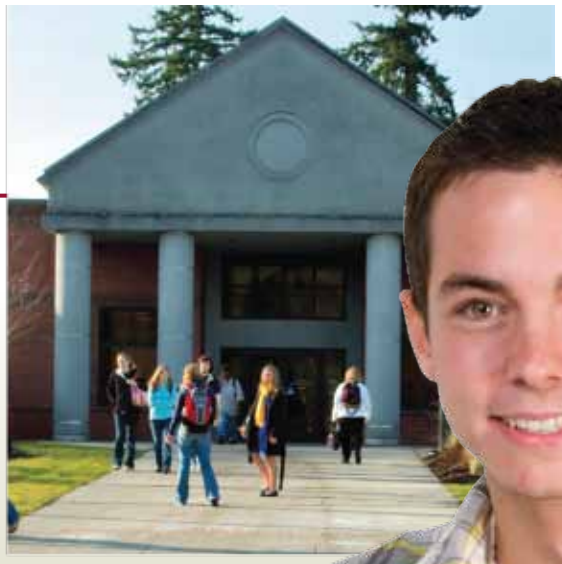
CATALOG

2011
2012

PIERCE COLLEGE

possibilities. **realized.**



- *Professional/Technical Careers*
- *University Transfer*
- *Adult Education*

CREATING OPPORTUNITIES
WASHINGTON COMMUNITY AND TECHNICAL COLLEGES

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Upon request, this publication will be made available in alternate formats.

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EFFECTIVE DATE OF CATALOG INFORMATION

The information in this catalog is effective as of fall quarter 2011. Every effort is made to ensure the accuracy of the information at the time of publication. However, the college reserves the option to amend, revise, or modify any provision of this catalog and to change, add, or withdraw courses or programs without prior notification. Because of the possible necessity for changes, the provisions in this catalog should not be regarded as an irrevocable contract between the student and Pierce College.

LANDSCAPES OF POSSIBILITY

Chancellor's Message

The Colleges

Educational Choices

Educational Philosophy

Accreditation

Pierce College Foundation

District Mission

Chancellor's Message

Welcome to Pierce College, and congratulations on your decision to continue your education. Everyone here is dedicated to supporting you along your path of success. We're proud of the many accomplishments, achievements and awards earned each year by Pierce students, faculty and staff

I encourage you to look through this catalog and find the programs, activities and other opportunities that interest you. The possibilities are limitless. Then, have a conversation with one of our advisors or make an appointment with a faculty member in the area that interests you. Remember, there are a variety of financial aid and scholarship funds available at Pierce College for those who qualify. Our goal is to help you succeed. Let us know what you need.

We are a learner-focused institution that puts students at the center of all we do. We strive to create an environment that nurtures a variety of learning styles with small class sizes and individual attention. In fact, when we have asked students why they chose Pierce College, the most common answer is they have heard about the quality of our environment from friends or relatives who either are, or have been students here. Our goal is to provide you with a first-rate experience, one that is recognized by so many people who have attended Pierce College.

Each year nearly 30,000 people choose Pierce College to earn the first two years of a transfer degree, learn or upgrade job skills, improve in English, math or life skills, or pursue the self-enrichment that comes with being a life-long learner. We have a group of nearly 1,200 full- and part-time faculty and staff who are focused on helping you gain skills and knowledge. Pierce College helps you realize the possibilities within you.

Thank you for your interest in Pierce College. We're excited by the opportunity to serve you. We look forward to partnering with you to achieve your personal and professional goals.

Michele L. Johnson, Ph.D.
Chancellor

The Pierce College District has a strong reputation for helping students realize their possibilities. The community recognizes Pierce for its national reputation for academic excellence and for support services designed to ensure student success. At Pierce College, among dedicated faculty and with programs that rival those found at four-year universities and technical colleges, students are free to explore the possibilities that a community-based, real-world education offers. As part of the 34 community and technical colleges across the state, students can rely on Pierce for low tuition, accessible classes and endless possibilities.

The Colleges

More than forty years ago, Pierce College began creating life-changing possibilities for students out of a makeshift building in Lakewood. Today, the college district encompasses two main campuses in Lakewood and Puyallup, education centers at Joint Base Lewis-McChord, virtual education through its growing distance learning program and extensive continuing education opportunities, as well as additional programs at sites throughout Pierce County.

The visionary spirit behind these 40 years of growth and change continues to thrive as the colleges evolve. Inside, students are exploring new possibilities every day. They are learning new skills, developing new interests and cultivating new relationships. Meanwhile, outside, new buildings are taking shape, creating even greater possibilities for generations to come.

PIERCE COLLEGE FORT STEILACOOM

At Pierce College Fort Steilacoom, learning takes place on a serene, 140-acre campus replete with its own lake, hiking trails and views of Mount Rainier. Unique educational facilities include an International House with global conferencing and a digital design lab. The Olympic Building's north wing houses state-of-the-art computer labs and is a wonderful place for students to study, reflect and socialize. The college is also home to the Milgard Child Development Center, where infants and children are nurtured in a compassionate, family-like atmosphere, and the Health Education Center, a fully-equipped recreation and fitness facility. The campus is home to the Pierce College Raiders volleyball and basketball teams.

PIERCE COLLEGE PUYALLUP

Comprehensive programs are also available at Pierce College Puyallup, which occupies a beautifully wooded 85-acre site on Puyallup's South Hill, commanding a spectacular view of Mount Rainier. The campus features a large, modern library and science building, state-of-the-art laboratories and spacious classrooms. The College Center includes interior commons, a dining area with cafeteria, game and sports equipment, and high-tech computer labs. Also on campus is the Garnero Child Development Center, a family-centered facility aimed at developing whole-child health and wellness, and the Health Education Center, featuring a full-service fitness and recreation facility.

PIERCE COLLEGE EXTENDED LEARNING

Through Extended Learning, the Pierce College District offers continuing education courses; customized educational programs at Joint Base Lewis-McChord; a growing eLearning program; and a variety of adult basic education programs at sites throughout the county.

TOMORROW AND BEYOND

Both colleges are expanding to provide an even richer educational experience with greater flexibility and convenience.

CASCADE CORE RENOVATION

The extensive renovation at Pierce College Fort Steilacoom's Cascade building is a multi-year project that is transforming the 30-year-old building into a contemporary environment for student learning and success. Highlights of this renovation include the Black Box theatre with innovative lighting and sound systems, a more expansive library, and the Welcome Center.

RAINIER SCIENCE AND TECHNOLOGY BUILDING

In 2009, Pierce College Fort Steilacoom debuted a truly unique science and technology facility. Composed of three pods connected by an atrium replete with gardens, the facility provides quality instructional spaces for math and science programs.

ARTS AND ALLIED HEALTH BUILDING

In 2010, Pierce College Puyallup opened its Arts and Allied Health building for its nursing and arts offerings. The innovative building includes a theater, art gallery, recording studio, nursing skills lab, graphics lab and tiered lecture hall.

Educational Choices

University Transfer

Students planning to work toward a bachelor's degree or beyond can save money by attending Pierce College for two years before-transferring to a university with junior standing. Because class sizes are small at Pierce, students receive the personalized attention they need to be successful. In fact, research shows that transfer students from Pierce do as well at the University of Washington and Western Washington University as students who begin their careers at the four-year schools.

UNIVERSITY DIRECT TRANSFER DEGREES

Direct Transfer Degrees (DTAs) ensure that students who complete these degrees will have satisfied the lower division general education/core requirements and lower division degree-related requirements for the baccalaureate institutions.

• ASSOCIATE OF ARTS (AA-DTA)

A general liberal arts transfer degree. An AA — Option B is available for transfer to a specific school's four-year program.

• DIRECT TRANSFER DEGREES

University transfer degrees are available in biology, business, construction management, pre-nursing, elementary education, and in education areas of biology, chemistry, earth and space science, general science, math and physics.

UNIVERSITY TRANSFER DEGREES

• ASSOCIATE OF SCIENCE (AS-T)

A degree for transfer to a four-year science program. Two options are available depending on the student's field of interest:

AS-T Track 1 for science pre-majors in biological and environmental resource sciences, geology and earth science, and chemistry

AS-T Track 2 for science pre-majors in engineering, computer science, physics and atmospheric sciences

Professional/Technical Degrees and Certificates

Pierce College's professional/technical degrees and certificates are designed to provide students with the technical and related skills needed for successful employment. The degrees and certificates emphasize practical, work-related skills that translate to effectiveness and expertise in the workplace.

What's more, these degrees are hot — and getting hotter. Some of the projected fastest-growing fields include dental hygiene, nursing and digital design.

Moreover, some of Pierce's professional/technical programs have university transfer tracks, so if a student decides to continue their education later, they can pick up where they left off.

For specific transfer, professional/techinical degree and certificate requirements, please see "Degree and Certificate Requirements" in the PROGRAMS OF STUDY section of this catalog.

Extended Learning Options

Education comes in many forms through Pierce College Extended Learning. Beyond the college's strong university transfer and professional/technical certificate programs at Fort Steilacoom, Puyallup and Joint Base Lewis-McChord, Pierce offers much more through its Extended Learning. Both face-to-face and at a distance, Pierce College Extended Learning offers workforce education, basic skills, academic development and continuing education in response to the needs of the community.

Extended Learning provides customized educational services for the military, social and health services, and international students in several locations within Pierce County. Please visit the program website at www.pierce.ctc.edu/extended for additional information about any of the following programs.

CONTINUING EDUCATION

Continuing Education offers a wide variety of student-supported classes to meet the diverse needs of the population served by Pierce College. Students can learn valuable skills that can help them advance at work, discover a new talent or hobby, or add to their enjoyment of a life-long passion. Pierce offers day, evening and weekend classes at a variety of locations across Pierce County. Programs include:

- Art and music
- Home and garden
- Online learning
- Oregon Shakespeare Festival
- Personal finance
- Professional development
- Dental hygiene
- Family life and youth
- Field study courses
- Health and fitness
- Advanced medical coding
- Career training
- Communication and writing
- Computer training
- Dance
- Small business development
- World languages/sign language
- World travel

A schedule of classes is published five times a year. To receive a quarterly bulletin, call (253) 964-6600 or go online at www.pierceCEquestions@pierce.ctc.edu.

CUSTOMIZED CONTRACTED TRAINING

Throughout the year, Continuing Education provides specialized programs to area businesses, agencies and schools that have specific training needs for their employees. Training schedules are flexible, instructors are experts in their fields, and content is customized for individual companies. Cost is affordable, and there are state-funded grant programs available for qualifying organizations. Areas of training include team building, lean quality systems, leadership/coaching skills, communication and language, health and safety, quality control, management and supervision, and customer sales and service. For more information about customized training options, call (253) 840-8451 or visit the business and industry website at www.trainwithpierce.com.

eLEARNING

For students with tight schedules and outside commitments of work and family, eLearning courses are a convenient option. These courses are affordable, transcripted and transferable, just like on-campus courses. They are real courses, not simplified versions of their campus counterparts. In fact, they take more work because students must overcome the challenge of replacing classroom experiences and conversing with instructors. Courses use a variety of media ranging from audio and DVD materials to Internet tools like Web pages, e-mail and fully online courseware that runs in a Web browser, like Angel. Students can complete a general AA-DTA degree fully online! Pierce eLearning also has a growing list of hybrid courses, which combine reduced classroom hours with online learning. They are denoted in the eSchedule with an "(H)" after the item number. Many faculty use Pierce's online courseware to supplement their regular campus-based courses, those are called "Web-Enhanced" (WE). To find out more about Pierce's eLearning options, go to www.pierce.ctc.edu/el, or see "eLearning" in the Academic Information section of this catalog.

