quarter. Contact the Admissions Office for admission to the college. Admission to the College does not guarantee admission to the Nursing Program. The Nursing Program has selective admission; therefore, a separate admission process for the Nursing Program is in place. No required nursing courses may be taken unless the individual has been admitted to the Nursing Program. Detailed information can be found at www.shoreline.edu/shoreline/nurse.html.

Students are admitted to the Nursing Program each fall, winter and spring quarter. No nursing courses are taught during the summer quarter. Nursing Program application dates are: Fall class — January 7-April 3; Winter class — June 15-October 3; Spring class — October 7-January 3.

All application materials are found online at https://success.shoreline.edu/hots/ASP/ChoicePage.asp. The forms are completed online, printed and signed. The forms along with official transcripts, employment documentation, other supporting documents and the application fee are submitted to the Health Occupations Office. Failure to submit required materials by the ending date of the application period will result in the applicant being disqualified.

Regular information sessions regarding the Nursing Program and the admission process are held. Contact the Health Occupations Division office at (206) 546-4743 to obtain a schedule for information sessions.

TRANSFER

Non-nursing course work may be transferred from any other accredited college. If the courses were taken outside of the State of Washington, it will be necessary to submit course descriptions from a college catalog to assist in evaluation of that course.

Nursing course transfer from another program is evaluated on an individual basis. For information and an application for Nursing transfer, contact the Health Occupations office.

This program is Associate of Applied Science-Technology (AAS-T) degree eligible. The AAS-T degree indicator, which will appear on your transcript, will enable students to transfer this degree directly to some four-year institutions. Please check with your program advisor for more specific information.
ADVANCED PLACEMENT FOR LICENSED PRACTICAL NURSES

Licensed Practical Nurses may receive advanced placement in the Nursing Program. All non-nursing course requirements must also be met. For information on advanced placement, visit the website: www.shoreline.edu/nurse.html.

ADDITIONAL INFORMATION

Following acceptance into the program, each individual will be required to submit a health assessment and immunization report completed at the student’s expense. Should this report reveal health problems which would interfere with successful completion of the program, the student will be counseled. Situations that might interfere with successful completion could include such things as history of serious emotional problems, and/or incapacitating disease or significant physical limitations. All students accepted into the nursing program will be required to purchase malpractice insurance from the college each quarter at the time of registration. A Washington State Patrol background check is required by clinical agencies. A student who cannot participate in patient care in clinical settings based on the background check will not be able to continue in the program. The application for licensure asks specific questions regarding previous licensure and felony and drug convictions. Further information may be obtained from the Washington State Nursing Commission, P.O. Box 1099, Olympia, Washington.

Proof of personal health insurance carried by the individual or individual’s family is also required before going to a clinical facility. Shoreline uniforms are required for wear in the clinical area.

A grade of C (2.0) or better is required in all nursing theory and required non-nursing general education courses. Practicum grades must be satisfactory. Failure to satisfactorily complete either theory or practicum necessitates retaking both.

Cost of the program reflects current community college tuition rates. Information on financial aid may be obtained by calling the Financial Aid Office. The college provides no living accommodations.
### Fourth Quarter

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nurs 230</td>
<td>Nursing Practice &amp; Complex Health Disturbances II</td>
<td>2.5</td>
</tr>
<tr>
<td>Nurs 231</td>
<td>Complex Health Disturbances Practicum II (in care setting)</td>
<td>5</td>
</tr>
<tr>
<td>Nurs 232</td>
<td>Nursing Practice and Psychosocial Disturbances</td>
<td>2.5</td>
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<tr>
<td>Nurs 233</td>
<td>Psychosocial Disturbances Practicum (in care setting)</td>
<td>2</td>
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</tbody>
</table>

### Fifth Quarter

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Nurs 240</td>
<td>Nursing Practice &amp; The Child Bearing Family</td>
<td>3</td>
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<tr>
<td>Nurs 241</td>
<td>Nursing and the Child Bearing Family Practicum (in care setting)</td>
<td>4</td>
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<tr>
<td>Nurs 242</td>
<td>Nursing Practice and Health Promotion</td>
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<tr>
<td>Nurs 243</td>
<td>Health Promotion Practicum (in care setting)</td>
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### Sixth Quarter

<table>
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<tr>
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<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Nurs 270</td>
<td>Nursing Practice &amp; Complex Health Disturbances III</td>
<td>2</td>
</tr>
<tr>
<td>Nurs 271</td>
<td>Complex Health Disturbances III Practicum (in care setting)</td>
<td>4</td>
</tr>
<tr>
<td>Nurs 272</td>
<td>Managing Nursing in the Health System</td>
<td>3</td>
</tr>
<tr>
<td>Nurs 273</td>
<td>Managing Nursing Care Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits Required**: 106-110

### CLINICAL FACILITIES

**FOR THE NURSING PROGRAM**

**Hospitals**
- Harborview Hospital, Seattle
- Northwest Hospital, Seattle
- Stevens Memorial Hospital, Edmonds, Wash.
- Swedish Medical Center, Seattle branch, Seattle
- Swedish Medical Center, Ballard branch, Seattle
- University of Washington Hospital
- Virginia Mason Hospital, Seattle
- West Seattle Psychiatric Hospital

**Nursing Homes**
- Anderson House, Shoreline, Wash.
- Bayview Manor, Seattle
- Cascade Vista, Redmond, Wash.
- Columbia Lutheran, Seattle
- Crista Senior Community, Shoreline, Wash.
- Foss Home, Seattle
- The Hearthstone, Seattle
- Horizon House, Seattle
- Ida Culver House - Broadview, Seattle
- Mercer Island Care Center, Mercer Island
- Parkshore Nursing Center, Seattle
- Providence Mount St. Vincent, Seattle

**Community Agencies**
- 45th Street Clinic, Seattle
- Group Health Cooperative Clinics
- International District Clinic, Seattle
- Medalia Clinics
- Pacific Medical Clinics
- Polyclinic, Seattle
- Shoreline Public Schools, Shoreline
- Veterans Administration Health Clinics, Seattle

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**Contact Information**

(206) 546-4743
**Acting For Stage and Camera**

This is a professional training program in the basic skills of auditioning and acting in theater, films, TV and other media. Various acting techniques and philosophies are emphasized to provide the student with the skills, passion and discipline to compete in this craft. Students receive a foundation in the literature, theories and history of theater and film. This knowledge is then applied in analyzing scripts and creating characters as students audition for and perform in theatrical productions and digital films. Collaboration with technical crews, directors, writers and fellow actors is also stressed through classes, auditions and productions. A central focus of this program is rehearsing and performing in professionally directed stage and film productions. Additionally, there is outreach to the community for projects and internships.

**OUTCOMES**

Students who successfully complete this program should be able to:

1. Perform four monologues for stage and camera auditions.
2. Work with actors, writers and directors of varying skill levels and working styles.
3. Analyze a script stating character objectives, subtext, biography, and intentions appropriate to various genres and formats.
4. Memorize on deadlines a full-length stage performance and two short digital film performances.
5. Demonstrate knowledge of professional theater and film set behavior and ethics.
6. Demonstrate a familiarity with Western dramatic literature from the Greeks to contemporary American theater.
7. Demonstrate knowledge of the major acting theories used in contemporary theater and film.

**CERTIFICATE OF PROFICIENCY**

**GENERAL EDUCATION REQUIREMENTS**  
<table>
<thead>
<tr>
<th>Cr.</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng 101</td>
<td>Composition and Expository Prose</td>
<td>5</td>
</tr>
<tr>
<td>CIS 105</td>
<td>Business Applications – or – BusAd 175 Business Mathematics – or –</td>
<td>5</td>
</tr>
<tr>
<td>Math 107</td>
<td>Math: A Practical Art</td>
<td>5</td>
</tr>
<tr>
<td>BusAd 112</td>
<td>Essentials of Human Relations (2) – or – SpCMU 101 Speech Communication (5)</td>
<td>2-5</td>
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**CERTIFICATE FOUNDATION REQUIREMENTS**  
<table>
<thead>
<tr>
<th>Cr.</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cinema 201</td>
<td>Intro to Cinema</td>
<td>5</td>
</tr>
<tr>
<td>Drama 101</td>
<td>Intro to Drama</td>
<td>5</td>
</tr>
<tr>
<td>Drama 151</td>
<td>Acting</td>
<td>5</td>
</tr>
<tr>
<td>Drama 152</td>
<td>Acting</td>
<td>5</td>
</tr>
<tr>
<td>Drama 153</td>
<td>Acting</td>
<td>5</td>
</tr>
<tr>
<td>Drama 155</td>
<td>Acting, for the Camera</td>
<td>3</td>
</tr>
<tr>
<td>Drama 156</td>
<td>Writing, Acting, Directing For the Camera</td>
<td>5</td>
</tr>
<tr>
<td>Drama 157</td>
<td>Adv. Writing, Acting, Directing For the Camera</td>
<td>5</td>
</tr>
<tr>
<td>Drama 202/209</td>
<td>Theater/Film Production</td>
<td>6</td>
</tr>
<tr>
<td>Drama 221</td>
<td>Auditioning &amp; Career Planning</td>
<td>2</td>
</tr>
<tr>
<td>Drama 222</td>
<td>Directing</td>
<td>5</td>
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**ELECTIVES OPTIONS**  
<table>
<thead>
<tr>
<th>Cr.</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CMU/VCT266</td>
<td>Video Editing and Postproduction</td>
<td>5</td>
</tr>
<tr>
<td>DRAMA 295</td>
<td>Improvisation</td>
<td>3</td>
</tr>
<tr>
<td>DRAMA 283</td>
<td>Circus Techniques</td>
<td>3</td>
</tr>
<tr>
<td>HUMAN/PE 161</td>
<td>World Dance – or –</td>
<td>3</td>
</tr>
<tr>
<td>HUMAN/PE 162</td>
<td>World Dance</td>
<td>3</td>
</tr>
<tr>
<td>Music/PE 167</td>
<td>Voice-Dance Performance</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 137</td>
<td>Class Voice Instruction</td>
<td>2</td>
</tr>
<tr>
<td>SpCMU 103</td>
<td>Communication Across Differences</td>
<td>5</td>
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</tbody>
</table>

Total Credits Required: 68 - 74
Digital Filmmaking Technology
This is a professional training program in the basic skills of shooting, lighting, and editing digital films. Courses provide basic theory and hands-on experience in all phases of using digital production and post-production equipment. This training includes the use of digital video cameras and lighting equipment, as well as field audio and digital editing equipment. Students learn how the equipment functions and how to operate it effectively through performing tasks such as camera operator, field audio technician and lighting grip in the studio and on film sets. Skill with video editing and post-production hardware and software applications (AVID and Final Cut Pro) is also emphasized. The program includes the production of video and digital film products under the supervision of professional producers, directors of photography, directors, and editors. Additionally, there is outreach to the community for projects and internships.

OUTCOMES
Students who successfully complete this program should be able to:
1. Produce effective digital video programs in a variety of styles.
2. Use digital video cameras, lighting, audio equipment in studio and field production settings.
3. Plan, script and direct a program through post-production.
4. Work in a professional crew in multiple positions.
5. Use non-linear edit system and other post-production software to create digital programs.
6. Demonstrate knowledge of professional set behavior and ethics.

CERTIFICATE OF PROFICIENCY

GENERAL EDUCATION REQUIREMENTS
<table>
<thead>
<tr>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng 101</td>
</tr>
<tr>
<td>CIS 105</td>
</tr>
<tr>
<td>BusAd 175</td>
</tr>
<tr>
<td>Math 107</td>
</tr>
<tr>
<td>BusAd 112</td>
</tr>
<tr>
<td>SpCMU 101</td>
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CERTIFICATE FOUNDATION REQUIREMENTS
<table>
<thead>
<tr>
<th>Cr.</th>
</tr>
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<tbody>
<tr>
<td>Cinema 201</td>
</tr>
<tr>
<td>Drama 155</td>
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<tr>
<td>Drama 156</td>
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<tr>
<td>Drama 157</td>
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<tr>
<td>CMU 263</td>
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<tr>
<td>CMU 261</td>
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<tr>
<td>CMU 262</td>
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<tr>
<td>CMU/ VCT 266</td>
</tr>
<tr>
<td>CMU/ VCT 267</td>
</tr>
<tr>
<td>CMU 297</td>
</tr>
<tr>
<td>Music 105</td>
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ELECTIVES OPTIONS
<table>
<thead>
<tr>
<th>Cr.</th>
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<tbody>
<tr>
<td>ART 100</td>
</tr>
<tr>
<td>VCT 129</td>
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<tr>
<td>VCT 229</td>
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<tr>
<td>VCT 264</td>
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<tr>
<td>VCT 265</td>
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<tr>
<td>Drama 101</td>
</tr>
<tr>
<td>Drama 151</td>
</tr>
<tr>
<td>Drama 152</td>
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<tr>
<td>Drama 153</td>
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<tr>
<td>Drama 202</td>
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<tr>
<td>Drama 209</td>
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<tr>
<td>Drama 222</td>
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<tr>
<td>Drama 271</td>
</tr>
<tr>
<td>ENG 277</td>
</tr>
<tr>
<td>MUSTc 238</td>
</tr>
<tr>
<td>SpCMU 103</td>
</tr>
</tbody>
</table>

Total Credits Required | 62-71 |
Writing and Directing For the Camera

This program prepares individuals to direct and write for films, TV and other digital video programs. Courses provide basic theory and hands-on experience in all phases of using digital production and post-production equipment. This training includes the use of digital video cameras, lighting equipment, as well as field audio and digital editing equipment. Additionally, there is a special focus on scriptwriting, pre-production planning, working with actors, managing a set and production, professional studio and film set protocol. Skill with video editing and post-production hardware and software applications (AVID and Final Cut Pro) will be emphasized. The program includes the production of video and digital film products under the supervision of professional producers, directors of photography, directors, and editors. Additionally, there is outreach to the community for projects and internships.

OUTCOMES

Students who successfully complete this program should be able to:
1. Write a successful short script.
2. Direct and work with actors from varying skill levels and working styles.
3. Script, plan and direct a cast and crew in a project for preproduction through post-production.
4. Manage the use of digital video cameras, lighting, audio equipment in studio and field production settings.
5. Demonstrate knowledge of professional set behavior and ethics.
DESCRIPTION
The Purchasing and Supply Chain Management program is a unique and highly regarded program designed both for those entering the field and professionals seeking to upgrade their skills. The curriculum focuses on many aspects of purchasing including source selection, pricing theory, quality and quality assurance, logistics, supply chain management, specifications and standardization, purchase timing, value engineering, make-or-buy concepts and capital purchasing.

Students learn related business and accounting practices such as standard policies and operating procedures, negotiation techniques, planning, organizing, traffic concepts and inventory control theory. In addition, students gain an understanding of the legal aspects of purchasing and the Uniform Commercial Code. Graduates will be qualified for employment in purchasing positions in a variety of business settings including manufacturing and construction companies, retail operations, educational institutions and government offices.

OUTCOMES
Students who successfully complete this program should be able to:
1. Utilize purchasing vocabulary and concepts related to source selection, pricing, quality, negotiating strategies to effectively procure goods and services.
2. Apply mathematical concepts in order to conduct price-cost analyses and make appropriate purchasing decisions.
3. Apply principles of materials and contract management.
4. Establish and maintain systems to track and control inventory.
5. Apply principles of finance, accounting, international business, logistics, business law, and economics to the field of purchasing and supply chain management.
6. Effectively communicate verbally and in writing within a variety of business environments.

AAAS DEGREE
PROGRAM PREREQUISITES
Eng 100 (Analytical Reading and Writing) or ESL 100 (Academic ESL) or satisfactory ASSET test score or ESL placement test score for English 101
Math 070 (Preparation for Algebra) or satisfactory ASSET test score for Math 080 or 099

PROGRAM REQUIREMENTS
General Education Requirements
<table>
<thead>
<tr>
<th>Course</th>
<th>Cr.</th>
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<tbody>
<tr>
<td>BusTc 252</td>
<td>Professional Communications</td>
</tr>
<tr>
<td>CIS 105</td>
<td>Computer Applications</td>
</tr>
<tr>
<td>BusAd 110</td>
<td>Human Relations in Business</td>
</tr>
<tr>
<td>Multicultural Education: See approved list</td>
<td>3-5</td>
</tr>
<tr>
<td>PE: Wellness/First Aid/Activities</td>
<td>3</td>
</tr>
</tbody>
</table>

Core Requirements
<table>
<thead>
<tr>
<th>Course</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acctg 210, 220, 230 OR Acctg 101, 103</td>
<td></td>
</tr>
<tr>
<td>Acctg 210</td>
<td>Financial Accounting I</td>
</tr>
<tr>
<td>Acctg 220</td>
<td>Financial Accounting II</td>
</tr>
<tr>
<td>Acctg 230</td>
<td>Managerial Accounting</td>
</tr>
<tr>
<td>Acctg 101</td>
<td>Practical Accounting I</td>
</tr>
<tr>
<td>Acctg 103</td>
<td>Prac. Acctg.-Managerial</td>
</tr>
<tr>
<td>BusAd 120</td>
<td>Principles of Marketing</td>
</tr>
<tr>
<td>BusAd 170</td>
<td>Logis. &amp; Transp. Fund</td>
</tr>
<tr>
<td>BusAd 190</td>
<td>Purchasing and Supply Management</td>
</tr>
<tr>
<td>BusAd 191</td>
<td>Sourcing and Supplier Relations</td>
</tr>
<tr>
<td>BusAd 192</td>
<td>Materials Management</td>
</tr>
<tr>
<td>BusAd 195</td>
<td>Contract Dev. &amp; Mgmt.</td>
</tr>
<tr>
<td>BusAd 201</td>
<td>Introduction to International Business</td>
</tr>
<tr>
<td>BusAd 226</td>
<td>eProcurement</td>
</tr>
<tr>
<td>BusAd 250</td>
<td>Intro to Law</td>
</tr>
<tr>
<td>BusAd 260</td>
<td>Commercial Law</td>
</tr>
<tr>
<td>(Spring, evening)*</td>
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</tr>
<tr>
<td>Econ 200</td>
<td>Intro to Microeconomics</td>
</tr>
<tr>
<td>Math 211</td>
<td>Elements of Statistical Methods</td>
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</table>

*The academic year that BusAd 260 is not offered, students may substitute Econ 200.

Electives
<table>
<thead>
<tr>
<th>Course</th>
<th>Cr.</th>
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</thead>
<tbody>
<tr>
<td>BusTc 152</td>
<td>Fundamentals of Business Communications</td>
</tr>
<tr>
<td>BusAd 175</td>
<td>Business Math</td>
</tr>
<tr>
<td>BusAd 200</td>
<td>Essentials of Supervision</td>
</tr>
<tr>
<td>BusAd 285</td>
<td>Special Topic: Entrepreneurship</td>
</tr>
<tr>
<td>Econ 201</td>
<td>Macroeconomics</td>
</tr>
</tbody>
</table>

Total credits required: 93-99
Certificate of Proficiency
Purchasing and Supply Chain Management

OUTCOMES
Students who successfully complete this program should be able to:
1. Utilize purchasing vocabulary and concepts related to source selection, pricing, quality, negotiating strategies to effectively procure goods and services.
2. Apply mathematical concepts in order to conduct price-cost analyses and make appropriate purchasing decisions.
3. Apply principles of materials and contract management.
4. Establish and maintain systems to track and control inventory.
5. Apply principles of finance, accounting, international business, logistics, business law, and economics to the field of purchasing and supply chain management.
6. Effectively communicate verbally and in writing within a variety of business environments.

CERTIFICATE OF PROFICIENCY

PROGRAM REQUIREMENTS

<table>
<thead>
<tr>
<th>General Education Requirements</th>
<th>Cr.</th>
</tr>
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<tbody>
<tr>
<td>BusAd 152 Fundamentals of Business Communications</td>
<td>5</td>
</tr>
<tr>
<td>BusTc 252 Prof. Communications</td>
<td>5</td>
</tr>
<tr>
<td>CIS 105 Computer Applications</td>
<td>5</td>
</tr>
<tr>
<td>BusAd 110 Human Relations in Bus</td>
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<table>
<thead>
<tr>
<th>Core Requirements</th>
<th>Cr.</th>
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<tbody>
<tr>
<td>Acctg 101 Practical Accounting</td>
<td>5</td>
</tr>
<tr>
<td>Acctg 210 Financial Accounting</td>
<td>5</td>
</tr>
<tr>
<td>BusAd 190 Purchasing and Supply Management</td>
<td>5</td>
</tr>
<tr>
<td>BusAd 191 Sourcing and Supplier Relations</td>
<td>4</td>
</tr>
<tr>
<td>BusAd 192 Materials Mgmt.</td>
<td>4</td>
</tr>
<tr>
<td>BusAd 195 Contract Dev. &amp; Mgmt.</td>
<td>4</td>
</tr>
<tr>
<td>BusAd 226 eProcurement</td>
<td>5</td>
</tr>
<tr>
<td>BusAd 201 Introduction to International Business</td>
<td>5</td>
</tr>
<tr>
<td>BusAd 250 Introduction to Law</td>
<td>5</td>
</tr>
<tr>
<td>Econ 100 Introduction to Economics</td>
<td>5</td>
</tr>
<tr>
<td>Econ 200 Introduction to Microeconomics</td>
<td>5</td>
</tr>
</tbody>
</table>

Total Credits Required 48
DESCRIPTION
The Speech-Language Pathology Assistant (SLPA) Program provides students with knowledge, skills, and abilities for successful employment in either agencies that provide speech-language pathology services. A large majority of SLPAs work in public schools. The SLPA works under the supervision of a Speech-Language Pathologist to conduct screenings and follow documented treatment plans or protocols to address for language, voice, fluency, articulation, and hearing impairment disorders. They follow documented treatment plans or protocols under the supervision of the SLP, perform checks and maintenance of equipment, and participate in research projects.

OUTCOMES
Students who successfully complete this program will be able to:
1. Distinguish between normal and delayed communication development.
2. Distinguish between correct and incorrect responses during communication activities.
3. Work cooperatively with other professionals and paraprofessionals to implement and support communication activities across different settings.
4. Implement specific activities to remediate or develop speech and language skills under supervision of an SLP.
5. Facilitate behavior management in children and adults to keep them on task.
6. Maximize and enhance opportunities for clients to practice new communication skills.
7. Record and manage required documentation to show progress toward communication goals.

AAAS DEGREE
PREREQUISITES:
Eng 100 (Analytical Reading and Writing) or ESL 100 (Academic ESL) or satisfactory ASSET test score or ESL placement test score for English 101
Math 070 (Preparation for Algebra) or satisfactory ASSET test score for Math 080 or 099

GENERAL EDUCATION REQUIREMENTS Cr.
Eng 101 Composition and Expository Prose .......5
Psych 100 Intro to Psychology (5) –or– .............5
Soc 110 Intro to Sociology ..........................5
Multicultural Issues: See Gen Ed Approved List ........5
Quantitative Reasoning* .............................5
*must be a math or business administration course from the approved list for quantitative reasoning, professional/technical degree.

CORE REQUIREMENTS ............... Cr.
BioSc 108 Intro to Anatomy and Physiology ......5
CIS 105 Computer Applications ....................5
PE 292 First Aid & Safety .........................3

ELECTIVES .................. Cr.
Choose 15 credits from courses listed below:
Edu 101 Child Growth and Development ........5
Edu 125 Introduction to Special Education ........5
Psy 204 Lifespan Development ....................5
Psy 206 Developmental Psychology .............5
ASL 101 American Sign Language I .............5

SPEECH-LANGUAGE PATHOLOGY PROGRAM CONCENTRATION REQUIREMENTS Cr.
SLP 100 Normal Comm. Across the Life Span ......3
SLP 101 Overview of Comm Disorders ...........3
SLP 110 Auditory Discrim. & Phonetics ...........3
SLP 210 Therapeutic Methods For Articulation ....5
SLP 211 Therapy Proc. for Dev. Lang. Disability ...5
SLP 212 SLPA's Role in Acquired Lang Disorders ...5
SLP 213 Behavioral Analysis & Management .......5
SLP 220 Audiology & Therapy For Hearing Loss ...3
SLP 225 Ethics and Scope of Practice for SLPA ....5
SLP 250 Intro to Assistive Tech ....................3
SLP 251 Augmentative & Alternative Comm .........3
SLP 266 SLPA Internship Preparation .............4
SLP 267 SLPA Internship In Schools/Clinics .......3
SLP 268 SLPA Prof Dev. Sem .....................3

Total Credits Required ............... 97-99
Certificate of Proficiency

Speech-Language Pathology Assistant

The Speech-Language Pathology Assistant (SLPA) Program provides students with knowledge, skills, and abilities for successful employment in either agencies that provide speech-language pathology services. A large majority of SLPA’s work in public schools. The SLPA works under the supervision of a Speech-Language Pathologist to conduct screenings and follow documented treatment plans or protocols to address for language, voice, fluency, articulation, and hearing impairment disorders. They follow documented treatment plans or protocols under the supervision of the SLP, perform checks and maintenance of equipment, and participate in research projects.

NOTE: The certificate option is appropriate for those who have completed an associates or bachelors degree (in any field). If you do not have an associates or bachelors degree, you should consider the SLPA A.A.A.S. degree option instead.

OUTCOMES

Students who successfully complete this program will be able to:
1. Distinguish between normal and delayed communication development.
2. Distinguish between correct and incorrect responses during communication activities.
3. Work cooperatively with other professionals and paraprofessionals to implement and support communication activities across different settings.
4. Implement specific activities to remediate or develop speech and language skills under supervision of an SLP.
5. Facilitate behavior management in children and adults to keep them on task.
6. Maximize and enhance opportunities for clients to practice new communication skills.
7. Record and manage required documentation to show progress toward communication goals.

CERTIFICATE OF PROFICIENCY

GENERAL EDUCATION REQUIREMENTS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng 101</td>
<td>Composition and Expository Prose</td>
<td>5</td>
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<tr>
<td>Quantitative Reasoning: See Gen Ed Approved List</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Multicultural Issues: See Gen Ed Approved List</td>
<td>3-5</td>
<td></td>
</tr>
<tr>
<td>PE 292</td>
<td>First Aid and Personal Safety</td>
<td>3</td>
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</table>

PROGRAM REQUIREMENTS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Cr.</th>
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<tbody>
<tr>
<td>SLP 100</td>
<td>Normal Comm. Across the Life Span</td>
<td>3</td>
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<tr>
<td>SLP 101</td>
<td>Overview of Comm Disorders</td>
<td>3</td>
</tr>
<tr>
<td>SLP 110</td>
<td>Auditory Discrim. &amp; Phonetics</td>
<td>3</td>
</tr>
<tr>
<td>SLP 210</td>
<td>Therapeutic Methods For Articulation</td>
<td>5</td>
</tr>
<tr>
<td>SLP 211</td>
<td>Therapy Proc. for Dev. Lang. Disability</td>
<td>5</td>
</tr>
<tr>
<td>SLP 212</td>
<td>SLPA's Role in Acquired Lang Disorders</td>
<td>5</td>
</tr>
<tr>
<td>SLP 213</td>
<td>Behavioral Analysis &amp; Management</td>
<td>5</td>
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<tr>
<td>SLP 220</td>
<td>Audiology &amp; Therapy For Hearing Loss</td>
<td>3</td>
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<tr>
<td>SLP 225</td>
<td>Ethics and Scope of Practice for SLPA</td>
<td>3</td>
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<tr>
<td>SLP 250</td>
<td>Intro to Assistive Tech</td>
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<tr>
<td>SLP 251</td>
<td>Augmentative &amp; Alternative Comm</td>
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<tr>
<td>SLP 266</td>
<td>SLPA Internship Preparation</td>
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<tr>
<td>SLP 267</td>
<td>SLPA Internship In Schools/Clinics</td>
<td>3</td>
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<tr>
<td>SLP 268</td>
<td>SLPA Prof Dev. Sem</td>
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</tr>
</tbody>
</table>

Total Credits Required: 67-69
VISUAL COMMUNICATION TECHNOLOGY PROGRAM

DESCRIPTION
The two-year Associate of Applied Arts and Sciences Degree in Visual Communication Technology prepares its graduates for first-time employment in the varied and rapidly changing field of visual communications. The program seeks to provide a comprehensive background for its students as well as opportunities for specialized study within the diverse areas of the industry. Entering students — who may begin any quarter — pursue an integrated program of foundation courses in art and design, computer graphics, visual communication media, business and communications. Students in their second year select a specialization within the following options:
- Graphic Design
- Offset Printing
- Digital Photography and Digital Video
- Interactive Media
- Marketing.

Some of the specializations within these options include:
- Web Design
- Computer Animation and Illustration
- Multidimensional Media Design and Authoring
- Digital Audio
- Electronic Prepress.

Students may add additional specializations to their two-year degree by taking extra courses. All programs of study emphasize portfolio development. Students are encouraged to seek industry experience through internships during their second year of study.

Graduates may find employment in a variety of settings including advertising agencies, publication houses, public relation firms, commercial graphics companies, visual support departments, printing departments, news agencies, print shops, digital service bureaus, software development companies, digital media companies, photo-processing companies, and the Internet. Some companies have in-house production departments while others subcontract with advertising agencies and independent designers.

Innovations in computer technology continue to rapidly change and expand the field of visual communication, in general, and the Visual Communication Technology Program at Shoreline Community College in particular. The following courses of study are subject to change. The student entering the program should expect these changes and stay in contact with vocational advisors in their area of study. Please note that courses indicated as Art XXX or VCT XXX are currently being developed, and that some changes to course titles and descriptions are pending. Programs of study may be changed by students with the consent of the Visual Communications Technology faculty and the Humanities Division Dean. Students who do not start Fall Quarter may find that conflicts in course scheduling may require a longer time to graduate.

Certificates of Completion for focused programs of study and one-year Certificates of Proficiency are available as alternatives to the two-year degree.

Students complete General Education requirements, VCT Foundation requirements and VCT Degree Option requirements as described below.

AAAS DEGREE
PREREQUISITES:
Eng 100 (Analytical Reading and Writing) or ESL 100 (Academic ESL) or satisfactory ASSET test score or ESL placement test score for English 101
Math 070 (Preparation for Algebra) or satisfactory ASSET test score for Math 080 or 099

GENERAL EDUCATION REQUIREMENTS
Recommended Selections — see advisor for other choices.

Communication Skills

| BUS 252 | Professional Communications — or — |
| EMT 101 | Composition & Expository Prose | . . . . . . . .5

Quantitative Reasoning

| CIS 105 | Business Applications | . . . . . . . .5

Human Relations

| BUS 112 | Essentials of Human Relations | . . . . . .2
| SPCMU 101 | Speech Communication | . . . . . .5

Multicultural Education

| SPCMU 100 | Communication in a Diverse Workplace(3) |
| — or — |
| SPCMU 103 | Communication Across Differences (5) | 3-5

Physical Education

| PE 292 | First Aid and Personal Safety | . . . . . .3

CONTINUED ON NEXT PAGE
VCT Foundation Requirements (cont.)

VCT FOUNDATION REQUIREMENTS
The following are required for all students:

<table>
<thead>
<tr>
<th>Business and Communications</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BusAd 120 Marketing</td>
<td>5</td>
</tr>
<tr>
<td>MusTc 105 Rights and Methods in Multimedia</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Art / Design</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 109 Design</td>
</tr>
<tr>
<td>VCT 101 Graphic Design I: Typographic Design</td>
</tr>
<tr>
<td>Art 100 Beginning Photography</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Computer Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>VCT 124 Basic Macintosh Systems Operation</td>
</tr>
<tr>
<td>VCT 125 Intro to Image Const., Editing &amp; Output</td>
</tr>
<tr>
<td>VCT 131 Computer Graphics: Desktop Publishing I</td>
</tr>
<tr>
<td>VCT 132 Computer Graphics: Illustration and Design</td>
</tr>
<tr>
<td>VCT 129 Introduction to Photoshop</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Media</th>
</tr>
</thead>
<tbody>
<tr>
<td>VCT 111 Offset Printing Procedures I</td>
</tr>
<tr>
<td>ART 115 Introduction to New Media Design/Authoring</td>
</tr>
<tr>
<td>CIS 140 The Internet and HTML</td>
</tr>
</tbody>
</table>

Students selecting options in print media (options A, B, C–Digital Photo emphasis or E-Print emphasis), should take the following two courses:

| VCT 112 Offset Printing II | 4 |
| VCT 122 Electronic Pre-Press I | 4 |

Students selecting options in multimedia areas (options A, B, C–Digital Video emphasis or E-Multimedia emphasis), should take the following two courses:

| Cmu 261 or 262 or 263 TV and Video Production | 3 |
| Music 230 Introduction to MIDI | 2 |

VCT DEGREE OPTION REQUIREMENTS
Students complete all courses in one or more selected specializations in the option of their choice. See advisor to add additional specializations from other options.

Option A: Graphic Design

The Graphic Design option is structured for students with a primary interest in understanding the fundamentals of design in the graphic arts industries. Graphic designers are expected to use creativity, artistic ability and knowledge of design theory to serve the communication and design needs of business, industry and government. Graphic designers develop marketing, advertising, merchandising and communication graphics which support and promote the activities of a wide variety of employers.

OUTCOMES

Students who successfully complete this program will be able to:

1. Effectively use concept development procedures in visual communication problem solving.
2. Select and organize design elements including letter forms, illustrations, typography and other graphic images.
3. Effectively use art elements such as line, shape, color, value, texture and form in the development of visual images.
4. Demonstrate knowledge of offset printing and print production including negative assembly, small press and bindery operations, automated systems, lithographic cameras, multicolor and special effects.
5. Use Macintosh computer software applications for desktop publishing, graphic design, illustration, electronic paste-up, scanning and manipulation of images, multimedia and prepress operations.
6. Apply knowledge of photography fundamentals including camera operations, image composition, lab procedures, film development, electronic image capture and manipulation.
7. Apply principles of audience and market analysis, and conduct research and develop resources in the production of visuals.

Graphic Design Specialization

| ART 105 Drawing | 4 |
| ARTH 201, 202 or 203 Western Art History | 5 |
| VCT 102 Graphic Design II | 5 |
| VCT 103 Graphic Design III | 5 |
| VCT 201 Graphic Design IV | 4 |
| VCT 202 Graphic Design V | 4 |
| VCT 203 Graphic Design VI | 4 |

Total Credits Required | 101-109 |
Option B: Offset Printing
The Offset Printing option is designed for students with a primary interest in offset printing and electronic pre-press operations. Offset printing workers use a variety of photographic, mechanical, electronic and computer processes to prepare and produce printed materials. Students learn offset printing techniques including line photography, negative assembly, multi-color, small and large press, and bindery operations. Students develop hands-on skills in the development of production-ready art, electronic prepress and desktop publishing. They also gain customer service and management skills such as cost estimating, job planning and inventory controls.

OUTCOMES
Students who successfully complete this program will be able to:
1. Effectively use concept development procedures in visual communication problem solving.
2. Create, select and organize design elements including letter forms, illustrations, typography and other graphic images.
3. Create, use, manipulate and scan photographic images for use in printed materials.
4. Understand mechanical aspects related to development of camera-ready art, paste-up and printing.
5. Use Macintosh computer software applications for desktop publishing, graphic design, illustration, electronic paste-up, scanning and manipulation of images, multimedia and prepress operations.
6. Identify knowledge of offset printing and print production including negative assembly, small press and bindery operations, automated systems, lithographic cameras, multicolor and special effects.
7. Effectively communicate with clients to evaluate their printing needs, select appropriate materials and production processes, establish schedules and provide cost estimates.

Offset Printing Specialization

<table>
<thead>
<tr>
<th>Course</th>
<th>Cr.</th>
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</thead>
<tbody>
<tr>
<td>EnvSc 201</td>
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<tr>
<td>VCT 211</td>
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<tr>
<td>VCT 212</td>
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</tr>
<tr>
<td>VCT 213</td>
<td>4</td>
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</table>

Electronic Prepress Specialization

<table>
<thead>
<tr>
<th>Course</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EnvSc 201</td>
<td>5</td>
</tr>
<tr>
<td>VCT 123</td>
<td>3</td>
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<tr>
<td>ART 292</td>
<td>3</td>
</tr>
<tr>
<td>VCT 212</td>
<td>4</td>
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<tr>
<td>VCT 213</td>
<td>4</td>
</tr>
<tr>
<td>Total Credits Required</td>
<td>87-95</td>
</tr>
</tbody>
</table>

Option C: Digital Photography/Video
The Digital Photography and Video option is designed for students with an interest in creating visual images using photographic and video equipment. Students study elements of design and composition as well as developing hands-on skill in camera operation, film development, television studio and field production, and electronic image manipulation. Students use visual images to communicate and interpret information. In addition, students learn new technologies in desktop publishing, computer graphics, multimedia communication and offset printing techniques.

OUTCOMES
Students who successfully complete this program will be able to:
1. Effectively use design elements and technical skill to create effective visual images.
2. Use a variety of still, video, television and digital camera equipment including small, medium and large format cameras.
3. Develop black and white photographs using a variety of basic, advanced and special techniques.
4. Create, select and organize design elements including letter forms, illustrations, typography and other graphic images in a structured environment.
5. Use computer software to create, use, scan and manipulate photographic images for use in printed materials as well as in video and multimedia productions.
6. Demonstrate knowledge of values associated with commercial, documentary and artistic photography.
7. Demonstrate knowledge of offset printing and print production including negative assembly, small press and bindery operations, automated systems, lithographic cameras, multicolor printing and special effects.

CONTINUED ON NEXT PAGE
### Option C: Digital Photography/Video (cont.)

**Digital Photography Specialization**
- ARTH 201, 202 or 203 Western Art History ................. 5
- ART 102 Intermediate B & W Photography ................. 3
- ART 103 Adv. Black and White Photography ............... 3
- ART 119 Studio/Color/Electronic Imaging ................. 3
- VCT 229 Advanced Photoshop ............................... 3
- ART 291 Documentary Photography ......................... 3
- ART 292 Color Photography ................................. 3
- VCT 222 Portfolio & Resume Production ....................... 2-4

**Digital Video Specialization**
- ARTH 201, 202 or 203 Western Art History ................. 5
- ART 102 Intermediate Photography .......................... 3
- ART 292 Color Photography ................................. 3
- CMU 263 Video Field Production .......................... 5
- VCT 264 Desktop Video Production I ....................... 3
- VCT 265 Desktop Video Production II ....................... 3
- VCT 222 Portfolio & Resume Production ....................... 2-4

**Total Credits Required** ..................................... 93-104

### Option D: Digital Interactive Media

The Digital Interactive Media Option is designed for students with a primary interest in creating, organizing and developing material for use in multimedia productions. Through this program students develop skills in photography, basic audio and television production, graphic and typographic design, computer technology, marketing theory and salesmanship. Students learn fundamental theory and current production values and develop their skills through hands-on experience.

#### OUTCOMES

Students who successfully complete this program will be able to:
1. Identify and use concept development procedures in visual communication problem solving.
2. Apply sound principles of esthetic and communication design to the selection and organization of the elements of multimedia presentation.
3. Use computer applications for the creation, acquisition, manipulation and presentation of the elements of multimedia production.
4. Identify and apply principles of audience analysis and marketing in the design and preparation of multimedia communication.
5. Explain and apply principles of hypermedia communication and scripting as well as the character of the electronic organization of information as it impacts multimedia design and production.

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### Computer Illustration/Animation Specialization

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ART 105 Drawing</td>
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<tr>
<td>VCT 102 Graphic Design II</td>
<td>5</td>
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<tr>
<td>ART 110 3D Design: A Foundation</td>
<td>4</td>
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<tr>
<td>VCT 134 3D Imaging &amp; Rendering I</td>
<td>3</td>
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<tr>
<td>VCT 135 3D Imaging &amp; Animation I</td>
<td>3</td>
</tr>
<tr>
<td>VCT 229 Advanced Photoshop</td>
<td>3</td>
</tr>
<tr>
<td>VCT 222 Portfolio &amp; Resume Production</td>
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</table>

**Total Credits Required** ..................................... 90-107

### Multidimensional Media Design and Authoring

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>VCT 102 Graphic Design II</td>
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<tr>
<td>VCT 139 Interface Design for New Media</td>
<td>3</td>
</tr>
<tr>
<td>VCT 207 Interactivity in New Media Design</td>
<td>3</td>
</tr>
<tr>
<td>VCT 208 Learning Based New Media Design</td>
<td>3</td>
</tr>
<tr>
<td>VCT 222 Portfolio &amp; Resume Production</td>
<td>2-4</td>
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</tbody>
</table>

### Web Design Specialization

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>VCT 102 Graphic Design II</td>
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<tr>
<td>CIS 240 Java Script &amp; Adv. HTML</td>
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<tr>
<td>VCT 138 Intro to Internet Web Design</td>
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<tr>
<td>VCT 283 Special Topic: Adv. Web Design</td>
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<tr>
<td>ENG 272 Writing for the Web</td>
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<tr>
<td>CIS 120 Database Appl. &amp; Concepts</td>
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<tr>
<td>VCT 222 Portfolio &amp; Resume Production</td>
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</table>

### Digital Audio Specialization

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>VCT 102 Graphic Design II</td>
<td>5</td>
</tr>
<tr>
<td>MusTc 220 First Year Audio Recording</td>
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</tr>
<tr>
<td>MusTc 226 Digital Audio Prod. 1</td>
<td>3</td>
</tr>
<tr>
<td>MusTc 227 Digital Audio Prod. 2</td>
<td>3</td>
</tr>
<tr>
<td>MusTc 228 Digital Audio Prod. 3</td>
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</tr>
<tr>
<td>MusTc 231 MIDI Sequencing 1</td>
<td>2</td>
</tr>
</tbody>
</table>

Choose:
- MusTc 232 MIDI to Sampling – or –
- MusTc 233 MIDI to Synthesis

**Total Credits Required** ..................................... 90-107
**Option E: Marketing***

The Marketing option is designed for students who want to pursue sales and marketing in the field of Visual Communication Technology. Students learn the basics of visual communication technology including design elements, photography, drawing, offset printing, graphic design and computer graphics. The program also covers fundamentals of business and marketing. The curriculum includes courses in business math, human relations, economics, salesmanship, advertising, public speaking and computer applications.

**OUTCOMES**

Students who successfully complete this program will be able to:

1. Identify the basic components of marketing strategies such as identification of market segments, consumer buying behavior, product planning, and promotion of goods and services.
2. Explain and apply advertising strategies for planning, producing and selecting the appropriate media.
3. Demonstrate good salesmanship: effectively interview clients, accurately gauge consumer needs, plan and deliver effective sales presentations, and build customer goodwill.
4. Apply basic art elements in the development of visual communication concepts.
5. Apply basic principles of graphic design in the selection and organization of images and text.
6. Understand mechanical aspects related to development of production-ready art, printing and multimedia.
7. Appropriately select production techniques for specific design projects.

**Marketing Specialization**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ArtH 201, 202 or 203 Western Art History</td>
<td>5</td>
</tr>
<tr>
<td>BusAd 100 Business: An Introduction to Analysis</td>
<td>5</td>
</tr>
<tr>
<td>BusAd 130 Salesmanship</td>
<td>5</td>
</tr>
<tr>
<td>BusAd 230 Advertising &amp; Sales Promotion</td>
<td>5</td>
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<tr>
<td>Econ 100 Principles of Economics</td>
<td>5</td>
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<tr>
<td>SpCmu 220 Intro to Public Speaking</td>
<td>5</td>
</tr>
</tbody>
</table>

Total Credits Required 99-107

* Students pursuing Marketing Option may select print media or multimedia choices for VCT Foundation Requirements — see advisor.

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**Certificate of Proficiency**

**Graphic/Print Production**

In the Graphic Print Production Certificate Program, students study the fundamentals of graphic design and offset printing including line photography, negative assembly, multi-color, small and large press, and bindery operations. Students gain hands-on experience in computer basics and software for desktop publishing, design, illustration and other visual communication technology. Students develop customer service skills and strengthen production, cost estimating, job planning skills to industry standards.

**OUTCOMES**

Students who successfully complete this program will be able to:

1. Effectively use concept development procedures in visual communication problem solving.
2. Create, select and organize design elements including letter forms, illustrations, typography and other graphic images.
3. Use computer software applications for desktop publishing, graphic design, illustration, electronic paste-up, and to scan or manipulate visual images.
4. Understand mechanical aspects related to development of camera-ready art, paste-up and printing.
5. Explain knowledge of offset printing and print production including negative assembly, small press and bindery operations, automated systems, lithographic cameras, multicolor and special effects.
6. Effectively communicate with clients to evaluate their printing needs, select appropriate materials and production processes, establish schedules and provide cost estimates.

**CONTINUED ON NEXT PAGE**
### Graphic/Print Production Certificate (cont.)

#### Certificate of Proficiency

**General Education Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 100 Analytical Reading and Writing</td>
<td>5</td>
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<tr>
<td>ENG 101 Composition and Expository Prose</td>
<td>5</td>
</tr>
<tr>
<td>BusAd 175 Business Math</td>
<td>5</td>
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<tr>
<td>CIS 105 Computer Applications</td>
<td>5</td>
</tr>
<tr>
<td>BusAd 112 Essentials of Human Relations</td>
<td>2</td>
</tr>
<tr>
<td>SpCmu 100 Communication in a Diverse Workplace</td>
<td>3</td>
</tr>
<tr>
<td>Iastu 102 Multicultural Issues</td>
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**Core Requirements**

<table>
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<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>VCT 101 Type and Typographic Design</td>
<td>5</td>
</tr>
<tr>
<td>VCT 111 Offset Printing Procedures I</td>
<td>4</td>
</tr>
<tr>
<td>VCT 112 Offset Printing Procedures II</td>
<td>4</td>
</tr>
<tr>
<td>VCT 122 Production Art II</td>
<td>4</td>
</tr>
<tr>
<td>VCT 123 Production Art III</td>
<td>4</td>
</tr>
<tr>
<td>VCT 124 Macintosh Computer Basics</td>
<td>2</td>
</tr>
<tr>
<td>VCT 125 Digital Image Construction</td>
<td>2</td>
</tr>
<tr>
<td>VCT 131 Computer Graphics: Desktop Publishing I</td>
<td>3</td>
</tr>
<tr>
<td>VCT 132 Computer Graphics: Design/Illustration</td>
<td>3</td>
</tr>
<tr>
<td>VCT 133 Computer Graphics: Desktop Publishing II</td>
<td>3</td>
</tr>
<tr>
<td>VCT 212 Offset/Graphic Production Internship</td>
<td>5</td>
</tr>
<tr>
<td>VCT 213 Offset/Graphic Production Portfolio</td>
<td>4</td>
</tr>
<tr>
<td>Total Credits Required</td>
<td>99-107</td>
</tr>
</tbody>
</table>

### Certificates of Completion

#### Art and Design Foundations

This program is identified for students needing an introduction to art and design as a complement to technical production. It is also one certificate in a series of short-term certificates, which contribute towards a one-year certificate of proficiency in Web Development.

**Outcomes**

This program prepares students for entry-level positions and course studies in information technology for visual design principles.

#### Certificate of Completion

**Program Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 100 Beginning Photography</td>
<td>5</td>
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<tr>
<td>ART 105 Drawing</td>
<td>4</td>
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<tr>
<td>ART 109 Design</td>
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<td>VCT 101 Graphic Design I</td>
<td>5</td>
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<tr>
<td>Total credits required</td>
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</tr>
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</table>

#### Computer Foundations

This program is identified for students needing an introduction to computers in the workplace. It is also the first certificate in a series of short-term certificates, which contribute towards a one-year certificate of proficiency in Web Development.

**Outcomes**

The program prepares students for entry-level positions and course studies in information technology.

#### Certificate of Completion

**Program Prerequisites**

Entry-level skills in word processing or CIS 102.

**Program Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 105 Computer Applications</td>
<td>5</td>
</tr>
<tr>
<td>CIS 140 The Internet and HTML</td>
<td>5</td>
</tr>
<tr>
<td>VCT 124 Basic Macintosh Systems Operations</td>
<td>2</td>
</tr>
<tr>
<td>VCT 125 Intro to Image Construction, Editing and Output</td>
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<td>Total credits required</td>
<td>14</td>
</tr>
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</table>
Computer Graphics Foundations
This program is identified for students requiring an integrated foundation of knowledge and practice in visual design principles, graphic and typographic design, computer graphic technologies and new imaging techniques. It is also one certificate in a series of short-term certificates which contribute towards a one-year certificate of proficiency in Web Development.

OUTCOMES
The program prepares students for entry-level positions and course studies for desktop publishing, graphic design, illustration, electronic paste-up and to scan or manipulate visual images.