INTERNATIONAL EDUCATION

International Education provides student services to international students at Fort Steilacoom and Puyallup and fosters international and multicultural educational experiences for all students and community members in the district.

International student services include admissions and retention services, with special reference to federal regulations. The department also provides a college-prep Intensive English Program in four levels. Cultural and social activities, such as the International Club and Conversation Partners, and other programs are also offered.

For details on how to get started as an international student at Pierce College, see "International Students" in the Getting Started section of this catalog or visit www.pierce.ctc.edu/international.

STUDY ABROAD

Pierce College provides study abroad experiences in different locations around the world. Students interested in study abroad opportunities, can contact the International Education office at (253) 964-6725 or go to www.pierce.ctc.edu/international/studyabroad/ for the most current locations.

MILITARY EDUCATION

Pierce College provides educational programs at Joint Base Lewis-McChord. These campuses serve the needs of active-duty military personnel, their family members, VA benefit recipients and civilians in the community. Five accelerated eight-week terms are offered per year, which differ from the quarterly schedule of Pierce College Fort Steilacoom and Puyallup. Classes are held in the evening, at lunch time, morning, afternoon, on Saturdays and online. Online classes are 10 weeks. Advisors are available to help with educational planning.

SERVICEMEMBERS OPPORTUNITY COLLEGES (SOC)

Pierce College is an institutional member of Servicemembers Opportunity Colleges (SOC), a consortium of more than 1,800 colleges and universities providing voluntary postsecondary education to members of the military throughout the world.

As a member of SOC, Pierce recognizes the unique nature of the military lifestyle and has committed itself to easing the transfer of relevant course credits, providing flexible academic residency requirements and crediting learning from appropriate military training and experiences.

In addition to its SOC membership, Pierce is one of approximately 165 select institutions providing flexible SOC programs on more than 150 Army and Air Force installations worldwide. These programs lead to associate degrees, some of which correspond to enlisted and warrant officer job specialties. See "Earning Credits" in the Academic Information section of this catalog for more information.

GoArmyEd
Pierce College participates as an education partner with the Army Continuing Education System (ACES) in GoArmyEd. The GoArmyEd portal serves as a virtual gateway for soldiers on active duty to request tuition assistance online, anytime, anywhere, for classroom, distance learning and eArmyU college courses. The portal provides access to both college and army advisors, as well as a variety of degrees and term schedules. For more information, visit the Pierce College GoArmyEd online site at www.pierce.ctc.edu/military.

eArmyU™
Pierce College is one of more than 50 institutions of higher education offering online college-level courses to U.S. Army personnel throughout the world via eArmyU™, the U.S. Army's largest e-learning virtual university program. Two degrees are offered — an Associate in Technology General and an Associate of Arts. A new term starts on the 13th of every month to accommodate busy military schedules. For more information, visit the Pierce College eArmyU™ online site at www.pierce.ctc.edu/military.

For more information on Pierce College's military program, contact

www.pierce.ctc.edu/military • 1-877-632-7698

Pierce College at Fort Lewis
E-mail: ftlewis@pierce.ctc.edu • (253) 964-6564/6567

Pierce College at McChord
E-mail: mcchord@pierce.ctc.edu • (253) 964-6606/6709

TRANSITIONAL EDUCATION

Pierce College offers a variety of courses assisting students to transition from high school to college, college to work, and work to college. Emphasis is placed on developing the skills necessary to be successful students, workers and citizens. Courses are offered on and off campus throughout Pierce County and include:

- Pre-college and college-level courses in reading, English, math, study skills and student success.
- Adult Basic Education: Adults can improve their skills in a variety of areas in order to enter professional/technical training, advance in a current job, become more employable or continue into college programs. Key courses include English as a Second Language, Adult Basic Education, GED test preparation, and high school completion.

Call (253) 864-3181 for more information.

WORKFORCE EDUCATION

Workforce Education supports the entry and re-entry of students and members of the Pierce County community into the workplace. Pierce College provides financial assistance to students through a variety of programs. Pierce also develops and funds educational and training programs that meet the needs of local employers. Workforce Education programs bridge the skills gap, helping people find fulfilling careers to support themselves and their families, while helping build the local economy. For more information, visit www.pierce.ctc.edu/dist/workforce/, call (253) 964-6645 or visit the advising center at Pierce College Fort Steilacoom or Puyallup. Below is a summary of key programs:

PROFESSIONAL/TECHNICAL TRAINING PROGRAMS
Students can select from a wide variety of short- and long-term training programs designed for employment preparation. Faculty advisors work in coordination with the workforce education staff to provide support services and referrals. See the Academic Information section of this catalog for a list of current training programs.

WORKER RETRAINING
Unemployed and dislocated workers may receive assistance to complete job training. Call (253) 964-6265 or visit www.pierce.ctc.edu/dist/workforce/retraining for details.

WORKFIRST/WORK-STUDY
Parents receiving DSHS/WorkFirst cash assistance may receive assistance to complete job training. WorkFirst participants may fulfill their work requirements through WorkFirst Work Study while attending school. Call (253) 964-6265 or visit www.pierce.ctc.edu/dist/workforce/workfirst for details.

TRANSITION AND SUPPORT SERVICES
Career-related programs and advising are available for students transitioning toward the workplace (dislocated workers, non-traditional career seekers, professional/technical and undecided students).

PierceWorks!: This Worker Retraining program includes 100+ hours of in-class job search skills and assessment work and 60 hours of computer training. Twenty credits are awarded for completion. Call (253) 840-8428 for more information.

JOB CONNECTIONS/WORKSOURCE AFFILIATE
Students can explore career options and make connections with a variety of employment-related services and opportunities. Pierce College is a partner in a statewide system that provides access to countywide employment information and services. Job Connections maintains a job board and job seekers can use MyInterfase, a free job-matching service linking registered users to a database of approved internship, work study, and job opportunities in the region. Call (253) 964-6265 or visit pierce.ctc.edu/dist/workforce/connections for details.

DSHS PROGRAMS

Pierce College provides educational programs and/or staff development training for Rainier School, the Special Commitment Center at McNeil Island, and Western State Hospital. These programs are provided under a contract with the Washington State Department of Social and Health Services.

RAINIER SCHOOL
Pierce College offers courses on how to provide opportunities for people with developmental disabilities to learn daily living skills. Information is available at Rainier School, (360) 829-1111, ext. 4335.

SPECIAL COMMITMENT CENTER
Pierce College offers educational services to residents of the Special Commitment Center at McNeil Island to support their efforts in participating in treatment and reintegration into the community. A resident may also complete a high school diploma, prepare for the GED and/or take vocational courses. Contact the Special Commitment Center education department for more information, (253) 588-5281, ext.1957.

WESTERN STATE HOSPITAL
Basic Skills instruction is offered to patients on most wards at Western State Hospital. A patient who resides at the hospital may also take coursework towards completion of a high school diploma, prepare for the GED, take computer literacy classes, prepare for a future vocation and improve other community re-entry skills. More information about this program may be obtained by calling (253) 756-2767.

Educational Philosophy

It is the goal of Pierce College to prepare students to live and work in a dynamically changing world by emphasizing whole-student development and hands-on learning. Through experiences both in and out of the classroom, students are given the opportunity to broaden their horizons and be challenged in ways that encourage the development of the five core abilities vital to succeeding in life.

THE FIVE CORE ABILITIES

CRITICAL, CREATIVE AND REFLECTIVE THINKING
If I work for a pharmaceutical company as a chemist, I must be able to analyze the process and precisely document the results of an experiment for my work to be useful.

EFFECTIVE COMMUNICATION
If I am working in a community health clinic, I must clearly and thoughtfully explain to a patient why I am suggesting a particular treatment plan so the patient will understand the procedures to follow and know how to carry out the plan.

INFORMATION COMPETENCY
If I am working for an international trade company, I must know how to locate, evaluate, organize and explain information from a variety of sources to make thorough and accurate business decisions.

MULTICULTURALISM
If I am working with a group of children, I need to understand the social needs of people from different cultural backgrounds or with special needs so I can help each child develop group skills and a good sense of self-esteem.

RESPONSIBILITY
If I am working in a veterinary clinic, I may know how to skillfully vaccinate animals, but if I ignore vaccination guidelines on a regular basis, I may be putting the animals, and the community, at risk.

Accreditation

Pierce College District is accredited by the Northwest Commission on Colleges and Universities, 8060 165th Avenue N.E., Redmond, WA 98052, an institutional body recognized by the Council for Higher Education Accreditation and the U.S. Department of Education.

The District's accreditation was most recently affirmed in 2010.

Pierce College Foundation

The Pierce College Foundation's mission is to acquire private funding for the district, to provide enhancements to college programs, to improve access for students and to promote the colleges to the community. The generosity of donors makes a difference every day in the lives of students throughout the Pierce College District. For more information about the Foundation, or to make a donation, please call (253) 864-3262 or visit the Foundation website at www.pierce.ctc.edu/foundation.

PIERCE COLLEGE FOUNDATION
possibilities. created.

District Vision, Mission, Core Values and Institutional Outcomes

VISION

Possibilities realized: Innovative and engaged learners enriching our local and global communities.

MISSION

Pierce College creates quality educational opportunities for a diverse community of learners to thrive in an evolving world.

CORE VALUES

* Learning
* Integrity
* Respect
* Accountability
* Sustainability

INSTITUTIONAL OUTCOMES

Access

At Pierce College District, students will have access to comprehensive and affordable educational offerings and services.

Student Learning and Success

Pierce College District students will experience quality, relevant learning that increases their knowledge, skills and abilities to maximize the potential for individual success whether transferring to a four-year institution or preparing directly for the workforce.

Excellence

Pierce College District will ensure quality, sustainability and continuous improvement in all of its departments and programs.

College Environment

Pierce College District will promote an environment in which quality teaching and learning are fostered, decision-making is collaborative, and students and employees feel valued and respected.

Contribution to the Community

Pierce College District will be a recognized leader in building and maintaining academic, industry and broad-based community partnerships to advance local educational opportunities and economic development.

GETTING STARTED

Academic Calendar

Admissions

Financial Aid

Assessment

Advising

Student Orientation

Registration

Tuition and Fees

Veterans Services

Academic Calendar 2011-12

FALL QUARTER

Sept. 21	**Instruction begins**
Oct. 31	**All District Day***
Nov. 11	**Veterans Day***
Nov. 23	**RPD Day***
Nov. 24-25	**Thanksgiving Holiday****
Dec. 6	**Instruction ends**
Dec. 7-9	**Final exams**

WINTER QUARTER

Jan. 9	**Instruction begins**
Jan. 16	**Martin Luther King Day****
Feb. 20	**President's Day****
Mar. 20	**Instruction ends**
Mar. 21-23	**Final exams**

SPRING QUARTER

April 2	**Instruction begins**
May 11	**All District/In-Service Day***
May 28	**Memorial Day****
June 12	**Instruction ends**
June 13-15	**Final exams**

SUMMER QUARTER

June 25	**Instruction begins**
July 4	**Holiday****
July 5	**No classes***
July 24	**Instruction ends – Term 1**
July 25	**Instruction begins – Term 2**
Aug. 21	**Instruction ends**

*No classes, college open **Holiday – College closed

Calendars subject to change. Please verify dates with the colleges.
Emergency closures due to inclement weather and other emergencies will be relayed to major local radio and TV stations.
Information is also available on the following website: www.schoolreport.org.

For more up to date information on events and activities, as well as the 2013 academic calendar, visit us at

www.pierce.ctc.edu/studentlife/calendars

Admissions

FS: (253) 964-6501
PY: (253) 864-3254

WHO MAY ENROLL

Pierce College has an open-door admissions policy, practices equal opportunity, and does not discriminate in its educational programs. No one is denied admission to the college because of race, color, national origin, sex, sexual orientation, disability or age.

Anyone who is 18 years of age or older, or whose high school class has graduated, or is a high school graduate or has earned a GED, or has qualified for admission through Running Start or a successor program, may enroll at Pierce College. Students who are 16 or 17 years of age and do not meet the minimum admissions standards, must obtain written permission from the school district of residence before being accepted for admission and/or enrolling in Pierce College courses.

As a policy, Pierce College does not admit students under the age of 16. Under extraordinary circumstances, special consideration may be given to students who petition for an underage admission exception. Students should begin the petition process prior to the start of the quarter they wish to attend by contacting the admissions office at Fort Steilacoom or Puyallup.

RUNNING START STUDENTS

High school students who meet the minimum age requirements (must be 16 upon admission to the program or turn 16 by the start of the first quarter of enrollment and under the age of 21) may enroll in Pierce College classes through the Running Start Program and register for up to 15 credits for free! To get started, see a high school counselor and consult the Running Start information in this section.

SPECIAL ADMISSION PROGRAMS

Some programs, such as Dental Hygiene and Veterinary Technology at the Fort Steilacoom college, and Nursing at the Puyallup college, have special admission requirements. These are outlined in the Programs of Study section.

REQUIREMENTS FOR NON-U.S. CITIZENS

Students who are not U.S. citizens must present a Permanent Resident card, I-94 or other immigration documentation at the time of application or registration so that residency for tuition-paying purposes may be determined. In addition, individuals on non-immigrant visas must meet additional admission requirements. See "International Students" in this section.

MILITARY SITE ADMISSIONS

Please contact the military sites for registration information. See Directory in the Appendix for contact information.

■ NEW STUDENTS

Students planning to work toward a degree, diploma, or certificate, or apply for financial aid, must submit an admissions form. There is a $25 non-refundable admission fee for the general programs of study. Special admissions programs, Dental Hygiene and Veterinary Technology, also require a $40 non-refundable application fee. The Nursing program requires a $65 non-refundable application fee.

No admissions form is required for enrollment in Continuing Education classes, the English as a Second Language (ESL) program designed for immigrants, or the Adult Basic Education (ABE), General Educational Development (GED) or High School Completion programs. See "Adult Basic Education" in the Programs of Study section of this catalog. For the Intensive English Program (IEP) designed for international students, there are additional requirements. See "International Students" in this section. No admissions form is required for enrollment at the military sites, unless a student will be receiving financial aid.

Admissions forms may be submitted at any time. Pierce begins sending quarterly welcome packets on the following dates:

Fall quarter: Dec. 1 • **Winter quarter:** Sept. 1
Spring quarter: Jan. 1 • **Summer quarter:** March 1

SUBMIT AN ADMISSIONS FORM:

1 Apply online at www.pierce.ctc.edu, or fill out a paper Pierce College Admissions Form, available at either college, at high school counselors' offices, at many community service agencies and on Pierce's website.

2 Application forms for admission consideration into the Dental Hygiene and Veterinary Technology programs must be submitted to the admissions office at the Fort Steilacoom college. Applications for admission consideration into the Nursing program must be submitted to the nursing office at the Puyallup college.

3 Students who have attended other colleges or universities and would like credits transferred to Pierce College must request that official transcripts be forwarded to Pierce College Fort Steilacoom or Pierce College Puyallup. (See "Transferring Credits to Pierce College" below.)

After submitting the admissions form, students will receive a welcome packet indicating that their form is being processed. The packet includes general college information, as well as specific information about advising and registration.

■ FORMER STUDENTS

Studens who have previously enrolled in courses offered by Pierce College must submit an admissions form to the college where they plan to re-enroll. This will reactivate and update the student's records. A welcome packet, which includes information about the advising and registration process, will then be sent.

Students who have attended other colleges or universities during their absence from Pierce College, who would like credits transferred to Pierce College, can request that official transcripts be forwarded to the college they wish to attend. See "Transferring Credits to Pierce College," below. Transcripts from previous schools may be reviewed by an advisor during an advising session.

■ TRANSFER STUDENTS

Students transferring to Pierce College from another college or university must fill out an admissions form and submit it to the college they plan to attend. When the form is received, a welcome packet will be sent out. This packet includes information about the advising and registration process. To transfer credits to Pierce College, students must request that official transcripts be forwarded to the college they plan to attend. See "Transferring Credits to Pierce College." Transcripts from previous schools may be reviewed by an advisor during an advising session.

TRANSFERRING CREDITS TO PIERCE COLLEGE

Credits earned at colleges and universities that are recognized by a regional accreditation association are generally accepted by Pierce College. Students with credits from other colleges or universities need to follow these steps to ensure their credits are transferred to Pierce:

1. Submit admissions form to the college (ex. Pierce College Fort Steilacoom or Pierce College Puyallup)
2. Contact the former school(s) and request that official transcripts be sent to the admissions office at Fort Steilacoom or Puyallup. Hand-carried transcripts are accepted only when sealed in official letterhead envelopes from the issuing institution. Copied or faxed transcripts cannot be accepted as official. Transcripts may also be sent electronically by the issuing institution.
3. Call the admissions office at Fort Steilacoom or Puyallup to make sure the transcript(s) has arrived.
4. Once it is verified that the official transcripts are on file, and a student is currently enrolled in Pierce College classes, he/she should complete a Transfer Credit Evaluation Form and return it to the evaluations office at Fort Steilacoom or Puyallup. Upon completion of this request, the evaluations office will evaluate

previous credits and send the results to the student. Students attending the military extension sites should check with the appropriate site for its evaluation procedure (ftlewis@pierce.ctc.edu — (253) 964-6567 or mcchord@pierce.ctc.edu — (253) 964-6606).

Washington Community and Technical Colleges (CTCs) offer reciprocity to students transferring within the CTC system. Students who have fulfilled entire areas of their degree requirements at one college — for example, Quantitative Skills, Communications Skills, or Distribution Area requirements — will be considered to have met those same requirements if they transfer to another community or technical college in-state. Students must initiate the review process and be prepared to provide necessary documentation. For complete information, students should contact the evaluations office. Students are encouraged to pursue reciprocity as early as possible after transfer and, certainly, no later than when they apply for graduation.

RUNNING START STUDENTS

WHO IS ELIGIBLE?

To be admited to Pierce Colleges' Running Start Program, a student must:

- Be a junior or senior
- Turn 16 by the start of the first quarter of enrollment and under the age of 21. Students under the age of 16 can petition for an underage admission exception. Students should begin the petition process prior to the start of the quarter he or she wish to attend. For more information regarding the under-age admission exception, please visit http://www.pierce.ctc.edu/dist/forms/under_age_admis_form.pdf
- Have a High School cumulative GPA of 2.0 or higher
- Qualify as having college-level skills through the COMPASS assessment. Student must place into ENGL& 101 to qualify to take college-level courses. To take classes requiring college-level math placement, students must place into college-level math **and** READ& 101.

Students attending private schools must be evaluated as juniors and seniors by a public high school official and enroll at that school. It is not mandatory that students are attending classes at the public high school. It is possible to have dual enrollment at both a private and public high school for access to the Runing Start Program.

Home-schooled students must file an Intent to Home School, inform thier local school district that they will be participating in Running Start, and be determined to be a junior or senior status by their local school district. For further information, please contact the appropriate school district. Prior to registering for classes. home-schooled students must submit a Pierce College Running Start Verfication of Eligibility form to their local Running Start office.

For more information on the steps to get started, please visit the Running Start website at http://pierce.ctc.edu/dist/runningstart/.

INTERNATIONAL STUDENTS

International Students may enroll at Pierce College if they meet the college's admission criteria and the requirements of the U.S. Bureau of Citizenship and Immigration Services. Registration, payment and grading is conducted on a quarterly basis.

There is no English language requirement to enter Pierce College's Intensive English (ESL) Program. Please see "International Education" in the Programs of Study section of this catalog for more information.

Students intending to study for a two-year associate degree must have successfully completed high school in their countries or have passed the equivalent examination. The English proficiency requirement for academic study at Pierce College can be met in several ways, including a minimum International TOEFL score of 61 on the iBT (174 on the computer-based test or 500 on the written test), or successful completion of Pierce College's Intensive English Program. See www.pierce.ctc.edu/admissions/interntaionalstudents/proofofEnglishproficiency for other ways to demonstrate proficiency in English.

Students who are 16 years of age or older who have not completed high school may enroll in the nternational High School Completion Program (Fast Track). Students who do not have adequate English proficiency must take Intensive English (ESL) classes before beginning the Fast Track Program. The college will evaluate each student's high school record and design an individual study plan. Most of the student's Fast Track classes will qualify for the associate degree as well as for the Washington state high school diploma.

INTERNATIONAL STUDENTS APPLYING FROM OUTSIDE THE USA

Submit the following to the Pierce College Office of International Programs:

- A Pierce College International Student Application form
- International application fee of $50
- Academic records: proof of high school graduation or the equivalent and official transcripts from the most recent high school or college
- A current financial guarantee, such as a bank statement showing sufficient funds or an Affidavit of Support and a bank statement from a sponsor
- For direct admission to academic programs, documentation of English proficiency as outlined at www.pierce.ctc.edu/admissions/internationalstudents/proofofEnglishproficiency.

Email, fax or mail all materials to:

Pierce College International Programs
9401 Farwest Drive SW
Lakewood, WA 98498-1999 USA

Telephone: (253) 964-7327 Fax: (253) 964-6256
www.international@pierce.ctc.edu
www.pierce.ctc.edu/internationalstudents

INTERNATIONAL TRANSFER STUDENTS ALREADY IN THE USA

Students already studying in the United States at another institution must send in all the documents listed in the previous section. In addition, Pierce College requires a Transfer-In Form, which Pierce will send. Students must have their US school complete the form and send it back to Pierce for review.

DEADLINES/PROCEDURES – ALL INTERNATIONAL STUDENTS

For students applying from their home countries, Pierce College must receive all application materials by Aug. 15 for fall quarter, Nov. 15 for winter quarter, Feb. 15 for spring quarter, and May 15 for summer quarter.

For details on immigration regulations concerning international students, please contact International Education.

HOST FAMILY PROGRAMS

Pierce College offers host family opportunities for international students. Contact the Housing Manager for additional information.

INSURANCE

All international students are required to have sufficient medical insurance for the duration of their studies here. Students may purchase insurance through the college at the time of registration for classes, or they may show proof of sufficient coverage and sign a waiver. Students cannot enroll without insurance.

IMPORTANT FINANCIAL NOTE

Pierce College cannot provide financial assistance to international students. On-campus employment opportunities are extremely limited, and taking paid employment off-campus while in the USA on a student visa is not allowed.

Financial Aid

District Website: www.pierce.ctc.edu/dist/financialaid
District E-mail: financialaid@pierce.ctc.edu
District Phone Number: (253) 964-6544

Financial assistance may be available from various sources in the form of grants, scholarships, loans and employment. Aid is awarded according to federal, state and institutional guidelines. No student will be denied aid on the basis of race, color, national origin, sex, sexual orientation, disability or age.

All prospective students are encouraged to apply for aid. Eligibility is determined through a careful assessment of the student's financial situation, taking into account personal and/or family income, assets, debts, number of dependents, and the estimated cost of attending Pierce College.

APPLYING FOR AID

Apply for financial aid as early as possible. The priority application dates are published on the financial aid website each year for the following academic year. Students must submit all of the required documents to the financial aid office by the published date to ensure the maximum amount of aid is available. Awards are made on a first-come, first-served basis for students whose files are complete.