CERTIFICATE OF COMPLETION

PROGRAM PREREQUISITES Cr.
Completion of or competency of VCT Computer Foundations as outlined below:

CIS 105 Computer Applications ................. 5
CIS 140 The Internet and HTML ................. 5
VCT 124 Basic Macintosh Systems Operations ....2
VCT 125 Intro to Image Construction, Editing and Output 2

PROGRAM REQUIREMENTS Cr.
NOTE: These classes should not be completed in one quarter. Please see your advisor.

VCT 131 Computer Graphics: Desktop Publishing .... 3
VCT 132 Computer Graphics: Design/Illustration .... 3
VCT 129 Intro to Photoshop ....................... 3
Mus'Tc 105 Rights and Methods in Multimedia ........ 2

Total credits required ......................... 11

Print-on-Demand Training/Offset Printing
Students learn about digital printing technology and print-on-demand services. Production techniques to create visual output on the Xerox Docutech and Digipath productions systems are covered. Course discusses digital interfacing and file preparation, copy acquisition, prepress and printing paper terminology. Laboratory emphasizes printing, assembly and finishing procedures used in the print-on-demand industry. Lecture, seminar, and hands-on experience are included. Entry-level operator skills are emphasized. The first five weeks of the quarter covers theory, and the second five weeks of the quarter includes an internship.

OUTCOMES
Students may complete one quarter of study and be certified through Xerox. Students may continue study to complete a one-year Certificate of Proficiency.

CERTIFICATE OF COMPLETION

PROGRAM PREREQUISITES
Entry-level skills in word processing or CIS 102. Completion of CIS 105 is recommended.

PROGRAM REQUIREMENTS Cr.

VCT 116 On Demand Print IV ..................... 4
VCT 111 Offset Printing Procedures I .......... 4
VCT 212 Internship in Visual Communications .... 2-5

Total credits required ......................... 11
Web Design Introduction
This program is identified for students requiring an integrated foundation of knowledge and practice in visual design principles, graphic and typographic design, computer graphic technologies and new imaging techniques for the Internet. It is also one certificate in a series of short-term certificates which contribute towards a one-year certificate of proficiency in Web Development.

OUTCOMES
The program prepares students for entry-level positions and course studies for graphic design, illustration, electronic presentation and to scan or manipulate visual images for traditional and new media.

CERTIFICATE OF COMPLETION

PROGRAM PREREQUISITES Cr.
Completion of competency in Certificates in VCT Computer Foundations and VCT Computer Graphics Foundation as outlined below:

CIS 105 Computer Applications .......................... 5
CIS 140 The Internet and HTML .......................... 5
VCT 124 Basic Macintosh Systems Operations .............. 2
VCT 125 Intro to Image Construction, Editing and Output 2
VCT 129 Intro to Photoshop ................................ 3
MusTc 105 Rights and Methods in Multimedia ........... 2

PROGRAM REQUIREMENTS Cr.
NOTE: These classes should not be completed in one quarter, please see advisor.

ART 115 Introduction to Design/Authoring ............... 3
VCT 101 Graphic Design I .................................. 5
ART 109 Design ............................................. 4
VCT 138 Introduction to Internet Web Design ............. 3
CIS 240 JavaScript and Advanced HTML .................. 5

Total credits required .................. 20

Web Development with emphasis in Web Design
This program is identified for students requiring an integrated foundation of knowledge and practice in visual design principles, graphic and typographic design, computer graphic technologies and new imaging techniques for the Internet.

OUTCOMES
This is the fourth level of certificates in a series and prepares students for entry-level positions and course studies for graphic design, illustration, electronic presentation and to scan or manipulate visual images for traditional and new media.

CERTIFICATE OF COMPLETION

PROGRAM PREREQUISITES Cr.
Proficiency Certificate requires the completion or competency in the Certificates in VCT Computer Foundations and VCT Computer Graphics Foundation, VCT Art and Design Foundation and VCT Web Design Introduction as outlined by individual classes below:

CIS 105 Computer Applications .......................... 5
CIS 140 The Internet and HTML .......................... 5
VCT 124 Basic Macintosh Systems Operations .............. 2
VCT 125 Intro to Image Construction, Editing and Output 2
VCT 129 Intro to Photoshop ................................ 3
MusTc 105 Rights and Methods in Multimedia ........... 2
ART 100 Beginning Photography ......................... 5
ART 105 Drawing .......................................... 4
ART 109 Design ............................................. 4
VCT 101 Graphic Design I .................................. 5
ART 115 Introduction to Design/Authoring ............... 3
VCT 138 Introduction to Internet Web Design ............. 3
CIS 240 JavaScript and Advanced HTML .................. 5

PROGRAM REQUIREMENTS Cr.

VCT 283 Advanced Web Design .......................... 3
ENG 272 Writing for the Web ............................. 5
BusAd 120 Principles of Marketing – or – BusAd 224 Marketing.com ............................. 5
BusAd 110 Human Relations in Business – or – BusAd 112 Essentials of Human Relations .......... 2
BusTc 252 Professional Communications – or – ENG 101 Composition and Expository Prose .......... 5

Total credits required .................. 20-23
Shoreline Community College offers a full range of courses to meet students’ needs, including developmental studies, professional-technical preparation, lower-division transfer, and enrichment. These courses are described in the following section, listed in order by course number. The total credit hours for each course are listed in parentheses after the course title.

Many course descriptions include essential information such as prerequisites, grading options, and entry requirements. When choosing your courses, be sure to consider this information; it is provided to help you succeed.

The college constantly revises and updates its curriculum and may add new courses or make changes in existing course requirements during the span of this catalog. Please refer to the Quarterly Class Schedule, in print or online, for the most up-to-date course information.

Interdisciplinary Studies Programs

Connections, discovery, cross-pollination of ideas — that’s what takes place in an Interdisciplinary Studies Program. These programs are simply “packaged” courses that either combine or link together two or more classes around an issue in society or a common theme. By integrating subjects this way, the Interdisciplinary Studies Program can lead students to a deeper understanding of each subject. They can enhance a student’s skills in problem-solving — an essential ability for the 21st-century workforce.

W (Writing) Courses

In certain courses, writing in a specific discipline will be emphasized along with the subject matter associated with the title. A “W” after the course number means that writing is an integral part of the course. Writing instruction and feedback are provided. Writing grades enter into the determination of the grade for the course.

ASSET placement at the English 101 level or completion of necessary developmental English or ESL courses in preparation for English 101 is required for registration in a “W” course. The Quarterly Class Schedule identifies the “W” courses offered.
ACCOUNTING 101
Practical Accounting I (5)
Designed to provide practical applications of accounting. Course covers the accounting cycle, accounting for merchandising operations and special purpose journals. Course includes computerized practice sets. Mandatory decimal grading.

ACCOUNTING 102
Practical Accounting II (5)
A continuation of Accounting 101. The course includes accounting for corporations, partnerships, investors, depreciation and liabilities. Coursework includes computerized practice sets. Prerequisites: Accounting 101. Mandatory decimal grading.

ACCOUNTING 103
Practical Accounting III (5)
This course is a practical application of methods for aiding managers in making business decisions. It covers job order costing, process costing, cost behavior, standard costs, cost-volume-profit analysis, contribution approach to costing, relevant costs for decision making, profit planning and capital budgeting. Course includes computerized practice sets. Prerequisites: Accounting 101. Mandatory decimal grading.

ACCOUNTING 104
Payroll Accounting (5)
A course designed to provide information and study regarding benefits, employee and employer taxes, payroll deductions, and employment accounting records incidental to the social security and other payroll tax programs. Computer-assisted practice problems are required. Prerequisites: Accounting 101 and math skills equivalent to or higher than Math 70 or BusAd 175, or permission of instructor based on evaluation of student's educational and work experience. Mandatory decimal grading.

ACCOUNTING 170
Federal Income Tax: Individuals/Small Business (5)
This course presents the fundamentals of federal income taxation as it applies to individuals and sole proprietorships. This course will take a practical approach through preparation of individual tax returns including Schedules A, B, C, D. Mandatory decimal grading.

ACCOUNTING 171
Internship-VITA (3)
Students will interview clients and using IRS software complete personal income tax forms.

ACCOUNTING 172
VITA Internship II (1)
To establish the continuation portion of the VITA, Volunteer Income Tax Assistance, program for accounting students to co-inside with the federal income tax deadline.

ACCOUNTING 206
Computer Accounting (5)
Introduction to PC based computerized accounting using Quickbooks or Peachtree software (student's choice)designed for small business applications. Topics include setup of an accounting system, sales and purchasing, cash receipts and disbursements, adjusting, closing and financial statement generation. Prerequisites: CIS 105 and ACCTG 101. Mandatory decimal grading.

ACCOUNTING 208
Not-for-Profit and Governmental Accounting (5)
A framework for accounting and financial reporting for not-for-profit organizations and state and local governments. Topics include general and special fund accounting for state and local governments, hospitals, charities, foundations, colleges, and universities. Prerequisites: ACCTG 101 and 102 or equivalents. Mandatory decimal grading.

ACCOUNTING 210
Financial Accounting (5)
Basic principles, theories and procedures for preparing financial statements; analysis and presentation of financial information, integrated with computer applications. Mandatory decimal grading.

ACCOUNTING 220
Financial Accounting II (5)
Accounting for short- and long-term assets and liabilities, corporations, statement of cash flows, financial statement analysis, and generally accepted accounting principles; integrated with computer applications. Prerequisites: Accounting 210. Mandatory decimal grading.

ACCOUNTING 230
Managerial Accounting (5)
An introduction to job-, process- and activity-based costing, capital budgets, standard costs, cost-volume-profit analysis, and analysis of accounting information for managerial decision-making; integrated with computer applications. Prerequisites: Accounting 210. Mandatory decimal grading.

ACCOUNTING 281, 282, 283, 284, 285
Special Topics (1,2,3,4,5)

ACCOUNTING 297, 298, 299
Special Project (1,2,3)
Special tutorial project. Prerequisite: Instructor permission based on evaluation of student’s education and work experience. Student option grading.

ADULT BASIC EDUCATION 005
Basic Life Skills (5)
Prepares developmentally-challenged students to live and work more independently by studying personal/home management, communication, computation, reading, writing and life skills. Prerequisite: This course is for developmentally-challenged students. Asset not required, but a combined reading-writing score between 0-35 places a student in this class. Recommendation of instructor or advisor. Mandatory P/NC grading. Credits depend upon student entry into the program.

ADULT BASIC EDUCATION 022
Reading and Writing for Life 2 (5)
Students will read with understanding by determining the reading purpose, selecting appropriate reading strategies, analyzing comprehension, integrating information and prior knowledge. Students will convey ideas in writing for family needs, job situations, or community roles. Mandatory P/NC grading. Credits depend upon student entry into the program.

ADULT BASIC EDUCATION 023
Math Skills for Life 2 (5)
Students will learn the four basic math operations using whole numbers and will identify and use all basic math symbols. They will use computational tasks related to life roles i.e. understanding payroll stubs. Mandatory P/NC grading. Credits depend upon student entry into the program.

ADULT BASIC EDUCATION 032
Reading and Writing for Life 3 (5)
Students will read with understanding by determining reading purpose, selecting appropriate reading strategies, analyzing information, and integrating information with prior knowledge. Students will write several connected paragraphs with correct mechanics, usage, and varied sentence structure. Mandatory P/NC grading. Credits depend upon student entry into the program.

ADULT BASIC EDUCATION 033
Math Skills for Life 3 (5)
Students perform all four basic math operations with whole numbers and fractions, choose correct math operations to solve story problems, and convert fractions to decimals. Students apply these skills to authentic materials, e.g. balancing a budget. Mandatory P/NC grading. Credits depend upon student entry into the program.

ADULT BASIC EDUCATION 042
Reading and Writing for Life 4 (5)
Students read for understanding by determining purpose, selecting strategies, monitoring comprehension, analyzing information, and integrating it with previous knowledge in subject specific areas. Students write connected paragraphs in essay format while using academic English conventions. Mandatory P/NC grading. Credits depend upon student entry into the program.

ADULT BASIC EDUCATION 043
Math Skills for Life 4 (5)
Students apply, in various situations, mathematical concepts and procedures to estimate, solve problems, and/or carry out tasks involving whole numbers, decimals, fractions, ratio and proportion, percents, measurements, and tables and graphs. Mandatory P/NC grading. Credits depend upon student entry into the program.

ADULT BASIC EDUCATION 055
Workplace Basics I (10)
Students continue to develop literacy skills in reading, writing, speaking/listening, and math through the content of workplace basics. Students gain skills specifically required to re-enter, transition or enhance employment opportunities. Included in the coursework are career planning, goal-setting, job search, and personal/interpersonal skills needed to help the student be successful in the workplace. Prerequisites: Minimum placement at ESL level 2. Mandatory P/NC grading. Credits depend upon student entry into the program.

ADULT BASIC EDUCATION 081, 082, 083, 084, 085
Special Topics (1,2,3,4,5)
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<tr>
<th>COURSE DESCRIPTIONS</th>
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<tr>
<td><strong>AMERICAN SIGN LANGUAGE 101</strong>&lt;br&gt;<strong>American Sign Language I (5)</strong>&lt;br&gt; American Sign Language (ASL) is the study of the language. Students learn visual/gestural communication, basic information related to deaf culture, expressive and receptive skills, and work on comprehension and grammatical structure. Student option grading.</td>
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<tr>
<td><strong>ANTHROPOLOGY 203</strong>&lt;br&gt;<strong>Introduction to Linguistic Anthropology (5)</strong>&lt;br&gt; The study of language in its sociocultural setting, relating language structure and language evolution to human cognition and social behavior. The linguistic database will be both historical and cross-cultural. Prerequisite: ENG 101 or equivalent AASET test score recommended. Student option grading.</td>
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<td><strong>ANTHROPOLOGY 204</strong>&lt;br&gt;<strong>Principles of Archeology (5)</strong>&lt;br&gt; The principles and methods of archeology are presented during the examination of the archaeological record from the earliest human groups to civilization. The techniques of field excavation, dating of archaeological remains and the reconstruction of past societies are also discussed. Prerequisite: ENG 101 or equivalent AASET test score recommended. Student option grading.</td>
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<td><strong>ANTHROPOLOGY 297, 298, 299</strong>&lt;br&gt;<strong>Special Project (1,2,3)</strong>&lt;br&gt; Special tutorial projects in specific area of Anthropology. By arrangement with instructor. Prerequisite: Instructor permission, based on evaluation of students’ educational and work experience. Student option grading.</td>
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<td><strong>ART 100</strong>&lt;br&gt;<strong>Beginning Photography (5)</strong>&lt;br&gt; Course concentrates on the basics of 35mm camera operation, B&amp;W film development and lab procedures. Introduction to the language of visual dialog and how the photographer can provide a means of interpretation for the viewer. Assignments will be technical and visual in nature. Some cameras available for check-out. Students purchase film and additional supplies. Student option grading.</td>
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<td><strong>ART 102</strong>&lt;br&gt;<strong>Intermediate Black and White Photography (3)</strong>&lt;br&gt; Course emphasizes gaining creative control through techniques such as the zone system, print toning, handcoloring, solarization and electronic imaging using Photoshop. Medium format camera introduced. Print quality stressed. Assignments are technical and visual in nature. Some cameras available for check-out. Students purchase film and supplies. Prerequisite: Art 100. Student option grading.</td>
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<tr>
<td><strong>ART 103</strong>&lt;br&gt;<strong>Advanced Black and White Photography (3)</strong>&lt;br&gt; Course introduces the photographer to alternate techniques of photographic imagery. Gum Bichromate, Liquid Light, Kodolith, digital imaging through Photoshop. Large format cameras stressed. Portfolio required as quarter project. Assignments are visual and technical in nature. Some cameras available for check-out. Students purchase film and supplies. Prerequisite: Art 100, 102 or instructor permission. Student option grading.</td>
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<tr>
<td><strong>ART 105</strong>&lt;br&gt;<strong>Drawing (4)</strong>&lt;br&gt; First-year drawing series, beginning course. No academic experience required. Introduction to organizing and developing the drawing surface. Pencil and charcoal are the major tools; liquid and color media are also introduced. Student option grading.</td>
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<td><strong>ART 106</strong>&lt;br&gt;<strong>Drawing (4)</strong>&lt;br&gt; Continuation of first-year drawing series. Builds on the understanding and skills acquired in Art 105. Composition, light and dark, and perspective. Media include pencil, charcoal, liquid and color. Prerequisite: Art 105. Student option grading.</td>
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<td><strong>ART 107</strong>&lt;br&gt;<strong>Design (4)</strong>&lt;br&gt; Third quarter of first-year drawing series stresses growth in control and creativity. Areas of light and shade, composition, and perspective are emphasized. Prerequisite: Art 106. Student option grading.</td>
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<td><strong>ART 109</strong>&lt;br&gt;<strong>Design (4)</strong>&lt;br&gt; Beginning studio work in 2-dimensional art structure. Introduction to concepts of line, shape, color, value, texture, form and space. Student option grading.</td>
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<td><strong>ART 110</strong>&lt;br&gt;<strong>3-Dimensional Design: A Foundation Course (4)</strong>&lt;br&gt; Design fundamentals for 3-dimensional space are the focus of Art 110. Lecture, demonstration, research, readings and studio work are integrated to develop problem-solving skills. Projects are both functional and non-functional in nature. Prerequisites: Art 109 or Instructor permission. Student option grading.</td>
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<td><strong>ART 111/111W</strong>&lt;br&gt;<strong>Design: Light and Color (5)</strong>&lt;br&gt; Overview of the physics of light as applied to art: transmission, reflection, refraction, diffraction, diffusion, polarization, transduction, additive/subtractive color theories and basics of 2D/3D design. Students create art products and write abstracts. Dual listed as Humanities 116W. Student option grading.</td>
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<td><strong>ART 115</strong>&lt;br&gt;<strong>Introduction to New Media Design and Authoring (3)</strong>&lt;br&gt; This entry level course gives an overview of planning, design and production of multi-dimensional communications projects. The course will give an understanding of the methods used in merging media for output to CD, DVD, VHS tape, and web, and provides an understanding of the integration of authoring skills and talents. Prerequisites: VCT 124/125 or instructor permission. Mandatory decimal grading.</td>
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<td><strong>ART 119</strong>&lt;br&gt;<strong>Studio/Color/Electronic Imaging (3)</strong>&lt;br&gt; Introduction to studio lighting with emphasis on the medium and large format cameras and digital imaging through Photoshop. Introduction to the use of color as an intricate element of design and interpretive presentation. Student option grading.</td>
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<td><strong>ART 120</strong>&lt;br&gt;<strong>Commercial Photography (3)</strong>&lt;br&gt; Application of photographic techniques to solve problems in visual presentations. Advertising, commercial and industrial still photography. Chemistry provided. Students supply film, paper, supplies. Dual listed as VCT 120. Prerequisite: Art 102 or equivalent with instructor permission. Student option grading.</td>
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**ART 129**
*Appreciation of Design (2)*
Illustrated lecture/discussions on design fundamentals. Topics include design in paintings, pottery, textiles, architecture, consumer goods. Choice of written or studio project. For non-majors as well as majors, and all first-year students in Art. Student option grading.

**ART 201**
*Ceramic Art (4)*
Beginning course in the creation and appreciation of the ceramic vessel. Focus is on hand-building and wheel throwing processes as well as glazes and glazing. Student option grading.

**ART 202**
*Ceramic Art (4)*
Second quarter in Ceramic Art. Building on processes, skills and understandings acquired in Art 201. A greater emphasis on individual development, creativity and problem solving is fostered. Prerequisite: Art 201 or equivalent with instructor permission. Student option grading.

**ART 203**
*Ceramic Art (4)*
Third quarter of study in Ceramic Art. Building on processes, skills and understandings acquired in previous two quarters. Emphasis is on individual development, creativity and problem solving in the design and creation of ceramic forms. Prerequisite: Art 202 or equivalent with instructor permission. Student option grading.

**ART 205**
*Type and Typographic Design (5)*
Concept development procedures in visual communication problem solving involving letter forms, illustrative material, typography and general graphic design. Basic principles of selection, organization, and production techniques are introduced. Dual listed as VCT 101. Prerequisite: Art 109 and Art 110, or VCT major, or equivalent with instructor permission. Student option grading.

**ART 206**
*Advertising Design (5)*
Continued study of concept development procedures in visual communication problem solving including letter forms, illustrative material, typography and general graphic design. Stresses principles of selection, organization, production techniques and introduction to mechanical art requirements. Dual listed as VCT 102. Prerequisite: Art 205 or equivalent with instructor permission. Student option grading.

**ART 207 (5)**
*Graphic Design: Advertising/Illustration*
Procedures in visual communication problem solving. Topics include letter forms, illustrative matter, market analysis and general graphics. Principles of selection, organization and production are stressed. Course is demanding in both time and quality of product. Dual listed as VCT 103. Prerequisite: Art 206 or VCT 102 or instructor’s permission. Student option grading.

**ART 253**
*Design and Materials (4)*
Wood and plaster as factors of design. Class experimentation and research. Student option grading.

**ART 254**
*Design and Materials (4)*
Metal, glass and plastics as factors of design. Class experimentation and research. Student option grading.

**ART 255**
*Design and Materials (4)*
Textiles as a factor of design. Class experimentation and research. Student option grading.

**ART 256**
*Painting (4)*
A foundation course emphasizing color, composition and the properties of one of these painting media: oil, acrylic or water color. Student option grading.

**ART 257**
*Painting (4)*
Continuation of studio activities of Art 256 with emphasis on color, composition and the properties of one of these painting media: oil, acrylic or water color. Prerequisite: Art 256 or instructor permission. Student option grading.

**ART 258**
*Painting (4)*
Continuation of studio activities of Art 257. A greater emphasis upon individual development and creativity is fostered. Prerequisite: Art 257 or instructor permission. Student option grading.

**ART 265**
*Intermediate Drawing (4)*
For students who have completed basic drawing series Art 105, 106, 107 and who want to continue to draw with supervision and criticism. May be taken up to three times. Series includes still life, landscape, figure, and fantasy drawings. Prerequisite: Art 107. Student option grading.

**ART 272**
*Sculture (4)*
Beginning course. Work in clay, plaster, wood. Student option grading.

**ART 273**
*Sculture (4)*
Second-quarter in basic sculpture series. Continued work in clay, plaster, wood. Prerequisite: Art 272. Student option grading.

**ART 274**
*Sculture (4)*
Third quarter in basic sculpture series. Work in clay, plaster, wood, metal. Prerequisite: Art 273. Student option grading.

**ART 281, 284, 285**
*Special Topics (1,4,5)*

**ART 291**
*Documentary Photography (3)*
Course presents theory and study of the photograph to interpret, comment on or record the events of humanity. Visual language of sequencing and structure are explored. Scanning and Photoshop will be used. Some cameras available for check-out. Students purchase film and supplies. Prerequisite: Art 100, 102, or instructor approval. Student option grading. Dual listed as CMU 291.

**ART 292**
*Color Photography (3)*
Beginning course in basic color photography. Experience in materials, techniques, processing, production. Production of high quality prints and transparencies suitable for exhibition. Digital imaging, scanning, manipulation with Photoshop—chemistry provided. Students provide paper, film and supplies. Prerequisite: Art 102 or equivalent with instructor permission. Student option grading.

**ART 297, 298, 299**
*Special Project (1,2,3)*
Fifteen-hour project proposed by the student and accepted by the art instructor who will supervise the project. Student option grading. Student must have instructor’s permission.

**ART HISTORY 201/201W**
*Survey of Western Art (5)*
Students study Western art and architecture from prehistoric through to the Roman Empire and the Early Christian/Byzantine periods. Emphasis is on how art forms have been influenced by significant events, beliefs, and customs. Students evaluate contributions of the arts of specific cultures. Prerequisites: Completion of English 100 or placement in English 101. Student option grading.

**ART HISTORY 202/202W**
*Survey of Western Art, Medieval/Baroque (5)*
Students study Western art and architecture from the Early Medieval period to the 17th century Baroque/Rococo period in Europe. They learn art historical methodologies to evaluate how art and architecture have been influenced by significant events, beliefs, and traditions. Prerequisites: Completion of English 100 or placement in English 101. Student option grading.

**ART HISTORY 203/203W**
*Survey of Western Art, Modern/Post Modern (5)*
Students study Western art and architecture from the late 18th century to the 21st century, the works of major artists, plus the development of new media in the post modern world. Topics range from 18th century Neoclassicism to Pop, Performance, Earthworks and Installations. Prerequisites: Completion of English 100 or placement in English 101. Student option grading.
ASTRONOMY 101
Survey of Astronomy (5)
How did the planets form? Could other planets support life? Why do some stars explode violently? Will our sun be one of them? How big is the universe? Is time travel possible? Learn the answers and learn to use a telescope. Prerequisites: Math 099. Student option grading.

ASTRONOMY 297, 298, 299
Special Projects (1,2,3)

AUTO TECHNOLOGY 101
Dealer and Manufacturer Policy and Procedure (5)
This course examines the view points of both the dealership and the manufacturer in the application of general business practices. Also addressed are issues relating to governmental regulated concerns in the automobile service industry. Mandatory decimal grading.

AUTO TECHNOLOGY 104
Daily Departmental Operations (5)
Students are introduced to management's position on the concerns of day-to-day service operations, from employee attendance to housekeeping. A review of different telephone communication and computer skills, as they apply to the service operation, will be discussed and covered. Mandatory decimal grading.

AUTO TECHNOLOGY 105
Physical Facility Management (5)
This course examines concerns toward the most efficient use of dealership facilities and equipment. Analysis of "the best use of space." Traffic flow, both people and vehicles, parking and storage, tool care and inventory plus planning for the future in the shop area. Mandatory decimal grading.

AUTO TECHNOLOGY 106
Merchandising and Marketing (5)
Students will analyze merchandizing requirements and marketing methods, identify needs, formulate an advertising plan, study implementing a plan and evaluating results. Mandatory decimal grading.

AUTO TECHNOLOGY 107
Service Department Business Management (5)
This course studies the relationships of the Service, Business, and Parts Departments within the dealership and addresses the uniqueness of each one. Financial account concerns as well as general business practices in the industry are viewed from a real-world position.

AUTO TECHNOLOGY 109
Personal Maintenance (5)
This course addresses the issues of keeping oneself together in the retail service industry. Explored are communication skills, decision making and problem solving, the art of delegation, plus maintaining health and well being.

AUTO TECHNOLOGY 166
Electrical Systems (9)
Theory, diagnosis, testing, repairing or replacing automotive electrical system components. Multiplexed and microprocessor-controlled systems included. Emphasis on reading wiring diagrams and using electrical measuring devices and scan tools. Permission. Mandatory decimal grading.

AUTO TECHNOLOGY 167
Automatic Transmission/Transaxles (9)
Transmission/transaxle mechanical, hydraulic, and electrical operation. Service, overhaul, mechanical/electrical diagnosis procedures will be covered. Use and application of diagnostic equipment. Permission. Mandatory decimal grading.

AUTO TECHNOLOGY 168
Heating and Air Conditioning (9)
The theory, operation, diagnosis, and service practices of manual and automatic heating, ventilation and air conditioning systems. Identification, recovery, recycling, and recharging of both R12 and R134. Heating, ventilation, air condition (HVAC) controls and diagnosis will also be covered. Use and application of diagnostic equipment. Recovery certification will be offered. Permission. Mandatory decimal grading.

AUTO TECHNOLOGY 250
Cooperative Dealership Experience I (20)
Students enrolled in the factory-specific program will work at a new car-truck dealership as an apprentice technician. This is a cooperative experience involving the student, dealership, manufacturer, and Shoreline Community College to reinforce and apply skills learned during previous quarters. Permission. Mandatory decimal grading.

AUTO TECHNOLOGY 251
Cooperative Dealership Experience II (20)
Students enrolled in the factory-specific program will work at a new car-truck dealership as an apprentice technician. This is a cooperative experience involving the student, dealership, manufacturer, and Shoreline Community College to reinforce and apply skills learned during previous quarters. Prerequisite: AUTO 250. Permission. Mandatory decimal grading. Dealership sponsor required.

AUTO TECHNOLOGY 252
Cooperative Dealership Experience III (20)
Students enrolled in the factory-specific program will work at a new car-truck dealership as an apprentice technician. This is a cooperative experience involving the student, dealership, manufacturer, and Shoreline Community College to reinforce and apply skills learned during previous quarters. Prerequisite: AUTO T 251. Permission. Mandatory decimal grading. Dealership sponsor required.

AUTO TECHNOLOGY 298
Special Project (2)
A course for students in biological subject matter areas where assistance may be needed. No appointments are necessary. Come in when you need help. An instructor is available. Mandatory P/0.0 or P/Z grading.

Survey of Biological Concepts (5)

A lab course intended for non-majors and science majors without previous biology. Basic ideas essential to the understanding of biology in checking the scientific methods, evolution and processes common to life. Prerequisites: Placement into English 101; or Instructor permission. Student option grading.

BIOLOGICAL SCIENCE 102

Biology 102 (5)

A survey of the kingdoms of living things. An introduction to the diversity of living things, their special adaptations, ecological relationships and evolutionary origin. Laboratory class. Prerequisites: Placement into English 101; or Instructor permission. Student option grading.

Introduction to Human Anatomy and Physiology (5)

Introduction to the systems of the human body. Structures and functions of these systems will be stressed along with unifying principles such as nutrition, sex, genetics, environment, exercise and the aging process. Student option grading.

BIOLOGICAL SCIENCE 110

Biotechnology: Science, Applications and Implications (3)

This overview class will cover current topics in Biotechnology. It will include basic elements of the science, current and expected capabilities and products, the structure of the industry, impact on society and the health care field and social questions. Prerequisites: High School Biology, Chemistry and English suggested. Placement at or above Eng 100 level required Student option grading.

BIOLOGICAL SCIENCE 123/123W

Northwest Flora (5)

Introduction to plant classification, field study and laboratory identification of the common plant families of the Pacific Northwest. Student option grading.

An Introduction to Horticulture (5)

An introduction to cultivation of common house and garden plants. Cultivation, land- scaping, use of fertilizers and green house management selection and care of plant material for the home and home garden. Student option grading.

BIOLOGICAL SCIENCE 140

Environmental Concepts and Problems (5)

Problems created by man’s interaction with the basic earth-ecosystem. Explores attitudes and actions necessary to restore and maintain a healthy man-environment relationship. Student option grading.

BIOLOGICAL SCIENCE 143

Marine Ecology (5)

A study of local marine organisms and the environments in which they live. Laboratory and field work are designed to implement this study. Local field trips are included. BioSc 143 and BioSc 243 are taught concurrently. BioSc 143 is designed for non-science majors. Student option grading.

BIOLOGICAL SCIENCE 150W

Epidemics and Culture (5)

Epidemic disease from multiple perspectives: scientific, political, economic and religious and artistic. Individual and cultural responses to epidemics using the Plague of the Middle Ages as a paradigm from which other historical and contemporary epidemics may be studied. Prerequisites: English 101. Student option grading.

BIOLOGICAL SCIENCE 201

Principles of Biology (5)

Examines the cell as the basic unit of life. Topics covered include: Cellular activities, reproduction, development, as well as the genetics of individuals and populations. For life science majors and allied health students. High school chemistry or Chem 101 recommended. Laboratory. Student option grading.

BIOLOGICAL SCIENCE 202

General Zoology (5)

A survey of animals involving a study of the identification structure and function. Evolution, embryology, and ecology of the kingdom is included. The emphasis is on the phylogenetic relationships among animals and the ecological relationships within the kingdom. Laboratory class. Prerequisites: BioSc 201. Student option grading.

BIOLOGICAL SCIENCE 203

Introduction to Botany (5)

Survey of major groups of kingdoms: fungi, protista and plantae. Study of group’s morphology, physiology and reproductive patterns and the theories of evolutionary relationships. Development of ecosystems, succession through climax vegetation and features of the major terrestrial biomes. Laboratory class. Prerequisite: BioSc 201 or permission.

BIOLOGICAL SCIENCE 210

Human Anatomy (5)

Understanding the structure of the human body through the study of the various body systems. Intensive laboratory dissection and lectures are utilized. Laboratory class. Prerequisite: BioSc 201. Student option grading.

BIOLOGICAL SCIENCE 211

Human Physiology (5)

A systems approach to the study of the functions of the human body. Includes the nervous, muscular, circulatory, endocrine, respiratory, digestive and urogenital systems. Laboratory class. Prerequisite: BioSc 201 and BioSc 210 or permission. Student option grading.

BIOLOGICAL SCIENCE 215

Topics in Microbiology (5)

Survey of microorganisms with focus on health- care applications. Structure, classification, metabolism and genetics of bacteria and viruses are main themes. Emphasis on disease process, microbial control and immunology. Laboratory techniques include isolation and identification of bacteria. Prerequisites: BioSc 201 required. Chemistry 101 recommended. Student option grading.

BIOLOGICAL SCIENCE 243

Marine Ecology for Technicians (5)

A study of local marine organisms and the environments in which they live. Laboratory and field work are designed to implement this study. Local field trips are included. BioSc 143 and BioSc 243 are taught concurrently. Prerequisite: BioSc 201. Student option grading.

BIOLOGICAL SCIENCE 245

Solution and Media Preparation (4)

Preparation of media and solutions commonly used in biotechnology laboratories. Use of basic lab tools such as pipettors, pH meters, scales, centrifuges, autoclaves and spectrophotometers. MSDS, calculations, lab safety and lab note- books. Prerequisites: High school Biology and Chemistry. Student option grading.

BIOLOGICAL SCIENCE 250

Molecular Biology (3)

This course will focus on DNA replication and translational, and regulatory mechanisms in prokaryotic and eukaryotic systems. Prerequisite: BioSc 201 and BIOSC 245. Recommended Chem 220. Student option grading.

BIOLOGICAL SCIENCE 251

Molecular Biology Laboratory (3)

Laboratory emphasis will be on molecular bio- logical techniques utilized in modern research laboratories. Techniques include gene cloning, DNA and protein electrophoresis, protein purification and enzymatic and immunological assays. Prerequisite: BioSc 201 and BIOSC 245. Chem 220 recommended. Student option grading.

BIOLOGICAL SCIENCE 260

Tissue Culture and Staining (4)

Introductory course in the theory and concepts of animal cell and tissue culturing. Course will teach the fundamentals in tissue culture tech- niques, subculturing and maintenance of cell lines. Skills also include: cell viability testing, cell counting, feeding of cell lines and quality control. Aseptic technique is emphasized, along with media preparation. Prerequisite: BioSc 201. Student option grading.

BIOLOGICAL SCIENCE 265

Recombinant DNA Techniques (4)

Basic course in the theory and concepts of recombinant DNA techniques. Course will focus on the methods of gene cloning with bacteriophage and plasmid vectors, growth and maintenance of E. coli, extraction and purifica- tion of DNA, polymerase chain reaction, southern blots, probe preparation, hybridiza- tion methods, and DNA sequencing. The lab will focus on “hands on” techniques. Prerequisite: BioSc 250 or permission. Student option grading.
**BILOGICAL SCIENCE 270**  
Immunology (5)  
Concepts and laboratory procedures necessary to understand basic immunology which includes antigen and antibody structure and function, the genetic basis of antibody production, humoral and cellular based immunity, role of the major histocompatibility complex, control mechanisms, autoimmunity, innate and acquired immunity. Laboratory includes immunoassays using dot blots and ELISA (Enzyme Linked Immunosorbent Assay) and immunoaffinity purification. Prerequisite: BioSc 250 or permission. Student option grading.

**BILOGICAL SCIENCE 275**  
Biotechnology Techniques (3)  
A laboratory course which will focus on the techniques currently prevalent in the manufacturing and production aspect of the biotechnological industry. Course will focus on the isolation and purification of proteins. This will include cation-anion exchange chromatography, selective binding using hydrophobic interactions, ultrafiltration, isoelectric focusing and high performance liquid chromatography (HPLC). There will also be exposure to good manufacturing practices (GMP), quality control procedures (QC), biological potency assays, radiotracer use and handling, FDA regulations and clinical trials. Prerequisite: BioSc 250 or permission. Student option grading.

**BILOGICAL SCIENCE 290**  
Internship (2)  
This course is a cooperative education experience that provides students with work experience in the biotechnology industry. Prerequisite: BioSc 201 plus completion of at least 10 additional credits toward the AAAS degree or Certificate of Proficiency in the Biotechnology Laboratory Assistant Program. Mandatory P/NC grading. Instructor permission required.

**BILOGICAL SCIENCE 295**  
Seminar in Biotechnology (1)  
Will include speakers from the biotechnology industry, field trips to biotechnology laboratories, current topics such as radiation safety, quality control, resume writing and interviewing and discussion and presentation of journal articles. Prerequisite: BioSc 201 plus completion of at least ten additional credits toward the AAAS degree or Certificate of Proficiency in the Biotechnology Laboratory Assistant Program or permission.

**BILOGICAL SCIENCE 297, 298, 299**  
Special Project (1,2,3)  
Project work under the supervision of an instructor in specific areas of biology. Permission of the instructor involved with the project. Student option grading.

**BUSINESS ADMINISTRATION 100**  
Business: An Introductory Analysis (5)  
Survey of the role of business in a modern market economy, its growth, influence, and relationships to social responsibility. This course will include, but will not be limited to, a study of business objectives, internal and external functions, and organizational management problems. Dual listed as SocSc 100. Mandatory decimal grading.

**BUSINESS ADMINISTRATION 110**  
Human Relations in Business (5)  
Study of human relations in organizations, the identification and development of factors which tend to create a harmonious environment in the work situation, discussion and case studies of problem solving and organizational behavior. Mandatory decimal grading.

**BUSINESS ADMINISTRATION 112**  
Essentials of Human Relations (2)  
A survey course in the study of human relations. Consideration is given to contemporary issues of human behavior and motivation, interpersonal communication, leadership and management styles, understanding and appreciation for cultural diversity in the work force, stress management, and labor-management relations. Satisfies the general education requirement for human relations in vocational programs only. Prerequisite: Students must have the ability to communicate in English and be willing to participate in class discussions. Mandatory decimal grading.

**BUSINESS ADMINISTRATION 120**  
Principles of Marketing (5)  
This course examines the role of marketing in a market economy. Topics of study include the functions of marketing, marketing strategies, identifying market segments, consumer buying behavior, product planning, market communication/promotion, marketing of services. Mandatory decimal grading.

**BUSINESS ADMINISTRATION 130**  
Salesmanship (5)  
Designed to develop or extend selling skills. Topics include duties and qualifications of a professional salesperson, knowledge and skill requirements, determining customer needs, planning and delivering effective sales presentations and building customer goodwill. An oral sales project is usually assigned. Mandatory decimal grading.

**BUSINESS ADMINISTRATION 135**  
Customer Service (3)  
Develops skills in client and customer relations. The focus is on efficient and dynamic ways to deliver quality service to clients and customers. The course will cover personal and cross-cultural communication skills; projecting a professional image; instructing clients in the use of the company’s services/products; making a company “customer focused”; and how to develop customer loyalty. Mandatory decimal grading.

**BUSINESS ADMINISTRATION 140**  
Introduction to Fashion (5)  
Students will experience the exciting and changing world of fashion and learn how to predict fashion trends. Students will explore fashion design, the production process and ways of marketing. Consumer behavior as it relates to fashion, the globalization of fashion and careers in fashion will also be discussed. Mandatory decimal grading.

**BUSINESS ADMINISTRATION 145**  
History of Fashion (5)  
Students will learn how fashion has changed throughout history and how fashion is affected by social, psychological, economic, religious and cultural influences. Textiles will also be discussed. Mandatory decimal grading.

**BUSINESS ADMINISTRATION 150**  
Retail Marketing and Management (5)  
Students develop integrated marketing skills to plan and operate a retail business. This interactive class explores buyer behavior, retail strategies, site analysis, inventory planning, retail buying, merchandising, staffing, and sales promotion strategies. Mandatory decimal grading.

**BUSINESS ADMINISTRATION 155**  
Management Seminar (5)  
Assists the student in career development through discussion of on-the-job problems as well as work research projects. Topics differ for each seminar and relate to areas of career development. Students receive full credit upon the completion of 60 hours of work related to their career objective. Mandatory decimal grading.

**BUSINESS ADMINISTRATION 160**  
Employment Prep Seminar (2)  
Assists students with preparation for obtaining employment after graduation. Topics: SCANS skills (skills needed for the new global workplace), resume writing, information and job interviewing, internship development; human relations in the workplace. Emphasis placed on learning how to manage your own career life. Prerequisite: Written and oral English skills equivalent to Eng 101 or BusAd 252. Mandatory P/NC grading.

**BUSINESS ADMINISTRATION 170**  
Logistics and Transportation Fundamentals (3)  
The course examines logistics principles, concepts and activities, including balancing logistic factors to achieve optimal performance. Topics include pricing analysis, regulatory restrictions, scheduling, protecting, warehousing, information systems, customer service, and shipping. Student option grading.

**BUSINESS ADMINISTRATION 175**  
Business Mathematics (5)  
A business math course to prepare students for business classes. The course covers the concepts of ratio-proportion, percent, estimating, basic algebra skills, graphics, trade/cash discounts, mathematics of merchandising, inventory, and equivalent decimal to percent and consumer credit. The course contains significant elements of reading, written communication, critical thinking and problem solving. Reviews basic arithmetic. Prerequisite: Math 060 or score of 54 on ASSET placement test. Mandatory decimal grading.

**BUSINESS ADMINISTRATION 190**  
Purchasing and Supply Management Fundamentals (5)  
Introduction to the basic principles of purchasing and supply chain management with emphasis on understanding the purchasing and supply processes, organizational concepts, policy, relationships, and tools and techniques including cost/price analysis, and value analysis. Offered fall quarter in the classroom and on WAOL during fall, winter and spring. Student option grading.
BUSINESS ADMINISTRATION 191
Sourcing and Supplier Relations Fundamentals (5)
Sourcing concepts, methods and techniques used to manage an organization’s supply base are discussed. Emphasis is on strategic purchasing and sourcing concepts, including supplier selection, development and evaluation, supplier quality, and global sourcing. Offered winter quarter (evenings) and on WAOL. Student option grading.

BUSINESS ADMINISTRATION 192
Materials Management (4)
Materials management principles, concepts and activities, including purchasing, inventory control, traffic, store-keeping, receiving, inspection, production control and the disposal of surplus. Student option grading.

BUSINESS ADMINISTRATION 195
Contract Administration (4)
Formation, classification, interpretation, discharge, and administration of industrial and government contracts. Case-study, seminar approach to industrial and institutional contract administration is used. Prerequisite: BusAd 192. Mandatory decimal grading.

BUSINESS ADMINISTRATION 200
Essentials of Supervision (5)
This highly participative course looks at the first level of management in organizations. Teamwork, motivation, unions, training, diversity, change, ethics and conflict resolution will be some of the topics discussed. Mandatory decimal grading.

BUSINESS ADMINISTRATION 201
Introduction to International Business (5)
This course provides an overview of international trade theory and an introduction to the field of international business and trade. The interrelationships among culture, law, material and economic environments of global business will be explored. Prerequisite: BusAd 100 or permission. Dual listed as Econ 215. Mandatory decimal grading.

BUSINESS ADMINISTRATION 210
International Finance (3)
This course explores the impact of international financial problems and operations on domestic and international business including foreign exchange, devaluation decisions, lending and the World Bank, the International Monetary Fund, and other related areas. Prerequisite: BusAd 165 or permission. Mandatory decimal grading.

BUSINESS ADMINISTRATION 215
International Marketing and Import/Export Management (5)
This course focuses on the application of marketing principles on a transnational basis and in particular on the legal, economic and political aspects of importing and exporting products, including necessary documentation. Prerequisite: BusAd 120 or permission. Mandatory decimal grading.

BUSINESS ADMINISTRATION 220
Principles of Management (5)
This course focuses on the organization of management; managerial functions and operations; division of responsibility; vertical and horizontal theory; managerial leadership and personnel functions; business control and procedures; basic management problems. Recommended: BusAd 110 or BusAd 200. Mandatory decimal grading.

BUSINESS ADMINISTRATION 221
International Management (5)
This course focuses on the leadership and functional skills required in managing a company’s international business activities. Emphasis is placed on the interplay between the basic management functions and culture, in particular American and Japanese culture and the process of accomplishing the global objectives of international business. Mandatory decimal grading.

BUSINESS ADMINISTRATION 222
E-Business (5)
A practical review of the issues and decision-making processes encountered by businesses as they integrate with the networked economy. This course examines the results of the growth of the Internet and other new electronic technologies and defines the keys to success for e-commerce businesses through case study analysis. Mandatory decimal grading.

BUSINESS ADMINISTRATION 224
Marketing.com (5)
Learn how to coordinate and integrate Web technology and marketing strategy. Explore the development of specific technical skills necessary to position eCommerce Web site. Acquire an understanding of the application of marketing skills to attract people to the Web site. The integrated approach of this class will provide both instruction and on-line analysis of eCommerce Web sites. Prior understanding of Internet structure and use as a communication/research tool is recommended. Mandatory decimal grading.

BUSINESS ADMINISTRATION 226
eProcurement (5)
Business-to-business procurement strategies, options, methods and solutions used to automate procurement, supplier management, and other supply chain activities are examined. Prerequisites: English 100 (Analytical Reading and Writing) or ESL 100 or satisfactory ASSET test score for English 101: Math 070 (Preparation for Algebra or satisfactory ASSET test score for Math 080 or 099. Student option grading.

BUSINESS ADMINISTRATION 230
Advertising and Sales Promotion (5)
Students explore the dynamic field of advertising, including the impact of advertising, how advertising is planned and created, selecting media, negotiating costs of media, regulating advertising, and pursuing advertising careers. A contemporary advertising campaign project is a focal point for this class. Mandatory decimal grading.

BUSINESS ADMINISTRATION 232
Sales Management (5)
Management of the sales function in business. Topics include selling, sales, programs, sales analysis, budgets, expense forms, and leadership and training aspects. A sales management project is usually assigned. Prerequisite: BusAd 130 or instructor permission, based on evaluation of student’s education and work experience. Mandatory decimal grading.

BUSINESS ADMINISTRATION 240
Retail Buying and Management (5)
This course covers the analysis of the role of the retail buyer and manager, as well as techniques for inventory planning, selecting merchandise, and merchandising strategies and merchandise control. Vendor relationships and human resources management are also emphasized. Mandatory decimal grading.

BUSINESS ADMINISTRATION 250
Introduction to Law (5)
This course examines the nature and origin of the law, law as a legal system of social thought and behavior, legal institutions and processes, legal reasoning, law as a process of protecting and facilitating voluntary arrangements in a business society. Prerequisite: sophomore standing or instructor permission, based upon evaluation of student’s education and work experience. Mandatory decimal grading.

BUSINESS ADMINISTRATION 260
Commercial Law (5)
This course covers the Uniform Commercial Code; the law of bailment and sales; commercial paper; secured transactions, debtors and creditors; business organizations. Prerequisite: BusAd 250 or instructor permission, based on evaluation of student’s education and work experience. Mandatory decimal grading.

BUSINESS ADMINISTRATION 270
Entrepreneurship-Starting A New Business (5)
Experience the challenge and reward for planning a new business. Topics include the development of a business plan, failure factors in small business, sources of capital, accounting, financial statements, marketing, human resource management, legal/regulatory issues and management principles. Mandatory decimal grading.

BUSINESS ADMINISTRATION 281, 282, 283, 284, 285
Special Topics (1,2,3,4,5)

BUSINESS ADMINISTRATION 297, 298, 299
Special Project (1,2,3)

BUSINESS ADMINISTRATION 297
Special project. Prerequisite: Instructor permission, based on evaluation of student’s education and work experience. Mandatory decimal grading.
BUSINESS TECHNOLOGY 097  
Business Computer Study Center  (1)  
A learning center for students enrolled in Business Technology (BusTc) 100, 128, 129, 135, 150, 160, 170, Outlook and Publisher and Computer Information Systems (CIS) 102, 105, 120 classes. Students get supervised help with their classroom assignments from a Business faculty. A minimum of 20 hours is required. Students may also register for BusTc 098. Mandatory P/NC grading.

BUSINESS TECHNOLOGY 098  
Business Computer Study Center  (2)  
A learning center for students enrolled in Business Technology (BusTc) 100, 128, 129, 135, 150, 160, 170, Outlook and Publisher and Computer Information Systems (CIS) 102, 105, 120 classes. Students get supervised help with their classroom assignments from a Business faculty. A minimum of 40 hours is required. Students may also register for BusTc 097. Mandatory P/NC grading.

BUSINESS TECHNOLOGY 100  
Beginning Keyboarding  (5)  
Introduces the keyboard and operational parts of the personal computer. Special attention is given to correct techniques and beginning formatting of memorandums, letters, reports, and tables. Student option grading.

BUSINESS TECHNOLOGY 103  
Speed Keyboarding I  (4)  
Speed, accuracy, and technique drills on a personal computer. Designed for students who are keyboarding at various speeds. Prerequisites: BusTc 100 or equivalent and 20 wpm keyboarding by touch. Student option grading.

BUSINESS TECHNOLOGY 104  
Speed Keyboarding II  (4)  
Speed, accuracy, and technique drills on a personal computer. Continuation of BusTc 103. Speed Keyboarding I. Prerequisite: BusTc 103. Student option grading.

BUSINESS TECHNOLOGY 128  
Word 2003, Level 1  (5)  
Introduction to Microsoft Word 2003. Learn the core features to create business documents. Features include create, edit, print, save, and retrieve documents; use file management, tabs, styles, columns, tables, charts, and visual appeals. Prerequisites: BusTc 100 or equivalent, 25 wpm keyboarding. Student option grading.

BUSINESS TECHNOLOGY 129  
Word 2003, Level 2  (5)  
Learn advanced features of Microsoft Word 2003. Topics include shared documents, footnotes/endnotes, mail merge, sort, Word Art, styles, macros, tables/indexes, forms, shared data, and XML.

BUSINESS TECHNOLOGY 135  
Applied Word Processing  (4)  
Designed for students who have learned the intermediate to advanced level features of Word. Students will apply previously learned word processing techniques in the preparation of business documents using Word. Emphasis is on accuracy and mailable copy. Prerequisite: BUSTC 129. Student option grading.

BUSINESS TECHNOLOGY 150  
Excel 2003  (5)  
Designed for the beginning spreadsheet user. Learn to build spreadsheets using formulas, spell check, find/replace, toolbars, printing, formatting of text and numbers, fonts and borders, functions, charts, range names, macros, pivot tables, workbooks, and linking and embedding. Prerequisites: Asset reading score of 40 and placement into Math 80 or instructor’s permission. Student option grading.

BUSINESS TECHNOLOGY 152  
Fundamentals of Business Communications  (5)  
Write business correspondence, a resume, and cover letter using Standard English. Review of vocabulary, punctuation and grammar grammar used in business correspondence. Research topics using web technology and standard references to prepare presentation. Prerequisites: Placement in English 100 or ESL 100 or successful completion of English 090 or ESL 099 with a 2.0 or better. Recommended: Microsoft Word and Internet experience. Mandatory decimal grading.

BUSINESS TECHNOLOGY 160  
PowerPoint 2003  (4)  
PowerPoint is a presentation graphics program. Students will learn to organize information and create professional-looking presentations using a personal computer. Students will learn the basic, intermediate, and advanced features of PowerPoint. Student option grading.

BUSINESS TECHNOLOGY 170  
Access 2003  (5)  
Designed for the beginning Access user who already has basic skills in other Windows programs. Topics include creating tables; creating and using relationships; creating forms, reports, mailing labels, and charts; importing and exporting data; and creating web pages for databases. Student option grading.

BUSINESS TECHNOLOGY 180  
FrontPage  (5)  
Learn to create and manage a World Wide Web site using FrontPage. Use FrontPage to create Web pages with interactive functionality. Use FrontPage to create, view, and manage Web sites. Learn and apply the principles of quality Web site design and structure. This course is designed for the experienced Windows and Internet user. Prerequisites: CIS 105 Business Computer Applications or BusTc 129 Word Level 2 or instructor permission. Student Option grading.

BUSINESS TECHNOLOGY 190  
Electronic Ten-Key Calculator  (2)  
Introduction to the electronic/ten-key calculator. Covers the basic math operations of addition, subtraction, multiplication and division. Touch method taught. Student option grading.

BUSINESS TECHNOLOGY 214  
Filing  (2)  
Filing is the organization and storage of business correspondence. Through a series of instruction and exercises, students apply the fundamental rules of filing. Student option grading.

BUSINESS TECHNOLOGY 252  
Professional Communications  (5)  
Learn writing strategies for a variety of business letters, memos, e-mail, and short reports. Use the Internet and Shoreline library databases to research various topics. Prepare a report. Prerequisite: Placement in English 101 or successful completion of English 100 or ESL 100 or BusTc 152 with a 2.0 or better. Mandatory decimal grading.

BUSINESS TECHNOLOGY 270  
Office Procedures  (5)  
A capstone course for Business Technology majors that considers the role of the administrative assistant and current technology as it affects today's offices; visits to area industries and guest speakers; group and individual projects; organizing reports, making travel arrangements, using references, applying computer skills; information on the CPS Examination. Prerequisite: 55 wpm keyboarding speed. Mandatory decimal grading.

BUSINESS TECHNOLOGY 281, 282, 283, 284, 285  
Special Topics  (1,2,3,4,5)  
Special tutorial project. Prerequisite: Instructor permission, based on evaluation of student's education and work experience. Mandatory decimal grading.

CAREER EDUCATION OPTIONS 101  
Preparation for Education and Career  (10)  
Introduction to college programs and services, academic success strategies and job readiness skills. Emphasis on life skills, time management, problem solving, goal setting and career exploration. Students will learn to think critically and reflectively by looking into themselves to assess personal strengths and outward to access support systems. Prerequisites: enrollment in Career Education Options Program, instructor permission. Decimal or P/Z grading.

CHEMISTRY 090  
Chemistry Special Laboratory  (1-3)  
Tutorial lab for students enrolled in chemistry classes; designed to help with any type of problem concerning the field of chemistry. Prerequisite: Enrollment in any chemistry class. Mandatory P/0.0 or P/NC grading.

CHEMISTRY 101  
Basic General Chemistry  (5)  
Basic chemistry for those deficient in high school chemistry class. Designed to provide a basic knowledge of concepts and calculations relating to the field of chemistry. A mandatory two hour lab is taken concurrently. Prerequisite: Math 099 with a 2.0 grade point or better and Placement into English 100 or ESL 100; or Instructor permission. Student option grading.
CHEMISTRY 139
Preparation for Inorganic Chemistry (3)
This course is intended for students who need the chemistry and quantitative reasoning background needed for the CHEM 140-160 series. Topics covered include measurements, mass relations, properties, and structure of matter and nomenclature. This course is not intended for students with a recent, rigorous course in high school chemistry and does not meet the prerequisites for the nursing/dental hygiene program. Prerequisites: Placement in Math 099 and Placement into English 100 or ESL 100; or Instructor Permission. Concurrent enrollment in Math 099 is recommended. Student option grading.

CHEMISTRY 140
General Inorganic Chemistry I (4)
This course is the first of three quarters of general college chemistry for science and engineering majors. Fundamental laws and basic concepts of modern chemistry are covered as applied to the structure and behavior of matter. Course includes lecture and seminar, and Chem 141 must be taken concurrently. Prerequisites: Recent high school chemistry or Chem 101 with a 2.0 or better and Placement into English 101 and Placement into Math 110; or Instructor Permission. Mandatory decimal grading.

CHEMISTRY 150
General Inorganic Chemistry II (4)
This course is the second of three quarters of general college chemistry for science and engineering majors. Fundamental laws and basic concepts of modern chemistry are covered as applied to the structure and behavior of matter. Course includes lecture and seminar, and Chem 151 must be taken concurrently. Prerequisite: Chem 140/141 with grades of 2.0 or better and Placement into English 101 and Placement into Math 110; or Instructor permission. Mandatory decimal grading.

CHEMISTRY 160
General Inorganic Chemistry III (4)
This course is the third of three quarters of general college chemistry for science and engineering majors. Fundamental laws and basic concepts of modern chemistry are covered as applied to the structure and behavior of matter. Course includes lecture and seminar, and Chem 161 must be taken concurrently. Prerequisite: Chem 150/151 with grades of 2.0 or better and Placement into English 101 and Placement into Math 110; or Instructor permission. Mandatory decimal grading.

CHEMISTRY 161
General Inorganic Chemistry III (Lecture-Lab) (2.5)
This course utilizes laboratory experimentation to reinforce and enhance the chemical concepts discussed in Chem 160. A separate lecture period is required to explain the lab theory, techniques, and safety. Due to dangers involved in chemical experimentation, attendance in lecture is mandatory. Prerequisites: Concurrent enrollment in Chem 160. Cannot be taken separately from Chem 160 unless student has already passed 160. Mandatory decimal grading.

CHEMISTRY 190
Chemical Analysis-I (7)
First course of a two quarter series focused on the theory and practice of basic analytical chemistry such as gravimetric/volumetric analysis, notebook-keeping, error analysis. Additional lectures/labs will also introduce instrumental analysis theory including spectroscopy, chromatography, and electrochemistry. Prerequisite: Chem 220 and Math 110 with grades of 2.0 or better, and placement into English 101; or Instructor Permission. Mandatory decimal grading.

CHEMISTRY 191
Chemical Analysis-II (7)
Second course of a two quarter series focused on the theory and practice of basic analytical chemistry such as gravimetric/volumetric analysis, notebook-keeping, error analysis. Additional lectures/labs will also introduce instrumental analysis theory including spectroscopy, chromatography, and electrochemistry. Prerequisite: Chem 220 and Math 99 with grades of 2.0 or better, and placement into English 101; or Instructor Permission also acceptable. Mandatory Decimal grading.

CHEMISTRY 220
Basic Organic Chemistry (5)
Emphasis on chemical systems and processes as they influence living systems. Study of organic compounds: properties and reactions of functional groups, lipids, proteins and carbohydrates. Introduction to enzymes and neurotransmitters. The weekly lab focuses on exploring reactions of hydrocarbons, alcohols, acids, and amines. Prerequisites: Chemistry 101 with a minimum grade of 2.0 and Placement into English 101. Mandatory decimal grading.

CHEMISTRY 221
Quantitative Analysis (5)
This course covers gravimetric and volumetric analysis with analytical instrumentation and transfers to the University of Washington as the 300-level Quantitative Analysis. Prerequisites: Chem 160, Chem 161, Math 120 and English 101 with grades of 2.0 or better; or Instructor permission. Mandatory decimal grading.

CHEMISTRY 237
Organic Chemistry I (4)
First course for students planning to take three quarters of organic chemistry with two labs. Structure, nomenclature, reactions and synthesis of the main types of organic compounds. Course requires a lab component and Chem 241 must be taken concurrently. Prerequisites: Chemistry 160/161 and English 101 with minimum grades of 2.0; or Instructor Permission. Mandatory decimal grading.

CHEMISTRY 238
Organic Chemistry II (4)
Second course for students planning to take three quarters of organic chemistry with lab. Further discussion of physical properties and transformations of organic molecules, especially aromatic and carbonyl compounds. Course requires a lab component and Chem 241 must be taken concurrently. Satisfies the requirement for those needing two quarters of organic lab. Prerequisite: Chem 237/241 and English 101 with a minimum grades of 2.0; or Instructor permission. Mandatory decimal grading.

CHEMISTRY 239
Organic Chemistry III (4)
Third course for students planning to take three quarters of organic chemistry. Polyfunctional compounds and natural products, lipids, carbohydrates, amino acids, proteins and nucleic acids. Prerequisite: Chem 258/242 and English 101 with a minimum grades of 2.0; or Instructor permission. Mandatory decimal grading.

CHEMISTRY 241
Organic Chemistry I Laboratory (3)
First course of the lab component for students planning to take three quarters of organic chemistry with two labs. Structure, nomenclature, reactions and synthesis of the main types of organic compounds. Concurrent enrollment in Chem 237. Prerequisites: Chemistry 160/161 and English 101 with minimum grades of 2.0; or Instructor Permission. Mandatory decimal grading.

CHEMISTRY 242
Organic Chemistry II Laboratory (3)
Second laboratory course for students planning to take three quarters of organic chemistry with lab. Further discussion of physical properties and transformations of organic molecules, especially aromatic and carbonyl compounds. Concurrent enrollment in Chem 238. Prerequisite: Chem 237/241 and English 101 with minimum grades of 2.0; or Instructor permission. Mandatory decimal grading.

CHEMISTRY 297, 298, 299
Special Project (1, 2, 3)
Special independent projects supervised by the instructor. Permission of instructor. Student option grading.
CHEMICAL TECHNOLOGY 190  
Gravimetric and Volumetric Methods (8)  
An introduction to basic laboratory practices with emphasis on weighing, measuring volumes, sample preparations, solution concentration, statistical treatment of data and error analysis. Prerequisite: Chem 220 and Math 110 with grades of 2.0 or better and Placement into English 101; or Instructor permission. Mandatory decimal grading.

CHEMICAL TECHNOLOGY 191  
Electrical, Optical and Chromatographic Methods (8)  
An introduction to basic instrumental analysis. Use of optical instruments, including IR, UV, visible and emission spectrophotometer. Study of all chromatographic techniques and use of latest instrumentation. Use of electronic measuring instrumentation and devices. Prerequisite: ChemT 190, Chem 220, and Math 110 with grades of 2.0 or better and Placement into English 101; Instructor permission. Mandatory decimal grading.

CHEMICAL TECHNOLOGY 192  
Electrical, Optical and Chromatographic Methods (8)  

CHINESE 111  
First-Year Chinese (5)  
Listening, speaking, reading and writing Mandarin Chinese (the official Chinese language). Pin-yin system is taught. Emphasis on pronunciation, vocabulary development and sentence structure. No previous knowledge of the language is required. Student option grading.

CHINESE 112  
First-Year Chinese (5)  
A continuation of Chin 111 with more vocabulary, more complicated sentence structure. Prerequisite: Chin 111 or equivalent with instructor permission. Student option grading.

CHINESE 113  
First-Year Chinese (5)  
A continuation of Chin 112 introducing more vocabulary and grammar. Development of reading comprehension. Prerequisite: Chin 112 or equivalent with instructor permission. Student option grading.

CHINESE 297, 298, 299  
Special Project (1,2,3)

CINEMA 201/201W  
INTRODUCTION TO CINEMA (5)  
Introduction to cinema through the study of motion picture techniques and the development of cinema as an art form. Student option grading

CINEMA 285  
Special Topics in Film (5)

CINEMA 297, 298, 299  
Special Project (1,2,3)

COMMUNICATION 200  
Communications Today (2)  
A study of the use of language in mass communications, including politics and advertising, the way that language relates to reality, the influence of language on our values and beliefs and the ways that language impels competition and cooperation. Student option grading.

COMMUNICATION 202/202W  
The Phenomena of Communication (5)  
Communicating in progressively more complex situations, with emphasis on mass media. Student option grading.

COMMUNICATION 203/203W  
Mass Media and Society (5)  
Students learn the history, technologies and processes of mass communication systems including the printing press, periodicals, books, radio, sound recordings, television, film, and Internet. They explore the cultural impacts, theories, related ethics and laws of mass communications. Students must be able to type or word-process. Completion of English 101 with a grade of 2.0 or better, or minimum scores of 45 on language usage/writing and 44 on the reading skills portion of the ASSET/COMPASS test. Student option grading.

COMMUNICATION 211/211W  
Newswriting (1-3)  
Students explore one or more aspects of print journalism, with a focus on reporting, news gathering and writing. The course covers connections to public relations, advertising and electronic journalism as well as ethical and legal concerns. Newspaper production is introduced. The class may be taken again for credit.

COMMUNICATION 212/212W  
Student Newspaper (1-3)  
Students receive hands-on experience in one or more aspects of the college newspaper, including reporting, writing, editing, photography, production or advertising. The class is arranged by contract and may be taken again for credit.

COMMUNICATION 221/221W  
Journalistic Writing (4)  
Students learn the fundamentals of journalistic techniques and write news articles, features, columns, editorials and reviews. The course covers connections to public relations, advertising and electronic journalism as well as ethical and legal concerns. Photожournalism, design and production are introduced.

COMMUNICATION 225  
Copy Editing (3)  
Techniques of editing and rewriting news copy. Experience in headline writing, newspaper makeup, cutlines and captions. Prerequisite: CMU 211 or permission of instructor. Student option grading.

COMMUNICATION 261  
Basic Video Production (3)  
Students produce video programs, focusing on both field and multi-camera studio work. By working on their own and other students’ projects, basic proficiency on camera, lighting, audio, and control room equipment is developed. Student option grading.

COMMUNICATION 262  
Television Studio Production (5)  
Using studio cameras, lighting, audio, and editing equipment, students direct and produce their own projects to prepare for a career in the video and film industry. They will also work as crew on other projects. Emerging technologies will also be explored. This class is open to students with all levels of experience. Student option grading.

COMMUNICATION 263  
Video Field Production (5)  
Techniques and skills in film-style single-camera production, field lighting and audio, directing/producing, editing and post-production, and emerging media technologies are developed. Students create their own video programs as well as crew on other students’ projects. Open to students with all levels of experience. Student option grading.

COMMUNICATION 264  
Introduction to Multi-Image (4)  
Processes and techniques in programming to live music and audio tape. Programs created by students. Instruction in photography, slide duplication, audio, graphics, and other aspects of multimedia. Prerequisite: music or photography or VCT. Student option grading.

COMMUNICATION 266  
Video Editing and Post-Production (5)  
Learn how to edit video/film. Study the techniques, history and theory of video/film editing using Avid XpressDV, a professional non-linear edit system. Create projects in a variety of styles including narrative and documentary. New emerging technologies are also discussed. Student option grading. Dual listed as VCT 266.

COMMUNICATION 267  
Advanced Video Editing and Post-Production (5)  
Interested in professional video editing? In this class, students advance video editing and post-production software such as Avid XpressDV to create various longer video projects including narrative, documentary and experimental styles. Emerging technologies are discussed. Prerequisites: CMU/VCT 266 Video Editing and Post-Production. Student option grading. Dual listed as VCT 267.

COMMUNICATION 282  
Special Topics (2)  
Film production, providing hands-on experience working with cameras, lights and sets, script writing for stage and film. (Specific topics vary from quarter to quarter.) Student option grading.

COMMUNICATION 285  
Special Topics (5)  
Film production, providing hands-on experience with cameras, lights, and sets; script writing for stage and film. (Specific topics vary from quarter to quarter.) Student option grading.

COMMUNICATION 287  
The Documentary (5)  
Analysis of film and video productions intended to be seen as factual presentations of historical, political, or social events. Student option grading.
COMMUNICATION 291
Documentary News Photography (3)
Theory and techniques of documentary photo story. Photographic process used to analyze, interpret and comment on aspects of society. Final product: documenting subject of student's choice in prints of publication quality. Students provide film, paper, supplies. Prerequisite: Art 102 or equivalent with instructor permission. Dual listed as Art 291. Student option grading.

COMMUNICATION 297, 298, 299
Special Project (1,2,3)
Specific tutorial projects in communications. Projects include writing for the Ebbtide. Permission of the instructor. Student option grading.

COMPUTER INFORMATION SYSTEMS 102
Computer Preparation (2)
Designed for the computer novice, this course prepares the student for CIS 105 Business Computer Applications. Students will learn the basics of computers, including hardware components, terminology, and software. This hands-on course includes an introduction to a Windows operating system, file management, and other applications. Mandatory P/NC grading.

COMPUTER INFORMATION SYSTEMS 105
Computer Application (5)
Introduction to Windows-based desktop computing. Learn Windows file management, MS Office (Word, Excel, Access, PowerPoint), and Internet tools. Prerequisite: ASSET reading score of 40 and Math 080 or equivalent or instructor permission. Student option grading.

COMPUTER INFORMATION SYSTEMS 106
Introduction to Information Technology (5)
Survey course to introduce aspects of Information Technology. Includes topics such as computer hardware technology, application and system software, information processing cycle, data communication and networks, the Internet, programming, careers, ethics, and security issues. Prerequisites: CIS 105 Computer Applications or equivalent or instructor permission. Student option grading.

COMPUTER INFORMATION SYSTEMS 110
Operating Systems (5)
Examine contemporary client operating systems. Learn how to install, configure, upgrade, troubleshoot and repair Operating Systems designed for a microcomputer. Will examine such topics as memory management, partitioning, formatting, viruses, and customer support. Course curriculum is modeled on A+ certification requirements. Prerequisites: CIS 106 Introduction to Information Technology or instructor's permission. Student option grading.

COMPUTER INFORMATION SYSTEMS 112
Introduction to PC Hardware (5)
Basic troubleshooting, safety procedures, maintenance, recognizing, selecting, installing, configuring components (power supplies, memory, disk drives, modems, network cards); understanding hardware specifications; and standard PC tools. Course curriculum is modeled on A+ certification requirements. Prerequisites: CIS 106 Intro to Information Technology or instructor's permission. Student option grading.

COMPUTER INFORMATION SYSTEMS 114
Data Communication (5)
Focus on Networking Essentials, concepts and terminology. Topics include OSI 7-layer model, protocols, LAN, WAN, and network design. Course curriculum is modeled on Network+ certification requirements. Prerequisites: CIS 110 (was 205) Operating Systems & CIS 112 (was 225) PC Hardware or instructor permission. Student option grading.

COMPUTER INFORMATION SYSTEMS 116
Local Area Networks (5)
Focus on TCP/IP and LAN technology. Topics include TCP/IP fundamentals and utilities as well as subnet masks. Lab experience and theory will be balanced with study of wiring, installation requirements and trouble-shooting. Course curriculum is modeled on Network+ certification requirements. Prerequisites: CIS 110 (was 205) Operating Systems & CIS 112 (was 225) PC Hardware or instructor permission. Student option grading.

COMPUTER INFORMATION SYSTEMS 120
Database Applications and Concepts (5)
Practical issues involved in designing, setting up and using relational database applications. Microsoft Access taught to reinforce database concepts. The student needs to have basic Windows file management skills. Prerequisites: CIS 106 Introduction to Information Technology or CIS 105 Business Computer Applications or instructor permission. Student option grading.

COMPUTER INFORMATION SYSTEMS 121
Database Design (5)
Introduction to database design with emphasis on the relational model. Topics include: data modeling, normalization, SQL, networked environment, and accessing the database server. Prerequisites: CIS 120 Database Applications or instructor permission. Student option grading.

COMPUTER INFORMATION SYSTEMS 140
The Internet and HTML (5)
Build web pages using HTML. Internet architecture, Internet connection options, FTP, Telnet, business issues, network protocols and addressing. Prerequisites: CIS 105 Computer Applications or VCT 124 Macintosh or instructor's permission. Student option grading.

COMPUTER INFORMATION SYSTEMS 151
Programming Fundamentals (5)
Programming foundation for students with no prior computer programming experience. Establish skills and confidence for success in Level I programming classes. Prerequisites: CIS 106 Intro to Information Technology and Math 99 or instructor's permission. Student option grading.

COMPUTER INFORMATION SYSTEMS 152
Visual Basic I (5)
A Level I class in computer programming. Learn concepts of problem solving and program design. Compare this language to other popular programming languages. Topics include variables, intrinsic data types and arrays, structure, syntax, modularization, development environment, documentation. Prerequisites: CIS 151 Programming Fundamentals or instructor's permission. Student option grading.

COMPUTER INFORMATION SYSTEMS 153
Visual Basic II-Data Structures (5)
Continuation of Level I Programming course emphasizing design, algorithms, abstraction and analysis. Topics include classes, data structures, dynamic memory management and data file processing, as well as use of standard libraries to create interactive, event-driven solutions with enhanced GUIs. Prerequisites: CIS 152 Visual Basic I or instructor's permission. Student option grading.

COMPUTER INFORMATION SYSTEMS 154
C++ I (5)
A Level I class in computer programming. Learn concepts of problem solving and program design. Compare this language to other popular programming languages. Topics include: variables, intrinsic data types and arrays, structure, syntax, modularization, development environment, documentation. Prerequisites: CIS 151 Programming Fundamentals or instructor's permission. Student option grading.

COMPUTER INFORMATION SYSTEMS 156
C++ II Data Structures (5)
Continuation of Level I Programming course emphasizing design, algorithms, abstraction and analysis. Topics include classes, data structures, dynamic memory management and data file processing, as well as use of standard libraries to create interactive, event driven solutions with enhanced GUIs. Prerequisites: CIS 162 C++ I or instructor's permission. Student option grading.
COMPUTER INFORMATION
SYSTEMS 172
JAVA I (5)
A Level I class in computer programming. Learn concepts of problem solving and program design. Compare this language to other popular programming languages. Topics include: variables, intrinsic data types and arrays, structure, syntax, modularization, development environment, documentation. Prerequisites: CIS 151 Programming Fundamentals or instructor's permission. Student option grading.

COMPUTER INFORMATION
SYSTEMS 173
JAVA II - Data Structures (5)
Continuation of Level I Programming course emphasizing design, algorithms, abstraction and analysis. Topics include classes, data structures, dynamic memory management and data file processing, as well as use of standard libraries to create interactive, event-driven solutions with enhanced GUIs. Prerequisites: CIS 172 Java I or instructor's permission. Student option grading.

COMPUTER INFORMATION
SYSTEMS 190
Operating Systems Laboratory (1)
Hands-on exercises essential to understanding Operating Systems. Prerequisites: Concurrent enrollment in CIS 110 Operating Systems. Student Option grading.

COMPUTER INFORMATION
SYSTEMS 192
Introduction to PC Hardware Laboratory (2)
Hands-on exercises essential to understanding PC Hardware. Prerequisites: Concurrent enrollment in CIS 112 Introduction to PC Hardware. Student option grading.

COMPUTER INFORMATION
SYSTEMS 194
Data Communication Laboratory (1)
Hands-on exercises essential to understanding Data Communications. Prerequisites: Concurrent enrollment in CIS 114 Data Communications. Student option grading.

COMPUTER INFORMATION
SYSTEMS 196
Local Area Networks Laboratory (2)
Hands-on exercises and presentations essential to understanding Local Area Networks. Prerequisites: Concurrent enrollment in CIS 116 Local Area Networks. Student option grading.

COMPUTER INFORMATION
SYSTEMS 211
UNIX Fundamentals and System Administration (5)
Introduces UNIX operating system and system administration in the UNIX environment. Topics include command interpretation, directories and files, permissions, configuring and managing a UNIX system and performing day-to-day system management. Prerequisites: CIS 110 Operating Systems or instructor permission. Student option grading.

COMPUTER INFORMATION
SYSTEMS 214
Windows (5)
A survey of fundamental concepts and techniques. Will install, configure, troubleshoot and explore the security issues of the Windows based client. This course provides a sound foundation for Windows users and majors in the Computer Information program. Course based on MCSE Professional exam. Prerequisites: CIS 110 Operating Systems and CIS 112 (was 225) PC Hardware. Student option grading.

COMPUTER INFORMATION
SYSTEMS 216
Windows Server (5)
Concentrates on network issues of setup, directory services, security, remote access, printing, performance tuning, protocols, and disaster recovery planning. Students will install, configure, and troubleshoot a Windows based Server. Prerequisites: CIS 214 (was 235) Windows completion or concurrent enrollment. Student option grading.

COMPUTER INFORMATION
SYSTEMS 217
Windows Network Infrastructure (5)
Concentrates on installing, maintaining, monitoring, configuration and troubleshooting of DNS, DHCP, Remote Access, Network Protocols, IP Routing and WINS. Prerequisites: CIS 216 (was 285) Windows Server or instructor's permission. Student option grading.

COMPUTER INFORMATION
SYSTEMS 218
Windows Directory Services (5)
Concentrates on installing, maintaining, monitoring, configuring and troubleshooting of Windows Directory Services. Students will also learn how to backup and restore directory services, directory service security, and to optimize the desktop environment. Prerequisites: CIS 216 (was 285) Windows Server or instructor's permission. Student option grading.

COMPUTER INFORMATION
SYSTEMS 219
Designing Directory Services (5)
Designing the Windows directory services. Students will analyze the business requirements and design a Directory Service architecture to match the business requirements. Prerequisites: CIS 216 (was 285) Windows Server and BusAd 100 or instructor's permission. Student option grading.

COMPUTER INFORMATION
SYSTEMS 221
Introduction SQL/Oracle PL/SQL (5)
Introduction to Structured Query Language. Topics include syntax to create data structures and objects, select, store, retrieve, manipulate data, and detailed coverage of the Oracle-specific PL/SQL procedural extension. Prerequisites: CIS 121 Database Design, CIS 211 UNIX Fundamentals, Programming I (CIS 152, 162, or 172). Student option grading.

COMPUTER INFORMATION
SYSTEMS 222
Database Architecture Oracle (5)
Provides skills in basic database administration tasks. Focus on set up, maintain, and troubleshoot an Oracle database. Use administration tools to setup and shutdown a database, create a database, manage file and database storage, and manage users and privileges. Organize the database and move data into and between databases, under different environments. Prerequisites: CIS 221 Introduction to SQL/Oracle PL/SQL. Student option grading.

COMPUTER INFORMATION
SYSTEMS 223
Advanced Database Applications and Management (5)
Follows CIS 222 Database Architecture. Project-oriented class. Topics include backup and recovery techniques, performance issues and tuning steps. Provides an overview for an Oracle network configuration and connections and GUI tools used to setup and manage the environment. Prerequisites: CIS 222 Database Architecture or instructor permission. Student option grading.

COMPUTER INFORMATION
SYSTEMS 233
Web Database (5)
Building upon skills in database and web scripting, students will learn to apply web database server technology for Internet development. Students will build and maintain databases for the Internet, create interactive user interfaces to extract information from database and display it on a web page. Other topics include common technologies, such as Active Server Pages, selecting SQL Server data, and presenting dynamic content over the Internet. Prerequisites: CIS 240 and CIS 120 or instructor's permission. Student option grading.

COMPUTER INFORMATION
SYSTEMS 236
Microsoft SQL Server (5)
Students will learn how to install, manage, monitor, secure and troubleshoot a Microsoft SQL server. The student will also learn to extract and manipulate data stored in a SQL server database. Database server security will also be addressed. Prerequisites: CIS 221 Database Design & CIS 216 Windows Server or instructor's permission. Student option grading.

COMPUTER INFORMATION
SYSTEMS 240
JavaScript and Advanced HTML (5)
Enhance web pages with JavaScript. Fundamental programming concepts such as loops, conditional expressions, arrays, and functions. Use the JavaScript objects model, event handlers, forms, and advanced HTML constructs such as cascading style sheets and XML. Prerequisites: CIS 140 Internet and HTML or instructor's permission. Student option grading.
**COMPUTER INFORMATION SYSTEMS 254**
Visual Basic III (5)
Continuation of Level II Programming course, emphasizing objects and use of professional tools and standard libraries for software development. Prerequisites: CIS 153 Visual Basic II or instructor's permission. Student option grading.

**COMPUTER INFORMATION SYSTEMS 255**
Internship (3)
A lecture and CIS internship capstone course concerning resume review and evaluation, job interviewing skills, and job searching skills within the Information Technology (IT) field. Students are evaluated on work performed at intern positions at the college or at IT employer locations. Prerequisites: Students should be within a quarter of graduation for enrollment in this course. Mandatory decimal grading.

**COMPUTER INFORMATION SYSTEMS 264**
C++ III (5)
Continuation of Level II Programming course, emphasizing objects and use of professional tools and foundation classes (standard libraries) for software development. Prerequisites: CIS 163 C++ II or instructor's permission. Student option grading.

**COMPUTER INFORMATION SYSTEMS 274**
Java III (5)
Continuation of Level II Programming course, emphasizing objects and use of professional tools and foundation classes (standard libraries) for software development. Prerequisites: CIS 173 Java II or instructor's permission. Student option grading.

**COMPUTER INFORMATION SYSTEMS 275**
Programming IV:Database (5)
Continuation of Level II Programming course, emphasizing the use of databases as components of a system. Development of several database-driven applications. Prerequisites: Level II Programming (CIS 153, 163, 173) or instructor's permission. Student option grading.

**COMPUTER INFORMATION SYSTEMS 276**
Programming V:Project (5)
Design, develop and present a substantial group programming project. Prerequisites: Systems Analysis (CIS 287) and Level III or IV Programming (CIS 254, 264, 274, or 275) or instructor's permission. Student option grading.

**COMPUTER INFORMATION SYSTEMS 281, 282, 283, 284, 285**
Special Topics (1, 2, 3, 4, 5)
Classes focusing on specific software applications or topics of interest to business computer users and managers are offered each quarter.

**COMPUTER INFORMATION SYSTEMS 290**
Windows Lab (1)
Hands-on exercises essential to understanding Windows. Prerequisites: Concurrent enrollment in CIS 214 Windows. Student Option grading.

**COMPUTER INFORMATION SYSTEMS 291**
Windows Server Lab (2)
Hands-on exercises essential to understanding Windows Server. Prerequisites: Concurrent enrollment in CIS 216 Windows Server. Student Option grading.

**COMPUTER INFORMATION SYSTEMS 292**
Windows Network Infrastructure Lab (1)
Hands-on exercises essential to understanding Windows Network Infrastructure. Prerequisites: Concurrent enrollment in CIS 217. Student Option grading.

**COMPUTER INFORMATION SYSTEMS 293**
Windows Directory Services Lab (2)
Hands-on exercises essential to understanding Windows Directory Services. Prerequisites: Concurrent enrollment in CIS 218. Student Option grading.

**COMPUTER INFORMATION SYSTEMS 294**
Designing Directory Services Lab (2)
Hands-on exercises essential to understanding Designing Directory Services. Prerequisites: Concurrent enrollment in CIS 219. Student Option grading.

**COMPUTER INFORMATION SYSTEMS 295**
Microsoft SQL Server Lab (1)
Hands-on exercises essential to understanding the SQL Server. Prerequisites: concurrent enrollment in CIS 236. Student Option grading.

**COMPUTER SCIENCE 131**
Introduction to Programming Using Visual Basic (5)
Variable assignment, loops, branches, subroutines, arrays. Introduction to algorithms. Event-driven programming. Programs will be written in Visual Basic. Prerequisites: Math 099 (2.0 or better) or one and one half years of high school algebra (C or better) and a score of 33 or higher on the College Algebra ASSET test (or equivalent), or permission. Student Option Grading.
COURSE DESCRIPTIONS

COMPUTER SCIENCE 142
Introduction to Computer Programming with Java (5)
Computer programming directed at solving problems. Topics include data types, classes, objects, methods, inheritance, exceptions, arrays, control structures, sorting, and searching. Emphasis is on program design, algorithms, and abstraction. Students learn Java and gain skills using programming tools. Credit transfers to UW. Prerequisites: Math 110 or Math 111 (2.0 or better), or instructor permission. Prior programming experience recommended. Mandatory Decimal Grading.

COMPUTER SCIENCE 143
Java II-Data Structures (5)
Continuation of Level I Programming course emphasizing design, algorithms, abstraction and analysis. Topics include classes, data structures, dynamic memory management and data file processing, as well as use of standard libraries to create interactive, event driven solutions with enhanced GUIs. Prerequisites: Comp 142: Java I or instructor's permission. Student option grading.

COMPUTER SCIENCE 201
Intermediate Computer Programming with C++ (5)
Fundamental concepts essential to the study of computers, including abstraction, representation, data structures, control structures, algorithms, complexity analysis, dynamic memory management, functions, recursion, arrays, and streams. Students learn C++, gain experience developing multi-file projects. Prerequisites: Math 124 or Math 112 (2.0 or better), and Comp 142 (2.0 or better), or instructor permission. Mandatory decimal grading.

COMPUTER SCIENCE 297, 298, 299
Special Project (1,2,3)
Special individual computer projects in computer science. Instructor permission required. Student Option Grading.

COSMETOLOGY 101
Theory of Cosmetology I (5)
Theory 101 provides cosmetology students with an introduction to the study of hair, skin, and nails, their structure, functions, and characteristics, diseases and disorders as well as the care and treatment of a variety of conditions. Special emphasis is placed on principles and methods of sterilization and sanitation. Prerequisite: Permission of instructor. Mandatory decimal grading.

COSMETOLOGY 102
Theory of Cosmetology II (5)
Theory 102 is a course on the processes of hair coloring, permanent waving, and hair straightening services. Detailed information is provided on the concepts, categories and chemistry with special emphasis on safety and procedure. Prerequisite: Permission of instructor. Mandatory decimal grading.

COSMETOLOGY 103
Theory of Cosmetology III (5)
This course provides cosmetology students with a basic background into the chemical theories, processes and product ingredients found in the practice of Cosmetology. Special emphasis on OSHA chemical hazard information and the mechanical operation and functions of electrical equipment used in salons. Prerequisite: Permission of instructor. Mandatory decimal grading.

COSMETOLOGY 104
Human Relationship Skills (3)
Designed to help students develop self-management skills; learn a system for relating to people in the workplace; build clientele and increase service and retail selling skills. It will provide theory on interpersonal skill development and a laboratory setting for experimentation, role playing and tracking of results. Prerequisites: Permission of instructor.

COSMETOLOGY 105
Clinical Practice I (4.5)
Students practice basic level cosmetology procedures on clients and mannequins under close supervision in a clinic setting. Adherence to in-house procedures, accuracy, timing, safety measures, and sanitation standards. Special emphasis placed on examining a variety of services in the area. Prerequisite: Permission of instructor. Mandatory decimal grading.

COSMETOLOGY 106
Theory of Cosmetology IV (4.5)
The course is designed to give students a basic overview of salon business operations including marketing strategies, financial control, factors affecting salon culture, insurance, business laws and health regulations. Special emphasis placed on examining a variety of services in the area. Prerequisites: 2.1 minimum in Cos 101, Cos 102, Cos 103, and permission of instructor. Mandatory decimal grading.

COSMETOLOGY 107
Clinical Practice II (9)
Prerequisites: 2.1 minimum in Cos 103, Cos 104, and permission of instructor. Mandatory decimal grading.

COSMETOLOGY 108
Clinical Practice III (10)
Prerequisites: 2.1 minimum in Cos 151, Cos 152, and permission of instructor. Mandatory decimal grading.

COSMETOLOGY 109
Salon Business Operations (5)
Course is designed to give students a basic overview of salon business operations including marketing strategies, financial control, factors affecting salon culture, insurance, business laws and health regulations. Special emphasis placed on examining a variety of services in the area. Prerequisites: 2.1 minimum in Cos 151, Cos 152, and permission of instructor. Mandatory decimal grading.

COSMETOLOGY 110
Clinical Practice IV (9)
Prerequisites: 2.1 minimum in Cos 153, Cos 154, and permission of instructor. Mandatory decimal grading.

COSMETOLOGY 111
Clinical Practice V (9)
For students unable to complete program within recommended time frame. Apply theory and advanced procedures by performing services on clients and mannequins under close supervision in a clinic setting. Adherence to in-house procedures, accuracy, timing, safety measures, and sanitation standards. Prepare for State Licensing Examination. Mandatory decimal grading. Instructor permission required. Prerequisites: COS 101,102,103,201,252.
COURSE DESCRIPTIONS

COSMETOLOGY 254
Clinical Practice VI (1-11)
For students unable to complete the program within recommended time frame. Apply theory and advanced procedures by performing services on clients and mannequins under minimal supervision. Adherence to in-house procedures, accuracy, timing, safety measures, and sanitation standards. Prerequisites: 2.1 minimum in Cos 151, 152, 251, 252, 253 and permission of instructor. Mandatory decimal grading.

COSMETOLOGY 260
Advanced Haircutting and Styling (2)
This class is designed to review haircutting fundamentals, help students advance their skills, add new concepts and systems, and select cuts suitable to client features, body types and profiles. Prerequisite: Permission of instructor. Mandatory decimal grading.

COSMETOLOGY 265
Cosmetology Final Assessment (3)
This course provides students with a theoretical and practical review of basic cosmetology services in preparation for in-house theory and practical assessments before applying for state board examinations. Prerequisites: Admission to the program and permission of instructor. Mandatory decimal grading.

COSMETOLOGY 281, 282, 283, 284, 285
Special Topics (1,2,3,4,5)

COSMETOLOGY 280
Cosmetology Instructor Trainee Methodology I (5)
Teaching principles and methodologies for licensed cosmetologists wishing to obtain a cosmetology instructor's license. Prerequisite: Cosmetology license and permission. Mandatory decimal grading.

COSMETOLOGY 290
Cosmetology Instructor Trainee Clinical Supervisor I (10)
Clinical teaching and evaluation of practical skills for licensed cosmetologists wishing to obtain a cosmetology instructor's license. Prerequisite: Cosmetology license and permission. Mandatory decimal grading.

COSMETOLOGY 291
Cosmetology Instructor Trainee Methodology II (5)
Teaching principles and methodologies for licensed cosmetologist wishing to obtain a cosmetology instructor's license. Prerequisite: Cosmetology license and/or Exam. Mandatory decimal grading.

COSMETOLOGY 292
Cosmetology Instructor Trainee Methodology III (5)
Teaching principles and methodologies for licensed cosmetologist wishing to obtain a cosmetology instructor's license. Prerequisite: Cosmetology license. Mandatory decimal grading.

COSMETOLOGY 293
Cosmetology Instructor Training Clinic II (10)
Clinical teaching and evaluation of practical skills for the licensed cosmetologist wishing to obtain a cosmetology instructor's license. Prerequisite: Cosmetology license and/or Exam. Mandatory decimal grading.

COSMETOLOGY 297, 298, 299
Special Project (1,2,3)

CRIMINAL JUSTICE 131
Introduction to Criminal Justice (5)
An examination of crime, its causes and its impact on American life; the issues and challenges facing the American criminal justice system; the history and structure of the three major components of the justice system; and an introduction to the theories of sentencing and punishment. Mandatory decimal grading.

CRIMINAL JUSTICE 132
Police Records and Report Writing (4)
Procedure of field notetaking, crime scene recording and correct preliminary investigation method of writing reports; fundamentals of police record systems. Prerequisite: ENG 101 or equivalent ASSET test score is recommend. Mandatory decimal grading.

CRIMINAL JUSTICE 133
Criminal Law (5)
A study of the nature and purpose of the criminal law, its sources, limitations and general principles, defenses and the wide range of criminal conduct covered by the criminal law. This course covers both common law and statutory law with specific application of titles 9, 9A and 10 of the Revised Code of Washington. Mandatory decimal grading.

CRIMINAL JUSTICE 134
Administration of Justice (5)
A study of the structure and processes of the federal and state courts in America, their organization and jurisdiction and the impact of the Constitution upon them, as well as an examination of the roles of judges, attorneys, and law enforcement when citizens are charged with crimes. Mandatory decimal grading.

CRIMINAL JUSTICE 135
Crime Prevention (2)
An in-depth study of the fundamentals of achieving security and safety. This course will give the student an understanding of what crime prevention is and how it is carried out. The student will know how crime prevention procedures affect businesses, individuals and law enforcement. This class is for criminal justice and non-criminal justice majors. Mandatory decimal grading.

CRIMINAL JUSTICE 137
Essentials of Investigative Interviewing (3)
An in-depth study of the Juvenile Justice System, its history and theories related to juvenile laws, causation of juvenile behavior, the proper methods of dealing with juveniles in the court system, and Washington state law relating to juvenile procedures. Mandatory decimal grading.

CRIMINAL JUSTICE 138
Juvenile Justice (5)
An in-depth study of the Juvenile Justice System, its history and theories related to juvenile laws, causation of juvenile behavior, the proper methods of dealing with juveniles in the court system, and Washington state law relating to juvenile procedures. Mandatory decimal grading.

CRIMINAL JUSTICE 165
First Level Supervision for Law Enforcement (5)
An in-depth study in the fundamentals of leadership, command and direction for first line law enforcement supervisors. Develops an assessment process for personnel. Creates an understanding of group dynamics and leadership styles. Teaches techniques for prioritizing and solving problems. This class is transferable to the Washington State Criminal Justice Training Commission's Training Records as a prerequisite for the Law Enforcement Command College. Prerequisite: Crimj 131. Mandatory decimal grading.

CRIMINAL JUSTICE 210
Emergency Dispatcher I: Introduction to Emergency Dispatch (5)
An examination of the nature, operations, systems, and technology of public safety communications, the history of 9-1-1 and radio communications and the application of this process to the provision of effective emergency call-taking and dispatch services to citizens and responding field personnel. Prerequisites: English 100. Mandatory decimal grading.

CRIMINAL JUSTICE 211
Emergency Dispatcher II: Emergency Call Screening (5)
An examination of the role of the 9-1-1 call-taker and the duties, tasks, and responsibilities of the 9-1-1 call screeners. Provides an outline of how to process specific types of calls related to police, fire, and medical dispatch. Prerequisites: CRMJ 210. Mandatory decimal grading.

CRIMINAL JUSTICE 212
Emergency Dispatcher III: Call Processing Techniques and Lab (5)
Students will receive simulated experiences and the opportunity to apply the knowledge and practice the specific techniques and skills needed to function as an effective 9-1-1 call-taker and/or emergency police/fire/medical dispatcher. Prerequisites: CRMJ 210 and 211. Mandatory decimal grading.

CRIMINAL JUSTICE 238
Criminal Evidence and Constitutional Law (5)
Examines the role played by the U.S. and Washington State Constitutions in the administration of the criminal law. The course views the Constitution from a law enforcement perspective. Students will discover and critically analyze Supreme Court decisions which have affected evidence and its admissibility. Prerequisites: CRMJ 131. Mandatory decimal grading.

CRIMINAL JUSTICE 240
Forensic Science (5)
An overview of the scientific evaluation of physical evidence. Firearms, chemicals, serology, trace, fingerprints and documents will be treated. In-class assignments will give each student the opportunity to apply principles learned. Students will understand the value of physical evidence and guidelines for collection and preservation. Prerequisites: CRMJ 131, 241 or instructor permission. Mandatory decimal grading.
CRIMINAL JUSTICE 241
Principles of Investigation I (5)
An in-depth study of the fundamentals, func-
tions and elements of criminal investigation. It
includes a history of the development of con-
ducting investigations with law enforcement
agents. It is a discussion of some of the prob-
lems and procedures of the successful investi-
gation of crimes leading to arrest and convic-
tion of criminals. Prerequisites: CRIMJ 131 or
instructor permission. Mandatory decimal
grading.

CRIMINAL JUSTICE 242
Principles of Investigation II (5)
An in-depth study of the fundamentals, func-
tions and elements of criminal investigation in
particular types of crimes. Hands-on lab in the
processing of crime scenes, the gathering and
packaging of evidence and the assembling of a
finished case file that would be presented to a
prosecutor for the charging of a suspect.
Prerequisite: CRIMJ 241 or instructor permis-
sion. Mandatory decimal grading.

CRIMINAL JUSTICE 243
Theory of Defensive & Control Tactics (5)
This class explores the theories and application
of physical and verbal force in the control and
apprehension of violent and potentially violent
offenders. The use of Force Continuum will be
used as the base for the application of control
takedown holds as well as handcuffing and the
use of the baton and other defensive
Prerequisite: Criminal Justice major
or instructors permission. Mandatory decimal
grading.

CRIMINAL JUSTICE 249
Police Operations (5)
A study of the organizational culture, organiza-
tion structures, staffing, and utilization of
resources within police departments. The sup-
port and staff functions which assist patrol and
other line operations in accomplishing the
department's mission will be examined. Patrol
operations will be emphasized. Mandatory
decimal grading.

CRIMINAL JUSTICE 273
Internship (5)
A program in which the student will work
directly with a criminal justice agency in a wide
variety of tasks to give the student a better
understanding day to day operation and the
tasks performed by a part of the criminal jus-
tice system. Mandatory decimal grading.

CRIMINAL JUSTICE 281, 282, 283,
284, 285
Special Topics [1,2,3,4,5]
Courses for criminal justice personnel desiring
emphasis in a particular area relating to the
criminal justice system. Mandatory decimal
grading.

CRIMINAL JUSTICE 297, 298, 299
Special Project [1,2,3]
Special tutorial projects in specific areas of
Criminal Justice. By arrangement with instruc-
tor. Prerequisite: Instructor permission, based
on evaluation of students' educational and
work experience. Mandatory decimal grading.

DENTAL HYGIENE 100
Head and Neck Anatomy (2)
The study of the anatomy of the head and
neck–specifically the bony structures, blood
supply, musculature, and nerve supply.
Prerequisite: Admission to the Dental Hygiene
Program or permission of instructor.
Mandatory decimal grading.

DENTAL HYGIENE 101
Histology/Embryology (3)
The study of the development, histology and
function of the tissues in the oral cavity.
Prerequisite: Admission to the Dental Hygiene
Program or permission of instructor.
Mandatory decimal grading.

DENTAL HYGIENE 102
Principles of General Pathology and
Systemic Disease (2)
The study of general disease conditions that
affect the human body and dental treatment.
Introduction to terminology, specific diseases
and their causes. Prerequisite: Admission to
the Dental Hygiene Program or permission
of instructor. Mandatory decimal grading.