If a student's file is not complete by the priority application date, their aid award may not be ready by the first day of the academic quarter. In that case, students may pay their own tuition and become eligible for reimbursement at a later time dependent upon financial aid eligibility.

Pierce College also offers a Tuition Installment Plan (TIP) through the cashier's office.

To apply for financial aid, fill out the Free Application for Federal Student Aid (FAFSA) online at www.fafsa.ed.gov, or complete the paper version and mail it to the processor. The federal school code for all Pierce College sites is **005000.** A college admission form is also required to complete this process.

In addition to meeting financial need criteria set by federal, state and institutional regulations and guidelines, a financial aid recipient must:

- Complete a Pierce College admission form
- Be a U.S. citizen or eligible non-citizen
- Be enrolled in, or accepted for enrollment in, an eligible Pierce College degree or certificate program
- Be making satisfactory academic progress, as defined by the Pierce College Satisfactory Academic Progress (SAP) requirements
- Not owe repayments or be in default on any federal student loans or grants
- Be registered with Selective Service (for males at least 18 years old, born after Dec. 31, 1959, and not active duty military)
- Have a high school diploma or GED, or demonstrated through official testing (Ability to Benefit - ATB) or other regulatory approved criteria.

Satisfactory Academic Progress for financial aid eligibility is explained in the materials sent to students with their financial aid notification.

Financial aid is normally awarded based on full-time enrollment (12 credits or more). If a student plans to enroll in fewer than 12 credits for any quarter, they must give the financial aid office advance notification to allow for the aid award to be revised.

TYPES OF FINANCIAL AID

GRANTS AND SCHOLARSHIPS

These funds do not have to be repaid unless a student withdraws from school during an academic term or does not meet SAP requirements.

- Federal Pell Grants provide a "floor" of financial aid to which other aid is added as needed.
- Washington State Need Grants (WSNG) provide partial grant support for eligible Washington state residents.
- Washington State Tuition Waivers (TW) provide tuition grants for a limited number of state residents.
- Scholarships may be available from outside donors or the financial aid office, academic department, and the Pierce College Foundation.
- Opportunity Grant Scholarships support certain professional/technical programs and are need-based.
- Federal Supplemental Educational Opportunity Grants (SEOG) are an additional source of federal grant aid for eligible students.

EMPLOYMENT

- Federal College Work-Study Programs (FCWSP) allow students to work on or off campus with a non-profit agency for a maximum of 19 hours weekly (40 hours during quarter breaks).
- State Work-Study Programs (SWSP) allow students to work in private industry or business, with preference to Washington state residents. Students may work for a maximum of 19 hours weekly (40 hours during quarter breaks).

LOANS

- Federal Stafford Loan/PLUS allow students to borrow directly from the U.S. Department of Education. Applications are available on the financial aid website. Students must first apply for financial aid using the FAFSA.
- Federal Perkins Loans are limited to students with highest educational costs and exceptional need.

SPECIAL FUNDING

Through the Worker Retraining/WorkFirst programs, financial assistance may be available to students who are:

- Receiving unemployment benefits, have received unemployment benefits in the past 24 months, have exhausted their unemployment benefits or have been separated from active military service in the last 24 months.
- Working parents with a small household income or receiving DSHS/WorkFirst cash assistance.
- Homemakers who now need to financially support themselves and their families.

Contact the workforce development director at (253) 964-6265 or www.pierce.ctc.edu/dist/workforce for information on special funding opportunities.

AGENCY FUNDED STUDENTS

Students who expect to be funded by an outside agency, such as Boeing, Labor and Industries, or Qwest, need to ensure that vouchers for tuition and fees have been received by the cashier's office at the college they plan to attend before registration. Students need to initiate this process and contact the agency that will be providing their funding. Students must also arrange with the agency to be able to charge books and supplies in the college bookstore.

OFFICIAL EMAIL USE

All notifications from Pierce College Financial Aid will be made via the student e-mail system. This is the college's official means of communications with students. It is important that students establish a student e-mail account and check it regularly for important information.

Assessment

FS: (253) 964-6521
PY: (253) 840-8343
FL: (253) 967-6567

Pierce's assessment program helps determine which level of coursework is suitable to meet a student's educational goals. Assessment tests in math, writing and reading are required for most students, depending on the course of study.

Testing is available by appointment at the Fort Lewis and Puyallup testing centers and on a walk-in basis at the Fort Steilacoom testing center. A non-refundable fee must be paid to the cashier before taking the test. Picture ID is required to test.

Advising

FS: (253) 964-6705
PY: (253) 840-8431

Pierce College's advising program supports students in the process of developing an education and/or career path. Advisors can help students get started on a path towards completion of an Associate of Arts (AA) degree or Associate of Science (AS) degree for transfer to a four-year university, or an associate degree or certificate in one of the professional/technical programs. During a student's first quarter, they are assigned a faculty advisor who advises in the specific program or discipline within their area of study.

Advisors will assist through the enrollment and registration process, including the selection of courses to meet educational needs, and can provide assistance with the following:

- Identifying education, training and career goals utilizing self-assessment tools for exploration of occupational interests, personality traits and skills.
- Choosing educational or professional/technical program of study.
- Referral to specially-funded programs and information about financial resources for education.
- Selection of classes based upon placement results on the college's assessment of academic skills and/or previously completed college credits.
- Class selection to fulfill the degree or certificate requirements of the selected program of study.
- Initial development of an educational plan to complete the course requirements of the chosen program of study.
- Information regarding transfer to other colleges or university programs.
- Review and unofficial evaluation of previous college transcripts for transferable credit.
- Referral to appropriate college/community resources.

Advising staff members have developed a number of student success resources, including employment and education fairs, workshops and seminars, website access links, and university transfer activities.

Student Orientation (SOAR)

FS: (253) 964-6705
PY: (253) 864-3387
www.pierce.ctc.edu/go/soar

Pierce College Fort Steilacoom and Pierce College Puyallup offer free SOAR (Student Orientation, Advising, and Registration) sessions for all new students. These sessions provide necessary information on the programs and services available on campus, the resources available in and out of the classroom, campus workshops and events, directions around campus, parking and much more.

- At Fort Steilacoom, SOAR sessions are required for all students who have never before attended college. Sessions are offered quarterly and students can sign up online. New Pierce students who are transferring credits from another college are advised to call the Welcome Center at (253) 964-6705 to schedule an appointment with an advisor. To arrange a Fort Steilacoom campus tour, contact a Student Ambassador at (253) 912-3650 or FSSA@pierce.ctc.edu.
- At Puyallup, SOAR sessions are strongly recommended for all new Pierce students. Sessions are offered quarterly and students can sign up online.

NEW STUDENT ORIENTATION - PUYALLUP

PY: (253) 840-8435
http://www.pierce.ctc.edu/dist/admissions/getstarted/soar-py

Students are strongly encouraged to sign up and attend a free campus orientation after registration. The New Student Orientation is a great opportunity to better understand programs and services available on campus, gain valuable information on the tools available for success in and out of the classroom, learn about campus workshops and events, get acquainted with the campus, meet faculty and staff, and continue to learn how to determine which program or degree is the best fit.

New Student Orientation includes:

- A campus tour to help locate classrooms
- Informaton about available student resources and services
- Details on where to obtain a student ID, parking pass and textbooks
- Opportunities to meet other students and ask questions

Registration

FS: (253) 964-6615
PY: (253) 840-8400
ONLINE REGISTRATION: www.pierce.ctc.edu/SOS

Registration priority is given to currently enrolled students, with registration times scheduled on the basis of total number of credits earned at Pierce College. The priority system is designed to ensure class availability to those who need specific classes to meet their degree or certificate goals. Former students (those not enrolled for the current quarter) register after currently enrolled students. New students register during their assigned registration period.

ONLINE REGISTRATION

Pierce College's Student Online Services (www.pierce.ctc.edu/SOS) allow students at Puyallup and Fort Steilacoom to register for classes, make class changes (add or drop), find out their grades, check their financial aid status, and find out their registration times, all by using a computer at home, work or on campus. For information about the system, call the registration office at either college.

LATE REGISTRATION

Students may register for a class without the instructor's signature through the first three days of the instructional quarter. The instructor's signature is required to register for a class on the fourth through the 10th day (eighth day during summer quarter) of the instructional quarter. Specific dates are published each quarter in the eSchedule. Registration after the 10th day (eighth day for summer), with the exception of continuous-entry or late-starting classes, must be petitioned through the registration office and a non-refundable late enrollment fee will be charged.

CONCURRENT REGISTRATION†

Pierce College may participate with other local community colleges to offer a concurrent registration program for state-funded courses. Check with the registration office for more information about concurrent registration procedures.

REGISTRATION BLOCKS

It is important that all prior college financial obligations are paid prior to registration. Students will not be permitted to register if a block is on their student record.

CHANGING A SCHEDULE AFTER REGISTRATION

The dates for adding or dropping classes are listed in the eSchedule each quarter. To add or drop a class, students must go online or complete a Schedule Change Form and submit it to the registration office. If a class is dropped before the 10th day of the quarter (eighth day for summer quarter), no record of the class will appear on the student's transcript. (This day varies if the class does not follow the regular college calendar.)

To drop a class after the 10th day of the quarter (eighth day for summer quarter), students must go online to withdraw or complete a Schedule Change Form and return it to the registration office. The last day to withdraw is published in the quarterly eSchedule. Students who follow this procedure to drop a class after the 10th day will receive a "W" grade for the course. Students who do not follow this procedure may receive a "0.0" (F) grade.

OFFICIAL WITHDRAWAL FROM THE COLLEGE

To officially withdraw from a class(es), go online or obtain a Schedule Change Form from the registration office, complete it, and return it to the registration office by the last day to withdraw. See the quarterly eSchedule for specific dates.

Students must initiate the request for all withdrawals. However, if an emergency occurs and a student is unable to come to the college, phone-in or faxed withdrawals will be accepted. Call the registration office at (253) 964-6615 (FS) or (253) 840-8400 (PY).

ADMINISTRATIVE WITHDRAWAL

Pierce College reserves the right to administratively withdraw a student from an English composition, math, and/or any quantitative skills course for which they have not successfully fulfilled the prerequisite requirement. Students will be notified of the withdrawal and of further registration options.

Tuition and Fees

Tuition rates for Pierce College District are set annually by the state Legislature and the State Board for Community and Technical Colleges. Tuition rates and fees are posted on the Pierce College website at www.pierce.ctc.edu/dist/tuition.

Pierce College reserves the right to change, without notice, any fees to comply with state or college regulations and policies. The admissions and registration offices have the most current information available.

Tuition rates and the policies regarding tuition, student fees, technology fees, tuition and fee waivers, concurrent registration, and refunds differ for non-state funded classes, including Continuing Education classes and those conducted at the military or other sites.

OTHER FEES

COMPREHENSIVE STUDENT FEE†

A student-approved fee of $1.50 per credit, up to a maximum of $15, is charged each quarter to cover on-campus parking, graduation expenses, transcripts, student kiosk maintenance, and student ID production. This fee is refundable on the same basis as tuition.

TECHNOLOGY FEE†

A student-approved fee of $3.50 per credit, up to a maximum of $35 per quarter, is charged and used to advance the use of technology by students. This fee is refundable on the same basis as tuition.

FORT STEILACOOM RECREATION CENTER FEE†

A student-approved fee of $3.50 per credit, up to a maximum of $35, is used to cover the building costs of a multipurpose student recreation center for students at Pierce College Fort Steilacoom and is refundable on the same basis as tuition.