DENTAL HYGIENE 103
Periodontology I (1)
The recognition and etiology of diseases of the
dentition. Prerequisite: Admission to the Dental
Hygiene Program or permission of instructor.
Mandatory decimal grading.

DENTAL HYGIENE 104
Periodontology II (2)
Continuation of the study of periodontal dis-
ease, with increased scope and depth concern-
ing histopathology and etiologies of periodontal
disease. Emphasis is placed on non-surgical
treatment of the various types of periodontal
disease. Prerequisite: Admission to the Dental
Hygiene Program or permission of instructor.
Mandatory decimal grading.

DENTAL HYGIENE 110
Dental Radiology (2)
The study of the fundamentals of radiology
and radiation hygiene, with demonstration and
practice in the exposing and processing of
intra-oral radiographs. Prerequisite: Admission
to the Dental Hygiene Program or permission
of the instructor. Mandatory decimal grading.

DENTAL HYGIENE 111
Dental Radiology (3)
Continuation of Denthy 110 with continued
emphasis on intra-oral radiographic techniques.
Prerequisite: Admission to the Dental Hygiene
Program or permission of instructor.
Mandatory decimal grading.

DENTAL HYGIENE 112
Dental Anatomy and Morphology (2)
Lecture and laboratory exercises on nomencla-
ture, anatomy, morphology and function of the
primary and permanent dentitions.
Prerequisite: Admission to the Dental Hygiene
Program or permission of instructor.
Mandatory decimal grading.

DENTAL HYGIENE 114
Oral Pathology (2)
The recognition and etiology of clinical oral
pathologies of the oral/facial area. Prerequisite:
Admission to the Dental Hygiene Program or
permission of the instructor. Mandatory deci-
nal grading.

DENTAL HYGIENE 120
Community Dental Health Education (1)
Lectures covering methodologies for communi-
ty group education including teaching meth-
ods, analysis of special group characteristics,
formulation of lesson plans and development of
visual aids. Prerequisite: Admission to the Dental
Hygiene Program or permission of the instruc-
tor. Mandatory decimal grading.

DENTAL HYGIENE 121
Ethics and Jurisprudence (3)
Lectures and discussions regarding ethics and
jurisprudence related to the practice of den-
sistry and dental hygiene. Prerequisite:
Admission to the Dental Hygiene Program or
permission of the instructor. Mandatory decimal
grading.

DENTAL HYGIENE 130
Pharmacology (3)
The study of the general pharmacological and
therapeutic actions of drugs pertaining to den-
sistry, including nomenclature, dosage, routes
of administration, indications, contraindica-
tions, and the legal factors involved in dispens-
ing. Prerequisite: Admission to the Dental
Hygiene Program or permission of the instruc-
tor. Mandatory decimal grading.

DENTAL HYGIENE 131
Medical Emergencies (2)
Lectures and clinical exercises preparing the
student to prevent, recognize, and respond to
medical emergencies in the dental setting.
Prerequisite: Admission to the Dental Hygiene
Program or permission of the instructor.
Mandatory decimal grading.

DENTAL HYGIENE 132
Pain Control I (3)
A study of physiology, pharmacology of local
anesthetic drugs, complications, patient evalua-
tion, and techniques utilized in the administra-
tion of local anesthetics in dentistry.
Prerequisite: Admission to the Dental Hygiene
Program or permission of the instructor.
Mandatory decimal grading.

DENTAL HYGIENE 140
Restorative Dentistry I (3)
An introduction to restorative dentistry proce-
dures, including rubber dam application, agi-
nate impressions, study models, sealants, mer-
cury hygiene, matrix and wedge application,
 amalgam carving and local anesthetic. The
chemical and physical properties of the materi-
als utilized for these procedures will also be
studied. Prerequisite: Admission to the Dental
Hygiene Program or permission of the instruc-
tor. Mandatory decimal grading.

DENTAL HYGIENE 141
Restorative Dentistry II (1)
Preclinical laboratory exercises in placement
and finishing of amalgam restorations.
Prerequisite: Admission to the program or
permission of the instructor. Mandatory P/N/C
grading.
DENTAL HYGIENE 150
Clinical Dental Hygiene Lab (3)
Introduction to clinic procedures and patient examination techniques. Prerequisite: Admission to Dental Hygiene Program or permission of the instructor. Mandatory P/0.0 or P/NC grading.

DENTAL HYGIENE 151
Dental Hygiene Fundamentals I (5)
Lecture and discussion pertinent to clinical skills and related subjects which will be applied in dental hygiene preclinical and clinical. Prerequisite: Admission to the Dental Hygiene Program or permission of the instructor. Mandatory decimal grading.

DENTAL HYGIENE 152
Procedures Seminar I (1)
First-year, weekly discussion and lecture sessions with special emphasis on program policies and procedures for lab and clinic operation and WISHA regulations for bloodborne pathogens. Prerequisite: Admission to Dental Hygiene Program or permission of the instructor. Mandatory decimal grading.

DENTAL HYGIENE 160
Clinical Dental Hygiene (4)
Performance of traditional dental hygiene clinical procedures on patients from the campus and community. Prerequisite: Admission to the Dental Hygiene Program or permission of the instructor. Mandatory decimal grading.

DENTAL HYGIENE 161
Dental Hygiene Fundamentals II (2)
Lecture and discussion pertinent to clinical skills and related subjects which will be applied in dental hygiene clinic. Prerequisite: Admission to the Dental Hygiene Program or permission of the instructor. Mandatory decimal grading.

DENTAL HYGIENE 162
Procedures Seminar II (1)
First-year, weekly discussion and lecture sessions with special emphasis on patient care planning/referrals, and policies and procedures for clinical operation. Prerequisite: Admission to the Dental Hygiene Program or permission of the instructor. Mandatory decimal grading.

DENTAL HYGIENE 170
Clinical Dental Hygiene (4)
Performance of traditional dental hygiene clinical procedures on patients from the campus and community. Prerequisite: Admission to the Dental Hygiene Program or permission of the instructor. Mandatory decimal grading.

DENTAL HYGIENE 171
Dental Hygiene Fundamentals III (2)
Lectures, discussions, and practice labs pertinent to clinical skills and related subjects which will be applied in dental hygiene clinic. Prerequisite: Admission to the Dental Hygiene Program or permission of the instructor. Mandatory decimal grading.

DENTAL HYGIENE 172
Procedures Seminar III (1)
First-year, weekly discussion and lecture sessions with special emphasis on patient care planning/referrals, and policies and procedures for clinical operation. Prerequisite: Admission to the Dental Hygiene Program or permission of the instructor. Mandatory P/0.0 or P/NC grading.

DENTAL HYGIENE 180
Clinical Dental Hygiene (3)
Dental Hygiene Fundamentals IV (2)
Lectures, discussions, and practice labs pertinent to clinical skills and related subjects which will be applied in dental hygiene clinic. Prerequisite: Admission to the Dental Hygiene Program or permission of the instructor. Mandatory P/0.0 or P/NC grading.

DENTAL HYGIENE 182
Procedures Seminar IV (1)
First-year, weekly discussion and lecture sessions with special emphasis on patient care planning/referrals, and policies and procedures for clinical operation. Prerequisite: Admission to the Dental Hygiene Program or permission of the instructor. Mandatory decimal grading.

DENTAL HYGIENE 183
Dental Gerontology (1)
A course dealing with the special knowledge, attitudes, and technical skills required to provide oral health care to older adults. Prerequisite: Admission to the Dental Hygiene Program or permission of the instructor. Mandatory decimal grading.

DENTAL HYGIENE 190
Patient Records I (1)
Weekly discussion sessions for first-year students with special emphasis on patient chart record keeping, patient care planning/referrals, and policies and procedures necessary to fulfill legal duties owed to patients, and maintain positive public relations. Prerequisite: Admission to the Dental Hygiene Program or permission of the instructor. Mandatory decimal grading.

DENTAL HYGIENE 191
Patient Records II (1)
Weekly discussion sessions for first-year students with special emphasis on patient chart record keeping, patient care planning/referrals, and policies and procedures necessary to fulfill legal duties owed to patients, and maintain positive public relations. Includes screening exams on patients. Prerequisite: Admission to the Dental Hygiene Program or permission of the instructor. Mandatory decimal grading.

DENTAL HYGIENE 204
Periodontology III (1)
Continuation of the study of periodontal disease. Emphasis is placed upon the surgical, reconstructive and maintenance phases of periodontal therapy. Prerequisite: Admission to the Dental Hygiene Program or permission of the instructor. Mandatory decimal grading.

DENTAL HYGIENE 210
Public Health/Community Dentistry (2)
Introduction to the basic principles of public health theory, methods, research, social epidemiology and its impact on dental health education and the dental care delivery system. Prerequisite: Admission to the Dental Hygiene Program or permission of the instructor. Mandatory decimal grading.

DENTAL HYGIENE 211
Special Community Dental Health Project (1)
Advanced study areas in community dental health with community projects to be arranged on an individual basis with the instructor. Prerequisite: Denhy 120 and Denhy 220 or permission of the instructor. Mandatory decimal grading.

DENTAL HYGIENE 222
Professional Issues (1)
Lecture and discussion regarding the practice of dental hygiene including resume development, interviewing techniques, patient scheduling systems, employment contracts and dental staff relations. Prerequisite: Admission to the Dental Hygiene Program or permission of the instructor. Mandatory decimal grading.

DENTAL HYGIENE 230
Care of the Patient with Special Needs (1)
Educational experiences which will enable each student to recognize the physiological, psychological, psychosocial, medical, and oral aspects of disabling conditions in preparation for clinical management of such patients. Prerequisite: Admission to the Dental Hygiene Program or permission of the instructor. Mandatory decimal grading.

DENTAL HYGIENE 232
Pain Control II (2)
Lecture, demonstration and clinical application of nitrous oxide analgesia and local anesthesia. Lectures on other pain control modalities used in dentistry. Prerequisite: Admission to the Dental Hygiene Program or permission of the instructor. Mandatory decimal grading.

DENTAL HYGIENE 240
Restorative Dentistry III (3)
A study of restorative dentistry procedures and materials including the chemical and physical properties, selection, usage and manipulation. Prerequisite: Admission to the Dental Hygiene Program or permission of the instructor. Mandatory decimal grading.

DENTAL HYGIENE 241
Restorative Dentistry Preclinical Clinic (3)
Preclinical laboratory exercises in the placement and finishing of amalgam and composite restorations. Prerequisite: Admission to the Dental Hygiene Program or permission of the instructor. Mandatory decimal grading.

DENTAL HYGIENE 242
Restorative Clinic (2)
Clinical experience in restorative dentistry procedures. Prerequisite: Admission to the Dental Hygiene Program or permission of the instructor. Mandatory decimal grading.
DENTAL HYGIENE 244
Restorative Clinic (2)
Clinical experience in restorative dentistry procedures. Prerequisite: Admission to the Dental Hygiene Program or permission of the instructor. Mandatory decimal grading.

DENTAL HYGIENE 250
Clinical Dental Hygiene (6)
Performance of traditional dental hygiene clinical procedures on patients from the campus and community. Prerequisite: Admission to the Dental Hygiene Program or permission of the instructor. Mandatory decimal grading.

DENTAL HYGIENE 251
Dental Hygiene Fundamentals V (2)
Lectures, discussions, and practice labs pertinent to clinical skills and related subjects which will be applied in dental hygiene clinics. Prerequisite: Admission to the Dental Hygiene Program or permission of the instructor. Mandatory decimal grading.

DENTAL HYGIENE 252
Procedures Seminar V (1)
Second-year, weekly discussion and lecture sessions with special emphasis on patient care planning/referrals and policies and procedures for clinical operation. Occasional guest lectures are included. Prerequisite: Admission to the Dental Hygiene Program or permission of the instructor. Mandatory P/0.0 or P/NC grading.

DENTAL HYGIENE 260
Clinical Dental Hygiene (6)
Performance of traditional dental hygiene clinical procedures on patients from the campus and community. Prerequisite: Admission to the Dental Hygiene Program or permission of the instructor. Mandatory decimal grading.

DENTAL HYGIENE 261
Dental Hygiene Fundamentals VI (2)
Lectures, discussions, and practice labs pertinent to clinical skills and related subjects which will be applied in dental hygiene clinics. Prerequisite: Admission to the Dental Hygiene Program or permission of the instructor. Mandatory decimal grading.

DENTAL HYGIENE 262
Procedures Seminar VI (2)
Second-year, weekly discussion and lecture sessions with special emphasis on patient care planning/referrals, and policies and procedures for clinical operation, plus Mock Board patient selection criteria. Occasional guest lectures are included. Prerequisite: Admission to Dental Hygiene Program or permission of instructor. Mandatory P/0.0 or P/NC grading.

DENTAL HYGIENE 263
Extramural Clinic I (1)
Special clinical rotation for second-year students to attend individualized clinical experiences, with dental hygiene treatment for patients in extramural community clinics. Prerequisite: Admission to Dental Hygiene Program or permission of instructor. Mandatory P/0.0 or P/NC grading.

DENTAL HYGIENE 270
Clinical Dental Hygiene (6)
Performance of traditional dental hygiene clinical procedures on patients from the campus and community. Prerequisite: Admission to the Dental Hygiene Program or permission of the instructor. Mandatory decimal grading.

DENTAL HYGIENE 271
Dental Hygiene Fundamentals VII (2)
Lectures and discussions relating to entry into the dental hygiene profession and presentation of disease control project. Prerequisite: Admission to the Dental Hygiene Program or permission of the instructor. Mandatory decimal grading.

DENTAL HYGIENE 272
Procedures Seminar VII (1)
Second-year, weekly discussion and lecture sessions with special emphasis on patient care planning/referrals, policies and procedures for clinical operation, and preparation for the restorative and written portions of the State and Western Regional Licensing Exams. Occasional guest lectures are included. Prerequisite: Admission to Dental Hygiene Program or permission of instructor. Mandatory P/0.0 or P/NC grading.

DENTAL HYGIENE 273
Extramural Clinic II (1)
Special clinical rotation for second-year students to attend individualized clinical experiences, with dental hygiene treatment for patients in extramural community clinics. Prerequisite: Admission to Dental Hygiene Program or permission of instructor. Mandatory P/0.0 or P/NC grading.

DENTAL HYGIENE 281, 282
Special Topics (1,2)

DENTAL HYGIENE 290
Patient Records III (1)
Weekly discussion sessions for second-year students with special emphasis on patient chart record-keeping, and policies and procedures necessary to fulfill legal duties owed to patients, and maintain positive public relations. Includes screening exams on patients. Prerequisite: Admission to Dental Hygiene Program or permission of instructor. Mandatory decimal grading.

DENTAL HYGIENE 291
Patient Records IV (1)
Weekly discussion sessions for second-year students with special emphasis on patient chart record-keeping, and policies and procedures necessary to fulfill legal duties owed to patients, and maintain positive public relations. Includes screening exams on patients. Prerequisite: Admission to Dental Hygiene Program or permission of instructor. Mandatory decimal grading.

DENTAL HYGIENE 292
Patient Records V (1)
Weekly discussion sessions for second-year students with special emphasis on patient chart record-keeping and policies and procedures necessary to fulfill legal duties owed to patients and maintain positive public relations. Includes screening exams on patients. Prerequisite: Admission to Dental Hygiene Program or permission of instructor. Mandatory decimal grading.

DENTAL HYGIENE 297, 298, 299
Special Project (1,2,3)
Independent project for students to perform individualized patient care experiences in traditional dental hygiene clinic. Prerequisite: Admission to the Dental Hygiene Program or permission of the instructor. Mandatory P/0.0 or P/NC grading.

DRAMA 101/101W
Introduction to Drama (5)
Students learn about dramatic traditions throughout history by reading plays from ancient to contemporary times. Students will be able to analyze works of drama using the historical, political, cultural and social context as well as the elements of dramatic literature and presentation. Dual listed as Eng 259/Eng 259W.

DRAMA 146 (3)
Theatre Voice and Speech
Uses developmental exercises for actors and speakers. Designed to enhance vocal quality, projection and effective interpretive variation. Presentation of dramatic monologues selected from modern and classical drama. Student option grading.

DRAMA 147
Theatre Voice and Speech (3)
Uses developmental exercises for actors and speakers designed to enhance vocal quality, projection and effective interpretive variation. Presentation of dramatic monologues selected from modern and classical drama. Student option grading.

DRAMA 148
Theatre Voice and Speech (3)
Concentration on the presentation of scenes from classical dramatic literature, including Greek, Elizabethan, Restoration. Student option grading.

DRAMA 150
Contemporary Dance (1)
Basic modern dance techniques with studies in rhythm, design, motivation, and expression in dance movements. Student option grading.

DRAMA 151
Acting (5)
This is a creatively rigorous introduction to the craft of acting. Through exercises, rehearsals and games, students will learn the theory and practice of acting fundamentals and improve their ability to concentrate, relax, listen and observe and practice empathy. Essential for students who wish to pursue a film, TV or stage career, this class is open to students with all levels of experience.

DRAMA 152
Acting (5)
Students practice acting, learn its theory, and improve their abilities to concentrate, relax, listen, observe, imagine and practice empathy. They develop a deep understanding of the elements of characterization in relation to cultural, historical and economic background through observing others and developing their own characters in writing and improvisation.
DRAMA 153
Acting (5)
Students continue to practice acting, learn its theory, and improve their abilities to concentrate, relax, listen, observe, imagine and practice empathy. Students improve character and story development abilities through observing, improvising, writing and script reading. Students also read, analyze and write about plays and performances. No prerequisites.

DRAMA 155
Acting for Television and Film (3)
Dramatic and commercial acting to work in film, television and commercials. Learn auditioning and marking skills needed for a successful screen acting career. Student option grading.

DRAMA 156
Acting, Writing, Directing for the Camera I (5)
A fast-paced introduction to the key elements used to create film and video productions. Students learn the fundamentals of studio protocol and the use of the camera. Analysis and discussion of film history as well as cinematic and acting styles, exploration of screenplay structure, exercises in acting and directing will culminate in the writing and filming of original productions. Student option grading.

DRAMA 157
Acting, Writing, Directing for the Camera II (5)
Continues the work begun in Drama 156. Reviews the elements used to create a film or video program. Students select one area for a project focus. Prerequisite: Drama 156. Student option grading.

DRAMA 161
Opera Workshop (1)
Students perform one-act operas and opera scenes from familiar and unfamiliar operas and operettas in full production and usually in English. This course is dual listed as Music 162. Prerequisites: Instructor permission based on student audition. Mandatory decimal grading.

DRAMA 162
Opera Workshop (2)
Students perform one-act operas and opera scenes from familiar and unfamiliar operas and operettas in full production and usually in English. This course is dual listed as Music 162. Prerequisites: Instructor permission based on student audition. Mandatory decimal grading.

DRAMA 163
Opera Workshop (3)
Students perform one-act operas and opera scenes from familiar and unfamiliar operas and operettas in full production and performed in English. This course is dual listed as Music 163. Prerequisites: Instructor permission based on student audition. Mandatory decimal grading.

DRAMA 165
Musical Theatre Performance (2)
Singers and actors have the opportunity to perform musical theater in full production, accompanied by orchestra and presented in Shoreline's Campus Theater. This course is dual listed as Music 166. Prerequisites: Permission of instructor after audition. Mandatory decimal grading.

DRAMA 166
Musical Theatre Performance (3)
Singers and actors have the opportunity to perform musical theater in full production accompanied by orchestra and presented in Shoreline's Campus Theater. This course is dual listed as Music 165. Prerequisites: Permission of instructor after audition. Mandatory decimal grading.

DRAMA 171
Circus Performance: Balance and Motion (3)
Expand dramatic and kinesthetic abilities. Learn juggling, rope walking and other circus skills. Study and practice theories of balance and motion. Develop historical and international perspectives on performance art. Create a dramatic performance as a final project. Excellent training for actors. Student option grading.

DRAMA 200
Make-up (3)
Theory and practice in theatrical make-up. Student option grading.

DRAMA 201
Experimental Theatre (1-5)
Faculty-directed new play scripts or scripts done from an experimental point of view. Prerequisite: Admission by permission of instructor after audition. Student option grading.

DRAMA 202
Experimental Theatre (1-5)
Student-directed and/or written plays and faculty-directed short plays or advanced acting scenes. Faculty-directed reader's theater and advanced acting scenes. Prerequisite: Admission by permission of instructor after audition. Student option grading.

DRAMA 203
Experimental Theatre (1-5)
Faculty-directed play. Admission by audition and instructor permission at beginning of quarter. Student option grading.

DRAMA 207
Theatrical Production (1)
Laboratory for students participating in stage and video/film productions: acting, directing or technical. Prerequisite: Permission of drama instructor. Student option grading.

DRAMA 208
Theatrical Production (2)
Laboratory for students participating in stage and video/film productions: acting, directing or technical. Prerequisite: Permission from instructor. Student option grading.

DRAMA 209
Theatrical Production (3)
Laboratory for students participating in stage and video/film productions: acting, directing or technical. Prerequisite: Permission of drama instructor. Student option grading.

DRAMA 210
Stage Technology (5)
Lecture-laboratory in basic theories, techniques and equipment used for stage scenery, sound and lighting. Student option grading.

DRAMA 211
Beginning Stage Lighting (5)
Lecture-laboratory in the theories, drafting techniques and equipment used for stage lighting. Includes instruction in light pilot design and USITT drafting standards. Student option grading.

DRAMA 212
Beginning Stage Design (5)
Lecture-laboratory in the theories and drafting techniques used in designing stage settings. Student option grading.

DRAMA 213
Special Project: Scene Design (3)
A project proposed by the student and approved by a member of the drama staff who will act as advisor. Permission. Student option grading.

DRAMA 214
Special Project: Costume Design (3)
A project proposed by a student and approved by a member of the drama staff who will act as an advisor. Permission. Student option grading.

DRAMA 215
Special Project: Lightning (3)
A project proposed by a student and approved by a member of the drama staff who will act as advisor. Permission. Student option grading.

DRAMA 217
Special Project: Playwriting (3)
Seminar class meeting once a week with instructor. Purpose to work with playwrights on their own specific projects. Prerequisite: Permission of instructor. Student option grading.

DRAMA 218
Special Project: Directing (3)
A project proposed by a student and approved by a member of the drama staff who will act as advisor. Permission. Student option grading.

DRAMA 219
Special Project: Advanced Acting (3)
A project proposed by a student and approved by a member of the drama staff who will act as advisor. Permission. Student option grading.

DRAMA 220
Special Project: Movement (3)
A project proposed by a student and approved by a member of the drama staff who will act as advisor. Prerequisite: Permission of instructor. Student option grading.
EAST ASIA 210
Introduction to Chinese Civilization (5)
Survey of Chinese history, including the social, cultural and political development from early times to the present. Confucianism both in thought and social practice, dynastic cycles, China’s response to Western influence, nationalism, revolution, the rise and triumph of the Chinese Communist Party and the two Chinas since 1945 will be the major area of emphasis. ENG 101 is recommended. Prerequisite: EASIA 210 or ENG 101 is recommended. Mandatory decimal grading.

EAST ASIA 211
History of East Asia in Modern Times (5)
A general survey of modern Asian History from the end of the eighteenth century to the present. The Asian response to western technology, the rise of nationalism, imperialism and Japan as a world power, World War I and II, the rise of Communist China, the Korean conflict and the South Eastern Conflict. A particular emphasis will be placed on the Asian philosophy, culture, society, nationalism and communism. ENG 101 is recommended. Mandatory decimal grading.

EAST ASIA 212
Introduction to Contemporary China (5)
Introduction to post-1949 China designed for students with little or no background in China. A basic knowledge of the people, their history, culture, political and social systems, economics, education and world view will be presented. Mandatory decimal grading. Prerequisites: ENG 101.

EAST ASIA 213
Introduction to Japanese Civilization (5)
Survey of Japanese history, including the social, cultural, political and institutional development from early times to the present. The divine nature of the imperial institution, the rise and fall of feudal aristocracy, the Meiji Restoration, the modernization, industrialization, rise and decline of Japanese militarism will be the major areas of emphasis. Prerequisites: ENG 101. Mandatory decimal grading.

ECONOMICS 100
Survey of Economic Principles (5)
A survey of how capitalism works: how we choose what to buy, where to work, and how businesses and governments affect our lives, the environment and the world. Not recommended for students seeking a bachelor’s degree in economics or business. Prerequisites: Placement in English 100 or higher. Mandatory decimal grading.

ECONOMICS 200
Introduction to Microeconomics (5)
How do societies allocate resources to fulfill their wants through competitive markets, prices, and government intervention? Issues include: monopoly power, income inequality and the environment. Prerequisites: Math 099 (2.0 or higher) or one and one half years of high school algebra (C or better) and MATH 110 placement or above on Math ASSET score. Mandatory decimal grading.

ECONOMICS 201
Introduction to Macroeconomics (5)
What determines national economic growth and prosperity? What causes booms and busts? What are the effects of government policies regarding taxes, government spending and money supply? Issues include: unemployment, inflation, international trade and globalization. Prerequisites: ECON 200 (Introduction to Microeconomics) or equivalent with instructor permission. Mandatory decimal grading.

ECONOMICS 215
International Business: Environments and Operations (5)
The inter-relationships between culture, law, material and economic environments of the global business community will be explored. Emphasis will be placed on the key characteristics of international trade such as direct investment, joint ventures and licensing. Particular attention will be given to the international integration of Africa, Asia and Latin America. Dual listed as BusAd 201. Prerequisites: BUSAD 100 or instructor permission. Mandatory decimal grading.
COURSE DESCRIPTIONS

EDUCATION 105
Language and Literacy (5)
Students gain research-based knowledge and skills to support emerging literacy and language of children from birth to early childhood. Students learn developmentally appropriate and culturally sensitive strategies to promote pre-literacy and literacy learning in classroom and family settings. Student option grading.

EDUCATION 115
Culturally Relevant Anti-Bias Strategies (5)
Students will examine the impact of individual and institutionalized bias upon children and families of under-represented groups in American society. Will develop strategies that create anti-bias and culturally sensitive classrooms, that support social action, and that assist children and families in self-advocacy. Student option grading.

EDUCATION 120
Development of Bilingual/Bicultural Children (5)
This course will survey current state and federal laws and regulations impacting early childhood development programs. We will focus on the theoretical framework of management, management principles and task, budget development, environmental design, culturally relevant practices, professional ethics and advocacy. Student option grading.

EDUCATION 121
Strategies and Methods: Bilingual/Bicultural Education (5)
Designed for teachers in early childhood education, this course is an introduction to the fundamental principles of education for second language learners. Course content will include effects of culture on language development and effective bilingual strategies for first and second language acquisition. Student option grading.

EDUCATION 122
The Educational Context of Linguistics (5)
For teachers of young children, this course will focus on the development of language as one of the most powerful transmitters of culture. We will examine the role of language as a tool for social domination or liberation. Particular emphasis will be placed on issues of bilingualism, language development process, and literacy. Student option grading.

EDUCATION 123
Multi Ethnic Children and Families (5)
This class will focus on an overview of current trends and literature issues facing diverse families. We will explore culture and cognition, bilingualism, the biculturalization process, bilingual/bicultural child development, and cultural psychological dynamics as they relate to personality development and racial/ethnic identity development. Student Option grading.

EDUCATION 125
Introduction to Special Education (5)
This course provides information on techniques for working with individuals with special needs. The history, current research, best practices, skills, and social and political issues for individuals with disabilities will be addressed. Future goals in both special education and vocational training for exceptional populations will be discussed. Prerequisites: EDU 100 recommended. Student option grading.

EDUCATION 140
Instructional Methods: K-3 (5)
Course examines concepts, materials and methods in education. Emphasis will be on best practices for teaching reading, writing, math, science and social studies to young children in early elementary years. The methods and techniques will be presented from a multicultural perspective that supports the learning styles of individual children. Prerequisites: EDU 100 and EDU 101 recommended.

EDUCATION 150
Early Childhood Curriculum Development (5)
In this course students will examine theories and models of curriculum in early childhood education. Students will explore methods used in the early childhood field to meet culturally relevant needs of groups and individuals. Students will practice developing curricula in early childhood settings. Prerequisites: EDU 101 recommended. Student option grading.

EDUCATION 160
Programs for Infants and Toddlers (5)
This course will focus on the educational requirements and early intervention services for normally developing and ‘at risk’ infants and toddlers. Topics will include developmentally appropriate practices in programs for infants and toddlers. Students will develop program models and instructional materials for use with this age. Prerequisites: EDU 101 recommended. Student option grading.

EDUCATION 210
Best Practices in Special Education (5)
This course will examine theories and instructional methods used to teach exceptional students in regular and special education. We will develop strategies for collaboration between professionals and parents. Prerequisite: EDU 125 recommended. Student option grading.

EDUCATION 215
Family Systems (5)
This course examines family, school, and community as it relates to family structures and dynamics, interpersonal communication, parent-professional partnerships and resource coordination. Prerequisite: EDU 101. Student option grading.

EDUCATION 220
Administration and Supervision (5)
This course will survey current state and federal laws, rules and regulations impacting early childhood development programs. Focus on the theoretical framework of management, management principles and task, budget development, environmental design, culturally relevant practices, leadership, professional ethics and advocacy. Student option grading.

EDUCATION 250
Child Guidance and Classroom Management (5)
This course features a practicum experience, providing students concrete examples of the role of environment, adult’s behavior and interactions, and the early childhood curriculum play in guiding individual children’s behavior and managing large and small groups of children. Prerequisite: EDU 101. Student option grading.

EDUCATION 260
Student Internship I (5)
Students are placed in a classroom setting to apply skills in classroom management, curriculum design, material development and developmentally appropriate teaching practices. Each student is placed in a classroom and is expected to work as a team member in an educational setting, and demonstrate professional skills. Students develop a portfolio and attend a weekly seminar to debrief with other interns. Prerequisites: EDU 140 or 150 or 160 and EDU 250 and/or Instructor’s permission. Student option grading.

EDUCATION 261
Student Internship II (5)
This course is the advanced level of the student internship sequence. Students are placed in a classroom setting to apply skills in classroom management, curriculum design, material development and developmentally appropriate teaching practices. Each student is expected to work as a team member and demonstrate professional skills at an advanced level. Students attend a seminar to debrief with other interns. Prerequisite: EDU 260 and instructor permission. Student option grading.

EDUCATION 265
Issues and Trends in Childhood Education (5)
This course will examine, analyze and interpret issues and trends in Early Childhood Education within the context of a rapidly changing society. Topics will include educational reform, student assessment, teacher training, inclusion, multiculturalism and diversity, curriculum innovations, educational technology.

EDUCATION 281, 282, 283, 284, 285
Special Topics (1, 2, 3, 4, 5)
Course designed to reflect current research and special interest topics. Each seminar will focus on a single area as defined by the selected title. Student option grading.

EDUCATION 297, 298, 299
Special Project (1, 2, 3)

EDUCATION 199
Tutor Training Experience (1-3)
Orientation to tutoring skills and supervised tutoring experience in a lab/learning center assisting Shoreline students with writing, studying, reading and math. Periodic seminars with the instructor to discuss common concerns and tutoring issues. Prerequisite: for math tutoring, Math 120 with minimum grade of 3.2 in last two math courses; for English tutoring, minimum grade of 3.4 in English 101. Both require interview with instructor. Student option grading.

ENGINEERING 100
Introduction to Engineering and Design (4)
Introduction to the engineering profession and the engineering design process. Course includes guest speakers, team activities, and career planning. Communication, creative skills, and teamwork are developed utilizing journals, written reports, poster presentations, and sketching. Mandatory decimal grading.
### COURSE DESCRIPTIONS

#### ENGINEERING 101
**Engineering Graphics (5)**
Use of instruments, scales, techniques of lettering and line work. 3D visualization and fundamentals of orthographic projection including sections; isometric drawing; auxiliary views; dimensioning; simple rectilinear graphs, and introduction to CAD. Mandatory decimal grading.

#### ENGINEERING 103
**Applied Descriptive Geometry (5)**
The solution of engineering problems using graphical methods. Includes point, line and plane problems, intersections and developments, and forces in space. Drawings may be done in CAD if Engr 200 completed. Prerequisite: ENGR 101. Mandatory decimal grading.

#### ENGINEERING 111
**Introduction to Statics and Engineering Problem Solving (5)**
Introduction to fundamental engineering principles including dimensional analysis, vector algebra, statistics, and selected engineering topics. Designed to develop ability to analyze and solve engineering problems in a clear systematic manner. Prerequisite: Engr 101 and Math 120. (Math 120 may be taken concurrently.) Mandatory decimal grading.

#### ENGINEERING 121
**Plane Surveying (5)**
Plane surveying methods, use of engineer’s level, transit and tape; computation of bearings, plane coordinates, area; use of stadia surveying and study of the public land system and topographic mapping. Prerequisite: trigonometry and Drafting. Engr 101, Engr 111 or Engr 199 or permission. Mandatory decimal grading.

#### ENGINEERING 170
**Fundamentals of Material Science (5)**
Study the fundamental properties of engineering materials related to atomic, molecular and crystalline structures. The mechanical and physical properties of metals, ceramics, polymers, and composites will be studied. Prerequisite: Chem 140 or permission. Mandatory decimal grading.

#### ENGINEERING 200
**Introduction to Computer Aided Drafting (5)**
Basic commands; coordinate systems; data input; editing; layers; dimensioning; text commands; filing and plotting two dimensional construction; introduction to 3D modeling. Prerequisite: ENGR 101 or permission. Mandatory decimal grading.

#### ENGINEERING 201
**Advanced Computer Aided Drafting (5)**
Advanced applications of AutoCAD including: use of attributes; work with WBLOCK command; create sub-directories, menus and use of some DOS and Windows commands; 3D wire frames, surface and solid modeling. Prerequisite: Engr 200 or permission. Mandatory decimal grading.

#### ENGINEERING 205
**Solid Works and Parametric Modeling (3)**
Introduction to creating 3D CAD models using feature-based, parametric solid-modeling design; base, boss and cut features using extruded, revolved, simple swept and lofted shapes; capturing design intent using automatic or user-defined geometric and dimensional constraints; detail and assembly drawings. Prerequisites: ENGR 101 and MATH 099 with a 2.0 or better, or instructor permission. Mandatory decimal grading.

#### ENGINEERING 206
**Advanced Solid Works (3)**
Advanced 3D CAD models using SolidWorks parametric solid modeling; swept and lofted shapes; assembly interference checking, collision detection, dynamic clearance, physical dynamics, and simulation, surfaces, use of Photo Works rendering, and Cosmos FEA in linear static, frequency, buckling, and thermal analysis. Prerequisites: ENGR 205 with a 2.0 or better, or instructor permission. Mandatory decimal grading.

#### ENGINEERING 210
**Statics (5)**
Principles of engineering statics, basic concepts, resultants, force-couple relationships, equilibrium diagrams, equilibrium analysis, three-dimensional structures, two-dimensional frames, trusses, beams, and friction. Vector algebra used throughout the course. Prerequisite: ENGR 101, Engr 111 and Math 124. Math 124 may be taken concurrently. Mandatory decimal grading.

#### ENGINEERING 215
**Fundamentals of Electrical Engineering (5)**
Introduction to electrical engineering. Basic circuit and systems concepts, mathematical models of components. Kirchoff’s Laws. Resistors, sources, capacitors, inductors and operational amplifiers. Solution of first and second order linear differential equations associated with basic circuit forms. Prerequisite: Phys 122 may be taken concurrently and Math 126 must be completed. (Math 207 recommended). Mandatory decimal grading.

### Engineering Prerequisites and Schedule

**PLAN YOUR PROGRAM**

Check with your advisor for specific requirements.

![Course Schedule Diagram](image)
ENGINEERING 220
Mechanics of Materials (5)
An introduction to the mechanics of solids, strain and deformation, stress, stress-strain relationships; torsion, stresses due to bending; combined stresses using Mohr’s circle. Prerequisite: ENGR 210 and Math 125 (Math 125 may be taken concurrently.) Mandatory decimal grading.

ENGINEERING 230
Dynamics (5)
A general treatment of the dynamics of particles and rigid bodies using vectors; kinematics, kinetics, momentum and energy principles for particles and rigid bodies; use of total acceleration equation and Euler’s equations of motion. Prerequisite: Phys 121, Engr 210 and Math 126 (Math 126 may be taken concurrently.) Mandatory decimal grading.

ENGINEERING TECHNOLOGY 171
Introduction to Geographic Information Systems (4)
Basic principles of GIS, including map reading, interpretation and analysis, geographic coordinate systems and map projections; GIS databases and data sources; and basics of cartographic design. Elementary use of GIS software to view and interpret spatial data; manipulate attribute tables and plot maps. Mandatory decimal grading.

ENGINEERING TECHNOLOGY 172
Advanced Geographic Information Systems (4)
Application of GIS to environmental, engineering and business problems. Topics include conversion of geographic data from various source formats, managing attribute tables, using GIS for spatial analysis, and producing maps from GIS. The student plans and performs a GIS project involving data acquisition and assessment, analysis of spatial and tabular data using GIS software, cartographic design and presentation of results. Prerequisites: ENGR T 171. Mandatory decimal grading.

ENGINEERING TECHNOLOGY 180
Internship/Field Work Experience (1-8)
Field experience in the technical area of the student’s program. Arrangements and registration must be completed prior to the start of the quarter. Prerequisite: Permission only.

ENGINEERING TECHNOLOGY 255
Strength of Materials (5)
A continuation of statics, study of beams and columns, shear stresses, bending moments, torsion derived curves, stress-strain relationships, tension, and compression stresses. Prerequisites: Engr T 154. Mandatory decimal grading.

ENGINEERING TECHNOLOGY 266
Basic Hydraulics (5)
Study of basic hydraulic principles. Prerequisite: Phys 114 or permission. Mandatory decimal grading.

ENGINEERING TECHNOLOGY 287
Technical Illustration (5)
Isometric and dimetric drawing. Cutaway section views and exploded illustrations. Prerequisite: ENGR 101 and Engr 201 or permission. Mandatory decimal grading.

ENGINEERING TECHNOLOGY 289
Mechanical Detailing (5)
Preparation of industrial production drawings for mechanical components and devices that use seals, bearings, welded fabrications, castings and precision tolerances. Prerequisite: ENGR 102 or equivalent and Engr 200. Mandatory decimal grading.

ENGINEERING TECHNOLOGY 297, 298, 299
Special Project (1,2,3)

ENGINEERING TECHNOLOGY 154
Statics (5)
Study forces acting on bodies at rest or unaccelerated motion, including: concurrent coplanar, non-concurrent coplanar and three-dimensional force systems, analysis of structures and friction. Prerequisite: ENGR 101, Engr T 159 or permission. Mandatory decimal grading.

ENGINEERING TECHNOLOGY 159
Technical Orientation (5)
Introduction to the techniques and procedures for solving engineering problems. Basic geometry, trigonometric functions, vectors, unit systems and dimensional analysis. NOTE: Must have completed or be currently enrolled in Math 080 or Math 099. Mandatory decimal grading.

ENGINEERING TECHNOLOGY 163
Properties of Materials (4)
Introduction to the science of materials. Compare the atomic structure, microstructure and phases present in a material to the mechanical, physical, physical and electrical properties of metals, ceramics, polymer, and composites. Study basic tests used in a quality control lab. Mandatory decimal grading.

ENGINEERING TECHNOLOGY 170
Cartography (5)
A study of map use (reading, analysis and interpretation) with emphasis on topographic maps. Subject material includes horizontal position - Earth’s grid system and state coordinate systems, vertical position, and map projections. Prerequisite: ENGR 101 or high school technical drawing. Mandatory decimal grading.

ENGLISH 080
Critical Thinking in College and Life (10)
Students learn to think critically and reflectively by looking into themselves and out at their family, college, work and civic communities. Strategies for reading, writing, problem-solving, self-reflection, group process, time management, goal-setting and involvement are learned in the context of their own college and life interests. Prerequisite: Students need ASSET scores of 29 in Reading and 31 in Language Usage to take this class. Registration requires the signature of an approved advisor. Student option grading.

ENGLISH 090
Reading and Writing in the Academic Subjects (5)
Offered only in combination with Systk 100 for a total of 10 credits. Students learn about the various academic subjects and improve their reading, writing and critical thinking abilities in the subjects. The course helps students explore and understand their academic and career interests. Prerequisite: ASSET scores of 35 in Reading and 33 in Language Usage, or completion of English 080 or equivalent with a 2.0 or better, or instructor permission. Student option grading.

ENGLISH 099
Academic Skills Center (1-3)
Individualized, self-paced instruction in writing process, focusing on paragraph and essay-writing skills. May also include instruction on summaries, research writing, resumes, cover letters, book reports, spelling, punctuation and grammar. Does not replace Eng 091 or Eng 092. Useful for native speakers of English at all levels. Prerequisite: Non-native speakers of English must have completed or be enrolled in ESL Level IV. Mandatory P/NC grading.

ENGLISH 100
Analytical Reading and Writing (5)
Develop academic skills in critical reading, writing, and thinking that students need to perform college-level work. Readings may cross disciplines, genres, and cultures. Students will write essays that conform to college standards for development, organization, and mechanics. Prerequisites: ASSET scores of 40 in Reading and 37 in Writing, or completion of English 090 or equivalent with a 2.0 or better, or instructor permission. Student option grading.

ENGLISH 101
Composition and Expository Prose (5)
Students write essays that display focus, organization, appropriate style, and technical control. They develop skills in critical thinking and close reading of texts and respond in writing and discussion to assigned topics. Prerequisites: ASSET scores of 44 in Reading and 45 in Writing, or completion of ESL 100, English 100, or equivalent with a 2.0 or better, or instructor permission. Student option grading.
ENGLISH 102
Reasoning, Research, and Writing (5)
Focus on the process of research and writing related to particular topics or themes that will vary among sections of the course. Students will improve their skills as critical thinkers and researchers, who use both traditional and new information technologies, and writers of documented analysis and argumentation. Prerequisite: Completion of English 101 or equivalent with a 2.0 or better. Student option grading.

ENGLISH 201/201W
Introduction to Literature (5)
Introduction to the major genres of imaginative literature, including poetry, drama, short story and novel. Prerequisite: ENG 101 or equivalent with instructor permission. Student option grading.

ENGLISH 202/202W
Literature by Topic (5)
Intensive study of key topics in imaginative literature. Analysis and discussion of poetry, drama, short stories, essays and novels selected according to special concerns. Offerings will vary from quarter to quarter. See the time schedule for the current listing. Each section constitutes a separate class. A student may take more than one section of Eng 202. Prerequisite: ENG 101 or equivalent with instructor permission. Student option grading.

ENGLISH 231/231W
Survey of Shakespeare (5)
In-depth survey of seven Shakespeare plays, which may include The Taming of the Shrew, A Midsummer Night’s Dream, Othello, Hamlet, Macbeth, Richard III, and Henry V. Prerequisite: ENG 101, or equivalent with instructor permission. Student option grading.

ENGLISH 234/234W
Latin American Literature in Translation (5)
Latin American literature in translation with a particular emphasis on short stories and poetry. Specific authors studied will include Jorge Luis Borges, Octavio Paz, Sor Juana Inés de la Cruz, Julio Cortazar, Gabriel García Márquez, Pablo Neruda, Juan Rulfo, and others. Prerequisites: Eng 101, or equivalent with instructor permission. Dual listed as IAS 234/234W.

ENGLISH 257/257W
Introduction to Poetry (5)
Poetic techniques with emphasis on the 19th and 20th century American poets from Walt Whitman to Sylvia Plath. Prerequisite: ENG 101, or equivalent with instructor permission. Student option grading.

ENGLISH 258/258W
Introduction to Fiction (5)
Techniques of fiction; analysis of short stories and novels. Prerequisite: ENG 101, or equivalent with instructor permission. Student option grading.
ENGLISH 277
Beginning Short Story Writing I (5)
Narrative techniques focused mainly on the short story. Students analyze fiction by examining plot, character, atmosphere, point of view, metaphor and theme before writing their own works. Prerequisite: Eng 101. Student option grading.

ENGLISH 278
Beginning Short Story Writing II (5)
Continues the work of Eng 277: narrative techniques of the short story. Students analyze fiction by examining plot, character, atmosphere, point of view, metaphor and theme before writing their own works. Prerequisite: Eng 277. Student option grading.

ENGLISH 281/281W
European Literature: Greeks and Romans (5)
Early European Masterpieces: A survey of some classical Greek and Roman authors of epic, dramatic and lyric poetry which may include Aeschylus, Sophocles, Euripides, Sappho, Mimnermus, Pindar, Virgil, Horace, Catullus, Seneca and others. Greek and Roman mythology, institutions, mores and art forms will complement the course. Prerequisite: Eng 101, or equivalent with instructor permission. Student option grading.

ENGLISH 282/282W
European Literature: Middle Ages through the Renaissance (5)
European Masterpieces: A survey of the early Middle Ages to the Enlightenment. May include Hildegard Von Bingen, Wolfram, Christine De Pisan, Rabelais, Marie De France, Cervantes, Dante, Petrarca, Boccaccio, Machiavelli, Voltaire and others. Christianity, the rebirth of classical learning, nationalism, the imperium of reason, art and music and progress of science will complement the literature. Prerequisite: Eng 101, or equivalent with instructor permission. Student option grading.

ENGLISH 283/283W
European Literature: Modern and Contemporary (5)
European Masterpieces: A survey of 19th and 20th century authors from various countries which may include Goethe, Dostoevsky, Tolstoy, Chekov, Akhmatova, Nietzsche, Aichinger, Kafka, Moravia, Pirandello, Ionesco, Weil, Gide, Sartre, Camus, Marcel, Borges and others. The impact of technology, war and existential philosophy on art, literature and social structures will complement the course. Prerequisite: Eng 101, or equivalent with instructor permission. Student option grading.

ENGLISH 285, 292, 293, 294/294W
Special Topics (1,2,3)

ENGLISH 296
Tutoring Practicum (3)
Students receive credit for tutoring in the Reading/Writing Learning Center. Weekly seminar to discuss tutoring topics, issues and tutor concerns. Prerequisite: EDUC 199 and permission of instructor. Student option grading.

ENGLISH 297, 298, 299
Special Project (1,2,3)
ENGLISH AS A SECOND LANGUAGE/ADULT BASIC EDUCATION 012
ESL Level 1B: Evening Program (5)
This class emphasizes reading, writing, grammar, listening, and speaking in life-skills contexts such as providing personal information, describing daily events, and identifying coins, currency, and their value. Course content includes the weather, shopping, personal routines with time, days, months, and dates. Prerequisites: Successful completion of the previous level or appropriate placement on the SCC ESL placement test. Mandatory P/NC grading.

ENGLISH AS A SECOND LANGUAGE/ADULT BASIC EDUCATION 013
ESL Level 1C: Evening Program (5)
This class emphasizes reading, writing, listening, and speaking in life-skills contexts such as providing personal information and describing daily events, currency, jobs and work-related abilities. Prerequisites: Successful completion of the previous level or appropriate placement on the SCC ESL placement test. Mandatory P/NC grading.

ENGLISH AS A SECOND LANGUAGE/ADULT BASIC EDUCATION 015
Listening and Speaking in English 1 (5)
This beginning level class emphasizes listening and speaking for students to communicate within a variety of life skill contexts such as providing personal information, describing daily events, identifying coins, currency and their value, telling time, and identifying jobs and work related abilities. Prerequisites: appropriate placement on the SCC ESL placement test. Mandatory P/NC grading.

ENGLISH AS A SECOND LANGUAGE/ADULT BASIC EDUCATION 020
Integrated Skills in English 2 (10)
This second level emphasizes improvement in reading, writing, grammar, and speaking. Students describe daily-life events, requesting help with problems, and successfully reading, writing and speaking about familiar topics. Prerequisites: Successful completion of the previous level or appropriate placement on the SCC ESL placement test. Mandatory P/NC grading.

ENGLISH AS A SECOND LANGUAGE/ADULT BASIC EDUCATION 021
ESL Level 2A: Evening Program (5)
This class emphasizes reading, writing, speaking and listening for daily life events in home, work and community contexts. Students describe family members, request help with problems, and express greetings and partings, wants, likes, dislikes, opinions and future plans. Prerequisites: Successful completion of the previous level or appropriate placement on the SCC ESL placement test. Mandatory P/NC grading.

ENGLISH AS A SECOND LANGUAGE/ADULT BASIC EDUCATION 022
ESL Level 2B: Evening Program (5)
Students improve reading, writing, speaking, and listening in the contexts of the home, work and community. The emphasis is on describing daily-life events and family members, requesting help, banking and health including the names of body parts, illness and reporting injuries. Prerequisites: Successful completion of the previous level or appropriate placement on the SCC ESL placement test. Mandatory P/NC grading.