PUYALLUP FITNESS AND RECREATIONAL FEE†

A student-approved fee of $4.25 per credit is used to cover the costs of the fitness and recreational center for students at Pierce College Puyallup and is refundable on the same basis as tuition.

SPECIAL FEES

Special fees are charged to cover extraordinary expenses for some courses and/or programs. These are refundable on the same basis as tuition, unless noted in the quarterly class bulletin as non-refundable.

TUITION AND FEE WAIVERS

Tuition and fees are waived or reduced for certain groups of Washington state residents who enroll for state-funded classes. Contact the registration offices for information.

TUITION AND FEE REFUND POLICY

Students must officially withdraw from a class to receive a refund. Tuition refunds are made in accordance with the tuition and fee refund schedule available on the college website at www.pierce.ctc.edu/dist/tuition/refunds.

- 100 percent refund if a student withdraws through the fifth day of the instructional quarter or if the class is canceled (summer quarter policy is different)
- 50 percent refund if a student withdraws from the sixth through the 20th calendar day of the instructional quarter (summer quarter policy is different)
- No refund if a student withdraws after the 20th calendar day of the quarter

For summer and shorter session classes, which do not follow the regular college calendar, refunds are given on a timetable proportionate to the standard length of the quarter.

†Tuition rates and the policies regarding tuition, student fees, technology fees, tuition and fee waivers, concurrent registration and refunds differ for non-state funded classes including continuing education classes and classes at the military sites and certain other sites.

DEBTS TO THE COLLEGE
If a student has an outstanding debt to the college, the college may offset that debt against any refunds due to the student.

PROCEDURES FOR RECEIVING REFUNDS
Student must initiate the request for all refunds, including those due when a class is canceled.

To initiate a refund, students may withdraw online or complete a Schedule Change Form and return it to the registration office during the refund period. Refunds are made by check and will be mailed to the student or refunded back to the student's financial aid. Pierce College does not issue refunds of $10 or less to students.

Any exceptions to the refund policy must be requested in writing to the registrar (Fort Steilacoom) or the director of enrollment services (Puyallup), with detailed information and documentation to support the request.

DEFINITION OF FULL-TIME STUDENT FOR ENROLLMENT PURPOSES

A student must be enrolled in a minimum of 12 credits in a given quarter to be considered a full-time student for enrollment purposes. The definition of a "full-time student" may vary for outside agencies, such as the Immigration and Naturalization Service, Veterans Administration, Social Security, and insurance companies. Students are responsible for knowing the enrollment status requirements of any sponsoring agencies.

RESIDENCY STATUS

The State of Washington regulates residency determinations at Washington community colleges and public universities in accordance with RCW 28B.15.012-014. To be considered eligible for the lower resident-tuitution rate, a student (or his/her parent or legal guardian in the case of a dependent student) must: 1) Be a U.S. citizen or have permanent resident immigration status in the U.S. for at least one year, or hold an eligible visa classification (A,E,G,I or K); 2) Be physically present in Washington for 12 continous months prior to the beginning of the quarter; 3) Have established a bona fide domicile 12 countinuous months prior to the beginning of the quarter.

To determine if a bona fide domicile has been established, a variety of factors are considered. Simply living in Washington for 12 continuous months prior to the beginning of the quarter does not establish residency or a student's intent to become a permanent resident of Washington.

Residency questionnaire forms and information about state requirements for establishing residency are available from the admissions office at Fort Steilacoom or Puyallup. All information should be submitted to the college to which the student has applied:

Pierce College Fort Steilacoom Admissions Office 9401 Farwest Drive SW Lakewood, WA 98498-1999	Pierce College Puyallup Admissions Office 1601 39th Avenue SE Puyallup, WA 98374-2222

Active duty military and Washington State National Guard personnel physically stationed in Washington and their spouses and dependents can have the non-resident portion of their tuition waived by providing valid military identification and their most recent LES each quarter to the registration office at either college.

Some individuals who are not permanent residents or citizens of the United States may be eligible to pay resident tuition rates. To qualify for resident status, they must complete the Washington Higher Education Residency Affidavit/Declaration/Certification form if they meet the following conditions:

1) a. Resided in Washington state for the three years immediately prior to receiving a high school diploma and completed their full senior year at a Washington high school

or

b. Completed the equivalent of a high school diploma and resided in Washington state for the three years immediately before receiving the equivalent of the diploma,

and

2) Continously resided in the state since earning a high school diploma or its equivalent.

Please submit the original copy of Washington Higher Education Residency Affidavit/Declaration/Certification to the admissions office at either college. Faxed or e-mailed forms, or forms without an original signature, are not acceptable.

All residency determinations are based upon Washington state guidelines, which Pierce College is required to follow.

RESIDENCY/CITIZENSHIP STATUS CHANGES
All documentation required for a review of residency/citizenship status for tuition-paying purposes must be submitted to the admissions office at the college the student is attending within 30 calendar days from the start of the instructional quarter. Paperwork submitted after 30 days is reviewed for the next quarter.

Veterans Services

FS: (253) 964-6505
PY: (253) 864-3292

The Veterans Services Offices (VSOs) at Fort Steilacoom (FS) and Puyallup (PY) provide assistance for students using GI Bill education benefits.

Students must designate a VA-approved program of study on their GI Bill benefit application in order to receive benefits, and only classes listed in the VA-approved curriculum will be funded. All of Pierce College's transfer associate degrees are VA-approved, and a list of VA-approved techinical and certificate programs is available at either VSO.

Students using GI Bill education benefits should contact the VSO at the campus they will be atttending the most. If the student is going to attend primirily through Pierce College's military sites, they should choose whichever VSO (FS or PY) is most convenient for them to contact. Students receiving Chapter 31 benefits (Vocational Rehabilitation) must submit their paperwork to the Fort Steilacoom VSO only.

PAYMENT OF VA EDUCATIONAL BENEFITS

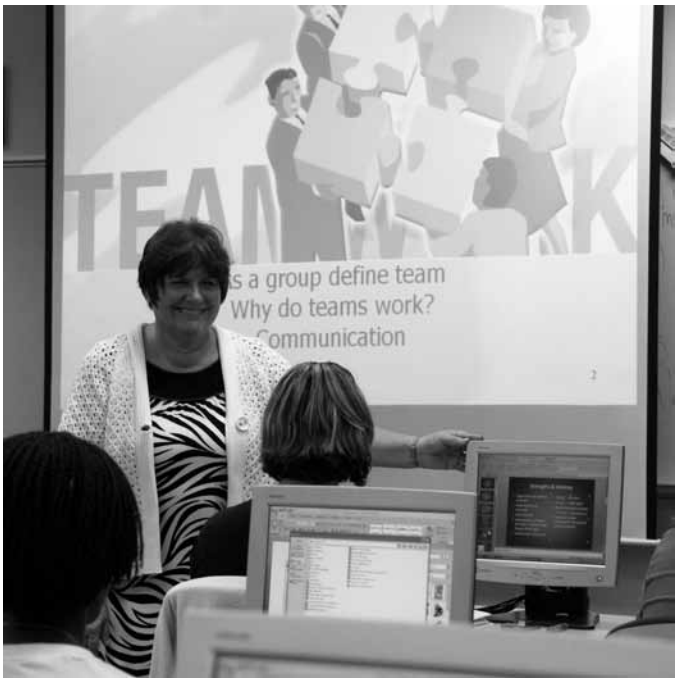
Depending on the student's funding status, payment of benefits may be made directly to the student or both to the student and to the college. The student should be prepared to meet the cost of tuition, fees, books, and other expenses themselves prior to receiving any payments from the VA.

It is the responsibility of the student to stay in contact with the VSO to ensure the continuation of benefits on a quarterly basis. This also includes changes to the students' enrollment status, such as adding and dropping classes.

All VA benefit checks are mailed directly to the students' residence or directly deposited into the bank account of the students' choice. Generally, payments are made at the end of each month of school attendance for as long as the student is enrolled and making satisfactory progress.

Information about credit/quarter requirements for benefits is also available at either VSO (FS or PY).

ACADEMIC INFORMATION



eLearning

Earning Credits

Grading System and Standards

Graduation

Records/Transcripts

Standards, Academic

Student Rights and Responsibilities

Transfer Rights

eLearning

www.pierce.ctc.edu/el
E-mail: distedu@pierce.ctc.edu
Toll-Free: 1-877-ELforMe • (253) 964-6244

eLearning gives students the freedom to learn at their convenience. Moreover, eLearning courses are affordable, transcripted and transferable — just like on-campus courses.

FREQUENTLY ASKED QUESTIONS

HOW DOES A STUDENT START?

It is always a good idea to consult an advisor or visit the advising center to compare degree planning needs with the courses Pierce offers. A good second step is to take the readiness self-assessment on the eLearning website to see if eLearning is a good fit. Next, check out the course listings in the eSchedule or at the eLearning website. To help ensure success in online courses, consider enrolling in CIS 103: Online Learning – Getting Started.

WHAT COURSES ARE AVAILABLE?

Students can complete a general AA-DTA degree fully online! There are courses in each General Education Requirement (GER) category, and many professional/technical programs have courses online, too. Check with an advisor to determine the options for a specific program of study.

ARE ALL ELEARNING CLASSES THE SAME?

Pierce College offers two primary types of courses. Most are quarterley schedule classes; a few are continuous entry.

Quarterly schedule courses follow the standard 10-week schedule (eight weeks in the summer). Students choose the time each day when it's most convenient to do the coursework, but have deadlines to meet throughout the quarter.

All online courses offered are listed in the quarterly eSchedule. To find Pierce College Online (PCOL) and WashingtonOnline (WAOL) courses, select "online only" from the eSchedule location drop down menu. Additional information is available on the eLearning website or WAOL's home page (www.washingtononline.org).

Continuous entry courses, which are denoted with a "C" after the item number, are open for enrollment from the start of registration until each quarter's last day to withdraw. They are typically self-directed with flexible deadlines, more like correspondence courses delivered via online technologies. This course type allows a "Z" in-progress grade for students who do not complete the coursework. Students are advised that starting late can make it hard to finish, and some instructors require students to reach a given point in the course before awarding a "Z" grade. Completing the course by the end of the quarter is necessary for students who receive financial aid, are ready to graduate, or plan to transfer.

WHAT IS IT LIKE?

First of all, these are real courses, not simplified versions of their campus counterparts. They take more work because students must overcome the challenge of replacing classroom experiences and conversing with instructors. It is necessary for students to be organized self-starters, who feel comfortable with technology.

Courses use a variety of media ranging from audio and DVD materials to Internet tools like Web pages, e-mail and fully online courseware, like Angel, that runs in a Web browser. Students use syllabi to guide work, read textbooks, do research, and communicate with the instructor and fellow students (using technology), just like in a campus-based class. Courses are taught by full- and part-time Pierce College instructors. Course disciplines cover the range of general education requirements (GERs) needed to get an AA-DTA degree.

WHAT IS PIERCE COLLEGE ONLINE (PCOL)?

PCOL courses follow the same system as WAOL courses. The essential difference is that all students and instructors come from Pierce College. Students log in to their online classroom at the same Angel Web address. Most of Pierce's eLearning courses are PCOL.

For all online courses, students must have a late model computer connected to the Internet with an established and working Internet service provider. Online courses use computer software to create the virtual classroom. Enrollees receive a brief orientation as class starts and are expected to participate daily. Activities include engaging in multimedia "lectures" in the virtual classroom, visiting other Web resources, researching, submitting assignments, commenting in threaded discussion areas on each other's work, and taking exams. These classes are not self-paced or correspondence-type courses. They follow the 10-week quarterly schedule with beginning and end dates. Each week, assignments are due and the class moves to the next week as a group. Students don't have to be online at any particular time each day, but they should plan to spend roughly 15 hours a week in activities online, five out of seven days each week.

WHAT IS WASHINGTONONLINE (WAOL)?

WAOL courses are special, fully online offerings. Students and instructors from all over the state share these courses. At any time, students could be in the virtual classroom with students from many other colleges and the instructor could be at any community and technical college in Washington. Pierce offers a subset of the courses available in the consortium.

WHAT ARE HYBRID AND WEB-ENHANCED COURSES

Hybrid classes appear in the eSchedule with an "(H)" icon after the item number. These courses combine traditional classroom activities with a strong, required online component. Study and technology expectations are similar to those of PCOL/WAOL/O courses. Hybrids meet in a traditional classroom about half of the time, while the rest of the course activities are conducted online.

Web-enhanced classes are traditional face-to-face courses that use Web-based components for distribution of course materials and out-of-class communication. Students still meet on the normal class schedule.

Students have access to the online portions of these types of eLearning courses the week before instruction begins (the same as PCOL/WAOL/O students). However, at the first class meeting, the instructor will provide guidance on how the technology will be used.

WHAT POLICIES AND PROCEDURES APPLY?

Generally, all policies and procedures relating to advising, admissions, registration, financial aid, placement testing, and other college or student services apply to eLearning students. Departments use e-mail, FAX and telephones, in addition to the website's Student Online Services, to support students who cannot come to either campus.

Students served by the WashingtonOnline Virtual Campus follow the policies and procedures that govern student conduct, disciplinary actions and conflict resolution as put in place by the enrolling college. Jurisdiction and authority for discipline of students served by the WashingtonOnline Virtual Campus will rest with the enrolling college; however, administrators and faculty of the teaching college and/or the WashingtonOnline Virtual Campus staff may be included in investigations prior to final decisions regarding a discipline situation.

WHAT DOES IT COST?

eLearning courses follow the same guidelines for regular course tuition. Special fees apply in many cases.

Earning Credits

CREDIT HOURS/CREDIT LOAD

Credits for courses leading to degrees are given on a quarterly credit-hour basis. In general, a class that meets one hour a week yields one credit; five hours a week yields five credits. Laboratory and activity classes may vary from this pattern.

Although an average of 15 credits per quarter is recommended for making normal progress toward a degree as a full-time student, Pierce College serves many students who, because of employment

or family obligations, choose to attend part-time. Pierce recommends that students work with a faculty advisor to plan the credit load that best meets their specific needs and educational goals.

Pierce College has established credit load guidelines to help students succeed in college. During fall, winter and spring quarters, the maximum credit load is 22 credits; during summer quarter, it is 18 credits. High school completion students receiving VA benefits may carry 20 credits during summer quarter.

Requests for exceptions to the maximum credit load limit should be made to a faculty advisor. Credit overload approvals for a specific number of credits must be indicated on a student's registration form and bear the signature of the faculty advisor and the division chair for that advisor or the district director of student development.

PRIOR LEARNING ASSESSMENT

http:/www.pierce.ctc.edu/go/pla

Prior Learning Assessment (PLA) is a term used by colleges to describe the process for learners to earn credit and gain recognition for their knowledge and skills. PLA supports the identification, documentation, assessment and recognition of non-formal knowledge to be counted toward an academic degree, training program, occupational or professional certification, or for linking employment credentials with education credentials. Credit is granted for college-level learning which can be demonstrated and documented.

Academic departments are responsible for outlining a PLA process that reflects competencies and outcomes within their specific disciplines. The college supports as guidelines the principles of best practices published by the Washington State Community and Technical Colleges, as well as the policies established by the Northwest Commission on Colleges and Universities. If a student wishes to investigate the possibility of having prior learning recognized by the college, the student should first consult with their advisor, who would direct them to the appropriate department expert.

PLA FORMS OF ASSESSMENT

Not all departments use the assessments listed below or offer PLA. Students should check with a specific department on PLA policies and further information on how these assessments apply to specific disciplines.

RECORDING OF CREDIT

Credits Awarded for CLEP, DSSTs, Advanced Placement (AP) and Credit by Examination

Pierce College may award credit for non-traditional learning based on results of national tests, such as CLEP, DSSTs, AP and Credit by Examination as appropriate to the student's program at Pierce College and the scores received on the tests.

CLEP and DSSTs

CLEP and DSSTs testing is available through the Pierce College Military Program. Administrative registration and testing fees may apply. Students should contact either the Fort Lewis or McChord campus for fee information.

Advanced Placement

Students at participating high schools may take college-level coursework and examinations through the Advanced Placement program sponsored by the College Board. Pierce College accepts credit for work done in this program by students who receive AP scores of 3, 4, or 5 in approved subject areas. An AP score of 4 or 5 will be treated as a 4.0 grade; a score of 3, a 3.0 grade. These grades will be counted in a student's final degree evaluation. Advanced Placement credit and grades may also be used to fulfill various degree requirements. Pierce College's approved subject areas for Advanced Placement credit are: art; English; history; foreign language (French, German or Spanish); mathematics (calculus or computer science); music theory; political science; psychology; and science (biology, chemistry or physics). For more information, contact the evaluations office. No fee applies.

Credit by Examination

Students may receive Pierce College credit for up to two courses per quarter by successfully completing an examination on the course subject matter. Credit by examination may be attempted only once for any given course and may not be used to improve a grade earned at Pierce College or to challenge a course prerequisite for a course successfully completed. Credit by examination does not satisfy the graduation requirement that 25 of the last 45 credits be earned at Pierce College. A per-credit fee is charged. Students should contact the department from which they are seeking PLA credits for examination fee information.

Further information and application forms are available through the testing centers at Fort Steilacoom or Puyallup.

CREDITS EARNED THROUGH WORK EXPERIENCE

Current on-the-job work experience, if related to academic or professional/technical studies, may enable students to obtain credit for "real life" experience in a chosen field. Experiential learning is college-level learning that has been acquired through work experiences and self-study. Credit will be awarded for the college-level learning gained from these experiences, not from experiences only.

Students should recognize that college credits are usually useful to them only if the credits are a required part of the major or certificate program in which they are actively engaged. This credit is not accepted automatically by transfer schools, and anyone planning to transfer should research this matter with the transfer school(s) concerned.

Students may initiate assessment of work experience credit through professional certificates, licenses and portfolios, as determined by academic departments. Students should review the various options available to recognize their learning accomplishments and work with the academic department from which they are seeking credit.

Professional Certifications and Licenses

College credits may be awarded for professional certifications and licensure earned by the student if the organization providing the training program is recognized by the American Council on Education (ACE), international, federal, state or local agencies, and the appropriate Pierce College academic department determines that the certification/license is college-equivalent learning. Students should contact the department from which they are seeking PLA credits for professional certification and license fee information.

Portfolio Assessment

A portfolio is a purposeful collection of student work that exhibits the student's efforts, progress and achievements in one or more areas of the curriculum. Portfolio assessment awards credit on the basis of knowledge mastered for specific courses at the discretion of each department. Appropriate faculty will evaluate the portfolio to determine if it is acceptable and the amount of credit that may be awarded. Preparation of the portfolio is the sole responsibility of the student who chooses to initiate this process. Not all departments use portfolio assessment. Students should check with the specific department from which they are seeking credit on policies and guidelines for portfolio assessment. Students should contact the department from which they are seeking PLA credits for portfolio assessment fee information.

Credits Awarded for Professional Certification, Licenses and Portfolio Assessment

The course number is recorded along with a code that indicates a student has gained credit through prior learning. The courses completed by work experiences are not factored into the student's grade point average.

CREDITS AWARDED FOR SERVICE

CREDIT FOR VISTA, PEACE CORPS OR AMERICORPS

Pierce College will grant 15 credit hours of elective credits for one year or more (at least nine months' active service) in VISTA, Peace Corps or AmeriCorps. To receive such credit, students must submit a resume of their VISTA, Peace Corps or AmeriCorps experience to the evaluations office for evaluation.

The credit granted may apply to any Pierce College degree and will be granted after the student has earned 15 or more college-level credits with a college-level grade point average of 2.0 or higher in residence at Pierce College. However, general credit of any nature cannot be used to fulfill the specific course requirements of any program.

CREDIT FOR NATIONAL GUARD/RESERVE MILITARY SERVICE

Pierce College will grant up to 15 quarter-hour credits toward the Associate in Technology – General degree for Reserve and National Guard military experience.

Once a student has completed basic and advanced training of at least 120 days in Armed Forces training school, they become eligible for five credits. For each 24 days of reserve service (summer camps and weekend active duty for training) beyond the initial basic and advanced training, the student becomes eligible for one additional credit.

A maximum of 15 credits can be earned for a combination of all military service. These credits will be granted after the student has earned an equal number of credits in residence at Pierce College. These credits cannot be used to fulfill a specific course requirement of any vocational program.

SOC/SOCAD

Pierce College is an institutional member of Servicemembers Opportunity Colleges (SOC), a consortium of more than 1,800 colleges and universities providing voluntary postsecondary education to members of the military throughout the world.

In addition to SOC membership, Pierce is one of approximately 145 select institutions providing flexible SOC programs on more than 150 Army and Air Force installations worldwide. These programs lead to associate degrees, some of which correspond to enlisted and warrant officer job specialties. Through prior agreement, students in SOC programs:

- have completed 15 quarter hours of college-level credit with Pierce College for residency.
- are awarded credit for experience in their Military Occupational Specialty (MOS) or Air Force Speciality (AFSC) and service schools, as appropriate to their program.
- are awarded credits for nontraditional learning based on results achieved on national tests, such as CLEP and DSSTs, as appropriate to their program.
- have a SOC Student Agreement completed as their official evaluation stating remaining degree requirements and eliminating the need for re-evaluation of previous credits.
- are guaranteed that approved courses from other SOC institutions will be acceptable for Pierce College degree requirements.

EARNING COLLEGE CREDIT WHILE IN HIGH SCHOOL

DUAL CREDIT PROGRAM

Pierce College has agreements with several school districts to award credit for some professional/technical courses taken in high school.

The dual credit program is a great way for high school students to get a jump start on their future and save up to $1,000 in college tuition before graduating high school. Through this program, high school students who complete selected high school courses with a "B" grade or better can earn community/technical college credit.

For more information, high school students should contact their high school counselor or career specialist, or the Pierce County Careers Connection at (253) 692-4799.

Grading System and Academic Standards

Pierce College's grading system is designed to provide a permanent record reflecting student performance and achievement in a variety of courses and programs. Grades are reported in numeric fractions to the nearest tenth, while grade point average (GPA) is computed to the nearest hundredth. The numeric grades shown in the first column below will appear on the student record. The letter equivalent and/or explanation of the grade appears beside it.

The letter grades and textual descriptions are an approximate equivalency guide to the official Pierce College decimal grades; however, these are only intended to provide a general description of a student's academic achievement. Specific decimal grades may be required to meet a class prerequisite, maintain good academic standing, receive credit toward a degree and meet various program-specific requirements.

NUMERIC GRADE	LETTER GRADE EQUIVALENT	
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-	(lowest passing grade)
0.0	F	Indicates student did not do passing work in the course, did not attend during the quarter, or did not officially withdraw.