ENGLISH AS A SECOND LANGUAGE/ADULT BASIC EDUCATION 023
ESL Level 2C: Evening Program (5)
This class emphasizes continued work in reading, writing, listening and speaking skills in the context of the home, work, and community. Specific topics include foods, recipes, units of measure, interpreting maps, giving directions, and asking for assistance in directions. Prerequisites: Successful completion of the previous level or appropriate placement on the SCC ESL placement test. Mandatory P/NC grading.

ENGLISH AS A SECOND LANGUAGE/ADULT BASIC EDUCATION 025
Listening and Speaking in English 2 (5)
This level emphasizes listening and speaking, enabling students to function within school, daily-life, and work contexts. Students will also learn conversational strategies such as requesting, confirming and clarifying information. Prerequisites: Successful completion of the previous level or appropriate placement on the SCC ESL placement test. Mandatory P/NC grading.

ENGLISH AS A SECOND LANGUAGE/ADULT BASIC EDUCATION 030
Integrated Skills in English 3 (10)
This low intermediate class emphasizes reading a variety of texts on familiar subjects. Students write simple, developed paragraphs on familiar topics by combining advanced vocabulary and grammar structures. Prerequisites: Successful completion of the previous level or appropriate placement on the SCC ESL placement test. Mandatory P/NC grading.

ENGLISH AS A SECOND LANGUAGE/ADULT BASIC EDUCATION 031
ESL Level 3A: Evening Program (5)
Students improve listening and speaking skills, read short passages, and write well-organized paragraphs. They expand vocabulary and grammar usage. Topics include education, family, and culture. Prerequisites: Successful completion of the previous level or appropriate placement on the SCC ESL placement test. Mandatory P/NC grading.

ENGLISH AS A SECOND LANGUAGE/ADULT BASIC EDUCATION 032
ESL Level 3B: Evening Program (5)
Students continue to develop skills in reading short passages, writing well-organized paragraphs, developing vocabulary and grammar skills, and speaking and listening. Emphasis is on the topics of education, family, culture, leisure activities, filling out applications and participating in interviews. Prerequisites: Successful completion of the previous level or appropriate placement on the SCC ESL placement test. Mandatory P/NC grading.

ENGLISH AS A SECOND LANGUAGE/ADULT BASIC EDUCATION 033
ESL Level 3C: Evening Program (5)
Students continue to develop skills in reading short passages, writing well-organized paragraphs, developing vocabulary and grammar, and listening and speaking. Topics include education, accidents, injuries, emergencies, and personal, career and educational goals. Prerequisites: Successful completion of the previous level or appropriate placement on the SCC ESL placement test. Mandatory P/NC grading.

ENGLISH AS A SECOND LANGUAGE/ADULT BASIC EDUCATION 035
Listening and Speaking in English 3 (5)
This level emphasizes more complex listening and speaking activities within job, life-skill and social situations. Students acquire basic conversational skills and speak clearly enough to be understood by others. Prerequisites: Successful completion of the previous level or appropriate placement on the SCC ESL placement test. Mandatory P/NC grading.

ENGLISH AS A SECOND LANGUAGE/ADULT BASIC EDUCATION 040
Integrated Skills in English 4 (10)
At this intermediate level, students read more complex material and write well-organized, detailed paragraphs through developing vocabulary and acquiring more advanced grammar. Students will continue to develop life skills, eg. completing job applications. Prerequisites: Successful completion of the previous level or appropriate placement on the SCC ESL placement test. Mandatory P/NC grading.

ENGLISH AS A SECOND LANGUAGE/ADULT BASIC EDUCATION 041
ESL Level 4A: Evening Program (5)
At this intermediate level, students read more complex material, write well-organized, detailed paragraphs, listen to and discuss a variety of topics using more advanced vocabulary and grammar. Students develop life skills in contexts related to education, family, and culture. Prerequisites: Successful completion of the previous level or appropriate placement on the SCC ESL placement test. Mandatory P/NC grading.
ENGLISH AS A SECOND LANGUAGE/ADULT BASIC EDUCATION 042
ESL Level 4B: Evening Program (5)
Students learn to and discuss a variety of topics, read more complex material and write well-organized paragraphs using more advanced vocabulary and grammar. Emphasis is on work place skills. Prerequisites: Successful completion of the previous level or appropriate placement on the SCC ESL placement test. Mandatory P/NC grading.

ENGLISH AS A SECOND LANGUAGE/ADULT BASIC EDUCATION 043
ESL Level 4C: Evening Program (5)
Students read more complex material, write well-organized, detailed paragraphs, listen to and discuss a wide variety of topics using more complex grammar and expanded vocabulary. Emphasis is on completing accident and hospitalization reports, reporting hazards and emerg-encies. Prerequisites: Successful completion of the previous level or appropriate placement on the SCC ESL placement test. Mandatory P/NC grading.

ENGLISH AS A SECOND LANGUAGE/ADULT BASIC EDUCATION 044
Listening and Speaking in English 4 (5)
This course continues to emphasize listening and speaking at an increasingly complex level. Students improve listening skills relevant for everyday life as well as college preparation, and speak clearly enough to be understood by others. Prerequisites: Successful completion of ESL Level 3 or appropriate placement on the SCC ESL placement test. Mandatory P/NC grading.

ENGLISH AS A SECOND LANGUAGE/ADULT BASIC EDUCATION 045
ESL Medical Terminology (5)
This course helps prepare ESL students for health occupations classes. Reading, writing, listening and speaking skills are integrated with medical word elements, an overview of basic anatomy, and selected diseases, symptoms, tests, procedures, and health professions. It is taught by health and ESL professionals. Prerequisites: Successful completion of ESL Level 5 or ESL Placement into Level 4. Student option grading.

ENGLISH AS A SECOND LANGUAGE/ADULT BASIC EDUCATION 046
ESL Healthcare Overview (5)
ESL Healthcare Overview introduces students to careers in healthcare, common cultural differences found in healthcare settings, various study skills and an overview of basic human anatomy. Listening and speaking skills are integrated within course content. Prerequisites: Successful completion of ESL level 3 or placement into ESL level 4 or above. Mandatory P/NC grading.

ENGLISH AS A SECOND LANGUAGE/ADULT BASIC EDUCATION 050
Integrated Skills in English 5 (10)
This class emphasizes reading a variety of pre-college materials, writing well-developed paragraphs, listening to and speaking effectively with others, and transitioning to academic ESL classes. Prerequisites: Successful completion of the previous level or appropriate placement on the SCC ESL placement test. Mandatory P/NC grading.

ENGLISH AS A SECOND LANGUAGE/ADULT BASIC EDUCATION 051
ESL Level 5A: Evening Program (5)
Students are introduced to reading a variety of pre-college materials, writing well-developed paragraphs, listening to and speaking effectively with others on a variety of topics such as politics and government. Emphasis is on transitioning to academic ESL classes. Prerequisites: Successful completion of the previous level or appropriate placement on the SCC ESL placement test. Mandatory P/NC grading.

ENGLISH AS A SECOND LANGUAGE/ADULT BASIC EDUCATION 052
ESL Level 5B: Evening Program (5)
Students read a variety of pre-college materials, write well-developed paragraphs, and listen and speak effectively with others. Context areas include the community and technical college, university, and job training in various careers. Transitioning to academic ESL classes is emphasized. Prerequisites: Successful completion of the previous level or appropriate placement on the SCC ESL placement test. Mandatory P/NC grading.

ENGLISH AS A SECOND LANGUAGE/ADULT BASIC EDUCATION 053
ESL Level 5C: Evening Program (5)
Students read a variety of more complex pre-college materials, compose well-developed paragraphs, listen to and discuss in small groups topics on the environment, technology and science, health and health care. The emphasis is on transitioning to academic ESL classes. Prerequisites: Successful completion of the previous level or appropriate placement on the SCC ESL placement test. Mandatory P/NC grading.

ENVIRONMENTAL SCIENCE 101
Race to Save the Planet (5)
A college level telecourse in environmental science which also serves as a resource for courses in biology, ecology, geography, geology and political science. It will utilize written material and television programs and may also serve as a resource for local governments and community action groups in planning and development. Student option grading.

ENVIRONMENTAL SCIENCE 200
Wetland Delineation (4)
Provides students with a working understanding of wetland ecology and its application to wetland delineation. Topics include: soils, hydrology, vegetation, field sampling and delineation techniques, interpretation of aerial imagery, and wetland regulations. Field trips focus on sampling and wetland delineation techniques. Prerequisite: EnvSc 201 or equivalent or instructor permission. Student option grading.

ENVIRONMENTAL SCIENCE 201
Assess Wildlife Habitat, Vegetation Analysis/Air Photo Interpretation (3)
Covers the methods used in habitat assessment of terrestrial ecosystems, including techniques for vegetation analysis, map and aerial photo interpretation, concepts of forest ecology and wildlife biology, and an introduction to GIS analysis. Instruction includes field trips and participation in a habitat assessment project for a local watershed. Instructor permission.

ENVIRONMENTAL SCIENCE 202
Wetland Delineation (4)
Provides students with a working understanding of wetland ecology and its application to wetland delineation. Topics include: soils, hydrology, vegetation, field sampling and delineation techniques, interpretation of aerial imagery, and wetland regulations. Field trips focus on sampling and wetland delineation techniques. Prerequisite: EnvSc 201 or equivalent or instructor permission. Student option grading.

ENVIRONMENTAL SCIENCE 297, 298, 299
Special Project (1,2,3)

FRENCH 101
Elementary French (5)

FRENCH 102
Elementary French (5)
Continuation of French 101. Fast paced interactive approach to learning French: listening, speaking, reading and writing. Topics: present perfect, object pronouns, imperative. Vocabulary themes: reliving past events, travel, food, purchases, directions. Prerequisite: French 101 or equivalent with instructor’s permission. Student option grading.
FRENCH 103
Elementary French (5)
Continuation of French 102. Fast paced interactive approach to learning French: listening, speaking, reading and writing. Topics: imperfect, comparison, reflexive verbs, object pronouns, other tenses. Communication themes: past narrations, requests, daily activities, geography and history of France. Prerequisite: French 102 or equivalent with instructor permission. Student option grading.

FRENCH 201
Intermediate French (5)
Basic review of French in a multicultural context. Emphasis on listening and speaking; Cultural themes as they relate to the French-speaking world. Completion of the second-year sequence, French 201, 202, 203, meets multicultural requirement for Associate Degree. Prerequisite: French 103 or three to four years high school French or equivalent with instructor permission. Student option grading.

FRENCH 202
Intermediate French (5)
Basic review of French in a multicultural context. Continuation of 201 with emphasis on listening and speaking. Cultural themes as they relate to the French-speaking world. Completion of the second-year sequence, French 201, 202, 203, meets multicultural requirement for Associate Degree. Prerequisite: French 201 or four years high school French or equivalent or instructor permission. Student option grading.

FRENCH 203
Intermediate French (5)
Basic review of French in a multicultural context. Continuation of 202 with emphasis on listening and speaking. Cultural themes as they relate to the French-speaking world. Completion of the second-year sequence, French 201, 202, 203, meets multicultural requirement for Associate Degree. Prerequisite: French 201 or four years high school French or equivalent or instructor permission. Student option grading.

FRENCH 283, 285
Special Topic in French Literature (3,5)
Special topics in French literature. Course conducted in French. Student option grading.

FRENCH 297, 298, 299
Special Project (1,2,3)
Multicultural topics. Taken with French 202 and 203, course meets multicultural requirement for Associate degree. Student option grading.

GENERAL EDUCATION DEVELOPMENT 001
GED Preparation 1 (10)
Students read for understanding to complete some of the GED exams and write five connected paragraphs in essay format using academic English rules. Students solve a variety of math problems including whole numbers, decimals, fractions, ratios/proportions, percents, geometry and algebra. Mandatory P/NC grading. Credits depend upon student entry into program.

GEOGRAPHY 100
Introduction to Geography (5)
An introduction to the diverse field geography. Emphasis on the relevance of location, process, patterns and spatial relationships locally, regionally and globally. Survey of major topical issues studied by geographers including landforms, climate, population culture, cities and government. Prerequisites: Placement in ENG 100 or ESL 100 or successful completion of ENG 090 or ESL 099. Student option grading.

GEOGRAPHY 200
Introduction to Human Geography (5)

GEOGRAPHY 205
Cartography, Landforms and Landform Analysis (5)
An introduction to map use and landform analysis. Examination of the Earth’s surface features including landform processes, interpretation and representation. Topics presented at different levels of scale including global, North American and local (Northwest/Puget Sound) perspectives. A lab science distribution credit. Prerequisites: Placement in Eng 100 or ESL 100 or successful completion of Eng 090 or ESL 099. Student option grading.

GEOGRAPHY 206
Weather, Climate and Ecosystems (5)
An introduction to Earth’s atmosphere and ecosystems. Focus on atmospheric and biological patterns and processes and their measurement and representation. Topics presented in a global, North American and local (Northwest and Puget Sound) perspectives. A lab science distribution credit. Prerequisites: Placement in Eng 100 or ESL 100 or successful completion of Eng 090 or ESL 099. Student option grading.

GEOGRAPHY 250
Geography of the Pacific Northwest (5)
A survey of the physical, cultural and economic landscapes of the Pacific Northwest. Examination of the historic and contemporary relationships between people and places in the Northwest and how physical, cultural, political and economic processes have shaped the region. Student option grading.

GEOGRAPHY 277
Introduction to Cities (5)
Investigation of all aspects of the urban city environment. Examines gender, class and minority group issues in the urban setting. Utilizes principles of spatial organization to study the impact of services in cities to the identified group residents. Internal population patterns, land utilization, field research on applied urban problems will be explored. Dual listed as IAS 201. Student option grading.

GEOLOGY 100/100W
Encounters with Vanished Lives (5)
Enclosed in the rocks of our planet are the remains of lives whose stories ended long before ours began. These fossils have revealed to mankind stories of fantastic worlds. This course examines the history of life and the story of man’s discovery and confrontation with ancient life and its meaning. Student option grading. Internet option allows student to complete assignments while using and learning about Internet resources.

GEOLOGY 101
Physical Geology (5)
An introductory-level geology course exploring the Earth’s materials and major geologic processes including plate tectonics, earthquakes, vulcanism and mountain building. Student option grading.

GEOLOGY 103
Historical Geology (5)
Course offers a history approach to the knowledge of geology by tracing the evolution of the Earth and its biosphere from its origins. It involves the processes that shape and modify rocks and landscapes, tectonics and organic evolution. The lab includes learning to identify and interpret minerals, rocks, fossils. Prerequisite: Geol 101. Student option grading.

GEOLOGY 107W
Geologic Hazards (5)
An in-depth examination of the geologic hazards of the Pacific Northwest. Topics will include: earthquakes, volcanoes and landslides both globally and regionally. Emphasis will be on the science of these phenomena, effects on human populations, prediction, preparation and mitigation of the risk, and case studies. Class is recommended for students who have taken ENG 101. Student option grading.

GEOLOGY 120
Geology of National Parks (5)
An exploration of major geologic processes through the discovery of the origin of the landscapes and the study of the geologic history of America’s National Parks. Course will generally include one overnight week-end field trip to a National Park of Washington State. Prerequisites: Placement in English 100 or ESL or instructor’s permission. Student option grading.

GEOLOGY 201
Geological Study Tour (10)
Provides opportunities to visit and study the geology of near and distant lands, such as SW U.S., Canadian Rockies, Turkey, Tunisia, etc. Student option grading.

GEOLOGY 208
Geology of the Northwest (5)
Examines geological history of the Pacific Northwest. Includes classroom study of the rocks and structures of the Northwest provinces and four weekend field trips to examine the most important areas first hand. Prerequisite: Geol 101 and permission. Student option grading.

GEOLOGY 297, 298, 299
Special Project (1,2,3)
GERMAN 101
Elementary German (5)
Beginning German with emphasis on listening comprehension, speaking, reading, and writing. Topics include personal information, housing, family, friends, time, shopping. Grammar in context. Study of cultures of the German-speaking countries of Germany, Austria, Switzerland. Includes tape program and film series. Student option grading.

GERMAN 102
Elementary German (5)
Continuation of German 101 with increased emphasis on speaking, reading, writing skills. Supplementary library publications included. Prerequisite: Germn 101 or equivalent with instructor permission. Student option grading.

GERMAN 103
Elementary German (5)
Continuation of German 102. Completes a survey of language structure and contemporary culture. Topics include work, student life, public opinion, media, money. Grammar in context. Oral proficiency emphasized. Student option grading.

GERMAN 201
Intermediate German (5)
Continuation of German 103. Special emphasis on speaking, reading, writing. Contemporary German short stories and essays provide a basis for discussing history and current events. Extensive use of films, library materials, newspapers. Prerequisite: Germn 103 or equivalent with instructor permission. Student option grading.

GERMAN 202
Intermediate German (5)
Continuation of in-depth study of German language structure and culture. Prerequisite: German 201 or equivalent with instructor permission. Student option grading.

GERMAN 203
Conversation and Advanced Reading (5)
Special attention to oral fluency. Discussion of wide variety of general topics. Contemporary German plays and poetry complete the second-year program. Films and library materials. Prerequisite: German 202 or equivalent with instructor permission. Student option grading.

GERMAN 297, 298, 299
Special Project (1,2,3)
Student designs and submits for approval an individual project of particular interest. Requires permission by arrangement with instructor. Student option grading.

HEALTH CARE INFORMATION 120
Survey of Health Care Delivery (4)
Hospital ownership and organization, long term care, home health agencies, hospices, mental health treatment facilities, ambulatory care centers, social service agencies. Medical staff, educational preparation of health care professionals, medical ethics. Roles of government in health care. Health care financing. Prerequisites: Successful completion of ENG 100 or ESL 100 or ASSET test score showing readiness for ENG 101. Mandatory decimal grading.

HEALTH CARE INFORMATION 121
Hospital and Clinic Patient Records (5)

HEALTH CARE INFORMATION 122
Clinical Practicum I (1)
Experience in a hospital setting applying theory acquired in the first year of the Health Information Technician program. Filing, record retrieval, assembling records, performing discharge analysis, observing Admitting Office activities, evaluating and preparing release of information documents. Prerequisites: Formal acceptance into second year of Health Information Technology Program. Completion with a grade of 2.0 or higher or concurrent enrollment in HCI 121, 210, 221. HCI Advisor Permission required.

HEALTH CARE INFORMATION 132
Medical Terminology (5)
Study of word elements (prefixes, suffixes and roots), terms in anatomy and physiology, selected diseases, symptoms, procedures, x-ray and laboratory tests in common usage, and commonly used abbreviations. Accurate spelling, meaning of terms and word elements, and pronunciation. Prerequisites: Successful completion of ENG 100 or ESL 100 or ASSET test score showing readiness for ENG 101. Mandatory decimal grading.

HEALTH CARE INFORMATION 154
Medical Reimbursement Systems (5)
Overview of inpatient/outpatient health insurance plans, revenue cycles, health insurance claims, health insurance terminology, reimbursement methodologies for professional services, completion of the CMS 1500 and UB-92 billing forms, fraud and abuse/HIPAA issues, processing, various prospective payment systems. Prerequisite: Completion with a grade of 2.0 or higher of HCl 221 and HCl 227 or concurrent enrollment. Mandatory decimal grading.

HEALTH CARE INFORMATION 215
Human Diseases (5)
Introduction to principles of general mechanisms of diseases including etiology, prognosis, signs and symptoms. Relationship of normal body functioning to the physiologic changes that occur as a result of illness. The rationale for common therapies, laboratory tests and drugs for selected diseases. Prerequisites: Completion with a grade of 2.0 or higher of HCI 132 and BIOSC 108. HCl Advisor Permission required. Mandatory decimal grading.

HEALTH CARE INFORMATION 220
Quality Improvement in Healthcare (3)
Evaluation of medical care, relationship to the credentialing process in health care facilities. Utilization review requirements and procedures. Risk management principles. Professional Review Organization, Joint Commission on Accreditation of Health Care Organizations and National Committee for Quality Assurance. Prerequisites: Formal acceptance into second year of Health Information Technology Program. Completion with a grade of 2.0 or higher or concurrent enrollment in HCI 222, 223, and 225. HCI Advisor Permission required. Mandatory decimal grading.

HEALTH CARE INFORMATION 221
Basic ICD-9-CM Coding (5)
Instruction in, and practice with, the coding systems used in health care with emphasis on ICD-9-CM (International Classification of Diseases, 9th Edition, Clinical Modification). Implications of diagnostic related groups (DRGs) and their relationship to coding assignment and financing of hospital care. Prerequisite: Completion with a grade of 2.0 or higher HCl 132 and BioSci 108. HCl 214 and 215 or concurrent enrollment or instructor permission. Instructor consent needed prior to enrollment. Mandatory decimal grading.

HEALTH CARE INFORMATION 222
Intermediate Medical Coding (5)
Diagnosis and procedure coding using ICD-9-CM and CPT. Coding/abstracting, and entering data into computerized encoder/grouper/abstracting system. Utilize Diagnostic Related Groups (DRGs) and Ambulatory Payment Classification (APCs). Other Coding Systems, fraud and abuse, and compliance issues discussed. Prerequisite: Completion with a grade of 2.0 or higher of HCl 221 and 227. HCI Advisor Permission required. Mandatory decimal grading.
HEALTH CARE INFORMATION 223
Statistics in Health Care (4)
Basic mathematical functions, measures of central tendency and variability. Manual and computer graphic display. Inpatient census and discharged patient statistical calculations and reports, including commonly computed average and rates. Prerequisites: Formal acceptance into the second year of the Health Information Technology program. HCI Advisor Permission required. Mandatory decimal grading.

HEALTH CARE INFORMATION 224
Management for Health Information Supervisors (5)
Health Information Department management. Written/oral communications, legal aspects of supervision, job analysis/descriptions, interviewing, hiring, new staff orientation, staff education, motivation, problem employees, performance evaluations, unions, policies, procedures, office safety/layout, planning, budgets. Prerequisites: Formal acceptance into the second year of the Health Information Technology program. Completion with a grade of 2.0 or higher or concurrent enrollment in all HCI courses required in the HIT program. HCI Advisor Permission required. Mandatory decimal grading.

HEALTH CARE INFORMATION 225
Computers in Health Care (3)
Computer applications in health care, components of health care databases, overview of local/wide area networking, internet, security and implementation issues in a health information setting. Electronic health records, optical disk systems. Legal aspects of computerized records. Part of this course is web-based. Prerequisites: CIS 105 and HCI 121. HCI Advisor Permission required. Mandatory decimal grading.

HEALTH CARE INFORMATION 226
Alternative Care Record Systems (3)
Health record content requirements, information systems, and regulations in skilled nursing facilities, home health agencies, physician offices, hospital outpatient settings, prison health care, occupational health clinics, mental health settings. Cancer registries. Medical staff office. Health record consulting. Prerequisites: Formal acceptance in to the second year of the Health Information Technology program, completion with a grade of 2.0 or higher of HCI 222, 225, 227 and concurrent enrollment in HCI 231. HCI Advisor Permission required. Mandatory decimal grading.

HEALTH CARE INFORMATION 227
CPT Coding (4)

HEALTH CARE INFORMATION 228
Medical Coding Practicum (2)
Diagnosis and procedure coding using ICD-9-CM and CPT. Coding/abstracting health records and entering data into computerized encoder/group abstracting system. Utilize Diagnostic Related Groups (DRGs) and Ambulatory Payment Classifications (APCs). Coding compliance in relation to fraud and abuse in coding/billing. Prerequisite: Completion with a 2.0 or higher of HCI 222 and instructor permission. Mandatory P/NC grading.

HEALTH CARE INFORMATION 231
Clinical Practice (5)
Practice in coding, abstracting, utilization review, statistics, tumor registry, release of patient information, computer entry/data retrieval, analysis for documentation deficiencies, and filing in a variety of clinical sites: hospitals, long term care facilities, clinics, home health agencies, etc. Prerequisites: Formal acceptance into the second year of the Health Information Technology program, completion with a grade of 2.0 or higher of HCI 220, 222, 223, 225, HCI 220 and 226 or concurrent enrollment. HCI Advisor Permission required. Mandatory decimal grading.

HEALTH CARE INFORMATION 232
Management Practicum (4)
Capstone course. Students work in teams to research and present a written plan for a new health information department for a physician’s clinic. Investigate, select and present department functions, job descriptions, supplies and equipment lists, justifications, procedures, layout and an annual automated budget. Prerequisites: Formal acceptance into the second year of the Health Information Technology program, completion with a grade of 2.0 or higher or concurrent enrollment in all courses required in the HIT program. HCI Advisor Permission required. Mandatory decimal grading.

HEALTH CARE INFORMATION 281, 282, 283
Special Topics (1, 2, 3)
Permission only.

HEALTH CARE INFORMATION 297, 298, 299
Special Project (1, 2, 3)

HISTORY 101
Survey of the History of the United States (5)
Survey of United States historical and cultural development. Objective is to make the student aware of the Nation’s heritage and more intelligently conscious of the present. Prerequisites: ENG 101 recommended. Mandatory decimal grading.

HISTORY 111
Ancient and Medieval World: Early Civilization (5)
Survey of western civilization’s origins in the ancient Near East, Greece, Rome, Medieval Europe, Byzantium and Islam. An examination of social, political and intellectual traditions, including major religious and political institutions, medieval society, and urban culture to the Black Death. Mandatory decimal grading.

HISTORY 112
The Early Modern World: The Age of Ideas (5)
This course surveys western civilization from the thirteenth century to early nineteenth century with emphasis on the Renaissance, the Reformation, the rise and fall of absolute monarchs, the Scientific Revolution, the Enlightenment, the French Revolution, and the rise and fall of Napoleon. Mandatory decimal grading.

HISTORY 113
The Modern World: The Capitalist Era (5)
A survey of the modern era examining the Industrial Revolution, the development of modern ideologies and imperialism, the World Wars, the Cold War and contemporary global economic, social and political institutions. Mandatory decimal grading.

HISTORY 201
Ancient History (5)
A survey of political, economic, and social institutions and activities coupled with a description of religious life and cultural achievements from the beginnings of organized society through the ancient Mediterranean civilizations. In this class we take an interdisciplinary approach to subject learning. We also emphasize cultural diversity and multiple national influences in Europe and its reflections on a global world. Mandatory decimal grading.

HISTORY 202
Medieval European History (5)
Europe from the disintegration of the Roman Empire to 1300. The evolution of basic values and institutions of Western Civilization. In this class we take an interdisciplinary approach to subject learning. We also emphasize cultural diversity and multiple national influences in Europe and its reflections on a global world. Mandatory decimal grading.

HISTORY 231
Early Modern European History (5)
This course traces the political, social, economic and culture history of Europe from 1600 to 1815. In this class we take an interdisciplinary approach to subject learning. We also emphasize cultural diversity and multiple national influences in Europe and its reflections on a global world. Mandatory decimal grading.

HISTORY 232
Modern European History (5)
Political, social, economic, cultural history of Europe from 1815 to 1919. In this class we take an interdisciplinary approach to subject learning. We also emphasize cultural diversity and multiple national influences in Europe and its reflections on a global world. Formerly Hist 203. Mandatory decimal grading.

HISTORY 233
Contemporary European History (5)
Political, social, economic, and cultural history of Europe from the Treaty of Versailles to the present. In this class we take an interdisciplinary approach to subject learning. We also emphasize cultural diversity and multiple national influences in Europe and its reflections on a global world. Formerly Hist 204. Mandatory decimal grading.
HISTORY 241
History of the United States to 1877 (5)
A chronological and thematic study of U.S. history from Native America to Reconstruction with emphasis on its cultural, diplomatic, economic, political, and social elements. Mandatory decimal grading.

HISTORY 242
History of the United States Since 1877 (5)
A chronological and thematic study of U.S. history from the end of Reconstruction to the present with emphasis on its cultural, diplomatic, economic, political, and social elements. Mandatory decimal grading.

HISTORY 245
History of American Immigration
Survey of immigration to the United States from the era of colonization to the present. Examination of the process of immigration and adaptation to life in the United States as well as reaction to immigrants by native-born Americans. Focus includes Asia, European, Latin American, and contemporary African immigrants. Dual listed as IASTU 245.
Prerequisites: Either concurrent or successful completion of ENG 101 is recommended. Mandatory decimal grading.

HISTORY 254
Native American History: East Coast (5)
Survey of East Coast American Indian tribes, their culture and civilization. Dual listed as IASTU 254.
Prerequisites: ENG 101. Mandatory decimal grading.

HISTORY 255
American Indian History: Plains (5)
Survey of the American Indian history, culture and civilization from the opening of the Great Plains to non-Indians in 1850 to Wounded Knee Massacre of 1890. Dual listed as IASTU 255.
Prerequisites: ENG 101. Mandatory decimal grading.

HISTORY 256
Native American History: Northwest (5)
History of the Indians of the Oregon Territory (Washington, Oregon, Idaho and Montana to the Continental Divide), British Columbia, Alberta and Alaska. Includes history, culture, treaties and contemporary events from an Indian point of view. Dual listed as IASTU 256.
Prerequisites: ENG 101. Mandatory decimal grading.

HISTORY 260
The Contemporary Middle East (5)
Course will trace the history of the Middle East from World War I to the present. Historically the area has been labeled the Orient, the East, the Levant, or the Near East; at present the most widely used term is the Middle East. Mandatory decimal grading.

HISTORY 267
Pacific Northwest History (5)
A chronological and thematic approach to Pacific Northwest history (focused on Washington and Oregon but including areas from the Pacific Coast to the Rocky Mountains and from northern California to southern Alaska). It will emphasize cultural, economic, environmental, ethnic, political, and social topics. This course replaces History 264 and 265.
Student option grading.

HISTORY 270
African-American History: Ancient Africa to Reconstruction (5)
Survey of African Americans from the ancient African past to Reconstruction (1877). Emphasis on this people as an integral part of the growth and development of America. Focus on the heritage, struggles, social/political contributions and achievements. Dual listed as IASTU 211.
Student option grading.

HISTORY 271
African-American History: Reconstruction to Present (5)
Historical experience of African Americans, post Civil War to present day. Especially pertinent to the subject, the Civil Rights movement will be a major focal point in review. Dual listed as IASTU 212.
Student option grading.

HISTORY 274
U.S. and Vietnam (5)
Examines Vietnam’s history and America’s involvement, policies and objectives in Vietnam; includes the effect of the Vietnam War on the United States. Dual listed as IASTU 274.
Prerequisites: ENG 101. Mandatory decimal grading.

HISTORY 283
Historical Issues and Methods (5)
Introduction to selected sub-specialties within the discipline. Each course will focus on a single issue area and/or topic and will employ techniques and concepts of history.

HISTORY 297, 298, 299
Special Project (1,2,3)
Special tutorial projects in specific area of history. By arrangement with instructor.

HUMANITIES 111/111W
Exploring Culture: Changing World Order (5)
Explores changes in art, music, literature and religion as Western cultures move through major social/historical changes throughout 19th and 20th centuries. Focuses on search for individual and social identity in the collision of science, technology, relativism, increasing internationalism, political polarization and new philosophies regarding human nature and personal responsibility. Mandatory decimal grading.

HUMANITIES 116W
Design: Light and Color (5)
Overview of the physics of light applied to art: transmission, reflection, refraction, diffraction, diffusion, polarization, transduction, additive/subtractive color theories and basics of 2D/3D design. Students create art products and write abstracts. Dual listed as Art 111W.
Student option grading.

HUMANITIES 150
Critical Thinking Seminar (2)
Interdisciplinary seminar focuses on development of student academic thinking processes. These thinking processes include skills and attitudes needed to induce, create, deduce, test, apply knowledge. Student option grading.

HUMANITIES 151/151W
Perspectives on Dying (5)
Interdisciplinary course exploring attitudes about death, both societal and personal. Needs and concerns of persons in life-threatening situations. Guidelines to interaction. Legal, religious, medical, ethical issues. Student option grading.

HUMANITIES 160/160W
Culture and Science (5)
The distinctive culture of the West evolved from a series of physical explanations of the universe. Each new explanation brought unsettling changes in culture. This class studies the impact of eight such decisive changes. Student option grading.

HUMANITIES 161
World Dance: Pacific Rim (3)
Class will explore various Pacific Rim cultures through the medium of dance. Lecture, demonstration and film will be followed by the physical experience of learning dances from around the world. It will provide dynamic learning through a combination of intellectual and experiential activities. Dual listed as PE 161. Student option grading.

HUMANITIES 162
World Dance: Europe and Africa (3)
Class will explore various European and African cultures through the medium of dance. Lecture, demonstration and film viewing will be followed by the physical experience of learning dances from around the world. It will provide a dynamic learning experience through a combination of intellectual and experiential activities. Dual listed as PE 162. Student option grading.
HUMANITIES 275
In Search of the Goddess: Images of Women (5)
Explore visual/written images of women in the Ancient World and Western cultures over the centuries. Examine how these images have changed as the roles of women have changed in literature, art, religion, politics and economics. Analyze narratives of goddesses/women, their symbols and their paths to resistance and power. Prerequisites: ASSET/COMPASS placement in English 101 or higher. Student option grading.

HUMANITIES 281W, 282W, 283W
Special Topics (1,2,3)

HUMANITIES 281, 282, 283, 284, 285
Special Topics (1,2,3,4,5)

HUMANITIES 297, 298, 299
Special Project (1,2,3)
Individual tutorial projects in specific areas of the humanities. Permission of instructor. Student option grading.

HUMAN DEVELOPMENT 101
College Orientation and Success (2)
This course focuses on building skills for student success at Shoreline Community College. Students will be introduced to resources necessary for academic and career decision making, and to many skills, which are necessary to succeed in college. Focus is on academic and career planning, goal setting, enhancing research and study skills, time management and mental health issues as they relate to wellness. Mandatory P/NC grading.

HUMAN DEVELOPMENT 105
Career Exploration and Life Planning (2)
For students who want to increase their awareness of their educational and vocational choices: take and analyze interest and personality tests; examine labor market projections; explore your “self” and the world of work. Take charge of your life planning and career choices! Mandatory P/NC grading.

HUMAN DEVELOPMENT 130
Stress Management (2)
Provides students with an understanding of the effects of stress on health, happiness and performance. Also examines personal stressors and stress reduction skills. Mandatory P/NC grading.

HUMAN DEVELOPMENT 140
Improving Relationships (2)
Designed to help students communicate effectively with those closest to them. We will explore communication skills that enrich relationships. Mandatory P/NC grading.

HUMAN DEVELOPMENT 280, 281, 282, 283, 284, 285
Special Topics (.5,1,2,3,4,5)

HUMAN DEVELOPMENT 297, 298, 299
Special Project (1,2,3)

INFORMATICS 150
Research in the Information Age (5)
Examines strategies for locating, evaluating and using information resources, with attention to information access issues. Students practice finding, evaluating and using a variety of information resources, including library databases, Internet, and other standard research tools, within a subject area. Mandatory decimal grading.

INTERNATIONAL STUDIES 101
Survey of Contemporary Global Issues (5)
A survey of contemporary global issues and their historical origins drawing on knowledge and methodologies from multiple disciplines. Issues presented by faculty members from diverse academic fields will foster awareness of challenges facing different societies in an age of global interdependence. Prerequisites: Placement in English 101 or higher. Mandatory decimal grading.

INTERNATIONAL STUDIES 200 (5)
States and Capitalism: Origins of the Modern World
Origins of the modern state system, and of the world market in Europe. Analysis of interacting forces of politics and economics worldwide from 1500 to World War II. Prerequisites: ENG 101 or equivalent test scores. Student option grading.
INTERNATIONAL STUDIES 201  
Introduction to International Political Economy (5)  
International political economy in the post World War II era. Analysis of the interaction of modern nation-states (politics) and world markets (economics); examination of the new international economic and political order and its crises in the 1970’s and 1980’s, including East and West rivalry and relations between more developed and less developed countries. Prerequisites: ENG 101 or equivalent test scores. Student option grading.

INTERNATIONAL STUDIES 202  
Cultural Interactions in an Interdependent World (5)  
This course explores the significance of culture in international affairs. It will examine the meaning of culture and world view using the tools of Western sociologists and anthropologists. Students will use these tools to study the interactions among two or three selected societies and cultures. Will examine American society and the impact of its cultural values on its citizens and the rest of the world. Intellectual, cultural, political, social and artistic aspects as well as historical factors will be explored. Prerequisites: ENG 101. Student option grading.

INTERNATIONAL STUDIES 285  
Special Topics (5)  

INTERNATIONAL STUDIES 297, 298, 299  
Special Project (1,2,3)  
Additional independent study and research on an approved topic. Permission of instructor required. Mandatory decimal grading.

INTRA-AMERICAN STUDIES 102  
Multicultural Issues: Culture, Communication, Change (3)  
A course designed to develop an understanding of cultural and gender differences in American society, to identify personal values and to recognize the implications of interdependency among diverse societies so that students are prepared to communicate effectively within and across cultures in a multicultural society. Credit for both IAStu/SpCmu 102 and 103 will not be granted towards the degree. Dual listed as SpCmu 102. Prerequisites: ASSET placement of ENG 101. Student option grading.

INTRA-AMERICAN STUDIES 103  
Introduction to Multicultural Studies (5)  
This course is designed to help students develop an understanding of issues related to race, social class, gender, sexual orientation, disabilities and culture and the role these issues play in the distribution of power and privilege in the United States. Prerequisites: Successful completion of Eng 100 or placement into Eng 101. Credit for both IAStu/SpCmu 102 and IAStu 103 will not be granted towards the degree. Student option grading.

INTRA-AMERICAN STUDIES 109  
American Popular Music (5)  
Historical, cultural, social and stylistic study of American popular idioms from their African and European roots to the present. Focus on contemporary styles such as early Rock and Roll from its roots, Folk, Blue Grass, Country-Western, Blues, Heavy Metal, Rap and Jazz. Key artists contributing to the various periods of development will be discussed. Various facets of the music industry will be examined to gauge its influence on musical taste and style. Dual listed as Music 109. Student option grading.

INTRA-AMERICAN STUDIES 115  
Contemporary Filipino-American History/Culture (5)  
A course designed to develop an understanding of the contemporary Filipino-American history, values, social kinships, problems and survival strategies and recognize the contributions of Filipino-Americans in the development of U.S. society. Student option grading.

INTRA-AMERICAN STUDIES 182, 183, 184  
Special Topics (2,3,4)  
Course designed to reflect current research and emphasis on a specific topic. Each seminar will focus on areas as defined by selected title. Student option grading.

INTRA-AMERICAN STUDIES 200  
Introduction to Gender and Ethnic Studies (5)  
Multicultural and multiracial research and scholarship designed to provide knowledge in the study of ethnicity, gender and class in America. A study and analysis of relationships among groups; specifically, Euro-American, African, Asian, Native American, Latino(a) groups and gender. Focus on interdisciplinary, ethnic specific, comparative concepts, theories and methods of inquiry which shape the character of these communities and their relationship to the concept of pluralism. Exploration of the nature and scope of the relationship between minority groups, including women and the dominant group in the U.S. Emphasis on social institutions, histories, cultural diffusion, racial conflict, etc., from the minority viewpoint. Prerequisite: ENG 101. Student option grading.

INTRA-AMERICAN STUDIES 201  
Ethnic Urban Patterns (5)  
Investigation of all aspects of the urban city environment. Examines gender, class and minority group issues in the urban setting. Utilizes principles of spatial organization to study the impact of services in cities to the identified group residents. Internal population patterns, land utilization, field research on applied urban problems will be explored. Dual listed as Geog 277. Student option grading.

INTRA-AMERICAN STUDIES 202  
Sociology of Minority Groups (5)  
Use of sociological theories and research to examine the current and historical issues confronting American ethnic and racial minority groups. The course evaluates the socio-cultural context of group environments. Explores both the history and sociological concepts of culture and mores unique to various groups. Course focuses on the assimilation of certain groups, on religious beliefs, status, biases, stereotypes, discrimination, prejudice, gender, class and minority and majority group relations past and present. Dual listed as Soc 288. Student option grading.

INTRA-AMERICAN STUDIES 203  
Arab American Survey (5)  
An introductory survey course on the study of the historical and geographical origins of the Arab-American immigrants. Focus on the division, sects and dimensions of their religious identifications, their common geographical locations, career choices and socio-economic status. The course analyzes population growth and social development of the Arab as an ethnic group member in America and their contributions to the American culture. Emphasis on the cultural mores, customs, arts, traditions, literature, political ties to the Middle East and the political motivations of this group as they adapt and assimilate to both the American culture and International life. Student option grading.

INTRA-AMERICAN STUDIES 206  
History of Jazz (5)  
Historical, Cultural, Social and Stylistic study of Jazz History from their African and European roots to the present. Focus on its beginnings in New Orleans to the present day avant-garde artist. Emphasis on form, structure, social background and the contribution of Jazz to music in America. Prerequisite: Placement in ENG 101 recommended. Student option grading.

INTRA-AMERICAN STUDIES 210  
African Cultures (5)  
Survey of ancient, medieval and modern peoples of Africa. Emphasis on social, religious, political institutions and contributions of Africans to World Culture. Student option grading.

INTRA-AMERICAN STUDIES 211  
African-American History: Ancient Africa to Reconstruction (5)  
Survey of African Americans from the ancient African past to Reconstruction (1877). Emphasis on this people as an integral part of the growth and development of America. Focus on the heritage, struggles, social/political contributions and achievements. Dual listed as Hist 270. Transfers as a linked sequence course.

INTRA-AMERICAN STUDIES 212  
African-American History: Reconstruction (5)  
Historical experience of African Americans, post Civil War to present day. Especially pertinent to the subject, the Civil Rights movement will be a major focal point in review. Dual listed as Hist 271. Transfers as a linked sequence course.
INTRA-AMERICAN STUDIES 220
Minority Literature (5)
Survey of American literature. Focus on major ethnic groups: Africans, Hispanics, Asian, American Indians. Course traces evolution of the unique ethnic experiences which gave rise to the various forms of 20th century literature. Student option grading.

INTRA-AMERICAN STUDIES 234/234W
Latin American Literature in Translation (5)
Latin American literature in translation with a particular emphasis on short stories and poetry. Specific authors studied will include Jorge Luis Borges, Octavio Paz, Sor Juana Inez de la Cruz, Julio Cortazar, Gabriel Garcia Marquez, Pablo Neruda, Juan Rulfo, and others. Prerequisites: Eng 101, or equivalent with instructor permission. Dual listed as ENG 234/234W. Student option grading.

INTRA-AMERICAN STUDIES 245
History of American Immigration (5)
Survey of immigration to the United States from the era of colonization to the present. Examination of the process of immigration and adaptation to life in the United States, as well as reaction to immigrants by native-born Americans. Focus includes Asia, European, Latin American, and contemporary African immigrants. Dual listed as HIST 245. Prerequisites: Either concurrent or successful completion of ENG 101 is recommended. Mandatory decimal grading.

INTRA-AMERICAN STUDIES 254
Native American History: East Coast (5)
Survey of East Coast American Indian tribes, their culture and civilization. Dual listed as HIST 254. Prerequisite: ENG 101. Student option grading.

INTRA-AMERICAN STUDIES 255
American Indian History: Plains (5)
Survey of the American Indian history, culture and civilization from the opening of the Great Plains to non-Indians in 1850 to Wounded Knee Massacre of 1890. Dual listed as HIST 255. Prerequisite: ENG 101. Student option grading.

INTRA-AMERICAN STUDIES 256
Native American History: Northwest (5)
History of the Indians of the Oregon Territory (Washington, Oregon, Idaho and Montana to the Continental Divide), British Columbia, Alberta and Alaska. Includes history, culture, treaties and contemporary events from an Indian point of view. Dual listed as HIST 256. Prerequisite: ENG 101. Student option grading.

INTRA-AMERICAN STUDIES 270
Asian American Studies (5)
The study of Asian Americans in the United States from historical, cultural, economic, and sociological perspective. The emphasis will be on analyses of Asian American ethnic communities (primarily Japanese, Chinese, Filipinos, Korean, Vietnamese, and Pacific Islanders) and their social institutions, activities, and problems. Mandatory decimal grading.

INTRA-AMERICAN STUDIES 274
U.S. and Vietnam (5)
Examines Vietnam's history and America's involvement, policies and objectives in Vietnam; includes the effect of the Vietnam War on the United States. Dual listed as HIST 274. Mandatory decimal grading.

INTRA-AMERICAN STUDIES 282
Gender, Violence and Social Change (5)
Study of current research and issues on the social, psychological, legal and political implications of gendered abuse, and instances when women are the majority of victims. Areas of study include child abuse, rape, domestic violence, and sexual harassment. Dual listed as Women 282. Formerly Women and Abuse. Prerequisites: Recommended English 101. Student option grading.

INTRA-AMERICAN STUDIES 283
Women of Power (5)
Students will study the relationship between women and power. Topics include barriers to acquiring power, strategies for obtaining power, and uses of power. Students will research several powerful women. Emphasis is on class discussion and collaboration. Open to women and men. Dual listed as WOMEN 283. Prerequisites: Recommend ENG 101. Student option grading.

INTRA-AMERICAN STUDIES 284
Gender, Race and Class (5)
This course explores the ways in which one's gender, race, class and sexual orientation affect access to, participation in, and treatment by a variety of social institutions. We study the legal system, education, and the media as well as actions to confront systems of oppression in the U.S. Dual listed as Women 284. Student option grading.

INTRA-AMERICAN STUDIES 285
Special Topic (5)
The course is designed to reflect current research and emphasis on special topics.

INTRA-AMERICAN STUDIES 297, 298, 299
Special Project (1,2,3)
Additional independent study and research on an approved topic. Permission of the instructor required. Student option grading.

JAPANESE 111
First Year Japanese (5)
Introduction to modern Japanese conversation and grammar taught in communicative approach. Listening, speaking, reading and writing Japanese. Hiragana characters introduced. Topics: self-introduction, greetings, shopping and daily activities. No previous knowledge of the language required. Prerequisite: Japan 112 or equivalent with instructor permission. This course is not recommended for auditors or for those students who have successfully completed a more advanced level of Japanese. Student option grading.

JAPANESE 113
First Year Japanese (5)
A continuation of Japanese 112 with more vocabulary, more complicated sentence structure, continued work on script including Kanji characters. Prerequisite: Japan 112 or equivalent with instructor's permission. This course not recommended for auditors or for those students who have successfully completed a more advanced level of Japanese. Student option grading.

JAPANESE 211
Second Year Japanese (5)
Review of Japanese in a cultural context using the communicative approach. Topics: various speech styles, basic sentence patterns, scanning authentic materials. Communication themes: health, hospital, personal relationships, social life, family life, shopping, department store, fashion, aesthetics and geography. Prerequisite: Japan 113 or 3-4 years of high school Japanese or equivalent with instructor permission. Student option grading.

JAPANESE 212
Second Year Japanese (5)
Review of Japanese in a cultural context. Continuation of 211. Topics: transitive and intransitive verbs, conjunctions, relative clauses, reading and writing using authentic materials. Communication themes: bookstores, public transportation, directions, coffee shops, hobbies, traveling, Japanese houses, expressing apology, excuses, modesty, accepting an offer. Prerequisite: Japan 211 or four years of high school Japanese or equivalent with instructor permission. Student option grading.

JAPANESE 213
Second Year Japanese (5)
Review of Japanese in a cultural context. Continuation of 212. Topics: potentials, imperatives, giving and receiving, volitional form, reading and writing using authentic materials. Communication themes: lost and found office, university libraries, taxi, life and career. Introduction to the Japanese novel and folk tales. Prerequisite: Japan 212 or four years of high school Japanese or equivalent with instructor permission. Student option grading.

JAPANESE 285
Special Topics (5)

LEARNING CENTER NORTH 001
GED Basics (10)
Students read for understanding and prepare for GED exams, write connected paragraphs in essay format, apply mathematical concepts and procedures to solve problems, etc. Mandatory P/NC grading. Credits depend upon student entry into program.

LEARNING CENTER NORTH 002
GED Advanced (10)
Students read for understanding and prepare for GED exams, write connected paragraphs in essay format, apply mathematical concepts and procedures to solve problems, etc. Mandatory P/NC grading. Credits depend upon student entry into program.
LIBRARY 190
Introduction to Digital Media (5)
Overview of basic digital media concepts, with emphasis on digital imaging using scanner, digital camera/camcorder, and consumer-grade PC-based video editing system. Students design and produce simple digital media projects suitable for e-mail or the Internet. Familiarity with Windows environment helpful but not required. Student option grading.

LIBRARY 297, 298, 299
Special Project (1, 2, 3)

MACHINIST TRAINING 170
Machinist Training (20)
Students in class 30 hours/week. Study includes machining on the engine lathe, milling machine, drill press and layout. Emphasis is placed on shop mathematics, blueprint reading, and shop theory. Permission of instructor. Mandatory decimal grading.

MACHINIST TRAINING 171
CNC Operators Training (20)
Students in class 30 hours/week. Study includes an introduction to CNC machining, programming, set-up and operation, blueprint reading, shop mathematics and shop theory. Permission of instructor. Mandatory decimal grading.

MACHINIST TRAINING 172
CNC Operators Training (20)
Students in class 30 hours/week. Study includes advanced conventional machining, CAM programming, set-up and operation, inspection and layout, shop mathematics, blueprint reading, shop theory and geometric tolerancing. Special emphasis placed on production machining. Permission of instructor. Mandatory decimal grading.

MACHINIST TRAINING 181
Precision Measuring Level I (3)
A competency-based curriculum designed to introduce the student to precision measuring. This course presents the introductory concepts of measuring systems, and focuses on the selection, use and care of measuring tools usually associated with the precision machining industry. Instructor permission required. Mandatory decimal grading.

MACHINIST TRAINING 182
Blueprint Reading Level I (3)
A competency-based introduction to blueprint reading. Students will learn the essential content of blueprints, including drawing types, drawing content, theory of projection, dimensioning systems, revision blocks, and all associated nomenclature. Instructor permission required. Mandatory decimal grading.

MACHINIST TRAINING 183
Applied Mathematics Level I (3)
A competency-based applied mathematics curriculum designed to introduce the student to industry applications for mathematics. Topics covered will include fractions, decimals, combined operations, powers and roots of numbers, elementary applications for algebra, plane geometry and right angle trigonometry. Instructor permission required. Mandatory decimal grading.

MACHINIST TRAINING 184
Theory of CNC Machining (3)
A competency-based curriculum designed to introduce the student to CNC machining. This course presents the introductory concepts of numerically controlled machining technology. Additional studies will focus on cutting tools, tool offsets, how they are used by the machine, quadrant systems, letter codes, fixed cycles, and simple part programming. Instructor permission required. Mandatory decimal grading.

MACHINIST TRAINING 185
CNC Turning and Milling Lab (12)
This lab-oriented program emphasizes the hands-on side of CNC machining. Students will concentrate on the set-up and operation of CNC turning and machining centers. Because this class is mostly lab, it is best suited to those who have already attended Mach 185 or have equivalent industry experience. Prerequisites: Students must pass an entrance examination. Permission of the instructor. Mandatory decimal grading.

MACHINIST TRAINING 186
CNC Operator Training (21)
300-hour competency-based curriculum, builds on the skills students learned during initial training. Instruction focuses on set-up and operation of CNC machining and turning centers utilizing time-saving accessories. Additionally, aerospace blueprint reading, applied mathematics, precision measuring and inspection, cutting tools and machine-ability of materials. Permission of instructor required. Mandatory decimal grading.

MANUFACTURING 090
Certificate in Basic Manufacturing Orientation (1)
This course is the overview course for the Certificate in Basic Manufacturing and introduces the fundamental concepts of manufacturing, and the guidelines and requirements of the Manufacturing Technology Program. Prerequisites: Placement at ENG 080 or ESL 098. Mandatory P/N grading.

MANUFACTURING 091
Fundamental Personal Skills in Manufacturing—Listening, Observation, Teamwork (2)
This course introduces fundamental skills required to effectively function in a manufacturing environment. Listening-following simple spoken instructions, Observation-following clearly demonstrated instructions, and Teamwork-solving basic manufacturing problems in groups. Prerequisites: Placement at ENG 080 or ESL 098. Mandatory P/NC grading.

MANUFACTURING 092
Personal Skills in Manufacturing—Listening, Observation, Teamwork (2)
This course introduces fundamental skills required to effectively function in a manufacturing environment: Listening-following simple spoken instructions, Observation-following clearly demonstrated instructions, and Teamwork-solving basic manufacturing problems in groups. Prerequisites: Successful completion of MFGT 091. Mandatory P/NC grading.

MANUFACTURING 093
Fundamental Personal Skills in Manufacturing, Reading, Writing, Mathematics (2)
This course provides fundamental skills required to function effectively in a manufacturing environment: Reading-comprehending simple manufacturing materials, Writing-writing simple manufacturing instructions, and Mathematics-performing simple operations. Prerequisites: Placement at ENG 080 or ESL 098, and placement at MATH 070. Mandatory P/NC grading.
**MANUFACTURING 094**
Personal Skills in Manufacturing, Reading, Writing, Mathematics (2)
This course provides additional skills required to function effectively in a manufacturing environment: Reading-comprehending a variety of manufacturing materials, Writing-writing manufacturing instructions and documents, and Mathematics-solving simple manufacturing problems. Prerequisites: MFTG 093. Mandatory P/NC grading.

**MANUFACTURING 095**
Technology in Manufacturing (2)
This course introduces the different types of technology used in Manufacturing, including personal computers, business management systems, ERP/MRP (enterprise resource planning/materials requirements planning/material planning systems, data collection and analysis systems, and (CNC) computer numerical control (CNC) controlled or automated equipment. Prerequisites: Placement at ENG 080 or ESL 098. Mandatory P/NC grading.

**MANUFACTURING 101**
Health and Safety in Manufacturing (2)
This course provides a comprehensive overview of health and safety issues while it emphasizes paying attention to details, reviews hazards to watch for and discusses how to respond in an emergency. Prerequisites: Placement at ENG 080 or ESL 098 or successful completion of concurrent enrollment in MFTG 090 and MFTG 095. Mandatory P/NC grading.

**MANUFACTURING 102**
Print Reading in Manufacturing (1)
This course provides the fundamentals of mechanical print reading, including different types of mechanical drawings and components of each drafting type. Students will read and interpret drawings as well as sketch their own. Prerequisites: Placement at Eng 100 or ESL 100 or the successful completion of Eng 090/090Sk or ESL 099. Mandatory decimal grading.

**MANUFACTURING 103**
Basic and Precision Measurement with Introduction to SPC (Statistical Process Control) (2)
This course provides the fundamental skills required to perform basic and precision dimensional measurements, including the use of rules, scales, tape measures, calipers, micrometers and the introduction of Statistical Process Control (SPC). Prerequisites: Placement at ENG 080 or ESL 098 and successful completion or concurrent enrollment in MFTG 090, MFTG 095 and placement at MATH 070. Mandatory P/NC grading.

**MANUFACTURING 110**
Certificate in Basic Manufacturing Capstone (2-5)
This course is the Capstone Project for the Certificate in Basic Manufacturing and introduces the concepts of manufacturing, including technology sectors, team concepts, team development, team problem solving, product design, engineering impacts, economics, marketing, and entrepreneurship. Prerequisites: Successful completion or current enrollment in MFTG 090, MFTG 095, MFTG 101, MFTG 102, MFTG 103. Mandatory P/NC grading.

**MANUFACTURING 115**
CNC Machinist Training (1-14)
Competency based curriculum which focuses on set-up and operation of manual and CNC machining and turning centers. Additionally, blueprint reading, applied mathematics, precision measurement, and inspection, cutting tools, and machine-ability of materials. Permission of Instructor required. Prerequisite: Successful completion of MFTG 110. Mandatory decimal grading.

**MANUFACTURING 120**
CNC Applications (1-14)
Competency-based curriculum, builds on the skills students learned during initial training. Instruction focuses on set-up and operation of manual and CNC machining and turning centers utilizing time-saving accessories. Permission of instructor required. Prerequisite: Successful completion of MFTG 115 with a 2.0 GPA or better. Mandatory decimal grading.

**MANUFACTURING 155**
Quality Assurance Fundamentals (5)
This course provides a fundamental overview and awareness of the concepts and theory of quality as it relates to today’s business environment, including manufacturing. Prerequisite: Successful completion of MFTG 110. Mandatory decimal grading.

**MANUFACTURING 156**
Continuous Improvement (3)
This course provides a fundamental overview and awareness of continuous improvement in manufacturing and business. Prerequisite: Successful completion of MFTG 155 with a 2.0 GPA or better, instructor permission. Mandatory decimal grading.

**MANUFACTURING 157**
Team Dynamics in Manufacturing (3)
This course provides a fundamental overview of teams in manufacturing including different team types, functions, team of development, team stages, and team management. Prerequisite: Successful completion of MFTG 155 with a 2.0 GPA or better, or instructor permission. Mandatory decimal grading.

**MANUFACTURING 158**
Quality Audits (5)
This course provides a fundamental overview and awareness of the concepts and theory of quality as it relates to today’s business environment, including manufacturing. Prerequisite: Successful completion of MFTG 110. Mandatory decimal grading.

**MANUFACTURING 166**
Quality Audits (5)
This course provides an overview of Auditing and discusses the various types of audits and the elements and application of each of those types of audits. Prerequisite: Successful completion of MFTG 155, MFTG 156, MFTG 157, MFTG 170, MFTG 175, MFTG 230, MFTG 231, MFTG 232 with a 2.0 GPA or better. Mandatory decimal grading.

**MANUFACTURING 167**
Inspection and Test (5)
This course provides a foundation and discusses the application of processes and techniques used in the manufacturing industry, including blueprint reading, sampling, inspection techniques, and testing methods. Prerequisite: Successful completion of MFTG 155, MFTG 156, MFTG 157 with a 2.0 GPA or better. Mandatory decimal grading.

**MANUFACTURING 169**
Preventive and Corrective Action (3)
This course provides the foundation that enables the implementation of preventing and corrective action systems in manufacturing processes. Prerequisite: Successful completion of MFTG 155, MFTG 156, MFTG 157, MFTG 167, MFTG 170, MFTG 175, MFTG 230, MFTG 231, MFTG 232 with a 2.0 or better. Mandatory decimal grading.

**MANUFACTURING 170**
Quality Systems and Standards (5)
This course provides a fundamental overview and provides details and applications of the different quality systems and standards used in the manufacturing industry. Prerequisite: Successful completion of MFTG 155, MFTG 156, MFTG 157, MFTG 167, MFTG 170, MFTG 175, MFTG 230, MFTG 231, MFTG 232 with a 2.0 GPA or better. Mandatory decimal grading.

**MANUFACTURING 175**
Quality Internship (9)
This course is a cooperative work experience with local industry. Students will apply learned skills, gain actual on-the-job experience, and receive credit for work experience appropriate to their level of education. Prerequisite: Successful completion of MFTG 167, MFTG 230, MFTG 231, MFTG 232 with a 2.0 GPA or better. Mandatory decimal grading.

**MANUFACTURING 176**
CNC Internship (9)
This course is a cooperative work experience with local industry. Students will apply learned skills, gain actual on-the-job experience, and receive credit for work experience appropriate to their level of education. Prerequisite: Successful completion of MFTG 230 with a 2.0 GPA or better. Mandatory decimal grading.

**MANUFACTURING 215**
CNC Programming (6)
This course presents the introductory concepts of numerically controlled machining technology as it affects part design, part programming and part production. Prerequisite: Successful completion of MFTG 115, MFTG 120, MFTG 176 with a 2.0 GPA or better. Mandatory decimal grading.

**MANUFACTURING 220**
Computer Aided Manufacturing (CAM) (6)
This course provides the fundamental knowledge and skills to properly use Computer Aided Manufacturing software to transition products from design to manufacturing. Prerequisite: Successful completion of MFTG 115, MFTG 120, MFTG 176 with a 2.0 GPA or better. Mandatory decimal grading.

**MANUFACTURING 225**
Rapid Prototyping (5)
This course provides a fundamental overview and discusses rapid prototyping and automated fabrication, including the generation of suitable CAD models, current rapid prototyping fabrication techniques, the use of secondary processing, and the impact of these technologies on society. Prerequisite: Successful completion of MFTG 115, MFTG 120, MFTG 176 with a 2.0 GPA or better. Mandatory decimal grading.
MANUFACTURING 230
Measurement Systems (5)
This course provides the basic foundation of measurement systems and measurement system applications used in manufacturing. Prerequisite: Successful completion of MGF 155, MFGT 156 with a 2.0 GPA or better. Mandatory decimal grading.

MANUFACTURING 231
Metrology (5)
This course introduces the fundamentals of dimensional measurement, production gages, and gaging techniques. Measurement techniques will emphasize the proper use of appropriate measurement equipment. Prerequisite: Successful completion of MGF 155, MFGT 156, MFGT 157 with a 2.0 or better. Mandatory decimal grading.

MANUFACTURING 232
Calibration Systems (5)
This course describes the calibration process used in manufacturing to ensure measurements are accurate and traceable to national and international standards. Prerequisite: Successful completion of MGF 155, MFGT 156, MFGT 230, MFGT 231, MFGT 232 with a 2.0 GPA or better. Mandatory decimal grading.

MANUFACTURING 240
CAD for Manufacturing (6)
An introduction to computer-aided drafting with emphasis on applications in manufacturing. Content includes DOS commands and all groupings of basic commands such as: Draw, Display, Edit, Layers, Settings, Dimension, Text, Block, File Management, Plotting and Printing. Prerequisite: ENGR1 101 or MachF 170 or MEFa 180 or equivalent experience. Permission. Mandatory decimal grading.

MANUFACTURING 241
Machine Maintenance Level I (22)
530-hour competency-based curriculum, conducted in the Okuma Regional Training Center. Students will learn the maintenance requirements for coolant tanks, filtration and recovery systems, state and local requirements for handling and disposal of coolants and cutting oils. Additionally, studies will include developing and scheduling periodic maintenance, ordering and inventory control of parts, machine nomenclature, machine set-up, electrical and hydraulic blueprint reading, industry mathematics, team building and communication skills. Prerequisites: Because of the technical nature of this program, English communication skills must meet or exceed a minimal level requirement of ESL 3. Pre-program interviews with instructor or program coordinator. Instructor permission required. Mandatory decimal grading.

MANUFACTURING 250
Computer-Aided Manufacturing Lecture (4)
An introduction to CAM. Content includes necessary DOS commands, CAM job planning, geometry description, editing, tool path, macro functions, file management, utilities and code generators. The student will choose one lab, to be taken concurrently with this lecture from one of the following: Corequisite: MFGT 251 Lab, or 252 Lab, or 253 Lab, or 254 Lab. Prerequisite: Indus 103 or MEFa 188 or MACH 157 or MEFa 181. Mandatory decimal grading.

MANUFACTURING 251
CAM Punching Lab (2)
CAM programming applied to CNC punch presses. Corequisite or prerequisite: MFGT 250 Lecture. Prerequisite: MEFa 188 or MEFa 181. Mandatory decimal grading.

MANUFACTURING 253
CAM Turning (2)
CAM programming applied to turning centers. Corequisite or prerequisite: MFGT 250 lecture or permission. Prerequisite: Indus 103 or MachF 156. Mandatory decimal grading.

MANUFACTURING 254
CAM Survey Lab (2)
A survey of CAM Programming applied to Punching, Milling and Turning. Corequisite: MFGT 250 lecture or permission. Prerequisite: Indus 103 or MEFa 188 or permission. Mandatory decimal grading.

MANUFACTURING 260
CAD/CAM Lecture (4)
Programming CAD/CAM - the linkage of Computer-Aided Drafting with Computer Aided Mfg. The student will choose one lab to be taken concurrently with this lecture from the following options. Corequisite: MFGT 261 Lab or 262 Lab or 263 Lab or 264 Lab. Prerequisite: MFGT 250 Lecture-Lab or permission. Mandatory decimal grading.

MANUFACTURING 261
CAD/CAM Punching (2)
CAD/CAM programming applied to CNC punch presses. Corequisite or prerequisite: MFGT 260 lecture or permission. Prerequisite: MFGT 250 lecture-lab or permission. Mandatory decimal grading.

MANUFACTURING 262
CAD/CAM Milling (2)
CAD/CAM Programming applied to CNC Milling. Corequisite or prerequisite: MFGT 260 lecture or permission. Prerequisite: MFGT 250 lecture-lab or permission. Mandatory decimal grading.

MANUFACTURING 263
CAD/CAM Turning (2)
CAD/CAM Programming applied to CNC Turning. Corequisite or prerequisite: MFGT 260 lecture or permission. Prerequisite: MFGT 250 lecture-lab or permission. Mandatory decimal grading.

MANUFACTURING 264
CAD/CAM Survey (2)
A survey of CAD/CAM Programming Applied to Punching, Turning and Milling. Corequisite or prerequisite: MFGT 260 lecture-lab 254 or permission.

MANUFACTURING 275
Quality Internship (9)
This course is a cooperative work experience option for qualified students. Students will apply learned skills, gain actual on-the-job experience, and receive credit for work experience appropriate to their level of education. Prerequisite: Successful completion of MGF 215, 220, 225 with a 2.0 GPA or better. Mandatory decimal grading.

MANUFACTURING 276
CAM Internship (9)
This course provides work experience with local industry. Student will apply learned skills, gain actual on-the-job experience, and receive credit for work experience appropriate to their level of education. Prerequisite: Successful completion of MGF 215, 220, 225 with a 2.0 GPA or better. Mandatory decimal grading.

MANUFACTURING 298, 299
Special Project (2,3)

MATHEMATICS 060
Basic Math (5)
Addition, subtraction, multiplication, and division of whole numbers, common fractions, and decimals. Also includes an introduction to percentages, ratio and proportion, estimation, and narrative problems. Prerequisites: A score of 23 or higher on the Numerical Skills ASSET Test (or equivalent) or permission. Student option grading.

MATHEMATICS 070
Preparation for Algebra (5)
An introduction to fundamental algebraic skills needed for Elementary Algebra. Course includes a review of arithmetic and an introduction to graphing, simplifying algebraic expressions, and solving linear equations. Prerequisites: Math 060 (2.0 or better), or a score of 34 or higher on the Numerical Skills ASSET test (or equivalent), or permission. Student option grading.

MATHEMATICS 080
Elementary Algebra (5)
Fundamentals of algebra including simplifying algebraic expressions, solving linear equations in one and two variables, plotting points and graphing lines, exponents and their properties, operations on polynomials, factoring polynomials, simplifying radical expressions, solving quadratic equations and graphing quadratic functions. Prerequisites: Math 070 (2.0 or better), or 1 year of high school pre-algebra (including a study of fractions, decimals, and signed numbers, C or better) and a score of 25 or higher on the Elementary Algebra ASSET test (or equivalent), or permission. Student option grading.

MATHEMATICS 090
Independent Study-Basic Math (1-3)
Students study mathematics individually or in small groups using Math Learning Center resources; learning assistants, handouts, answer books, sample tests, video tapes, graphic calculators, computers, and library. Prerequisites: Concurrent enrollment in Math 060, 070, 080, 097, 098, 099 or BusM 175 required. Mandatory PNC grading.
MATHEMATICS 097
Fundamentals of Intermediate Algebra I (5)
Simplifying and evaluating linear and rational expressions. Solving these same types of equations with applications to real world modeling. Graphing linear equations. Solving linear and absolute value inequalities. Techniques to improve problem-solving skills, note taking and study skills. Together, Math 097 and 098 serve as prerequisite for college-level quantitative reasoning courses. Prerequisites: Math 080 (2.0 or better), or 1 year of high school algebra (including a study of linear and quadratic equations and factoring, C or better) and a score 34 or higher on the Intermediate Algebra ASSET test (or equivalent), or permission. Student option grading.

MATHEMATICS 098
Fundamentals of Intermediate Algebra II (5)
Simplifying and evaluating quadratic, rational, radical, and exponential expressions. Solving these same type of equations with applications to real world modeling. Graphing quadratic functions. Together, Math 097 and 098 serve as prerequisite for college-level quantitative reasoning courses. Prerequisites: Math 097 (2.0 or better) or permission. Student option grading.

MATHEMATICS 099
Intermediate Algebra (5)
Simplifying and evaluating linear, quadratic, exponential, radical, and rational expressions. Solving these same types of equations with applications to real world modeling. Graphing linear and quadratic equations. Serves as a prerequisite for many of the quantitative reasoning courses. Prerequisites: Math 080 (2.0 or better), or 1 year of high school algebra (including a study of linear and quadratic equations and factoring, C or better) and a score of 34 or higher on the Intermediate Algebra ASSET test (or equivalent), or permission. Student option grading.

MATHEMATICS 100
Independent Study-College Math (1-3)
Students study mathematics individually or in small groups using Math Learning Center resources: learning assistants, handouts, answer books, worksheets and sample tests, graphing calculators, computers with Internet access, and a math library. Prerequisites: Concurrent enrollment in Math 107, 108, 110, 111, 112, 114, 120, 121, 124, 125, 126, 170, 171, 172, 207, 208, 209, 211, or 224. Mandatory P/NC grading.

MATHEMATICS 107
Math: A Practical Art (5)
A college-level coverage of the practical applications of mathematics as they arise in everyday life. Topics may include finance math, probability, statistics, logic, geometry, and voting theory. Designed to help students who are not preparing for calculus develop an appreciation for mathematics and its practical uses. Prerequisites: Math 099 (2.0 or better) or one and a half years of high school algebra (C or better) and a score of 33 or higher on the College Algebra ASSET test (or equivalent), or permission. Student option grading.

MATHEMATICS 108
Introduction to Probability and Statistics (5)
Analysis of data through graphical and numerical methods, linear regression, the normal distribution, data collection, elementary probability, and hypothesis testing with emphasis on applications. Prerequisites: Math 099 (2.0 or better) or one and a half years of high school algebra and a score of 33 or higher on the College Algebra ASSET test (or equivalent), or instructor permission; placement into English 100 or ESL 100. Student option grading.

MATHEMATICS 110
Precalculus I (5)
The elementary functions and their graphs, with applications to mathematical modeling. Examples include linear, quadratic, polynomial, rational, exponential and logarithmic functions, composite functions, inverse functions and transformations of graphs. Use of the graphing calculator. Prerequisites: Math 099 (2.0 or better), or one and a half years of high school algebra (C or better) and a score of 33 or higher on the College Algebra ASSET test (or equivalent), or permission. Student option grading.

MATHEMATICS 111
Elements of Precalculus (5)
Algebra topics including mathematical modeling, graphing, and problem solving with polynomial, rational, exponential and logarithmic functions. Selected topics from linear algebra, combinatorics, mathematical modeling, probability and mathematics of finance. Intended primarily for students in business, social sciences and some biological sciences. Prerequisites: Math 099 (2.0 or better) or one and a half years of high school algebra (C or better) and a score of 33 or higher on the College Algebra ASSET test (or equivalent), or permission. Student option grading.

MATHEMATICS 112
Elements of Calculus (5)
Differential and Integral Calculus of elementary functions with an emphasis on business and social science applications. Designed for students who want a brief course in Calculus. (No credit to those who have completed Math 124). Prerequisites: Math 111 (preferred) or Math 120 (2.0 or better), or permission. Student option grading.

MATHEMATICS CURRICULUM

COURSE DESCRIPTIONS
MATHEMATICS 114
Trigonometry (2)
For students who lack only the trigonometry preparation for Calculus, and for others wanting an overview of trigonometry. Topics covered include plane geometry, triangle trigonometry, and an introduction to the circular and inverse-circular functions. Prerequisites: Math 099 (2.0 or better) or one and a half years of high school algebra (C or better) and a score of 33 or higher on the College Algebra ASSET test (or equivalent), or permission. Student option grading.

MATHEMATICS 120
Precalculus II (5)
Triangle trigonometry, circular and inverse trigonometric functions, trigonometric identities, solving trigonometric equations, applications of trigonometry. Polar coordinates and parametric equations. Conic sections. Use of the graphing calculator. Prerequisites: Math 110 (2.0 or better) or high school algebra (including a study of exponential and logarithmic functions, C or better) and a score of 47 or higher on the College Algebra ASSET test (or equivalent), or permission. Student option grading.

MATHEMATICS 121
Discrete Mathematics (5)
Finite and infinite non-continuous phenomena. Selected topics from Boolean algebra (logic, set theory), recursion and recursive reasoning, combinatorics, number theory, graph theory (networks, trees), polynomials and polyhedra, finite difference methods, algorithms. Prerequisites: Math 120 (2.0 or better) or permission. Student option grading.

MATHEMATICS 124
Calculus First Quarter (5)
Definition, interpretation and applications of the derivative. Derivatives of algebraic and transcendental functions. Parametric curves and their derivatives. Prerequisites: Math 120 (2.0 or better), or Math Analysis or Calculus (C or better) in high school, or permission. Student option grading.

MATHEMATICS 125
Calculus Second Quarter (5)
Definition, interpretation, and application of the definite integral. The Fundamental Theorem of Calculus, techniques of integration, definite integrals involving curves described parametrically, and introduction to separable differential equations. Prerequisites: Math 124 (2.0 or better) or permission. Student option grading.

MATHEMATICS 126
Calculus Third Quarter (5)
Infinite series and the calculus of vector-valued functions and functions of several variables. Topics include sequences, series, Taylor series, vector products, lines, planes, space curves, level curves and surfaces, partial derivatives, chain rules, tangent planes, gradient and directional derivatives. Prerequisites: Math 125 (2.0 or better) or permission. Student option grading.

MATHEMATICS 170
Math for Elementary School Teachers I (5)
Basic concepts of numbers and operations related to topics taught at the K-8 level. Topics include problem solving, set theory, algebraic thinking, number theory, numeration systems, and arithmetic with integers and rational numbers. Recommended for prospective and practicing elementary school teachers. Prerequisites: Math 099 (2.0 or better) or one and a half years of high school algebra (C or better) and a score of 33 or higher on the College Algebra ASSET test (or equivalent), or instructor permission; placement into English 100 or ESL 100. Student option grading.

MATHEMATICS 171
Math for Elementary School Teachers II (5)
Basic concepts of geometry related to topics taught at the K-8 level. Topics include problem solving, Euclidean plane geometry, non-Euclidean geometries, solid geometry, tessellations, measurement, and fractals. Recommended for prospective and practicing elementary school teachers. Prerequisites: Math 170 (2.0 or better), or instructor permission; placement into English 100 or ESL 100. Student option grading.

MATHEMATICS 172
Math for Elementary School Teachers III (5)
Basic concepts of probability and statistics related to topics taught at the K-8 level. Topics include probability, expected value, simulation, combinatorics, graphical and numerical presentation of data, data collection and sources of bias. Recommended for prospective and practicing elementary school teachers. Prerequisites: Math 170 (2.0 or better), or instructor permission; placement into English 100 or ESL 100. Student option grading.

MATHEMATICS 207
Elements of Differential Equations (5)
Linear and non-linear ordinary differential equations and systems. Graphical, numerical, analytical and qualitative methods. Prerequisite: Math 126 (2.0 or better) or permission. Student option grading.

MATHEMATICS 208
Linear Algebra (5)
Matrix operations, determinants, systems of equations, abstract vector spaces, linear transformations, eigenvalues and eigenvectors. Prerequisites: Math 126 (2.0 or better) or permission. Student option grading.

MATHEMATICS 209
Linear Analysis (5)
Systems of linear and non-linear differential equations, abstract vector spaces, eigenvalues, eigenvectors, and phase planes. Prerequisites: Math 207 and Math 208 (2.0 or better) or permission. Student option grading.

MATHEMATICS 211
Elements of Statistical Method (5)
Principles of data analysis, linear regression, data collection, elementary probability, random variables, probability distributions and statistical inference. Emphasis on practical applications and the interpretations of results. Prerequisites: Math 124 or 112 (2.0 or better), or instructor permission; placement into English 100 or ESL 100. Student option grading.

MATHEMATICS 224
Intermediate Analysis (5)
Continuation of the Math 124-125-126 Calculus sequence. Optimization, multiple integrals, vector fields, divergence, curl, line and surface integrals, Green’s Theorem, Stokes’ Theorem, and the Divergence Theorem. Prerequisites: Math 126 (2.0 or better) or permission. Student option grading.

MATHEMATICS 297, 298, 299
Special Project (1, 2, 3)
Special individual projects in mathematics. Instructor permission required. Student Option Grading.

MEDICAL LABORATORY
TECHNOLOGY 197
Introduction to Medical Lab Procedures (5)
An introduction to procedures used in the clinical or biological laboratory. Emphasis on laboratory safety, measurement, specimen collection, quality control procedures, basic laboratory theory and instruments. Theory and clinical procedures in urinalysis. Mandatory decimal grading.

MEDICAL LABORATORY
TECHNOLOGY 214
Essentials of Phlebotomy (3)
A lecture and laboratory class that includes basic phlebotomy to include the role of the phlebotomist, safety and infection control, equipment, specimen processing, and practice with classmates performing capillary and venipuncture techniques. Prerequisites: ESL Level 4, ASSET English 80. Recommended HLC 135/ESL 002 for non-native speakers. Mandatory decimal grading.

MEDICAL LABORATORY
TECHNOLOGY 215
Phlebotomy Practicum (2)
Forty hours of clinical practicum phlebotomy training in a health care facility. Additional hours will be spent preparing for the practicum via orientation and lecture sessions, and meeting with instructor to assess outcomes. Students must show proof of health insurance before training can begin in the practicum setting. Admission to MTL Program, concurrent enrollment in MTL 214 or successful completion of MTL 214. Mandatory P/0.0 grading option.

MEDICAL LABORATORY
TECHNOLOGY 216
AIDS and HIV Education for Health Care Workers (1)
An introduction to AIDS and HIV for health care workers. Topics include HIV risk exposure, recommended infection control measures, symptoms of the disease process, opportunistic infections and bloodborne pathogens, HIV laboratory test procedures will be reviewed. Outside class activities will be assigned. Meets the Washington State requirements for HIV/AIDS education for health care workers. Prerequisites: Successful completion of English 090, Mandatory decimal grading.
COURSE DESCRIPTIONS

MEDICAL LABORATORY TECHNOLOGY 320
Hematology Lecture (6)
Theoretical and practical concepts associated with hematology, including normal and abnormal development of cellular components of blood as manifested in disease, diagnostic hematologic tests performed, and theory of coagulation, and diagnostic tests performed for detecting coagulopathies. Instructor permission required. Mandatory decimal grading.

MEDICAL LABORATORY TECHNOLOGY 221
Hematology Laboratory (3)
Basic application of clinical hematology including normal and abnormal development of cellular components of blood as manifested in disease, diagnostic hematologic tests performed, and theory of coagulation and diagnostic tests performed. Prerequisites: Admission to MLT Program or instructor permission. Mandatory decimal grading.

MEDICAL LABORATORY TECHNOLOGY 222
Immunology Lecture (3)
Basic theory and diagnostic procedures in clinical immunology and serology. Nature and production of immunoglobulins, antigen-antibody reactions, natural and acquired immunity, introduction to genetics, introduction to immunologic diseases with particular emphasis on Acquired Immune Deficiency Syndrome (AIDS). Prerequisites: Admission to MLT Program or instructor permission. Mandatory decimal grading.

MEDICAL LABORATORY TECHNOLOGY 223
Immunology Laboratory (2)
Basic techniques and procedures used in the immunology/serology laboratory. Qualitative and quantitative direct and indirect tests for antibodies and antigens. Safety, quality control and pipetting. Prerequisites: Admission to MLT Program or instructor permission. Mandatory decimal grading.

MEDICAL LABORATORY TECHNOLOGY 224
Parasitology and Mycology Lecture (3)
Basic theory and clinical procedures used to isolate and identify intestinal, blood and tissue parasites; dermatophytes, systemic and subcutaneous fungi. Instructor approval required. Mandatory decimal grading.

MEDICAL LABORATORY TECHNOLOGY 225
Parasitology and Mycology Laboratory (1)
Basic techniques and procedures used in parasitology and mycology laboratories. Collection, processing, direct examinations and concentration techniques. Microscopic identification of organisms, review of staining techniques, quality control, wet mounts and culture identification. Emphasis is placed on organism identification in parasitology. Mandatory decimal grading.

MEDICAL LABORATORY TECHNOLOGY 226
Clinical Chemistry Lecture (6)
The theoretical and practical concepts associated with clinical chemistry laboratory. Manual testing, sample preparation, automated testing, quality control and disease states. Prerequisites: MT 197 and CHEM 220 with a grade of 2.0 or better; admission into MLT program. Mandatory decimal grading.

MEDICAL LABORATORY TECHNOLOGY 227
Clinical Chemistry Laboratory (3)
Application of theoretical techniques used in the clinical chemistry laboratory. Manual testing, sample preparation, automated testing, quality control and disease states. Emphasis placed on obtaining a strong understanding of the variables associated with chemical procedures and their control, and the theories behind chemistry tests. Prerequisites: MT 197 and CHEM 220 with a grade of 2.0 or better; admission into the MLT program. Mandatory decimal grading.

MEDICAL LABORATORY TECHNOLOGY 228
Clinical Microbiology Lecture (5)
Basic theory of clinical microbiology including disease states, isolation and identification of bacterial organisms. Emphasis is placed on media selection and interpretation of results of diagnostic tests. Prerequisites: BioSci 215 with a grade of 2.0 or better; admission into the MLT program. Mandatory decimal grading.

MEDICAL LABORATORY TECHNOLOGY 229
Clinical Microbiology Lecture (5)
Isolate and identify clinically significant microorganisms from specimens and cultures. Emphasis placed on sterile technique, safety, quality control, isolation techniques, quality assurance and identification of microorganisms. Prerequisites: BioSci 215 with a grade of 2.0 or better and admission into the MLT program. Mandatory decimal grading.

MEDICAL LABORATORY TECHNOLOGY 230
Hematology Practicum (6)
Practical experience in clinical laboratories, 40 hours per week for 4 weeks. The student will become proficient in performing laboratory procedures and in utilizing of laboratory equipment in hematology, coagulation, urinalysis and body fluids. Prereq: Admission to MLT program or instructor permission. Mandatory P/NC grading.

MEDICAL LABORATORY TECHNOLOGY 231
Chemistry Practicum (6)
Practical experience in clinical laboratories, 40 hours per week for 4 weeks. Instructor permission required. Mandatory P/NC grading.

MEDICAL LABORATORY TECHNOLOGY 232
Microbiology Practicum (6)
Practical experience in clinical laboratories, 40 hours per week for 4 weeks. The student will become proficient in performing laboratory procedures and in utilizing of laboratory equipment in microbiology, parasitology, mycology, and serology. Prereq: Admission to MLT program or instructor permission. Mandatory P/NC grading.

MEDICAL LABORATORY TECHNOLOGY 233
Integrated Immunohematology (11)
An integrated combination of lecture/lab, and clinical problem-solving experience in immunohematology and blood banking. This course is concentrated 5 weeks, 32 hours per week experience covering the theoretical and practical application of blood group serology, compatibility testing, antibody identification, quality control, preparation and storage of donor units and blood components, ensuring a safe blood supply and incompatibility resolution. Prerequisites: Permission or acceptance into the MLT Program. Mandatory decimal grading.

MEDICAL LABORATORY TECHNOLOGY 281, 282, 283
Special Topics (1,2,3)

METAL FABRICATION 130
Orientation to Precision Metal Fabrication (4)
An intense study of work in the precision metal fabrication industry including: general safety, tool and equipment safety, processes, human relations. Prerequisite: Permission by instructor. Mandatory decimal grading.

METAL FABRICATION 131
Cooperative Work Experience I (16)
The first of two quarters of the internship training component of the Certificate and AAAS Degree in CNC Precision Metal Fabrication. The student will spend 11 weeks working in a CNC precision metal fabrication company as a metal fabrication technician. This will be a cooperative experience between the student, the company and Shoreline Community College. The student will be paid by the company during this 11-week period. Prerequisite: Permission by instructor. Mandatory decimal grading.

METAL FABRICATION 132
Cooperative Work Experience II (16)
The second of two quarters of the internship training component of the Certificate and AAAS Degree in CNC Precision Metal Fabrication. The student will spend 11 weeks working in a CNC precision metal fabrication company as a metal fabrication technician. This will be a cooperative experience between the student, the company and Shoreline Community College. The student will be paid by the company during this 11-week period. Prerequisite: Permission by instructor. Mandatory decimal grading.
COURSE DESCRIPTIONS

METAL FABRICATION 180
Beginning CNC Precision Metal Fabrication (15)
Prepares students for careers in precision light gauge metal manufacturing (such as computer chassis manufacture). Areas of study include: beginning technical math, blueprint reading, layout, and operation of CNC punches and shears. Mandatory decimal grading.

METAL FABRICATION 181
Intermediate CNC Precision Metal Fabrication (15)
Second course in series. Intermediate study of technical math, dimensional tolerancing, flat pattern development, beginning CNC programming of punches and press brakes and quality control applications. Prerequisite: MeFa 180, 184, 185 or permission. Corequisite: MeFa 186, 188. Mandatory decimal grading.

METAL FABRICATION 182
Advanced CNC Precision Metal Fabrication (15)
Advanced studies in the following: technical math, flat pattern development, blueprint reading, CNC programming, and machine operation. Includes activities in production scheduling, quality control and employment resumes. Prerequisite: MeFa 181, 186, 188. Corequisite: MeFa 189 and Mgtr 240. Mandatory decimal grading.

METAL FABRICATION 183
Production Documents (3)
Interpretation of work orders and blueprints with emphasis on quality and production flow. Mandatory decimal grading.

METAL FABRICATION 184
Introduction to CNC Precision Metal Fabrication (6)
Study and practice of production concepts and operations. Includes: production planning, productivity, quality control, blueprint reading, pattern development, shearing, CNC punching and press brake forming. Mandatory decimal grading.

METAL FABRICATION 185
Blueprint Reading, Layout and Math I (6)
First of two courses designed to prepare the student with the basic blueprint reading, flat pattern development and math skills needed in the CNC precision metal fabrication industry. Mandatory decimal grading.

METAL FABRICATION 186
Blueprint, Layout and Math II (6)
Second of two courses in blueprint reading, layout and development and mathematics related to the CNC Precision Metal Fabrication Industry. Students will study advanced aspects of these subject areas. Prerequisites: MeFa 185 or knowledge of the equipment, permission. Mandatory decimal grading.

METAL FABRICATION 187
Shear and Press Brake (6)
Students will study and practice safety, maintenance, set up, operation and efficient production of shears and press brakes. Programming of CNC press brakes is also covered. Prerequisite: MeFa 184 and MeFa 185 or equivalent experience. Permission. Mandatory decimal grading.

METAL FABRICATION 188
CNC Punch Operation and Programming (6)
Students will learn safety, machine maintenance, tooling maintenance, machine set up and operation as well as various aspects of preparing and producing programs for NC and CNC Punch Presses. Prerequisites: MeFa 184, MeFa 185, MeFa 186 or equivalent experience, permission. Mandatory decimal grading.

METAL FABRICATION 189
Production Practices (6)
Instruction will cover various production support aspects of the CNC precision metal fabrication industry including: production planning, quality control, product materials, finishing and assembly techniques. Mandatory decimal grading.

METAL FABRICATION 283, 298
Special Topics (3,2)

MUSIC 100
Introduction to Music Theory (5)
This course covers music notation, meter, rhythm, scales, key signatures and intervals in preparation for Music 101. Concurrent enrollment in Music 120 required. Mandatory Decimal grading.

MUSIC 101
First Year Music Theory (5)
The course includes sight singing, keyboard training, and the theories and fundamentals of musical structure. Concurrent enrollment in Music 121 (Class Piano) required. Mandatory decimal grading.

MUSIC 102
First Year Theory (5)
This course continues the study of music fundamentals and structure. Sight singing, keyboard assignments, melodic and harmonic dictation are integrated into the class. It is intended primarily for music majors. Concurrent enrollment in Music 122 (class piano) is required. Prerequisites: Music 101 with a grade of 2.0 or higher. Mandatory decimal grading.

MUSIC 103
First Year Theory (5)
This course continues the study of theories and fundamentals of music structure. Sight singing and harmonic dictation are integrated into the class. This course is intended primarily for music majors. Concurrent enrollment in Music 123 (class piano) is required. Prerequisites: Music 102 with a grade of 2.0 or higher. Mandatory decimal grading.

MUSIC 104
Music in American Culture (5)
What does your musical taste tell the world about your personal identity, your social standing and your cultural background? Where does your "musical membership" locate you in American culture? Explore the rich traditions of music styles through guided listening and analysis of songs from a wide range of genres. Prerequisites: Successful completion of English 100 or ESL 100 or placement into English 101. Student option grading.

MUSIC 107
Experiencing Music (5)
Why does music affect us the way it does? How can just a few familiar notes make us cry or set our feet to dancing? There is no escaping music in our society; it’s everywhere. Together we will discover how and why music has impacted our culture through the centuries. We will explore music’s history, its basic elements, and its power to alter entire societies. Prerequisites: Successful completion of Eng 100 (or equivalent) or ASSET placement of Eng 101. Student Option grading.

MUSIC 108
Music in World Cultures (5)
Students experience the diversity of music from around the world by examining selected musicsb in their broad cultural contexts: religions, historical, and social. The class emphasizes listening skills, music aesthetics, styles, genres, transmission, and sociocultural backgrounds of the musicians. Student option grading.

MUSIC 109/109W
American Popular Music (5)
Historical, cultural, social and stylistic study of American Popular idioms from their African and European roots to the present. Most attention to contemporary styles (early Rock and Roll from its beginning roots, Folk, Blue Grass, Country-Western, Blues, Heavy Metal, Rap, Jazz). Key artists contributing to the periods of development will be discussed. Various facets of the music industry will be examined to gauge its influence on musical taste and style. Dual listed as IAStu 109. Student option grading.

MUSIC 113
Rock Ensemble (2)
The Rock Ensemble rehearses and performs music in a variety of rock and popular music styles. Several concerts per quarter are presented on and off campus. Class is intended primarily for guitar, bass, drums, keyboards and singers. Instructor approval required. Student option grading.

MUSIC 114
Class Instruction-Guitar (2)
This course is intended for students with little or no background in guitar performance. It presents basic skills and techniques needed to play the guitar. Students must supply their own ACOUSTIC guitar. Student option grading.

MUSIC 115
Class Instruction Electric Bass Guitar (2)
Training in basic skills and technique for the electric bass guitar including reading bass clef, learning scales and modes in twelve keys and developing and improving technical proficiency. Intended for beginning to intermediate players. Students must provide own instrument. Course may be taken up to six times. Student option grading.
MUSIC 117  Electric Guitar (2)
Training in basic skills and technique for the electric guitar including reading treble clef, learning scales and chords in twelve keys and developing and improving technical proficiency. Intended for beginning and intermediate players. Students must provide their own instrument. Course may be taken up to six times. Student option grading. Student option grading.

MUSIC 118  Acoustic Guitar Class: Intermediate (2)
Intended for intermediate level guitarists, this course presents more challenging skills and techniques necessary for improved acoustic guitar performance. Students supply their own ACOUSTIC guitar. Prerequisites: Music 114: Class Guitar, or permission of instructor. Student option grading.

MUSIC 120  Class Piano for Music 100 Students (2)
Students meet three times a week in the electronic piano lab to learn basic skills and techniques needed in music reading, music theory and piano performance. This class is required of all MUSIC 100 students. Prerequisites: Concurrent enrollment in Music 100. Mandatory decimal grading.

MUSIC 121  Class Piano for Music 101 Students (2)
Music theory students with little or no piano background learn basic skills and techniques. The course covers materials learned in Music 101 and piano proficiency skills required of all music majors. Concurrent enrollment in Music 101 is required. Mandatory decimal grading.

MUSIC 122  Class Piano for Music 102 Students (2)
Music theory students with little piano background learn basic skills and techniques. The course covers materials learned in Music 102 and piano proficiency skills required of all music majors. Concurrent enrollment in Music 102 is required. Mandatory decimal grading.

MUSIC 123  Class Piano for Music 103 Students (2)
Music theory students with some piano background learn basic skills and techniques. The course covers materials learned in Music 103 and piano proficiency skills required of all music majors. Concurrent enrollment in Music 103 is required. Mandatory decimal grading.

MUSIC 124  Class Piano for Music 201 Students (2)
Music theory students learn basic skills and techniques. The course covers materials learned in Music 201 and piano proficiency skills required of all music majors. Concurrent enrollment in Music 201 is required. Mandatory decimal grading.

MUSIC 125  Class Piano for Music 202 Students (2)
Music theory students learn basic skills and techniques. The course covers materials learned in Music 202 and piano proficiency skills required of all music majors. Concurrent enrollment in Music 202 is required. Mandatory decimal grading.

MUSIC 126  Class Piano for Music 203 Students (2)
Music theory students learn basic skills and techniques. The course covers materials learned in Music 203 and piano proficiency skills required of all music majors. Concurrent enrollment in Music 203 is required. Mandatory decimal grading.

MUSIC 127  Class Piano for General Students (2)
This class presents the basic skills and techniques needed in piano performance. The class meets in the electronic piano lab and may be repeated up to six quarters. It is intended for students who have little or no background in piano technique. Student option grading.

MUSIC 131  Shoreline Singers (2)
This advanced a cappella ensemble performs a variety of challenging vocal music including jazz, classical, world music, modern music, and more. The group tours annually and schedules multiple performances each quarter. Membership is by audition only. Mandatory decimal grading.

MUSIC 136  Jazz Ensemble (2)
The Jazz Ensemble rehearses and performs in a variety of contemporary jazz styles. Sight reading, jazz interpretation, phrasing and improvisation are stressed. Students present several concerts each quarter and participate in a yearly concert tour, usually in Spring. Prerequisites: Membership in the Jazz Ensemble is by audition. Mandatory decimal grading.

MUSIC 137  Class Voice Instruction-Beginning (2)
Beginning voice students learn the fundamentals and basic techniques needed in vocal performance to enhance their ability to sing in a performing ensemble and/or perform in public. This course may be repeated for credit. Student option grading.

MUSIC 138  Class Voice Instruction-Intermediate (2)
Intermediate voice students learn the fundamentals and basic techniques needed in vocal performance to enhance their ability to sing in a performing ensemble and/or perform in public. This course may be repeated for credit. Prerequisites: Completion of Music 137 or permission of instructor. Student option grading.

MUSIC 139  Class Voice Instruction-Advanced (2)
Advanced voice students learn the fundamentals and basic techniques needed in vocal performance to enhance their ability to sing in a performing ensemble and/or perform in public. This course may be repeated for credit. Prerequisites: Completion of Music 138 or permission of instructor. Student option grading.

MUSIC 140  Symphonic Band (2)
Shoreline’s Concert Band performs quarter concerts that include traditional music, contemporary band works, orchestral transcriptions, solo features, Broadway musicals and marches. Quarterly concerts are scheduled. The Shoreline Concert Band rehearses and performs on Monday evenings from September to May. Prerequisites: ability to play a band instrument. Mandatory decimal grading.

MUSIC 142  Evening Concert Choir  Choir of the Sound (2)
Shoreline’s community choir performs three major concert series each year in venues throughout the community. The choir’s dynamic repertoire ranges from popular music with rhythm section accompaniment and choreography to large major works with full orchestra. Membership is by audition. Instructor approval required. Mandatory decimal grading.

MUSIC 144  Funkngroove (2)
Funkngroove is a performance troupe which provides opportunities for students to perform and record song compositions and arrangements in styles typical of commercial radio airplay from the 1970’s to the present. Registration requires instructor permission. Student option grading.

MUSIC 146  Orchestra (2)
This course is intended for string students who join an approved off-campus community orchestra which rehearse once a week, perform on standard orchestral literature and performs in a public concert at least once per quarter. Prerequisites: ability to play a string instrument, permission of a music faculty advisor and the community orchestra conductor. Mandatory decimal grading.

MUSIC 148  Chamber Wind Ensemble (1)
Designed for woodwind, brass and percussion performers at an intermediate to advanced level. The ensemble rehearses and performs music that includes both traditional and contemporary wind ensemble literature. This course includes sight-reading and quarterly performances on-campus. Mandatory decimal grading.

MUSIC 149  Vocal Ensemble (1)
Intermediate/advanced singers experience a variety of vocal music for two or more. This course surveys musical styles and historical periods of selected repertoire. Literature is from opera, oratorio, chamber music, and musical theater. Students perform at various venues. Mandatory decimal grading.

MUSIC 150  History of Bluegrass (2)
Bluegrass blends various musical styles, including fiddle tunes, blues, country, old-time string bands and jazz to form a uniquely American art form. This class examines the history and development of the music through reading, listening and online discussion. Prerequisites: Successful completion of English 100 or placement into English 101. Student option grading.
MUSIC 151
Guitar Ensemble (1)
High energy performance ensemble for primarily jazz and fusion music. Instruction includes five guitars and full rhythm section. Includes sight-reading, practice, and performance of guitar ensemble literature. Mandatory decimal grading.

MUSIC 152
Bluegrass Band (1)
Regular meetings provide an opportunity to play bluegrass in an ensemble setting. Students develop repertoire and improve playing techniques in addition to practicing and performing classic tunes from the genre. Student option grading.