GRADE SYMBOLS

*	Grade missing or not yet issued.
W†	**Withdrawal:** Student-initiated by following official withdrawal procedures.
I†	**Incomplete:** Issued when a student has been delayed in completing the required work. To receive an "I" the student and instructor sign an Incomplete Contract by the last day of the instructional quarter. Time limit for removal of "I" grade is determined by the instructor, but not to exceed four quarters following the quarter in which the grade was issued. Instructor may convert "I" to "0.0" or allow it to remain as "I" if the student has not completed work by completion deadline.
NC†	**No Credit:** Faculty-initiated grade (for example, if student appears on class roster but never attends class). This grade is not computed in the grade point average and cannot be changed.
Z†	**In-Progress:** Student is currently in progress toward the attainment of course objectives. Used only for continuous enrollment courses. Time limit for removal of "Z" grade is determined by the instructor, but not to exceed four quarters following the quarter in which the grade was issued. Instructor may convert "Z" to "0.0" or allow it to remain as "Z" if the student has not completed work by completion deadline.
Y†	**In-Progress:** Student is currently in progress toward the attainment of course objectives. Used only for continuous enrollment courses. Students must re-register for the course to complete course objectives. Grade cannot be changed.
P/NP†	**Pass/No Pass:** Not computed in GPA. (See next column.)
R†	**Repeated Course:** The "R" shows beside the lower grade received and only the higher of the two grades is computed in the GPA. (See "Repeating a Course," next column.)

†Not computed in GPA

GRADE POINT AVERAGE (GPA)

Grade point averages are calculated by dividing the grade points by the credit hours completed.

EXAMPLE

HIST& 156	5 credits x 2.2 (grade) =	11.0 grade points
PSYC& 100	5 credits x 3.7 (grade) =	18.5 grade points
MATH& 107	5 credits x 2.6 (grade) =	13.0 grade points
COLLG 110	3 credits x 3.8 (grade) =	11.4 grade points
Total	**18 credits**	**53.9 grade points**

53.9 grade points divided by 18.0 credits = 2.99 GPA

GRADE CHANGES

Grade changes should occur only when a legitimate error has been made in computing, reporting or recording a grade, or when a temporary grade (such as "I" Incomplete or "Z" In-Progress) needs to be changed to a permanent grade. Grade changes are reported to the records office on a Grade Change Form, signed and submitted by the instructor who issued the original grade or, under special circumstances, by the appropriate division chair, if the faculty member cannot be contacted.

Grade changes will be accepted and posted to a student record up to four quarters (including summer) following the quarter in which the original grade was issued. This time limitation applies to "I" and "Z" grades as well as other grades. Exceptions to the four-quarter time limit may be made only in cases of documented grading errors.

Questions about grades should be directed to the appropriate instructor immediately. When one year has elapsed from the time the grade was issued, it will become a permanent part of the student's record.

PASS/NO PASS

Students may take courses for pass/no pass credit if the courses are not in the student's field of major or in the required distribution of credits for Pierce College's degrees. Pass grades may only be used as general elective credit for AA-DTA and AS-T degrees. Courses which are prerequisites for other courses should not be taken pass/no pass.

The student and instructor must sign a pass/no pass Contract by the last instructional day of the quarter. Pass/no pass grades are not computed in the GPA. No credit is attached to a no pass grade. NP is assigned when minimum standards of the class are not met.

Students may withdraw from a class being taken pass/no pass by following the same procedures as for any other class.

REPEATING A COURSE

Students may repeat a course to improve their grades. However, both grades will remain on the transcript. For graduation purposes, only the higher of the two grades will be computed in the GPA. Students are advised to contact the registration/records office after completing the repeated courses so the transcript can be updated.

Students planning to transfer should be aware that the policies of other colleges and universities vary as to which of the grades is used in computing the GPA.

AUDITING A COURSE

To audit a class, a student must register, pay tuition and attend class regularly, but will not need to take examinations and will not receive credit for the course. Most classes offered by the college are open to audit. A student may change from credit to audit or audit to credit through the 10th day (eighth day in summer quarter) of the instructional quarter with permission of the instructor. Check the quarterly eSchedule for the specific date each quarter.

COOPERATIVE EDUCATION

Pierce College's cooperative education program is designed to promote individual career development and self-awareness by combining classroom theory with planned and supervised work experience in vocational, academic or cultural activities outside the classroom. The goal of cooperative work experience is to help students develop employable skills — that is, personal attributes and skills that make them an asset to an employer.

Credits earned through cooperative work experience may apply only as general elective credit for AA and AS degrees. For additional information, contact a faculty advisor or the cooperative education coordinator in the advising center at either college. Credits vary with the number of hours worked and the frequency of conferences/seminars held with the faculty member.

INDEPENDENT STUDY

Independent study is a contract established between the student and an instructor for in-depth work in a particular area of interest. The bulk of responsibility for the study, research and completion of the course rests with the student. The instructor provides guidance and final evaluation.

Students seeking independent study, once they find an instructor willing to enter the contract, must file four copies of the contract: one with the registrar, one with the instructor, one with the division chair, and one in the student's own records.

Tuition for independent study is consistent with regular tuition rates. A maximum of five credits per class may be carried through independent study during a quarter. Credits earned through independent study may be used only in the general elective category of the AA-DTA and AS-T degrees. A maximum of 15 independent study credits may apply toward any professional/technical degree or certificate. Independent study classes cannot be titled the same as an existing course.

FINAL EXAMINATIONS

A final examination is part of most courses. Students are required to take final examinations when scheduled in order to receive credit for courses.

GRADE REPORT

Quarterly grades are accessible via the Pierce College website (www.pierce.ctc.edu — Student Online Services) or student kiosks located at each college. Grades will be withheld if students have a financial obligation to the college, which may include loans, fines or delinquent fees.

Questions about grades should be directed to the appropriate instructor immediately. Grades will become a permanent part of a student's record when one year (four quarters) has elapsed from the time the grade was issued.

ACADEMIC STANDARDS

Academic standards are established to identify and intervene with students who are having academic difficulty and/or are not making satisfactory academic progress; to encourage students to assume responsibility for their own formal education; and to ensure that the resources of the college are used in the best interest of all of its current and potential students. Procedures are established in accordance with the Pierce College Academic Standards Policy (3.07.0000).

ACADEMIC HONORS

Students earning a 3.5-3.89 cumulative college level grade point average for 12 or more credits for any quarter will be placed on the Dean's List.

Students who earn a 3.9-4.0 cumulative college level grade point average for 12 or more credits for any quarter will be placed on the President's List.

Graduating with a cumulative college level grade point average of 3.5 or higher for all work (Pierce College and any credits transferred toward a degree or certificate program) with a minimum of 25 credits earned at Pierce College qualifies a student as an honors graduate.

Because the annual commencement program is printed prior to the end of spring quarter, honors notations in the program are based on a student's Pierce College transcript through winter quarter and do not include transfer credits.

ACADEMIC DEFICIENCY

Students who enroll in five or more credits and fail to earn a 2.0 grade point average for the quarter will be considered academically deficient. Students will be notified via their Pierce College Gmail account of their status and given information about available resources and possible interventions to support their success.

Students who remain academically deficient for three consecutive quarters will be placed on a dismissal status and given an opportunity to appeal. Students who choose not to appeal will be dismissed for four quarters.

GRADE FORGIVENESS POLICY

The purpose of this policy is to give students who wish to continue their education at Pierce a "fresh start" from previous grades that are detrimental to their present and future educational endeavors.

A student who desires to apply for grade forgiveness must meet the following criteria:

- Not have been enrolled in credit courses in the Pierce College District for a minimum of 12 consecutive quarters (stop-out period) prior to re-enrollment.
- Be currently enrolled in the Pierce College District.
- After the stop-out period, enrolled students must have completed two or more quarters and have earned a minimum of 24 credits from the Pierce College District.
- Earn a minimum GPA of 2.0 for each quarter upon return.
- Courses being petitioned cannot have been used towards a previously earned degree or certificate.
- A student may petition for grade forgiveness one time only.

If the petition is approved, grades and credits for the designated quarter shall be forgiven. Students have an option to have the designated quarter only or the designated quarter and all previous quarters forgiven if so requested at the time of the original petition.

The original grade(s) will remain on the transcript. The forgiven grades will no longer be calculated into Pierce College's GPA.

All amendments to a student's transcript shall be made by the registrar's office. If a petition is approved, an adjusted copy with an appropriate indicator of the forgiven grade(s) shall be sent to the student's address of record. Grades forgiven through this Pierce College policy may not be applicable to the transferability of courses to any other college or university.

The student will complete the petition and submit it to the registration office at each college or military site at Joint Base Lewis-McChord. All petitions will be processed through the Office of the Registrar, Fort Steilacoom. For an application or further information, please contact the registration office at either college at Fort Steilacoom at (253) 964-6622 or at Puyallup at (253) 840-8401.

ACADEMIC DISHONESTY

If a student uses another person's ideas, words, music, artwork, computations, models, etc., in such a manner as to imply that the thing used was their own; if a student uses notes, texts or memory aids during tests when such use was not expressly authorized; if a student steals or knowingly uses test master copies to gain information prior to an examination date; if a student knowingly allows another person to use their work as if it were that other person's work; if a student otherwise acts in such a manner as to gain for themself or another an unfair advantage over other students, they may face disciplinary actions as stated in the Student Rights and Responsibilities Policy/Code of Conduct.

Graduation

To graduate with a degree or certificate from Pierce College, at least 25 of the last 45 credits must be earned at Pierce College (SOCAD students exempted). Certificates between 21- 44 credits require that at least one-half of the credits be earned at Pierce College. All coursework must be completed at Pierce College for short-term programs and certificates of 20 credits or less. Students must have a cumulative college-level grade point average of 2.0 or higher for all degrees and/or certificates; this includes the entire Pierce College transcript and any credits accepted toward a program from other institutions.

Students are advised to apply for graduation by submitting a Degree/Diploma Application at least two quarters prior to the quarter in which they intend to complete their requirements. This allows time to have the application processed and the results of the official evaluation to be mailed in time to register for remaining requirements.

Students are responsible for meeting the requirements of the particular degree toward which they are working. Once a letter is received from the evaluations office, it is the student's responsibility to follow the program requirements and make appropriate course selections. Students should report any discrepancies to the evaluations office immediately upon receipt of their letter. Once the letter is received, it is not necessary to submit another Degree and Diploma Application Form to the evaluations office unless a student stops attending for one year or more. If a student does not attend for more than one year or four quarters, their file is placed into "graduation pending" and the student will need to reapply for graduation to have their graduation status reactivated.

For more information about graduation evaluations, please contact the evaluations office at (253) 964-6678 or by e-mail at evaluations@pierce.ctc.edu. Students attending the military campuses should check with the appropriate campus for their graduation evaluation procedure and commencement ceremony information.

COMMENCEMENT CEREMONY

www.pierce.ctc.edu/dist/graduation/commencement

The commencement ceremony is held annually in June for all students who have completed graduation requirements during that academic year and those who are projected to complete spring and summer quarters. Students and their families are encouraged to participate in this special occasion. Participation in the commencement ceremony does not imply that a degree has been awarded. Students must meet all degree or certificate requirements before a degree or certificate is awarded. All diplomas are mailed from the evaluations office after grades have been verified. The posting and mailing process normally takes 10-12 weeks after the end of the quarter.

Records/Transcripts

NOTICE OF CHANGE — NAME, ADDRESS, OTHER

Students should promptly report a change of name, address or other information to the registration office by completing a Personal Data Change Form or using the Pierce College website (www.pierce.ctc.edu — Student Online Services). To change a name, the student must provide specific evidence showing that their name has officially changed. For more information, contact the registration office at either college.

TRANSCRIPTS

PIERCE COLLEGE TRANSCRIPTS

A transcript is a copy of a student's educational record. Upon written request, the college will release transcripts of work completed at Pierce.