MUSIC 153
Chamber Chorale (2)
Advanced ensemble of mixed voices that performs styles of complex literature in several concerts each quarter. Usually tours during the year. Membership by audition. For information call the Humanities Division or the Music Department. Mandatory decimal grading.

MUSIC 154
Saxophone Ensemble (1)
Designed for the experienced music student. Literature includes classic as well as jazz and contemporary styles with full rhythm section. Includes sight-reading, practice, and performance of saxophone ensemble literature. Mandatory decimal grading.

MUSIC 155
String Ensemble (1)
Weekly rehearsals of string literature based on performance level of students. An excellent opportunity for development of string duo, trio and quartet techniques. Includes sight-reading, practice, and performance of string ensemble literature. Mandatory decimal grading.

MUSIC 156
Piano Ensemble (1)
Intermediate and advanced pianists study duo piano, piano four hands, and piano ensemble literature and techniques. This course includes sight-reading, practice, and performance of ensemble literature. Prerequisites: Intermediate or above reading level of piano music. Mandatory decimal grading.

MUSIC 157
Repertoire Jazz Group (1)
The Repertoire Jazz Group is a performance ensemble that provides students with an opportunity to play a focused style of jazz literature. Each quarter the course focus will change to include different composers, musicians and cultural styles. May be taken a maximum of five quarters. Mandatory decimal grading.

MUSIC 158
Voice-Dance Performance Techniques 1 (2)
Students develop the ability to sing and move simultaneously while preparing them to perform on stage in musical roles. This course is dual listed as PE 167. Student option grading.

MUSIC 159
Brass Ensemble (1)

MUSIC 160
Percussion Ensemble (1)

MUSIC 161
Opera Workshop (1)
Students perform one-act operas and opera scenes from familiar and unfamiliar operas and operettas in full production and usually in English. This course is dual listed as Drama 161. Prerequisites: Instructor permission based on student audition. Mandatory decimal grading.

MUSIC 162
Opera Workshop (2)
Students perform one-act operas and opera scenes from familiar and unfamiliar operas and operettas in full production and performed in English. This course is dual listed as Drama 162. Prerequisites: Instructor permission based on student audition. Mandatory decimal grading.

MUSIC 163
Opera Workshop (3)
Students perform one-act operas and opera scenes from familiar and unfamiliar operas and operettas in full production and performed in English. This course is dual listed as Drama 163. Prerequisites: Instructor permission based on student audition. Mandatory decimal grading.

MUSIC 164
Musical Theater Performance (2)
Singers and actors have the opportunity to perform musical theater in full production, accompanied by orchestra and presented in Shoreline’s Campus Theater. This course is dual listed as Drama 164. Prerequisites: Permission of instructor after audition. Mandatory decimal grading.

MUSIC 165
Musical Theater Performance (3)
Singers and actors have the opportunity to perform musical theater in full production, accompanied by orchestra and presented in Shoreline’s Campus Theater. This course is dual listed as Drama 165. Prerequisites: Permission of instructor after audition. Mandatory decimal grading.

MUSIC 166
Musical Theater Performance (4)
Singers and actors have the opportunity to perform musical theater in full production, accompanied by orchestra and presented in Shoreline’s Campus Theater. This course is dual listed as Drama 166. Prerequisites: Permission of instructor after audition. Mandatory decimal grading.

MUSIC 167
Voice-Dance Performance Techniques 1 (2)
Students develop further skills in moving and singing simultaneously, including part singing and complex dance combinations. This course is a continuation of Music 167 or PE 167 for the more advanced student and is dual listed as PE 168. Prerequisites: Completion of Music 167, PE 167 or equivalent with instructor’s permission. Student option grading.

MUSIC 168
Voice-Dance Performance Techniques 2 (2)
Students develop further skills in moving and singing simultaneously, including part singing and complex dance combinations. This course is a continuation of Music 167 or PE 167 for the more advanced student and is dual listed as PE 168. Prerequisites: Completion of Music 167, PE 167 or equivalent with instructor’s permission. Student option grading.
MUSIC 201
Second-Year Theory (5)
Advanced melodic and harmonic dictation. Sight singing and keyboard assignments. Advanced theory and structure. Prerequisite: Music 103 or equivalent with instructor permission. Mandatory decimal grading.

MUSIC 202
Second-Year Theory (5)
Advanced melodic and harmonic dictation. Sight singing and keyboard assignments. Advanced theory and structure. Prerequisite: Music 201 or permission of instructor. Mandatory decimal grading.

MUSIC 203
Second-Year Theory (5)
Advanced melodic and harmonic dictation. Sight singing and keyboard assignments. Advanced theory and structure. Prerequisite: Music 202 or permission of instructor. Mandatory decimal grading.

MUSIC 204
Improvisation I (2)
Improvisation I covers the basic elements of jazz improvisation, exploring various styles and idioms, and is open to all instrumentalists interested in playing jazz. Mandatory decimal grading.

MUSIC 205
Improvisation II (2)
Improvisation II covers intermediate elements of jazz improvisation while exploring various styles and idioms. The class is open to all instrumentalist interested in playing jazz. Prerequisites: Music 204 or instructor permission. Mandatory decimal grading.

MUSIC 206
History of Jazz (5)
Historical, Cultural, Social and Stylistic study of Jazz History from its African and European roots to the present. Focus on its beginnings in New Orleans to the present day avant-garde artist. Emphasis on form, structure, social background and the contribution of Jazz to music in America. Formerly Music 211. Student option grading.

MUSIC 207
The Craft of Songwriting (2)
Students examine the craft of writing a song and investigate how structure, melody and lyrics function together to create a well-written song. The history of songwriting and the classic work of great songwriters are used to explore the process of songwriting. Student option grading.

MUSIC 208
Diction for Singers-Italian/German (3)
Students perform musical compositions from the past three hundred years in both Italian and German. This course stresses correct pronunciation through use of the International Phonetic Alphabet. Prerequisites: Music 137 or equivalent with instructor permission. Student option grading.

MUSIC 209
Diction for Singers-French/English (3)
Students perform musical compositions from the past three hundred years in both French and English. This course stresses correct pronunciation through use of the International Phonetic Alphabet. Prerequisites: Music 137 or equivalent with instructor permission. Student option grading.

MUSIC 264, 265
Special Topics (2,3)

MUSIC 272
Private Classical Piano (2)

MUSIC 291
Conducting (2)
A beginning/intermediate class in conducting with emphasis on beat patterns, beat styles, score reading and preparation for conducting vocal and instrumental ensembles. Includes an overview of the history of the art of conducting. Prerequisites: Completion of First Year Theory sequence. Instructor approval required. Mandatory decimal grading.

MUSIC 297, 298, 299
Special Project (1,2,3)
Special tutorial projects in specific areas of music. Permission of instructor. Mandatory decimal grading.

MUSIC TECHNOLOGY 100
Vocational Music Seminar (2)
A seminar to assist the student in career exploration and development. Factual information is presented by professionals working in all areas of music-related careers. Student option grading.

MUSIC TECHNOLOGY 104
Survey of Music Recording/Publishing in Business (2)
Course provides techniques for successful operation of businesses focusing in the area of music recording and publishing. Cash flow is tracked and evaluated throughout the industry. Course details the primary sources of income including artist royalties, broadcast royalties and contract negotiation. Operating procedures for successful recording studio ownership are covered.

MUSIC TECHNOLOGY 105
Rights and Methods in Multimedia (2)
Overview of development and marketing of a variety of multimedia products. Introduction to legal issues relating to content including copyrighting, trademark law, publicity and privacy rights, unions and other related organizations. Student option grading.

MUSIC TECHNOLOGY 206
Live Sound Reinforcement (3)
Students learn the concepts, techniques, and vocabulary needed to set up and operate sound reinforcement systems. Examine basics of assembling a system and securing employment in the live sound industry. Prerequisite: Music 220 and 221 or instructor permission. Student option grading.

MUSIC TECHNOLOGY 215
Pop and Commercial Music Theory I (4)
Application of music theory concepts to “real-life” situations of pop and commercial music. Basic ear training, harmony, rhythm, melody, arranging, and production techniques examined. Designed primarily for students enrolled in Music Technology Program. Prerequisites: Music 103 or equivalent with permission of instructor. Student option grading.

MUSIC TECHNOLOGY 216
Pop and Commercial Music Theory II (4)
Application of music theory concepts to “real-life” situations of pop and commercial music. Intermediate ear training, harmony, rhythm, melody, arranging, and production techniques examined. Designed primarily for students enrolled in Music Technology Program. Prerequisites: Music 215 or equivalent with permission of instructor. Student option grading.

MUSIC TECHNOLOGY 217
Pop and Commercial Music Theory III (4)
Application of music theory concepts to “real-life” situations of pop and commercial music. Advanced ear training, harmony, rhythm, melody, arranging, and production techniques examined. Designed primarily for students enrolled in Music Technology Program. Prerequisites: Music 216 or equivalent with permission of instructor. Student option grading.

MUSIC TECHNOLOGY 220
First-Year Audio Recording (3)
Signal flow is traced throughout a modern multi-track recording facility. Lectures and demonstrations on equipment and procedures are presented in the order they are encountered. While not mandatory, it is recommended the courses are taken sequentially. Student option grading.

MUSIC TECHNOLOGY 221
First-Year Audio Recording (3)
Signal flow is traced throughout a modern multi-track recording facility. Lectures and demonstrations on equipment and procedures are presented in the order they are encountered. While not mandatory, it is recommended the courses are taken sequentially. Student option grading.

MUSIC TECHNOLOGY 222
First-Year Audio Recording (3)
Signal flow is traced throughout a modern multi-track recording facility. Lectures and demonstrations on equipment and procedures are presented in the order they are encountered. While not mandatory, it is recommended the courses are taken sequentially. Student option grading.
MUSIC TECHNOLOGY 223  Multitrack Music Production I (3)
Students learn the operation of a multitrack recording studio and work as engineers on a variety of projects. Instruction combines demonstration and hands-on learning opportunities. Prerequisites: MUSTC 222 or instructor permission. Student option grading.

MUSIC TECHNOLOGY 224  Multitrack Music Production II (3)
Students expand their understanding of the multitrack recording process from the initial recording to production. Emphasis is on the development of a student recording portfolio. Instruction is balanced between demonstration and hands-on learning opportunities. Prerequisite: MUSTC 223 or equivalent with permission of instructor. Student option grading.

MUSIC TECHNOLOGY 225  Multitrack Music Production 3 (3)
Students study advanced topics in multitrack production. Emphasis is on the development of an expanded student portfolio. Instruction combines demonstration and hands-on learning opportunities. Prerequisite: MUSTC 224 or equivalent with permission of instructor. Student option grading.

MUSIC TECHNOLOGY 226  Digital Audio Production I (3)
Provides students with a working understanding of basic digital audio production technology. Topics include sampling, laser theory, compact disc production, video and film applications, satellite broadcast, and digital signal processing. Student option grading.

MUSIC TECHNOLOGY 227  Digital Production II (3)
Provides students with a basis in multitrack digital audio production as it relates to the Pro Tools III digital audio workstation. Topics covered include multitrack audio recording, editing, signal processing and mixing in a random-access, hard disk recording environment. Prerequisite: MUSTC 226 or equivalent with permission of instructor. Student option grading.

MUSIC TECHNOLOGY 228  Digital Audio Production III (3)
A continuation of topics discussed in Music 227, with an emphasis on application of digital audio technologies as used in audio post-production environments, multimedia production and an integrated analog/digital multitrack studio. Prerequisite: MUSTC 227 or equivalent with permission of instructor. Student option grading.

MUSIC TECHNOLOGY 230  Introduction to MIDI (2)
This course introduces the student to MIDI music production using synthesizers, sequencers, drum machines, samplers, personal computers and various controllers. Instruction is balanced between demonstration and hands-on learning opportunities. Student option grading.

MUSIC TECHNOLOGY 231  MIDI Sequencing I (2)
Demonstration/hands-on instruction in modern MIDI sequencing using the Macintosh computer. Detailed exploration of Mark of the Unicorn’s “Digital Performer” sequencing software provides the core of the coursework. It is recommended the courses are taken sequentially. Student option grading.

MUSIC TECHNOLOGY 232  MIDI Sampling (2)
Sampling technology is presented in a demonstration/hands-on course covering introductory to advanced techniques. Prerequisite: MusTc 230 and/or instructor permission. Student option grading.

MUSIC TECHNOLOGY 233  MIDI Synthesis (2)
Synthesis technology is presented in a demonstration/hands-on course covering introductory to advanced techniques. Prerequisite: MusTc 230 and/or instructor permission. Student option grading.

MUSIC TECHNOLOGY 234  MIDI Drum Programming (2)
Demonstration/hands-on instruction in MIDI drum programming covering hardware and software-based technology. Instruction moves through equipment operation into successful programming in various musical styles. MusTc 230 and/or instructor permission. Student option grading.

MUSIC TECHNOLOGY 235  MIDI Sequencing II (2)
Demonstration/hands-on instruction in modern MIDI sequencing using the Macintosh computer. Detailed exploration of Mark of the Unicorn’s “Digital Performer” sequencing software provides the core of the coursework. It is recommended the courses are taken sequentially. Student option grading.

MUSIC TECHNOLOGY 236  Digital Performer I: Beginning Digital Audio (5)
Students learn the Digital Performer application with an emphasis on the digital audio component of the application software. Students will demonstrate and develop projects simulating a commercial recording studio environment. Student option grading.

MUSIC TECHNOLOGY 237  Digital Performer II: Static Sound Design (5)
Students learn the Digital Performer application as it applies to audio post-production of static sound design elements such as software graphical-user-interface (GUI), on-line audio and books-on-tape, simulating a commercial recording studio environment. Prerequisites: MusTc 236. Student option grading.

MUSIC TECHNOLOGY 238  Digital Performer III: Film/Video Sound Design (5)
Students learn the Digital Performer application as it applies to video post-production of film and video sound design elements such as dialog, sound effects and sound tracks simulating a commercial recording studio environment. Prerequisites: MusTc 237, MusTc 251 or 261 (MIDI Sequencing III or IV), which may be taken concurrently. Student option grading.

MUSIC TECHNOLOGY 241  MIDI Sequencing II (2)
Demonstration/hands-on instruction in modern MIDI sequencing using the Macintosh computer. Detailed exploration of Mark of the Unicorn’s “Digital Performer” sequencing software provides the core of the coursework. It is recommended the courses are taken sequentially. Student option grading.

MUSIC TECHNOLOGY 242  Advanced Sampling (2)
Advanced sampling topics including keygroup assignments, looping, velocity cross-fade and envelope construction. Hands-on/lecture format. Sample and program editing will be accomplished via software based editing using the Atari 1040 ST Computer and the Akai S900 Sampler. Prerequisite: MusTc 232 or equivalent with instructor permission. Student option grading.

MUSIC TECHNOLOGY 243  Advanced Synthesis (2)
Course covers advanced concepts necessary for successful MIDI synthesizer programming in a lecture/hands-on format. Advanced topics will include amplitude modulation, LFO function, the Yamaha operator system, various ratio rules and algorithms as well as they apply to FM, phase distortion and linear arithmetic synthesis. Prerequisite: MusTc 233 or equivalent with instructor permission. Student option grading.

MUSIC TECHNOLOGY 244  MIDI Drum Programming (2)
Demonstration/hands-on instruction in MIDI drum programming covering hardware and software-based technology. Instruction moves through equipment operation into successful programming in various musical styles. MusTc 230 and/or instructor permission. Student option grading.

MUSIC TECHNOLOGY 246  Audio Post I: Digital Music Production (5)
Course provides students with a working understanding of advanced non-linear digital production of music using digital audio workstations in a recording studio environment. Students will prepare portfolio material demonstrating recording and mastering techniques in solo piano, small guitar, small acoustic group, and amplified group. Prerequisites: MusTc 226, MusTc 227, MusTc 228 and VCT 124 or Instructor Permission Student Option Grading.

MUSIC TECHNOLOGY 247  Audio Post II: Digital Radio Production (5)
Course provides students with a working understanding of advanced radio broadcast oriented commercial, public service, short- and long-form programming and "Industrial" non-linear digital production using digital audio workstations in a recording studio environment, based upon a broadcast paradigm (quick turnaround, high-volume production of time sensitive audio content). Prerequisites: MusTc 226, MusTc 227, MusTc 228, MusTc 246 and VCT 124 or Instructor Permission. Student Option grading.

MUSIC TECHNOLOGY 248  Audio Post III: Digital Audio for Video (5)
Course provides students the opportunity to design and develop music, sound effects, and other creative audio components for existing video material, taken from video tape or film transfer, using advanced production techniques on a non-linear digital audio workstation. Students learn standards and practices used in the media post-production industry in a recording studio environment. Prerequisites: MusTc 226, MusTc 227, MusTc 228, MusTc 246, MusTc 247, and VCT 124, or Instructor Permission. Student Option Grading.
MUSIC TECHNOLOGY 249  
Portfolio Development (2)  
Creation and compilation of a professional demo package which will include 1 master recordings of the student’s own compositions and productions. Portfolio materials will demonstrate student work on a wide variety of equipment and musical styles and will be tailored to the specific vocationally related ambitions of each student. Prerequisite: Second year standing: completion of advanced MIDI courses, or equivalent with instructor permission. Student option grading.

MUSIC TECHNOLOGY 251  
MIDI Sequencing III (2)  
Demonstration/hands-on instruction in modern MIDI sequencing using the Macintosh computer. Detailed exploration of Mark of the Unicorn’s “Digital Performer” sequencing software provides the core of the coursework. It is recommended the courses are taken sequentially. Student option grading.

MUSIC TECHNOLOGY 261  
MIDI Sequencing IV (2)  
Demonstration/hands-on instruction in modern MIDI sequencing using the Macintosh computer. Detailed exploration of Mark of the Unicorn’s “Digital Performer” sequencing software provides the core of the coursework. It is recommended the courses are taken sequentially. Student option grading.

MUSIC TECHNOLOGY 262  
Basic Studio and Sound Maintenance (2)  
Common techniques and procedures for isolating the proximate cause of aberrant audio system behavior. Successful completion of the course will enable students to understand and recognize common failure modes of various types of equipment used in the history. Student option grading.

MUSIC TECHNOLOGY 263  
Advanced Studio and Sound Maintenance (2)  
The purpose of this course is to enable the student to resolve audio equipment problems and to execute routine maintenance of equipment. The student will gain familiarity with the necessary tools and test equipment needed to perform many rudimentary maintenance tasks. Student option grading.

MUSIC TECHNOLOGY 297, 298, 299  
Special Project (1,2,3)

NURSING 067  
Fundamentals of Caregiving (2.5)  
This course meets the Washington State requirement for “Fundamentals of Care Giving” certificate in order to be employed in community care giving settings. Mandatory P/NC grading.

NURSING 068  
Receiving Nursing Delegation (1)  
This course prepares the student to receive delegation of selected nursing tasks under the Washington State Nurse Delegation regulations. Mandatory P/NC grading.

NURSING 069  
Nursing Assistant Training (6.5)  
This course prepares the student to be a nursing assistant. Federal and state requirements for taking the Nursing Assistant Certification Examination will be included. Mandatory P/NC grading.

NURSING 070  
Comprehensive Nursing Assistant Training (10)  
This course prepares the student to be a nursing assistant for the care of residents of community and long term care facilities. Requirements for “Fundamentals of Care Giving,” “Nurse Delegation,” and federal and state requirements for taking the Nursing Assistant Certification examination will be included. Mandatory P/NC grading.

NURSING 091  
Success Strategies (2)  
Test-taking skills, working in culturally diverse groups, drug dosage computation, and campus support services. An optional course recommended for those interested in improving academic skills or for whom English is not the native language. Prerequisites: Admission to the nursing program. Concurrent enrollment in Nursing 130 or permission. Mandatory P/NC grading.

NURSING 092  
Critical Thinking (2)  
An optional problem-solving seminar designed to assist students in developing their critical thinking skills in relationship to the nursing process. Emphasis will be on case studies. Prerequisites: Concurrent enrollment in NURS 140 or permission. Mandatory P/NC.

NURSING 100  
Communication in Nursing (2)  
Provides the student with the opportunity to apply basic principles of communication and human relations to health care situations. Includes identification of problems in human relationships and techniques for working successfully with clients, families, co-workers, and others in the health care environment. Prerequisites: Admission to the Nursing program. Instructor approval required. Mandatory P/NC grading.

NURSING 110  
Skills Practice Laboratory for Communication (1)  
On-campus practice of communication skills including communicating within the health care team, techniques to use with clients, group process, and responding to individuals with varying needs, ages, and problems. Techniques for managing personal stress in the health care setting are explored. Instructor approval required. Mandatory P/NC grading.

NURSING 120  
Skills Practice Laboratory for Communication (1)  
On-campus practice of communication skills including communicating within the health care team, techniques to use with clients, group process, and responding to individuals with varying needs, ages, and problems. Techniques for managing personal stress in the health care setting are explored. Instructor approval required. Mandatory P/NC grading.

NURSING 133  
Skills Practice Laboratory I (1)  
Taken concurrently with NURS 134, provides on-campus experience practicing basic nursing skills. Prerequisite: Admission to the Nursing program. Mandatory P/NC grading.

NURSING 134  
Nursing Foundations Practicum (4)  
Taken concurrently with NURS 132, provides opportunity for student to apply the nursing process, communication skills, and basic nursing skills in a long-term care setting. Prerequisite: Admission to the Nursing program. Mandatory P/NC grading.

NURSING 140  
Nursing Practice and Common Health Disturbances (5)  
Nursing care related to common disturbances of homeostasis: immobility, malnutrition, infection, inflammation, healing, pain, shock, postoperative care, unconsciousness, grief, body image, dementia, diabetes, integumentary and musculoskeletal disorders. Critical thinking and cultural needs integrated. Prerequisites: NURS 130, 131, 132, 133, 134. Mandatory decimal grading.

NURSING 141  
Skills Practice Laboratory II (1)  
Provides progression in the practice of nursing skills in an on-campus laboratory setting. Taken concurrently with NURS 140 and 142. Prerequisites: NURS 130, 131, 132, 133, 134. Mandatory P/NC grading.

NURSING 142  
Common Health Disturbances Practicum (4)  
Provides the opportunity to expand the use of nursing process and technical skills when caring for hospitalized persons. Emphasizes medical administration, health teaching and interpersonal communication. Taken concurrently with NURS 140, 141. Prerequisites: NURS 130, 131, 132, 133, 134. Mandatory P/NC grading.

NURSING 150  
Nursing Practice and Complex Health Disturbances (4)  
Third level in the Nursing sequence, with emphasis on hospitalized patients with complex health disturbances across the life-span. Focus is on the surgical experience, fluid, electrolyte, and acid-base balance, respiration, cardiac, immune, cancer, gastrointestinal, endocrine, eye and ear problems. Prerequisites: Nursing 130, 131, 132, 133, 134, 140, 141, 142. Mandatory decimal grading.

NURSING 152  
Skills Practice Laboratory III (1)  
Third level in the Nursing sequence where students practice and demonstrate nursing skills in an on-campus laboratory setting. Prerequisites: Nursing 140, 141, 142 or permission. Mandatory P/NC grading. Concurrent enrollment in NURS 150 required.

COURSE DESCRIPTIONS
NURSING 153
Complex Health Disturbances I Practicum (5)
Students provide care for hospitalized individu-
als with complex health disturbances with spe-
cial emphasis on those related to fluid, elec-
trolyte, and acid-base imbalance, cancer, immu-
ne, gastrointestinal, respiratory, cardiovascular,
endocrine, and eye and ear dysfunction and on
individuals undergoing surgery. Concurrent
enrollment in Nursing 150 required. Mandatory P/NC grading.

NURSING 226
LPN to ADN Transition 6 (6)
Sixth course for LPNs seeking education for
registered nurse licensure. Focuses on nursing
care of persons throughout the life span who
have acute, life-threatening disturbances related
to hematopoietic and acute neurological disor-
ders, myocardial infarction, organ failure, trau-
a, severe burns, and multisystem failure.
Prerequisites: NURS 225. Instructor permission
required. Mandatory decimal grading.

NURSING 227
LPN to ADN Transition 7 (6)
Final course preparing licensed practical nurses
for the registered nurse role. Leadership and
management of a nursing team are integrated.
Transition to the registered nurse role and role
responsibilities are emphasized. Prerequisites:
NURS 236. Instructor permission required.
Mandatory decimal grading.

NURSING 230
Nursing Practice and Complex Health
Disturbances II Practicum (2.5)
More advanced nursing theory with emphasis
on care of the person with complex health dis-
turbances and interrelated psychosocial disor-
ders. Includes special emphasis on neurological,
liver organ system, reproductive system dys-
fuction, and the effects of toxic agents on the
body. Prerequisites: Nursing 130, 131, 150,
152, 153. Mandatory decimal grading.

NURSING 231
Complex Health Disturbances II Practicum
(5)
Students provide care for hospitalized individu-
als with complex health disturbances with spe-
cial emphasis on those related to neurological,
liver organ system, reproductive system dys-
fuction and disorders related to the effects of
toxic agents on the body while integrating
understanding of psychosocial disorders.
Prerequisites: Nursing 130, 131, 150, 152,
153. Mandatory P/NC grading.

NURSING 232
Nursing Practice and Psychosocial
Disturbance (2.5)
Concepts of mental health, psychopathology,
treatment modalities, psychopharmacology and
the effect of culture and development on men-
tal health status, and the mental health system
and its effect on individuals are explored.
Principles of psychosocial nursing and work
with the interdisciplinary team are emphasized.
Prerequisites: NURS 130, 131, 150, 152, 153
or instructor permission. Mandatory P/NC grading.

NURSING 233
Psychosocial Disturbance Practicum (2)
Provision of care for individuals with psychi-
atric disturbances in a variety of settings.
Working with interdisciplinary team is empha-
sized. Concurrent enrollment in NURS 232
Prerequisites: NURS 150, 152, 153.
Mandatory P/NC grading.

NURSING 240
Nursing Practice and the Childbearing
Family (3)
Provides knowledge related to physiological and
psychological changes occurring during the
childbearing experience. Major focus is home-
ostasis for mother, newborn, and family unit.
Explores cultural implications and diverse
approaches and attitudes regarding childbear-
ing. Taken concurrently with NURS 241.
Prerequisites: NURS 230, 231, 232 and 233.
Instructor’s permission required. Mandatory
decimal grading.

NURSING 241
Nursing and Childbearing Family Practicum
(4)
Expands use of the nursing process and
advanced skills to the care of the childbearing
family unit with emphasis on antepartal, intra-
partal, and postpartal care of mothers and new-
borns in both acute care and community set-
tings. Taken concurrently with NURS 240.
Instructor’s permission required. Prerequisites:
NURS 230, 231, 232 and 233. Mandatory
P/NC grading.

NURSING 242
Nursing Practice and Health Promotion
(3)
Provides knowledge related to maintaining and
promoting optimal health for individuals and
families. Emphasis is on supporting client self-
determination and self care in the home and
community. Prerequisites: NURS 230, NURS
231, NURS 232, NURS 233 or instructor’s permis-
sion. Mandatory decimal grading.

NURSING 243
Nursing and Health Promotion Practicum
(2)
Clinical practice in ambulatory and community
settings. The major focus is on use of nursing
process and promoting health and self determi-
nation. Prerequisites: NURS 230, NURS 231,
NURS 232, NURS 233 or instructor’s permis-
sion. Mandatory P/NC grading.

NURSING 244
Managing Nursing Care Practicum (3)
Clinical practice in the management of patien-
t/client care and working with the health care
team. Explores the challenges, issues, and trends
affecting the nursing profession and the health
care system of today. Provides information rel-
ative to legal issues surrounding licensure.
Prerequisites: NURS 240, NURS 241, NURS
242, NURS 243. Mandatory decimal grading.

NURSING 245
Managing Nursing Care in the Health Care
System (3)
Practicum focusing on the management of health
service delivery systems. Explores the challenges,
isues, and trends affecting the nursing profes-
sion and the health care system of today.
Prerequisites: NURS 240, NURS 241, NURS
242, NURS 243. Mandatory P/NC grading.

NURSING 246, 282, 283, 284, 285
Special Topics (1,2,3,4, 5)

NURSING 290
Leadership Experience in Nursing (1-2)
An elective course that focuses on support for
students in leadership positions in organiza-
tions. Emphasizes developing skills for group
leading, recruitment of others into the organi-
zation’s programs, organizing and planning
events, fund raising, and managing conflict
within organizations. Mandatory P/NC grad-
ing.

NURSING 297, 298, 299
Special Project (1,2,3)

NUTRITION, DIETETICS, FOODS 103
Food Systems Management I (5)
A study of the basic principles of management.
Includes planning, decision making, leadership,
communications and financial and human
resources as they relate to clinical nutrition
management. Student option grading.

NUTRITION, DIETETICS, FOODS 104
Food Systems Preceptorship I (2)
Students will be assigned to various health care
facilities to observe and put into practice theo-
ries learned in the classroom. Prerequisite:
Concurrent enrollment in NDF 103. Student
option grading.

NUTRITION, DIETETICS, FOODS 105
Food Systems Management II (5)
A study of the basic skills in the day to day
operation of food service departments in health
care institutions. Includes safety and sanitation
procedures, menu-planning, purchasing, inven-
tory control and food quality assurance.
Prerequisite: completion of NDF 103 or
equivalent with instructor permission. Student
option grading.
COURSE DESCRIPTIONS

NUTRITION, DIETETICS, FOODS 106
Food Systems Preceptorship II (3)

Students will gain an exposure to the administrative aspects of nutrition and dietetics. An understanding of the relationships between patient and food service and delivery of nutritional care is strongly emphasized. Prerequisite: Concurrent enrollment in NDF 105. Student option grading.

NUTRITION, DIETETICS, FOODS 110/110W
Nutrition (5)

A general study of nutrients in food, its digestion, absorption and metabolism. Course also deals with energy balance, weight control, nutritional assessment and improvement of general well-being. Student option grading.

NUTRITION, DIETETICS, FOODS 177

Mandatory P/Z grading.

PARENT EDUCATION 110
Parent Cooperative Preschool (2)

Lecture/lab for parents of birth to one year olds; ParEd 110, 111, 112 together cover parenting the 0-1 year old: child development, influences on development, guidance and discipline, health, nutrition, play, language and literacy development. Sequence of topics is by instructor discretion. Instructor approval required. Mandatory P/Z grading.

PARENT EDUCATION 111
Parent Cooperative Preschool (2)

Lecture/lab for parents of birth to one year olds; ParEd 110, 111, 112 together cover parenting the 0-1 year old: child development, influences on development, guidance and discipline, health, nutrition, play, language and literacy development. Sequence of topics is by instructor discretion. Instructor approval required. Mandatory P/Z grading.

PARENT EDUCATION 112
Parent Cooperative Preschool (2)

Lecture/lab for parents of birth to one year olds; ParEd 110, 111, 112 together cover parenting the 0-1 year old: child development, influences on development, guidance and discipline, health, nutrition, play, language and literacy development. Sequence of topics is by instructor discretion. Instructor approval required. Mandatory P/Z grading.

PARENT EDUCATION 120
Parent Cooperative Preschool (2)

Lecture/lab for parents of 1-2 year olds; ParEd 120, 121, 122 together cover parenting the 1-2 year old: child development, influences on development, guidance and discipline, health, nutrition, play, language and literacy development. Sequence of topics is by instructor discretion. Instructor approval required. Mandatory P/Z grading.

PARENT EDUCATION 121
Parent Cooperative Preschool (2)

Lecture/lab for parents of 1-2 year olds; ParEd 120, 121, 122 together cover parenting the 1-2 year old: child development, influences on development, guidance and discipline, health, nutrition, play, language and literacy development. Sequence of topics is by instructor discretion. Instructor approval required. Mandatory P/Z grading.

PARENT EDUCATION 122
Parent Cooperative Preschool (2)

Lecture/lab for parents of 1-2 year olds; ParEd 120, 121, 122 together cover parenting the 1-2 year old: child development, influences on development, guidance and discipline, health, nutrition, play, language and literacy development. Sequence of topics is by instructor discretion. Instructor approval required. Mandatory P/Z grading.

PARENT EDUCATION 125
Parent Cooperative Preschool (2)

Lecture/lab for parents of 2-3 year olds; 1-day/week option to accommodate child or family needs. ParEd 125, 126, 127 together cover parenting the 2-3 year old: child development, influences on development, guidance and discipline, health, nutrition, play, language and literacy development. Sequence of topics is by instructor discretion. Instructor approval required. Mandatory P/Z grading.
PARENT EDUCATION 126
Parent Cooperative Preschool (2)
Lecture/lab for parents of 2-3 year olds: 1- day/week option to accommodate child or fam- ily needs. ParEd 125, 126, 127 together cover parenting the 2-3 year old: child development, influences on development, guidance and disci- pline, health, nutrition, play, language and lit- eracy development. Sequence of topics is by instructor discretion. Instructor approval required. Mandatory P/Z grading.

PARENT EDUCATION 127
Parent Cooperative Preschool (2)
Lecture/lab for parents of 2-3 year olds: 1- day/week option to accommodate child or fam- ily needs. ParEd 125, 126, 127 together cover parenting the 2-3 year old: child development, influences on development, guidance and disci- pline, health, nutrition, play, language and lit- eracy development. Sequence of topics is by instructor discretion. Instructor approval required. Mandatory P/Z grading.

PARENT EDUCATION 130
Parent Cooperative Preschool (2)
Lecture/lab for parents of 2-3 year olds: 2- day/week option to accommodate child or fam- ily needs. ParEd 130, 131, 132 together cover parenting the 2-3 year old: child development, influences on development, guidance and disci- pline, health, nutrition, play, language and lit- eracy development. Sequence of topics is by instructor discretion. Instructor approval required. Mandatory P/Z grading.

PARENT EDUCATION 131
Parent Cooperative Preschool (2)
Lecture/lab for parents of 2-3 year olds: 2- day/week option to accommodate child or fam- ily needs. ParEd 130, 131, 132 together cover parenting the 2-3 year old: child development, influences on development, guidance and disci- pline, health, nutrition, play, language and lit- eracy development. Sequence of topics is by instructor discretion. Instructor approval required. Mandatory P/Z grading.

PARENT EDUCATION 132
Parent Cooperative Preschool (2)
Lecture/lab for parents of 2-3 year olds: 2- day/week option to accommodate child or fam- ily needs. ParEd 130, 131, 132 together cover parenting the 2-3 year old: child development, influences on development, guidance and disci- pline, health, nutrition, play, language and lit- eracy development. Sequence of topics is by instructor discretion. Instructor approval required. Mandatory P/Z grading.

PARENT EDUCATION 140
Parent Cooperative Preschool (3)
Lecture/lab for parents of 3-4 year olds: ParEd 140, 141, 142 together cover parenting the 3-4 year old: child development, influences on development, guidance and discipline, health, nutrition, play, language, and literacy develop- ment. Sequence of topics is by instructor dis- cretion. Instructor approval required. Mandatory P/Z grading.

PARENT EDUCATION 141
Parent Cooperative Preschool (3)
Lecture/lab for parents of 3-4 year olds: ParEd 140, 141, 142 together cover parenting the 3-4 year old: child development, influences on development, guidance and discipline, health, nutrition, play, language, and literacy develop- ment. Sequence of topics is by instructor dis- cretion. Instructor approval required. Mandatory P/Z grading.

PARENT EDUCATION 142
Parent Cooperative Preschool (3)
Lecture/lab for parents of 3-4 year olds: ParEd 140, 141, 142 together cover parenting the 3-4 year old: child development, influences on development, guidance and discipline, health, nutrition, play, language, and literacy develop- ment. Sequence of topics is by instructor dis- cretion. Instructor approval required. Mandatory P/Z grading.

PARENT EDUCATION 150
Parent Cooperative Preschool (3)
Lecture/lab for parents of 4-5 year olds: ParEd 150, 151, 152 together cover parenting the 4-5 year old: child development, influences on development, guidance and discipline, health, nutrition, play, language, and literacy develop- ment. Sequence of topics is by instructor dis- cretion. Instructor approval required. Mandatory P/Z grading.

PARENT EDUCATION 151
Parent Cooperative Preschool (3)
Lecture/lab for parents of 4-5 year olds: ParEd 150, 151, 152 together cover parenting the 4-5 year old: child development, influences on development, guidance and discipline, health, nutrition, play, language, and literacy develop- ment. Sequence of topics is by instructor dis- cretion. Instructor approval required. Mandatory P/Z grading.

PARENT EDUCATION 152
Parent Cooperative Preschool (3)
Lecture/lab for parents of 4-5 year olds: ParEd 150, 151, 152 together cover parenting the 4-5 year old: child development, influences on development, guidance and discipline, health, nutrition, play, language, and literacy develop- ment. Sequence of topics is by instructor dis- cretion. Instructor approval required. Mandatory P/Z grading.

PARENT EDUCATION 281, 282, 283
Special Topics (1,2,3)

PARENT EDUCATION 297, 298, 299
Special Project (1,2,3)
Additional independent study and research on an approved topic. Permission of the instructor required. Student option grading.

PHILOSOPHY 100
Introduction to Philosophy (5)
Major philosophical concepts addressed are metaphysics, ontology (what is really real), epistemology (issues regarding how we know), and concepts related to political and ethical theories. Both classical (Plato and Aristotle) and contemporary philosophers are examined in an historical context. Prerequisites: Recommend successful completion of Eng 100 or placement into Eng 101. Student option grading.

PHILOSOPHY 102
Contemporary Moral Problems (5)
Students will use basic ethical theory methods of diverse cultures to investigate and critically examine such contemporary moral issues as capital punishment, war and violence, animal rights, environmental degradation, abortion, racial and ethnic discrimination, and injustices related to gender and sexuality. Prerequisite: Recommend successful completion of ENG 100 or placement into ENG 101. Student option grading.

PHILOSOPHY 115
Critical Thinking (5)
In this course, students learn the concept of an argument, learn how to distinguish arguments from non-arguments, and study different pat- terns of argumentation. Students also learn how to critically evaluate arguments and how to construct arguments of their own. Student option grading.

PHILOSOPHY 120
Introduction to Logic (5)
A rigorous and systematic examination of formal logic focusing on modern truth functional and quantificational symbolic logic and the associated formal language and proof systems. Prerequisite: Math 099 or ASSET test. Student option grading.

PHILOSOPHY 210
Comparative Religion (5)
A survey course in the history of world reli- gions which analyzes the beliefs and practices of the major religions embraced by humanity. Student option grading.

PHILOSOPHY 230
Philosophic Issues in World Affairs (5)
Topics will include issues of affluence, impover- ishment, hunger, global environmental degra- dation, violence and non-violence. The views of philosophers from Latin America, Africa, and Asia will be analyzed and interpreted, in relation to shifts in the international order. (Formerly Philosophy 167.) Prerequisites: Recommend successful completion of English 100 or placement into English 101. Student option grading.

PHILOSOPHY 240
Introduction to Ethics (5)
An historical review and topical analysis of the distinction between good and evil, right and wrong. The appeals to custom, theology, rea- son, human nature and happiness as standards for solution of moral problems. Readings in Plato, Hume, Kant, Bentham, Mill and other major philosophers, including texts on contem- porary medieval and social problems. Prerequisite: ENG 101 or equivalent recom- mended. Student option grading.

PHILOSOPHY 248
Ethical Issues in Criminal Justice (5)
Discussion of the philosophical, psychological, moral and ethical underpinnings of human behavior in the criminal justice system. Looks at ethical concerns regarding the police, courts, punishment and corrections and how ethical decisions are made. Mandatory decimal grad- ing.
PHILOSOPHY 267
Introduction to Philosophy of Religion (5)
Study of and philosophical reflection upon major world and indigenous religions’ myths, rituals, values, and practices. Addresses issues raised when human beings experience religion, such as the problem of evil, creation, faith, and the attributes of God. Prerequisites: Recommend successful completion of Eng 100 or placement into Eng 101. Student option grading.

PHILOSOPHY 280
Philosophy of Existentialism (5)
The course will examine the importance of Existentialism in our times. It will discuss its sources, diffusion and message. The concept of freedom versus determinism, individualism versus solipsism, the self and society will be examined. Readings will include Marx, Kierkegaard, Goethe, Nietzsche, Jaspers, Camus, Sartre and others. Prerequisites: ENG 101 or equivalent recommended. Student option grading.

PHILOSOPHY 285
Special Topics (5)

PHILOSOPHY 297, 298, 299
Special Project (1,2,3)
Special tutorial projects in specific areas of philosophy. Arrangement with instructor. Prerequisite: Instructor permission, based on evaluation of students’ educational and work experience. Student option grading.

PHYSICAL EDUCATION 101
Fitness Assessment and Prescription (2)
Designed to assist students in evaluation of current fitness levels, setting realistic goals and developing a fitness program. Includes fitness and lifestyle assessments. Student option grading.

PHYSICAL EDUCATION 102
Soccer I (4)
This course is an introduction of the rules, techniques, physical skills, and strategies of the game of soccer. Students will be introduced to the game from historical and technical perspectives: learning its origins and rules, then developing their individual skills through a series of demonstrations, drills and individual performance tasks and reinforcing their skill through competitive games. Student option grading.

PHYSICAL EDUCATION 104, 204
Target Archery I, II (2)
History, terminology, safety, shooting techniques, understanding and correcting errors, selection, care and correct use of archery equipment. Student option grading.

PHYSICAL EDUCATION 105
Badminton I (2)
This course is an introduction of the rules, techniques, physical skills, and strategies of the game of badminton. Students will be introduced to the game from historical and technical perspectives: learning its origins and rules, then developing their individual skills through a series of demonstrations, drills and individual performance tasks and reinforcing their skill through competitive games; and tournament experiences. Student option grading.

PHYSICAL EDUCATION 106
Basketball Officiating I (2)
Introduction to the fundamentals of basketball officiating including rules, mechanics, movement, professionalism, judgment and career applications. Includes game experience. Successful completion of course satisfies Association apprenticeship requirements. Student option grading.

PHYSICAL EDUCATION 107, 207
Pickleball I, II (1)
Played on a badminton court with the net three-feet high. Short paddle and whiffle ball make up equipment. Equipment on conditioning, speed, agility, coordination and timing. Mandatory F/0.0 or PN/NC grading.

PHYSICAL EDUCATION 108
Basketball I (2)
This course is an introduction to conditioning and basic skills (passing, shooting, ball handling and rebounding) as they relate to basketball. It also includes individual and team strategy, skills and techniques, rules of the game, scoring procedures and officiating. Evaluation includes skills and written test. Student option grading.

PHYSICAL EDUCATION 110
Racquetball I (1)
This course is an introduction of the rules, techniques, physical skills, and strategies of the game of racquetball. Students will be introduced to the game from historical and technical perspectives: learning its origins and rules, then developing their individual skills through a series of demonstrations, drills and individual performance tasks and reinforcing their skill through competitive games. Student option grading.

PHYSICAL EDUCATION 111, 211
Jogging for Fitness and Leisure I, II (2)
Body mechanics, running fundamentals, equipment selection, training programs, diet, weight control, conditioning exercises and psychological factors. Student option grading.

PHYSICAL EDUCATION 112
Softball I (2)
This course is an introduction to conditioning and basic skills (throwing, catching, fielding, batting, base running and bunting) as they relate to both fast and slow pitch softball. It also includes individual and team strategy, skills and techniques, rules of the game, scoring procedures and umpiring. Evaluation includes skills and written test. Student option grading.

PHYSICAL EDUCATION 113, 213
Fencing I, II (2)
An introduction to basic footwork and foil technique based on the USFA Basic Foil syllabus. The concepts of “Distance” and “Line” will be introduced and elementary strategy and tactics explored. The rules of foil will be explained and applied. Student option grading.

PHYSICAL EDUCATION 114
Golf I (2)
This course is designed for the beginning or part time golfer. Subject matter includes the full swing, short game and strategy. Rules of the game, videotaping, practice range, and golf course lessons will also be included. Student option grading.

PHYSICAL EDUCATION 115
Introduction to Wilderness Recreation (3)
A lecture based course designed to provide an overview of the many aspects involved in a wilderness/hiking experience. Includes units on clothing, equipment, cooking, land navigation, environmental issues, shelter, first aid, backcountry leisure activities and conditioning.

PHYSICAL EDUCATION 116
Baseball I (2)
This course is an introduction to the mental and physical strategies as they relate to baseball. It involves individual and team strategy (both offensive and defensive), strength and conditioning enhancement, and injury management and prevention. Evaluation includes written comprehension of baseball rules and concepts, and practice and performance of baseball skills and strategies. Student option grading.

PHYSICAL EDUCATION 117, 217
Mountain Biking I, II (2)
An activity-based course for those who would like to learn how to ride a mountain bike over various types of terrain and surfaces. Includes proper technique, individualized goals, and training exercises. Student option grading.

PHYSICAL EDUCATION 118
Hip Hop Jazz I (2)
A beginning level, co-educational class designed to combined traditional Jazz movements with contemporary street dance to music of the same style. Includes isolation, active warm-up, progressive strengthening exercises, stretching and dance. Student option grading.

PHYSICAL EDUCATION 119, 219
Jazz Dance I, II (2)
Co-ed class designed to encourage students to express themselves physically through the use of popular dance music combined with jazz/funk movements. Includes isolations, active warm-up, strengthening exercises, stretching and dance.

PHYSICAL EDUCATION 120, 220
Modern Dance I, II (2)
Emphasis on basic skills, conditioning and improvisation. Students learn to choreograph and perform. Student option grading.

PHYSICAL EDUCATION 121, 221
Aerobic Dance I, II (2)
Co-ed class designed for the development of cardiovascular fitness using aerobic dance. Sections on types of aerobic workouts, components of aerobic dance, body toning, stretching, nutrition, and body composition.

PHYSICAL EDUCATION 122
Tennis I (2)
An introduction to the rules, techniques, physical skills and strategies in the game of tennis. Students will be introduced to the historical and technical perspectives, learn the rules and basic strategies, develop individual skill, single and doubles strategies and reinforce these through competition. Student option grading.

PHYSICAL EDUCATION 123, 223
Step Aerobics I, II (2)
Co-ed class designed for the development of cardiovascular fitness using bench/step training, the most popular trend of this decade. Uses 4-10” step bench.
PHYSICAL EDUCATION 124, 224
Water Aerobics I, II (2)
Understanding, developing and maintaining fitness with emphasis on cardiovascular development through water aerobics. No swimming skill required. Student option grading.

PHYSICAL EDUCATION 125, 225
Skiing: Down Hill I, II (2)
All skill levels. Student option grading.

PHYSICAL EDUCATION 126 226
Volleyball I (2)
This course is an introduction to conditioning and basic skills (passing, setting, serving, spiking, and blocking) as they relate to volleyball. It will also include individual and team strategy, rules and techniques; rules of the game and scoring procedures. Evaluation includes skills and written test. Student option grading.

PHYSICAL EDUCATION 127
Weight Training and Cardio Fitness I (2)
A combination of strength and cardiovascular training techniques allowing the student to develop and experience a personal well-balanced fitness program. Student option grading.

PHYSICAL EDUCATION 128
Aerobic Cross Training I (2)
This course is an introduction to cardiovascular fitness training, physical conditioning, and relaxation and fitness program development. Student will be introduced to several training regimens, the elements of fitness and principles of overall body conditioning using a variety of aerobic machines. Student option grading.

PHYSICAL EDUCATION 129
Weight Training I (2)
Understanding, developing and maintaining muscular fitness through participation in an individual program utilizing a variety of strength and endurance exercises. Student option grading.

PHYSICAL EDUCATION 130
Karate I (2)
An introduction to the martial art of Karate-do which incorporates fundamental skills required for the development of self-defense techniques, flexibility, speed, power, balance and agility. The ancient art of Karate allows students to achieve and develop emotional balance, focus and an exceptional work ethic. Student option grading.

PHYSICAL EDUCATION 131, 231
Body Conditioning/Resistance Training I, II (2)
This course is designed to improve muscular-skeletal fitness levels through resistance exercise, using lightweight equipment and the body as forms of resistance, and through stretching exercise. These activities will promote improvements in muscular strength and endurance, flexibility and body composition. Proper exercise mechanics, nutrition, weight control will be discussed. Student option grading.

PHYSICAL EDUCATION 132
Sea Kayaking (2)
Overview of equipment, safety, conditioning, navigation, basic paddling strokes and strokes, deep water rescues and trip planning. Classroom and on-water experiences. No equipment required. Student option grading.

PHYSICAL EDUCATION 133, 233
T’ai Chi I, II (2)
An introduction to the art of T’ai Chi and its basis in Chinese philosophy as it relates to the development of health, fitness, strength, and power. Students will develop basic T’ai Chi moves and learn a form of exercise based on soft fluid movements. Student option grading.

PHYSICAL EDUCATION 134
Yoga I (2)
An introductory level class that is a turn inward from your typical exercise class to where the focus is from the inside out. A centered grounded technique to gain better balance, strength, flexibility and stability from the body’s core. Using a variety of approaches you will blend energizing effort with relaxing, inhaling with exhaling while quieting the mind, toning the body and inspiring personal confidence. Student option grading.

PHYSICAL EDUCATION 135, 235
Swimming I, II (2)
All skill levels. Emphasis on technique and aerobic conditioning. Students may meet requirements for Red Cross cards. Student option grading.

PHYSICAL EDUCATION 136
Inline Skating I (2)
This course is an introduction to inline skating as a fitness, recreational and cross training sport. Students will learn skills and techniques to develop physical awareness, body strength, balance and coordination to enjoy a sense of complete freedom and well-being. The course focuses on safety and fun. Student option grading.

PHYSICAL EDUCATION 140
Scuba Diving (3)
In this beginning class, students may meet requirements for N.A.U.I. certification. Open water dive scheduled for those who qualify and elect to participate. Equipment required provided by student (mask, fins, snorkel, boots, gloves, dive tables, dive logs, and textbook. Approximate cost for equipment is $275.00). Intermediate swimming ability required.

PHYSICAL EDUCATION 145
Cross Country Skiing I (2)
This course is an introduction to conditioning and basic skill techniques as they relate to cross country skiing. Materials covered in this course will include: winter survival, equipment and style of dress, map and compass work, avalanche dangers, the classic cross skill, uphill skills, and alpine technique, telemark and touring. Student option grading.

PHYSICAL EDUCATION 155, 255
Snowboarding I, II (2)
An activity based course for those who would like to learn how to snowboard. Includes sections on technique and individualized goals and training. Student option grading.

PHYSICAL EDUCATION 161
World Dance: Pacific Rim (3)
Class will explore various Pacific Rim cultures through the medium of dance. Lecture, demonstration and film will be followed by the physical experience of learning dances from around the world. It will provide dynamic learning through a combination of intellectual and experiential activities. Dual listed as HUMAN 161. Student option grading.

PHYSICAL EDUCATION 162
World Dance: Europe and Africa (3)
Class will explore various European and African cultures through the medium of dance. Lecture, demonstration and film viewing will be followed by the physical experience of learning dances from around the world. It will provide a dynamic learning experience through a combination of intellectual and experiential activities. Dual listed as HUMAN 162. Student option grading.

PHYSICAL EDUCATION 167
Voice-Dance Performance Techniques I (2)
Students develop the ability to sing and move simultaneously while preparing them to perform on stage in musical roles. This course is dual listed as Music 167. Student option grading.

PHYSICAL EDUCATION 168
Voice-Dance Performance Techniques II (2)
Students develop further skills in moving and singing simultaneously, including part singing and complex dance combinations. This course is a continuation of Music 167 or PE 167 for the more advanced student and is dual listed as Music 168. Prerequisites: Completion of Music 167, PE 167 or equivalent with instructor’s permission. Student option grading.

PHYSICAL EDUCATION 171
Circus Performance: Balance and Motion (3)
Expand dramatic and kinesthetic abilities. Learn juggling, rope walking and other circus skills. Study and practice theories of balance and motion. Develop historical and international perspectives on performance art. Create a dramatic performance as a final project. Excellent training for actors.

PHYSICAL EDUCATION 191
Cardio-Pulmonary Resuscitation (1)
CPR for the Professional Rescuer/Health Care Provider. Includes adult, infant and child rescue breathing, choking and CPR, as well as two-person CPR, pocket mask and bag-valve mask skills. Student option grading.

PHYSICAL EDUCATION 200
Wellness (3)
PHYSICAL EDUCATION 202
Soccer II (4)
This course is an advanced study of the rules, techniques, physical skills, and strategies of the game of soccer. Students will be introduced to the game from historical and technical perspectives; learning its origins and rules, then developing their individual skills through a series of demonstrations, drills and individual performance tasks and reinforcing their skill through competitive games. Student option grading.

PHYSICAL EDUCATION 205
Badminton II (2)
This course is an advanced study of the rules, techniques, physical skills, and strategies of the game of badminton. Students will be introduced to the game from historical and technical perspectives; learning its origins and rules, then developing their individual skills through a series of demonstrations, drills and individual performance tasks and reinforcing their skill through competitive games; and tournament experiences. Student option grading.

PHYSICAL EDUCATION 206
Advanced Handball (2)
Level II of skills, individual and doubles strategy for handball. Student option grading.

PHYSICAL EDUCATION 208
Basketball II (2)
This course is an advanced study of the rules, techniques physical skills and offensive and defensive strategies of the game of basketball. Basic physical skills are refined through games related drills and students are introduced to the more advanced and technically demanding skills, offensive and defensive systems. Prerequisites: PE 108 or permission. Student option grading.

PHYSICAL EDUCATION 210
Racquetball II (1)
This course is an advanced study of the rules, techniques, physical skills, and strategies of the game of racquetball. Students will be introduced to the game from historical and technical perspectives; learning its origins and rules, then developing their individual skills through a series of demonstrations, drills and individual performance tasks and reinforcing their skill through competitive games. Student option grading.

PHYSICAL EDUCATION 212
Softball II (2)
This course is an advanced study of the rules, techniques physical skills and offensive and defensive strategies of the games of slow and fast pitch softball. Basic physical skills are refined through games related drills and students are introduced to the more advanced and technically demanding skills, offensive and defensive systems. Student option grading.

PHYSICAL EDUCATION 214
Golf II (2)
This course is designed for the intermediate or advanced golfer. Subject matter includes the full swing, short game and strategy. Rules of the game, videotaping, practice range, and golf course lessons will also be included. Student option grading.

PHYSICAL EDUCATION 215
Alpine Hiking (2)
An activity based course for those who would like to explore the basics of human-powered backcountry travel while they hike. Includes sections on clothing, equipment, physical requirements, techniques, the natural environment, and safety strategies.

PHYSICAL EDUCATION 216
Baseball II (2)
This course is an advanced study of the mental and physical strategies as they relate to baseball. It involves individual and team strategy (both offensive and defensive), strength and conditioning enhancement, and injury management and prevention. Evaluation includes written comprehension of baseball rules and concepts, and practice and performance of baseball skills and strategies. Student option grading.

PHYSICAL EDUCATION 218
Hip Hop Jazz II (2)
An advanced study of the combination of traditional Jazz movements with contemporary street dance to music of the same style. Includes isolation, active warm-up, progression strengthening exercises, stretching and dance. Prerequisites: PE 118 or permission. Student option grading.

PHYSICAL EDUCATION 222
Tennis II (2)
An introduction to advanced tennis. Students will learn the game from the technical perspective in a variety of areas including advanced skill development; singles and doubles strategies; the rules of the game; and will reinforce each in competition. Prerequisites: PE 122 or permission. Student option grading.

PHYSICAL EDUCATION 226
Volleyball II (2)
This course is an advanced study of the rules, techniques, physical skills and offensive and defensive strategies of the game of volleyball. Basic physical skills are refined through games related drills and students are introduced to the more advanced and technically demanding skills, multiple hitting attach and variable defensive systems. Prerequisites: PE 126 or permission. Student option grading.

PHYSICAL EDUCATION 227
Weight Training and Cardio Fitness II (2)
This course is an advanced study of cardiovascular and strength training and physical conditions. Student will be expected to know the elements of fitness and principles of overall body condition, and develop and execute several training regimens. Demonstration of an approved level of fitness is an expectation of this course. Prerequisite: PE 127 or permission. Student option grading.

PHYSICAL EDUCATION 228
Aerobic Cross Training II (2)
This course is an advanced study of cardiovascular fitness training, physical conditioning, relaxation and fitness program development. Student will be expected to know the elements of fitness and principles of overall body conditioning and develop and execute several training regimens. Demonstration of an improved level of fitness is an expectation of this course. Prerequisites: PE 128 or permission. Student option grading.

PHYSICAL EDUCATION 229
Weight Training II (2)
Level II of developing and maintaining muscular fitness through participation in an individual program utilizing a variety of strength and endurance exercises. Prerequisites: PE 129 or permission. Student option grading.

PHYSICAL EDUCATION 232
Total Body Training (3)
Students will engage in cardiovascular exercise, resistance training, flexibility training and contemporary movement to music, in order to promote a healthier lifestyle. Issues concerning nutrition, body image, eating disorders, acceptance of self and others, the components of fitness, and appropriate goal setting will be introduced. Student option grading.

PHYSICAL EDUCATION 230
Karate II (2)
An advanced study of the Martial Art of Karate-do this class prepares students for the competitive aspects of the sport. The focus is on increased levels of physical capacity, coupled with application drills, distance/timing skill development and the ability to strategize under pressure. Prerequisites: PE 130 or permission. Student option grading.

PHYSICAL EDUCATION 234
Yoga II (2)
An advanced level class that is a turn from your typical exercise class to where the focus is from the inside out. A centered grounded technique to gain better balance, strength, flexibility and stability from the body’s core. Using a variety of approaches you will blend energizing effort with relaxing, inhaling with exhaling while quieting, toning the body and inspiring personal confidence. Prerequisites: PE 134 or permission. Student option grading.

PHYSICAL EDUCATION 236
Inline Skating II (2)
This course is an advanced study of inline skating as a fitness, recreational and cross training sport. Students will learn skills and techniques to develop physical awareness, body strength, balance and coordination to enjoy a sense of complete freedom and well-being. The course focuses on safety and fun. Prerequisites: PE 236 or permission. Student option grading.

PHYSICAL EDUCATION 245
Cross Country Skiing II (2)
This course is an advanced study of conditioning and basic skill techniques as they relate to cross country skiing. Materials covered in this course will include: winter survival, equipment and style of dress, map and compass work, avalanche dangers, the classic cross ski, uphill skills, and alpine technique, skating and racing, telemark and backcountry touring. Prerequisites: PE 145 or permission. Student option grading.

PHYSICAL EDUCATION 251
Basketball Strategies (3)
For the highly skilled athlete. Individual and team strategies. Advanced conditioning. Prerequisites: PE 108, PE 208 or instructor’s permission. Student option grading.
PHYSICAL EDUCATION 252
Baseball Strategies (3)
For the highly-skilled athlete. Individual and team strategies. Advanced conditioning. Prerequisite: PE 116, PE 216 or instructor’s permission. Student option grading.

PHYSICAL EDUCATION 253
Tennis Strategies (3)
For the highly-skilled athlete. Individual and doubles strategies. Advanced conditioning. Prerequisite: PE 122, PE 222 or instructor’s permission. Student option grading.

PHYSICAL EDUCATION 257
Volleyball Strategies (3)
For the highly skilled athlete. Individual and team strategies. Advanced conditioning. Prerequisite: PE 126, PE 226 or instructor’s permission. Student option grading.

PHYSICAL EDUCATION 258
Soccer Strategies (3)
For the highly skilled athlete. Individual and team strategies. Advanced conditioning. Prerequisite: PE 102, PE 202 or instructor’s permission. Student option grading.

PHYSICAL EDUCATION 259
Softball Strategies (3)
For the highly-skilled athlete. Individual and team strategies. Advanced conditioning. Prerequisite: PE 112, PE 212 or instructor’s permission. Student option grading.

PHYSICAL EDUCATION 260
Fitness Participation (1)
This class is designed for the student who is interested in continuing participation in a team or individual sport, or lifetime fitness activity. Students will participate in only the physical activity portion of the class. Prerequisites: 100 or 200 level of the specific activity course required.

PHYSICAL EDUCATION 261
Athletic First Aid I (3)
Prevention, evaluation, management and rehabilitation of athletic injuries. Emergency care of life threatening situations. Standard first aid and CPR for the Health Care provider certification is available. Prerequisites: BIOSC 108 recommended. Student option grading.

PHYSICAL EDUCATION 262
Care and Prevention of Athletic Injuries I (3)
A joint by joint review of anatomy, mechanics of injury and evaluation techniques. Practical application. Prerequisite: PE 261 or permission. Student option grading.

PHYSICAL EDUCATION 266
Internship: Physical Education, I, R & A (5)
Field experience in physical education, intramurals, recreation or athletics with local agencies. An opportunity for various types of leadership experiences while exploring the profession. Prerequisite: Instructor permission, based on evaluation of student’s education and work experience. Student option grading.

PHYSICAL EDUCATION 274
Archery Instructor Certification (3)
This class teaches intermediate and advanced archers how to instruct a beginning archery class. Topics include history of archery; archery safety; shooting techniques, problem identification and correction; equipment selection, set-up, tuning and maintenance; tournament rules; and basic teaching pedagogy. Class includes lecture, demonstration, and a practical teaching experience with beginning archers. Upon successful completion of this class a National Archery Assoc. Level II Archery Instructor Certification will be awarded. Instructor permission and NAA membership required. Prerequisites: instructor approval required. Student option grading.

PHYSICAL EDUCATION 275
Ski Instructor Training (2)
Prepares the advanced level skier to teach all ability levels. Prerequisite: PE 125, PE 225 or instructor permission. Student option grading.

PHYSICAL EDUCATION 281, 282, 283, 284, 285
Special Topics (1, 2, 3, 4, 5)

PHYSICS 121
Mechanics (5.5)

PHYSICS 122
Waves, Sound and Light (5.5)
Calculus-based physics for majors in physical sciences, engineering, pre-medicine, mathematics. Studies oscillation wave, sound, light and physical optics. Prerequisite: Phys 121 and Math 125. Mandatory decimal grading.

PHYSICS 123
Electromagnetism and Oscillatory Motion (5.5)
Calculus-based physics for majors in physical sciences, engineering, pre-medicine, mathematics. Studies electricity and magnetism. Prerequisite: Phys 121 and Math 126. Mandatory decimal grading.

PHYSICS 281, 283
Special Topics (1, 3)

PHYSICS 297, 298, 299
Special Project (1, 2, 3)

POLITICAL SCIENCE 101
Introduction to Political Science (5)
Key concepts, principles and theories of political science are explored. Emphasis is upon understanding the nature, purpose, process and practice of politics in both its democratic and non-democratic forms. An interdisciplinary approach will be used, as well as stressing multi-cultural and multi-national global issues. Formerly PolSci 201. Mandatory decimal grading.

POLITICAL SCIENCE 202
Introduction to American Government and Politics (5)
A examination of the processes of American government. Analysis of its structure, functions and policy. The form combines lectures, a variety of paperback readings, and feature films. Mandatory decimal grading.
PSYCHOLOGY 202
Biopsychology (5)
This course explores the basic question: How does our biology influence how we think, feel, and act? Topics include: the nervous system, sensation, learning, memory, sex, drugs, language, mental illness, and practical factors affecting brain development and functioning. A prerequisite for UW psychology majors. Prerequisite: Psychology 100 or equivalent with instructor permission. Mandatory decimal grading.

PSYCHOLOGY 204
Lifespan Development (5)
A survey of human development from conception through late adulthood. Physical, emotional, cognitive and psychosocial development will be explored. Mandatory decimal grading.

PSYCHOLOGY 205
Abnormal Psychology (5)
Introduction to the field of psychopathology. A survey of the symptoms, causes and treatment of deviant behaviors will be considered. Prerequisite: Psych 100, or equivalent with instructor permission. Mandatory decimal grading.

PSYCHOLOGY 206
Developmental Psychology (5)
An analysis of psychological development of the child in relation to biological, physical and sociological antecedent conditions from infancy through adolescence. Prerequisite: Psych 100 or equivalent with instructor permission. Mandatory decimal grading.

PSYCHOLOGY 208
Adulthood, Aging and Development (5)
A study of the basic concepts and issues in adult aging and development. Exploration of the developmental patterns and problems characteristic of the adult years from a cultural perspective. Formerly EDHIS 103 and HMDEV 103. Mandatory decimal grading.

PSYCHOLOGY 209
Fundamentals of Psychological Research (5)
This course covers the key themes and concepts of psychological research and is a foundation course for students planning to take additional courses in psychology. Students will also learn how to critically evaluate scientific findings and claims made by the popular press. A prerequisite for UW psychology majors. Prerequisite: Psychology 100 or equivalent with instructor permission. Mandatory decimal grading.

PSYCHOLOGY 210
Human Sexuality (5)
Survey of social, psychological and biological influences on patterns of human sexual behavior. Sexual dysfunction and therapy, contraception, and venereal disease will also be considered. Mandatory decimal grading.

PSYCHOLOGY 236
Introduction to Personality (5)
Introduction to the psychology of personality, including personality theories and theorists, personality assessment, and personality constructs. Prerequisites: Psych 100 or equivalent with instructor permission. Mandatory decimal grading.

PSYCHOLOGY 245
Social Psychology (5)
Introduction to the scientific study of individual human beings acting in a social setting regulated by culture. Social psychology brings something distinctive to the basic questions of life: empirical and especially experimental evidence. Mandatory decimal grading.

SOCIAL SCIENCE 100
Business, Government and Society (5)
Survey of the role of business in a modern market economy, its growth, influence and relationship to social responsibility. This course will include, but will not be limited to, a study of business objectives, internal and external functions and organizational management problems. Dual listed as BusAd 100. Mandatory decimal grading.

SOCIAL SCIENCE 282
Special Topics (2)
SOCIAL SCIENCE 297, 298, 299
Special Project (1,2,3)
SOCIOLoGY 280
Introduction to Criminology (5)
Analysis of the criminal justice system. Discussion of its strengths, weaknesses and its effects on crime and delinquency. Study and discussion of the cause and reaction to criminal behavior. Mandatory decimal grading.

SOCIOLoGY 288
Sociology of Minority Groups (5)
Use of sociological theories and research to examine the current and historical issues confronting American ethnic and racial minority groups. The course evaluates the socio-cultural context of group environments. Explores the concepts of culture, mores, biases, religious beliefs, stereotypes, discrimination, prejudice, gerontology, gender, class and minority and majority group relations past and present. Dual listed as IAStu 202. Mandatory decimal grading.

SPANSH 100
Practical Spanish for Law Enforcement (3)
Fast-paced beginning Spanish course. Students will learn a practical vocabulary. Focus on police survival topics - arrest and legal phraseology, anatomy, wounds and fractures, First Aid, missing persons reports, narcotics. Outreach Community resources, tapes and simulated presentations. Does not replace Spanish 101. Student option grading.

SPANSH 101
Elementary Spanish (5)
Fast-paced beginning course in Spanish: listening, speaking, reading and writing. Topics include greetings, family, food and clothing vocabulary and the present tense. Cultural studies include social amenities, proverbs and clothing. The majority of your working hours will be spent at work, which is a microcosm of society with its systems of power and privilege. Learn effective communication strategies to create a supportive work environment and to more easily navigate differences such as culture, race, class, and gender in your workplace.

SPANSH 202
Intermediate Spanish (5)
Conducted in Spanish. Class conducted in Spanish. Continues review of grammar, development of practical vocabulary and discussion of articles/short stories. Weekly conversation groups. Prerequisite: Span 201 or equivalent with instructor’s permission. Student option grading.

SPANSH 201
Intermediate Spanish (5)
Class conducted in Spanish. Major emphasis on increased vocabulary and review of grammatical structures. Development of ability to create imaginative dialogue. Weekly conversation groups. Introduction to the study of literature through articles and short stories. Prerequisite: Span 103 or equivalent with instructor’s permission. Student option grading.

SPANSH 105
Spanish for Health Care Delivery Personnel (5)
Fast paced beginning Spanish course. Students are immersed in learning a practical vocabulary for health care providers working with Spanish speaking patients. Focus on language and cultural information related to health care in Spanish speaking cultures. Not a health care or certified interpreting course. Previous study of Spanish helpful, but not required. Student option grading.

SPANSH 297, 298, 299
Special Project (1,2,3)
Special tutorial projects in specific areas of sociology. Arrangement with instructor. Prerequisite: Instructor permission, based on evaluation of students’ educational and work experience. Mandatory decimal grading.

SPANSH 297, 298, 299
Special Project (1,2,3)
Special tutorial project. Content determined in consultation with instructor. Requires permission of instructor supervising project. Student option grading.

SPEECH COMMUNICATION 100
Communication in Diverse Workplace (3)
The majority of your working hours will be spent at work, which is a microcosm of society with its systems of power and privilege. Learn effective communication strategies to create a supportive work environment and to more easily navigate differences such as culture, race, class, and gender in your workplace.

SPEECH COMMUNICATION 103
Communication Across Differences (5)
Successful participation in increasingly diverse communities requires specific communication strategies. Through personal stories, communication theory and intercultural communication skills, you will explore your relationship to culture, race, class and gender resulting in improved communication across differences. Prerequisites: Successful completion of English 100 required or placement into English 101. Student option grading.

SPEECH COMMUNICATION 105
Interpersonal Communications (5)
Learn about yourself as you learn how you relate to others. Create and maintain rewarding relationships through effective communication. Practice listening, self-presentation, clarification, conflict management and emotional expression skills in order to improve your family, friends, romantic and other relationships. Prerequisites: Successful completion of ESL 100/English 100 or higher. Student option grading.

SPEECH COMMUNICATION 140
The Art of Storytelling (5)
We use stories to enliven a workplace presentation, to fall a child to sleep, to celebrate and grieve, to build communities and discover ourselves. Learn to perform your own personal stories and folktales, poetry and prose of a variety of cultures. Education majors, parents, and adventure-seekers are encouraged.

SPEECH COMMUNICATION 198
Topics in Speech Communication (5)
Aspects of interpersonal communication studied in Speech Communication 101 as they affect interactions in a multi-cultural world. Topics include message-centered and nonverbal communication, factors affecting perception. Individual projects. Student option grading.

SPEECH COMMUNICATION 201
Topics in Speech Communication (1)
Ten-hour workshop on listening for information at work, in class, conversation, meetings. Theory and specific, personalized listening projects. Student option grading.

SPEECH COMMUNICATION 202
Topics in Speech Communication (2)
Listening for information in lectures, conversations, interviews, meetings. Theory and practice of effective listening. Identifying personal listening habits. Setting and attaining specific personal listening goals. Student option grading.

SPEECH COMMUNICATION 203
Topics in Speech Communication (3)
Effective listening - theory and practice. Class and individual diagnosis and corrective assignments. Listening skills to learn, practice, and use in any situation. Student option grading.

SPEECH COMMUNICATION 220
Introduction to Public Speaking (5)
Overcome fear and build confidence in all areas of your life. Learn to influence others by critically listening to and crafting organized persuasive speeches. Conduct responsible research on appropriate topics for your audience, use sound reasoning and strong delivery to achieve effective presentation skills. Prerequisite: Successful completion of ESL 100/English 100 or higher. Student option grading.
SPEECH COMMUNICATION 225
Organizational Communication (5)
Role of communication in organizations: interpersonal skills in listening, using language responsibly, interpreting nonverbal cues sensitively; shared leadership skills for effective groups; negotiation skills for conflict resolution; presentation skills for speeches within and on behalf of organizations. Student option grading.

SPEECH COMMUNICATION 230
Essentials of Argument (5)
Theory and practice of argument as a tool to investigate social problems. Student speeches use and analyze evidence, proof, refutation, persuasion. Student option grading.

SPEECH COMMUNICATION 249
Reader’s Theatre (3)
Ensemble performance of selected readings. Dual listed as Drama 202. Student option grading.

SPEECH COMMUNICATION 285
Special Topics (5)

SPEECH COMMUNICATION 290
Methods of Group Discussion (5)
Study and practice of the uses of discussion in everyday problem-solving situations. Opportunities both to lead and to participate in valuable and exploratory group discussions. Student option grading.

SPEECH COMMUNICATION 297, 298, 299
Special Project (1,2,3)
Directed study toward a special project requiring ten hours to complete. Focus of the study is to be determined and arrangements made with member of the Speech Communication faculty before registering for a special project. Student option grading. Requires instructor’s permission.

SPEECH-LANGUAGE PATHOLOGY 100
Normal Communication Across the Life Span (3)
Students will learn to distinguish between normal and disordered communication. Normal development of communication including speech, language and hearing is presented. Includes fluency and voice disorders, the oral/vocal mechanism, and the neurological system related to speech and language. Student option grading.

SPEECH-LANGUAGE PATHOLOGY 101
Overview of Communication Disorders (3)
This course introduces students to speech, language fluency, and voice disorders. Students will learn to distinguish between normal and disordered communication. This course includes study of the oral and vocal mechanism and the neurological system related to speech and language. Prerequisites: SLP 100, or permission of the instructor. Mandatory decimal grading.

SPEECH-LANGUAGE PATHOLOGY 110
Auditory Discrimination and Phonetics (5)
This course introduces students to the International Phonetic Alphabet. Students learn to distinguish individual speech sounds and transcribe normal and disordered spontaneous speech. Prerequisites: Eng 101. Mandatory decimal grading.

SPEECH-LANGUAGE PATHOLOGY 210
Therapeutic Methods for Articulation (5)
Students will learn techniques to correct speech disorders. Data collection, reporting progress and management of the therapy interaction will be permission. Prerequisite: SLP 101 and ENG 101 or instructor permission. Mandatory decimal grading.

SPEECH-LANGUAGE PATHOLOGY 211
Therapy Procedures: Developmental Language Disorder (5)
Students learn the etiology of developmental language disorders. Students will acquire therapy techniques appropriate for language delays for children at the preschool, elementary and secondary level. Prerequisites: SLP 101, Eng 101 or instructor permission. Mandatory decimal grading.

SPEECH-LANGUAGE PATHOLOGY 212
SLPA’s Role in Acquired Language Disorders (5)
This course explores the SLPA role in rehabilitative communication therapy. Stroke, traumatic brain injury, degenerative neurological conditions and disease can negatively affect communication. Specific therapy techniques appropriate for these acquired language disorders will be explored. Prerequisites: SLP 101, and Eng 101, or permission of the instructor. Mandatory decimal grading.

SPEECH-LANGUAGE PATHOLOGY 213
Behavioral Analysis and Management (5)
Students learn normal and disordered behaviors that are common among individuals with disabilities. Methods of modifying behavior, data collection, charting methods, and ethical issues used in speech pathology activities will be presented. Prerequisites: SLP 101, or permission of the instructor, and Eng 101. Mandatory decimal grading.

SPEECH-LANGUAGE PATHOLOGY 220
Audiology and Therapy for Hearing Loss (3)
This course will provide an overview of the communication and educational impact of a hearing loss in children and adults. Discussion will include audiometric testing and types of hearing loss. Instructional strategies effective with individuals with hearing loss will also be presented. Prerequisites: EDU 125, SLP 101. Registration requires instructor approval. Mandatory decimal grading.

SPEECH-LANGUAGE PATHOLOGY 225
Ethics and Scope of Practice for SLPA (5)
This course explores codes of ethics, laws and regulations governing the SLPA. One focus will be state and federal requirements affecting SLPA students. Students observe SLPs working in various settings. Classroom discussion will include student reports. Prerequisites: Completion of 15 credits in courses required in the SLP Assistant program. Mandatory decimal grading.

SPEECH-LANGUAGE PATHOLOGY 250
Introduction to Assistive Technology (3)
Students will learn to use computer hardware and software that has been adapted for disabled individuals. Technology that allows the disabled to be mobile, to use computers and to communicate will be explored. Prerequisites: SLP 101, SLP 150, or permission of the instructor. Mandatory decimal grading.

SPEECH-LANGUAGE PATHOLOGY 251
Augmentative and Alternate Communication (3)
Students will learn to use low-tech and high-tech communication systems to increase the expressive communication of individuals of all ages with limited or no oral speech. This course includes background theory and hands-on experience with AAC systems. Prerequisites: SLP 101, SLP 150, or permission of the instructor. Mandatory decimal grading.

SPEECH-LANGUAGE PATHOLOGY 266
SLPA Internship Preparation (4)
Students observe speech pathologist working in various settings with a variety of communication disorders individuals. Classroom discussion will focus on reports from student observations covering all aspects of speech pathology activities. Prerequisites: 30 credits in the SLPA AA degree requirements. Mandatory decimal grading.

SPEECH-LANGUAGE PATHOLOGY 267
SLPA Internship in Schools/Clinic (4-7)
This course is the culmination of the SLPA program. Students spend a minimum of 12 hours per week working with a supervising speech-language pathologist. The student will assist with diagnostic and therapeutic activities, with individuals who have a variety of communication disabilities. Prerequisites: Completion of 30 credits in the SLP Assistant program and completion of course “SLP Pre-Internship Preparation.” Instructor approval required. Mandatory P/NC grading.

SPEECH-LANGUAGE PATHOLOGY 268
SLPA Professional Development Seminar (3)
Self-evaluation of skills, job hunting, resume and interview skills will all be addressed in this course. Students will meet with practicing SLPs and SLPAIs and peers completing the training program to discuss professional issues. Prerequisites: To be taken concurrently, or after SLPA Internship in Schools or Clinic. Registration requires instructor approval. Student option grading.
| COURSE DESCRIPTIONS

| STUDY SKILLS 099 | College Study Skills (1) Information and skills related to college study: positive learning attitudes, study environment, learning styles, time management, concentration, memory, vocabulary, textbook reading, listening, note-taking and passing exams. Mandatory P/NC grading. |
| STUDY SKILLS 100 | Academic Success Strategies (5) Students learn techniques for studying successfully in their college classes: how to learn from textbooks, lectures and technology. Strategies of reading, information-gathering, note-taking, writing-to-learn and improving memory are taught. The emotional aspects of learning are also covered. Students will practice these skills in part using materials from other classes they are taking at the same time. Prerequisites: Students need Asset scores of 35 in Reading and 35 in Language Usage or have passed English 080 to take this class. Registration requires the signature of an approved advisor. Student option grading. |

| VISUAL COMMUNICATION TECHNOLOGY 101 | Graphic Design I (5) Concept development procedures in visual communication problem solving involving letter forms, illustrative material, typography and general graphic design. Basic principles of selection, organization, and production techniques are introduced. Dual listed as Art 205. Student option grading. |
| VISUAL COMMUNICATION TECHNOLOGY 102 | Graphic Design II (5) Continued study of concept development procedures in visual communication problem solving including letter forms, illustrative material, typography and general graphic design. Stresses principles of selection, organization, production techniques and introduction to mechanical art requirements. Dual listed as Art 206. Prerequisite: VCT 101, Art 205 or equivalent with instructor’s permission. Student option grading. |
| VISUAL COMMUNICATION TECHNOLOGY 103 | Graphic Design III (5) Procedures in visual communication problem solving; topics are letter forms, illustrative material, market analysis and general graphics. Principles of selection, organization and production are stressed. Course is demanding in both time and quality of product. Dual listed as Art 207. Prerequisite: Art 206 or VCT 102, or instructor permission. Student option grading. |
| VISUAL COMMUNICATION TECHNOLOGY 107 | AB Dick Duplicator (3) Short intensive course with a focus on basic one- and two-color print production using the 360 AB Dick Duplicator. |

| VISUAL COMMUNICATION TECHNOLOGY 108 | Ryobi Offset Duplicator (3) Short intensive course with a focus on basic one- and two-color print production using the Ryobi Offset Duplicator. |
| VISUAL COMMUNICATION TECHNOLOGY 109 | Multilith Press (3) Short intensive course with a focus on basic one- and two-color print production using the 1650 T-Head Multilith Press. |

| VISUAL COMMUNICATION TECHNOLOGY 111 | Offset Printing Procedures I (4) This advanced course gives students an expanded view of digital duplicating and offset printing processes. Close register and multi-colored work is emphasized. Instruction includes screening, trapping, process printing and their applications to the industrial print process. Prerequisites: VCT 111 or equivalent with instructor’s permission. Student option grading. |
| VISUAL COMMUNICATION TECHNOLOGY 112 | Offset Printing Procedures II (4) This advanced course gives students an expanded view of digital duplicating and offset printing processes. Close register and multi-colored work is emphasized. Instruction includes screening, trapping, process printing and their applications to the industrial print process. Prerequisites: VCT 111 or equivalent with instructor’s permission. Student option grading. |

| VISUAL COMMUNICATION TECHNOLOGY 113 | Print Production Industry (5) Technical printing skills approach commercial industry standards in material, time, quality, usage. Students select area of concentration in lithographic camera, electronic pre-press, automated systems, small press, quick copy, negative assembly, large press, or desktop publishing. Management skills of cost estimating, job planning and inventory controls introduced. Students complete projects with minimal supervision. Prerequisite: VCT 112, or equivalent with instructor’s permission. Student option grading. |

| VISUAL COMMUNICATION TECHNOLOGY 114 | Electronic Prepress and Production Art I (4) Introduction to studio lighting with emphasis on the medium, large format cameras. Introduction to the use of color as intricate element of design and interpretive presentation. Students import form scanner for digital image creation as creative control. Assignments visual and technical in nature. Some cameras available for check-out. Students must purchase film and supplies. Prerequisite: Art 102 or equivalent and instructor permission. Student option grading. |
| VISUAL COMMUNICATION TECHNOLOGY 115 | Electronic Prepress and Production Art II (4) Short intensive course with a focus on basic one- and two-color print production using the 360 AB Dick Duplicator. |

| VISUAL COMMUNICATION TECHNOLOGY 116 | On Demand Print IV (4) Students learn production techniques for On Demand digital printers. File and copy acquisition and preparation are stressed. Students use digital software to manipulate, enhance, and output digital files. Terminologies for pre-press, paper, and finishing are emphasized. Prerequisites: Concurrent enrollment in VCT 124 or CIS 105. Student option grading. |

| VISUAL COMMUNICATION TECHNOLOGY 117 | Studio/Color/Electronic Imaging (3) Introduction to studio lighting with emphasis on the medium, large format cameras. Introduction to the use of color as intricate element of design and interpretive presentation. Students import form scanner for digital image creation as creative control. Assignments visual and technical in nature. Some cameras available for check-out. Students must purchase film and supplies. Prerequisite: Art 102 or equivalent and instructor permission. Student option grading. |

| VISUAL COMMUNICATION TECHNOLOGY 118 | Commercial Photography (3) Application of photographic techniques to solve problems in visual presentations. Advertising, commercial and industrial still photography. Chemistry provided. Students must purchase film, paper, and supplies. Dual listed as VCT 120. Prerequisite: Art 102 or equivalent with instructor permission. Student option grading. |

| VISUAL COMMUNICATION TECHNOLOGY 119 | Production Art I (4) Introduces the execution of mechanical camera-ready artwork in traditional and desktop publishing pasteup, as well as the printer’s concern for camera-ready multi-color artwork. Students complete projects using dry transfers, acetate positives, photo blockout materials and electronically produced camera ready artwork. Student option grading. |

| VISUAL COMMUNICATION TECHNOLOGY 120 | Production Art II (4) Students prepare camera-ready art and digital files for print. Multiple-page, multiple-signature formats are used for digital and mechanical copy. The course also addresses customer relations, time management, materials selection, workflow, file preparation, and print coordination. Prerequisites: Completion of VCT 101, VCT 111, VCT 129, VCT 131 and instructor signature or instructor permission with portfolio review. |

| VISUAL COMMUNICATION TECHNOLOGY 121 | Electronic Prepress and Production Art III (4) Students learn digital file preparation for On Demand and Offset printing. The course covers prepress, post-print bindery and finishing as well as skills for refining of trapping, imposition, and pagination. Troubleshooting file formats for digital output and workflow management is addressed. Prerequisites: VCT 122 and instructor signature or instructor permission with portfolio review. |

| VISUAL COMMUNICATION TECHNOLOGY 122 | Electronic Prepress and Production Art IV (4) Basic Macintosh Systems Operations (2) Introductory course in the fundamental operations and uses of the Macintosh computer, operating systems, file formats as related to visual communications design and production. Student option grading. |
This course introduces students to interactive screen design with an emphasis on user interface design for multi-dimensional “New Media” such as CD, DVD, VHS tape and web. Students gain experience with technologies and software while focusing on visual communications concepts and project development.

Prerequisite: VCT 124/125, Art 115, VCT 129 or portfolio review. Instructor permission required. Mandatory or student option grading.

**VISUAL COMMUNICATION TECHNOLOGY 139**  
**Interface Design for New Media (3)**

This course introduces students to interactive screen design with an emphasis on user interface design for multi-dimensional “New Media” such as CD, DVD, VHS tape and web. Students gain experience with technologies and software while focusing on visual communications concepts and project development.

Prerequisite: VCT 124/125, Art 115, VCT 129 or portfolio review. Instructor permission required. Mandatory or student option grading.

**VISUAL COMMUNICATION TECHNOLOGY 140**  
**Interactive Design for New Media (3)**

This course focuses on interactive design functions used in multi-dimensional New Media. With current technologies and software, students use interface design to create a series of user responsive/interactive applications applicable for a variety of output options: CD, DVD, VHS tape and web. Prerequisite: VCT 129, VCT 139 or portfolio review. Instructor permission required. Mandatory or student option grading.

**VISUAL COMMUNICATION TECHNOLOGY 141**  
**Learning Based New Media Design (4)**

This course focuses on developing New Media for teaching and learning. Emphasis is on using instructional design theory to create multi-dimensional/level user driven media. Students have the opportunity to build structured teaching and learning projects for a variety of media such as CD, DVD, VHS tape and web. Prerequisite: VCT 207 or portfolio review. Instructor permission required. Mandatory or student option grading.
VISUAL COMMUNICATION

TECHNOLOGY 211
Offset Printing Procedures IV (4)
This course simulates the work experience of a commercial printing concern. Students work independent of the instructional staff on routine skill accomplishments. Production skills and cost estimation skills are strengthened to industrial standards. Completion of tasks are practiced by student interns under limited supervision. Course may be repeated three times. Prerequisite: VCT 112 or equivalent with instructor’s permission. Student option grading.

VISUAL COMMUNICATION

TECHNOLOGY 212
Internship in Visual Communications (5)
Students apply skills in a commercial work environment. Interpersonal communication skills, cost awareness, time management and quality assurance are seminar topics. Specialization in graphic design, production art, typography, prepress, web and offset printing. Site approval must be obtained by student. Course may be repeated for credit. Variable credit (2-5 cr.). Prerequisite: See instructor for registration. Additional hours to be arranged. Student option grading.

VISUAL COMMUNICATION

TECHNOLOGY 213
Offset/Graphic Production Portfolio (4)
Offset printing and prepress production students are instructed in job search skills, resume preparation, personal presentation and interview techniques. Portfolio presentation includes student sample work, a resume and a business cabinet. Work is displayed in both realia and slide format. Prerequisite: VCT 112. Student option grading.

VISUAL COMMUNICATION

TECHNOLOGY 222
Portfolio and Resume Preparation (4)
The advanced VCT student will design, develop and produce a portfolio which represents developed skills and abilities using media appropriate to the developer’s areas of expertise. The student will design, develop and produce a comprehensive resume for presentation. This course may be repeated for credit. Prerequisites: Completion of VCT foundation curriculum and area of specialization. Ability to design and develop a portfolio in appropriate format for area of specialization. Instructor permission required. Mandatory decimal grading.

VISUAL COMMUNICATION

TECHNOLOGY 229
Advanced Photoshop (3)
Continuation of VCT 129. Complex image construction using Photoshop. Advanced production techniques used to create images for use in multimedia, print media and web design. Prerequisite: VCT 129 or equivalent with instructor permission. Student option grading.

VISUAL COMMUNICATION

TECHNOLOGY 264
Desktop Video Production I (3)
Introduction to nonlinear video editing. Students learn to edit digital video, add text and graphics to video, perform color keying, add animation and edit audio. Complete projects will be exported to tape, CD, DVD or the web. Prerequisite: VCT 124/125, VCT 129, instructor permission. Student option grading.

VISUAL COMMUNICATION

TECHNOLOGY 265
Desktop Video Production II (3)
Students plan and develop strategies for composite video and still images to create animations, mattes, and add special effects to video using a variety of techniques. Students acquire skills to incorporate audio and output using appropriate compression software for multiple applications such as CD, DVD, Video Tape and Streaming Web Media. Prerequisite: Completion of VCT 264 and permission of instructor.

VISUAL COMMUNICATION

TECHNOLOGY 266
Video Editing and Post-Production (5)
Learn how to edit video/film. Study the techniques, history and theory of video/film editing using Avid XpressDV, a professional non-linear edit system. Create projects in a variety of styles including narrative and documentary. New emerging technologies are also discussed. Student option grading. Dual listed as CMU 266.

VISUAL COMMUNICATION

TECHNOLOGY 267
Advanced Video Editing and Post Production (5)
Interested in professional video editing? In this class, study advanced video editing post-production using professional software such as Avid XpressDV to create various longer video projects including narrative, documentary and experimental styles. Emerging technologies are discussed. Prerequisites: CMU/VCT 266 Video Editing and Post-Production. Student option grading. Dual listed as CMU 267.

VISUAL COMMUNICATION

TECHNOLOGY 281, 282, 283
Special Topics (1,2,3)

VISUAL COMMUNICATION

TECHNOLOGY 297, 298, 299
Special Project (1,2,3)
Choose and have approved project requiring 30 hours to complete 1 credit. Permission of instructor required. Student option grading.

WOMEN’S STUDIES

181, 182, 183, 184
Special Topics (1,2,3,4)

WOMEN’S STUDIES 282
Gender, Violence and Social Change (5)
Study of current research and issues on the social, psychological, legal and political implications of gendered abuse, and instances when women are the majority of victims. Areas of study include child abuse, rape, domestic violence, and sexual harassment. Dual listed as Women 282. Formerly Women and Abuse. Prerequisites: Recommended English 101. Student option grading.

WOMEN’S STUDIES 283
Women of Power (5)
Students will study the relationship between women and power. Topics include barriers to acquiring power, strategies for obtaining power, and uses of power. Students will research several powerful women. Emphasis is on class discussion and collaboration. Open to women and men. Dual listed as IASTU 283. Prerequisites: Recommend ENG 101. Student option grading.

WOMEN’S STUDIES 284
Gender, Race and Class (5)
This course explores the ways in which one’s gender, race, class and sexual orientation affect access to, participation in, and treatment by a variety of social institutions. We study the legal system, education, and the media as well as actions to confront systems of oppression in the U.S. Dual listed as IASTU 284. Student option grading.

WOMEN’S STUDIES 285
Special Topics (5)

WOMEN’S STUDIES 297, 298, 299
Special Project (1,2,3)
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<table>
<thead>
<tr>
<th>Name</th>
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<th>Degree/Field</th>
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Faculty by Discipline

ADULT BASIC EDUCATION/GED/ESL
Vincent G. Barnes
Donna L. Buoy
Ruthann B. Duffy
Elizabeth R. Hanson
Kristin M. Marra
Bruce R. McCutcheon
Joanna McEntire
Daina M. Smudrins
Lauren G. Wilson

ACCOUNTING
Carla A. Hogan
Daniel F. King

AMERICAN SIGN LANGUAGE
See “World Languages”

ANTHROPOLOGY
Sonja O. Solland
Lewis H. Tarrant

ART/ART HISTORY
Bruce A. Amstutz
Richard E. Davis
Christine M. Shafner
Christopher J. Simons

ASTRONOMY/PHYSICS
Stephanie J. Diemel
Arthur K. West

AUTOMOTIVE TECHNOLOGY
Robert W. Biesiedzinski
Kenneth D. Campbell
Scott A. Main
Jack W. Shiel

BIOLOGICAL SCIENCES/BIOTECHNOLOGY
Caralee Cheney
Stephen C. Goertz
Thomas “Guy” Hamilton
Matthew T. Loper
Molly R. Morse
Judy Meier Penn
Kira L. Wensmstrom

BUSINESS ADMINISTRATION
Stephen J. McCloskey
Laura B. Portoles Dias
Sally A. Rollman
David A. Starr

BUSINESS TECHNOLOGY
Marcia A. Laiw
Sally A. Rollman
Karen A. Toreson

CHEMISTRY/CHEMICAL TECHNOLOGY
ENVIRONMENTAL SCIENCE
Karen J. Kreutzer
Linda L. Kuehnert
David E. Phippen
Amar Yahiaoui

COMPUTER INFORMATION SYSTEMS
Paul M. Duenberger
Susan E. Kolwitz
Russell D. Rosco
Robert C. Shields
Phyllis T. Topham
Karen A. Toreson

COMPUTER SCIENCE
See “Mathematics”

COSMETOLOGY
Alpha Clinton, Jr.
Deborah L. Mayhew

COUNSELING/HUMAN DEVELOPMENT
Nancy C. Field
Linda Sue Nelson
Martin P. Olsen
Matthew J. Orlando
Diana L. Sampson
Jean E. Strieck
Alicia K. Zweifel

CRIMINAL JUSTICE
Linda S. Forst
Leon O. Libby
Lewis H. Tarrant

DENTAL HYGIENE
Marianne Baker
Ona U. Canfield
Carolyn K. Christensen
Susan M. Dougall
P. Nikki Honey

DRAMA/VIDEO/TV/CINEMA
Lawrence C. Cheng
Tony Despe
Chris S. Fisher
Jane Y. Winslow

ECONOMICS
Robert M. Francis
Timothy K. Payne

EDUCATION AND HUMAN SERVICES
Betty Peace-Gladstone
Taslee T. Quasim

ENGINEERING/ENGINEERING TECHNOLOGY
Eleanor G. Christensen
Daniel H. Hielt

ENGLISH/DEVELOPMENTAL ENGLISH/COMMUNICATIONS
Du-Valle M. Daniel
Pamela A. Dusenberry
Shalin Hai-Jew
Edward W. Harkness
Gary “Dutch” Hentz
Katherine M. Hunt
Jeanette Iduart
Davis Oldham
Gary A. Parks
Grace A. Rhodes
T. Sean Rody
Neal K. Vashieth
Troy T. Wolff

ENVIRONMENTAL SCIENCE
See “Biological Sciences”

GEODESY
Charles “Chip” Dodd

GEOLGY
Emanuela A. Baez

HISTORY
See “Political Science”

HEALTH CARE INFORMATION
Gloria B. Anderson
Donna J. Wilde

HUMANITIES
Katherine M. Hunt

INTERNATIONAL STUDIES
See “Political Science”

INTRA-AMERICAN STUDIES/MULTICULTURAL STUDIES/WOMEN’S STUDIES
Elizabeth F. Barnett
Rachel David
Ernest B. Johnson
Kenneth D. Lafortaine

LIBRARY/MEDIA SERVICES
Elena A. Bianco
Lawrence C. Cheng
Thomas J. Moran
Leslie J. Potter-Henderson
Owen M. Rogers

MATHEMATICS/DEVELOPMENTAL MATHEMATICS/COMPUTER SCIENCE
Steven M. Bogart
Shana P. Calaway
Kathryn S. Christensen
Scott M. Fallstrom
Shannon L. Flynn
Helen M. Hancock
Wendy S. Hurley
John K. Knudson
Frederic C. Kuczynski
Sarah A. Leyden
Lauren Sandven
Nirmala S. Savage

MEDICAL LABORATORY TECHNOLOGY
Mayumi Steinmetz

MUSIC/MUSIC TECHNOLOGY
Robert F. Bigley
Susan K. Delacky
Barry K. Ethelich
Matthew A. Fordham
Jeffrey K. Junkinsmith
Stephan P. Malott
Nancy L. Mathey
Bruce D. Spitz

NURSING
Kim Baily
Linda D. Barnes
Suzanne H. Christensen
Bette S. Pernan
Georgia S. Pierce
Irene E. Riddell
Charles H. Sandige
Anna E. Shanks
Sharon J. Stewart
Hermien B. Watkins

PHYSICS
See “Astronomy”

POLITICAL SCIENCE/INTERNATIONAL STUDIES/HISTORY/EAST ASIA
Robert M. Francis
Amy J. Kinsel
Kenneth G. Lawson
Timothy K. Payne
Mayumi Steinmetz
Terry L. Taylor

PSYCHOLOGY
Donald S. Christensen
Diana E. Knauf
Peter D. Sparks
Robert B. Thompson

SOCIETY
Lawrence A. Clarke

SPEECH COMMUNICATION
Kathleen T. Lynch
Brooke G. Zimmers

SPEECH LANGUAGE PATHOLOGY ASSISTANT
Susan E. Sparks

VISUAL COMMUNICATION TECHNOLOGY
Bruce A. Amstutz
Richard E. Davis
James R. Reddin
Christine M. Shafner

WOMEN’S STUDIES
See “Intra-American Studies”

WORLD LANGUAGES/AMERICAN SIGN LANGUAGE
Amelia D. Acosta
Richard A. Jacobs
Mayumi Steinmetz
Location of Shoreline Community College main campus

Location of Shoreline Community College Lake Forest Park Campus

For detailed bus route information, please call (206) 553-3000 or go to http://transit.metrokc.gov/bus/bus.htm

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