Transcripts are released only if a student has met all financial obligations to the college and if they have signed an authorization for release of the records. Transcript request forms are available at either college, sites within the Pierce College District, or on Pierce College's website (www.pierce.ctc.edu). Requests may be submitted via mail or fax. The fax number is (253) 964-6427. For recorded instructions, call (253) 964-6787.

TRANSCRIPTS FROM OTHER INSTITUTIONS

All transcripts forwarded to Pierce College from other institutions become the property of the college and cannot be returned to the student, or copied or forwarded to a third party. To have credits from another institution officially transferred to Pierce, a student must complete a Transfer Credit Evaluation Form. See "Transferring Credits to Pierce College" in the Getting Started section of this catalog for more information.

Student Rights and Responsibilities / Code of Conduct

http://www.pierce.ctc.edu/about/policy/studentrr

Students are encouraged, through free inquiry and free expression, to develop their capacity for critical judgment and to engage in a sustained and independent search for knowledge. The freedom to learn depends upon appropriate opportunities and conditions in the classroom, on the campus, and in the larger community. Students should exercise their freedom with responsibility.

The student is in the unique position of being a member of the community at large, having the rights and responsibilities of any citizen, and of being a member of the college community. Admission to Pierce College carries with it the expectations that students shall conduct themselves as responsible members of the Pierce College community, observe the standards of conduct, respect the rights, privileges and property of other members of the academic community, maintain a high standard of integrity and honesty, and not interfere with legitimate college business appropriate to the pursuit of academic goals.

The student's success is dependent on the district fostering a positive district-wide climate that supports learning, communication, recognition and collaboration among a diverse faculty, staff and student body.

As an agency of the state of Washington, Pierce College must respect and adhere to all laws established by local, state and federal authorities. Pierce College also has developed a set of rules and regulations to ensure the orderly conduct of the affairs of the district. These rules and regulations, if violated, may result in student discipline in accordance with the procedures established in the student code of conduct.

The Student Rights and Responsibilities/Student Code of Conduct Policy is available online at www.pierce.ctc.edu. Copies are also available in the offices of the vice presidents of learning and student success at each college, the Student Life office, and in the office of the judicial affairs advisor.

STUDENT GRIEVANCES

http://www.pierce.ctc.edu/about/policy/grievance

Procedures have been established for both informal and formal resolution of a student's grievance relating to an action by an employee of the college. If the grievance cannot be resolved informally, it can be pursued formally. The services of the college ombudsman are also available to students in pursuing grievances.

Generally, the informal procedures for most grievances begin with the student attempting to resolve the matter with the faculty or staff member through direct discussion. If this effort fails to resolve the issue to the student's satisfaction, he/she may request, in writing, a meeting with the appropriate division chair, supervisor or site director. The division chair, supervisor or site director will investigate and take appropriate actions to facilitate a prompt and fair resolution. If the recommendation for resolution set forth by the division chair, supervisor or site director is not satisfactory to the student, he/she may request a formal hearing before the Grievance Review Committee.

The Student Grievance Procedure is available on the Pierce College website at www.pierce.ctc.edu. Copies of the procedure are also available in the offices of the vice presidents, division offices, the judicial affairs office, and the student programs offices at each college.

FINAL COURSE GRADE APPEAL

http://www.pierce.ctc.edu/about/policy/ref/files/grade_appeal-1-19-2011.pdf

http://www.pierce.ctc.edu/about/policy/ref/files/grade_appeal_petition.doc

Procedures are established for a student to appeal a final grade. Students who believe they have been awarded final course grades improperly by members of the faculty may appeal those grades. Only final course grades may be appealed. The grade appeal process encompasses informal, formal and appeal steps. Formal grade appeals must be initiated by a student within 30 instructional days, not including summer quarter instructional days, following the official posting of the grade by the college to the student's academic record.

The grade appeal procedure is available on the Pierce College website at www.pierce.ctc.edu. Copies of the procedure are also available in the office of the vice presidents, division offices, the judicial affairs office , and the student programs offices at each college and the office of the assistant director of instruction at the JBLM military site.

STUDENT RIGHTS

STUDENT RIGHTS FOR EQUAL OPPORTUNITY/NOTICE OF NONDISCRIMINATION

The Pierce College District does not discriminate on the basis of race, color, national origin, sex, sexual orientation, disability, or age in its programs and activities. All college personnel and persons, vendors and organizations with whom the college does business are required to comply with all applicable federal and state statutes and regulations designed to promote affirmative action and equal opportunity.

The following persons have been designated to handle inquiries regarding compliance with the non-discrimination policy as it relates to district programs and activities:

Pierce College Fort Steilacoom
Vice President for Learning and Student Success

Pierce College Puyallup
Vice President for Learning and Student Success

NOTIFICATION OF STUDENTS' RIGHTS UNDER THE FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT (FERPA)

Pierce College has adopted procedures in compliance with the Family Educational Rights and Privacy Act (FERPA), as amended, and maintains confidentiality of student records. FERPA is a federal law that protects the privacy of student educational records and affords students certain rights with respect to their educational records. Students have the right to:

1. Inspect and review their education records within 45 days of the date the college receives a written request for access. Students should submit a written request to the registrar that identifies the record(s) they wish to inspect. The registrar will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the registrar, the student will be advised of the correct official to whom the request should be addressed.
2. Request the amendment of the education records that the student believes are inaccurate or misleading. Students may ask the college to amend a record that they believe is inaccurate or misleading. They should write to the college official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading. If the college decides not to amend the record as requested by the student, the college will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
3. Consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. With few exceptions (stated below), no one will have access to student records without the written consent of the student. Pierce College will not release a student's record to a parent/guardian without the student's written permission. Such a policy is in effect regardless of the student's age or financial dependency upon the parent/guardian.

   Exceptions which permit disclosure without written consent include:

   a) Disclosure of those items the college designated as directory information. Pierce College designates the following items as directory information: name, dates of enrollment, degrees, awards and honors received, enrollment status, date of birth, participation in officially recognized activities and sports, and the weight and height of members of athletic teams. A student's directory information may be disclosed unless a student files a Request for Non-Disclosure of Directory Information Form with the registration office by the 10th day of the quarter (eighth day for summer quarter). Requests submitted after the deadline will be honored; however, disclosure of directory information may have occurred.

   b) Disclosure to school officials with legitimate educational interests. A school official is defined as a person employed by the college in an administrative, supervisory, academic, or support staff position (including law enforcement unit); a person or company with whom the college has contracted (such as the National Student Clearinghouse, an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility.

   c) Disclosure of education records to officials of another school in which a student seeks or intends to enroll.

   d) Other disclosures permissible without written consent include disclosure to: comply with a judicial order lawfully issued subpoena; specified officials for audit or evaluation purposes; appropriate parties in connection with financial aid to a student; organizations conducting certain studies on behalf of the college; accrediting organizations; appropriate officials in cases of health and safety emergencies; state and local authorities, within a juvenile justice system, pursuant to a specific state law; victims of certain offenses, the final results of a disciplinary proceeding regardless of the outcome; anyone in the final result of a campus disciplinary proceeding in which a violation of certain offenses occurred; parents of a student under age 21 who violates drug or alcohol laws or policies; and in connection with an emergency such as suicide risk, to appropriate persons if the knowledge of such information is necessary to protect the health and safety of the student or other persons.

Pursuant to the Solomon Amendment, Pierce College is required to provide some or all of the following information, upon request, to representatives of the Department of Defense for military recruiting purposes: student's name, address, telephone listing, date of birth (17 years or older), level of education, and academic major (for currently enrolled students only).

4. File a complaint with the U.S. Department of Education concerning alleged failures by the college to comply with the requirements of FERPA at the following address: Family Policy Compliance Office, U.S. Department of Education, 600 Independence Avenue SW, Washington, D.C. 20202-4605.

Further information and a copy of the complete FERPA policy is available at the registration office at either college.

ALCOHOL/DRUG-FREE ENVIRONMENT

Pierce College intends to provide a healthful, safe and secure environment and has adopted and implemented a policy and program to prevent the unlawful possession, use or distribution of illicit drugs or alcohol by students and employees. The policy and prevention program is in concert with the Drug Free Workplace Act of 1988 and the Drug-Free Schools and Communities Act Amendments of 1989. The unlawful possession, illegal manufacturing, use or distribution of illicit drugs or alcohol is prohibited. Any violation of this policy may be reason for disciplinary action in accordance with the Pierce College Students Rights and Responsibilities/Student Code of Conduct Policy (WAC 132K-125-170 (16,17,18)).

Pierce College recognizes drug and alcohol use and/or dependency to be a health, safety and security problem. The use of illicit drugs and the abuse of alcohol may result in numerous physiological, psychological and sociological disorders. College and community resources are available to assist students and employees with problems related to alcohol and other substance abuse. Persons who need assistance with problems related to drug or alcohol abuse are encouraged to use appropriate support agencies. A listing of support agencies is available in the Student Development Center at Fort Steilacoom and the Advising Center at Puyallup.

SEXUAL HARASSMENT POLICY

It is the policy of Pierce College to provide an environment in which people can work and study free from sexual harassment or sexual intimidation. Sexual harassment occurs in a context of unequal power and is a form of sexual discrimination. As such, it is a violation of Title VII of the 1964 Civil Rights Act and Title IX of the 1972 Education Amendments.

Sexual harassment of or by a student is defined as unwelcome sexual advances, requests for sexual favors, or other verbal or physical conduct of a sexual nature, when:

- submission to the conduct is either explicitly or implicitly a term or condition of the student's academic standing;
- submission to or rejection of such conduct by a student is used as the basis for academic discussions affecting that student; and/or
- such conduct has the purpose or effect of unreasonably interfering with a student's work or academic performance or of creating an intimidating, hostile or offensive environment.

Student complaints regarding possible sexually harassing conduct should be taken to the office of the Vice President for Learning and Student Success at each college or to the Executive Vice President for Extended Learning for the sites. For complaints against Pierce College employees, appropriate action will be taken in accordance with the Pierce College Preventing Sexual Harassment Policy (1.17.0000) and related procedures. For complaints against another student, appropriate action will be taken in accordance with the Pierce College Student Rights and Responsibilities/Student Code of Conduct Policy (WAC 132K-126) and related procedures.

CRIME STATISTICS REPORTING

The Pierce College District, in accordance with the Jeanne Clery Act, provides crime statistics for the three most recent calendar years. These statistics are available online at www.pierce.ctc.edu/Safety/reports.html, as well as from the campus safety office at either college.

Transfer Rights and Responsibilities

STUDENT RIGHTS AND RESPONSIBILITIES

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

COLLEGE AND UNIVERSITY RIGHTS AND RESPONSIBILITIES

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

PROGRAMS OF STUDY

Begin a Career

Start Working on a Four-year Degree

Obtain Professional Certifications or a High School Diploma, or Upgrade Basic Skills

The Possibilities are Many; the Path, Yours.

- Common Course Numbering
- Degree and Certificate Requirements
- Degree Outcomes
- University Transfer Degrees
- Professional/Technical Degrees and Certificates

Common Course Numbering (CCN)

Common Course Numbering (CCN) is a way to more easily identify the same course at different community and technical colleges in Washington. Courses that are commonly shared among these colleges have identical designations. Courses identified as "common" between community and technical colleges are denoted with an ampersand (&) next to the department and course number. (Example: MATH& 141)

Students who have taken any Pierce classes before summer quarter 2008 must check the Pierce CCN Crosswalk to ensure they do not enroll in the same course twice as a result of new course number or title changes. Courses that are repeated cannot be counted twice for a degree or certificate. (Example: In 2006, LAW 205 was American Legal Systems. LAW 205 has now changed to POLS& 200, Intro to Law. If a student takes POLS& 200 in summer 2008 and LAW 205 in 2006, they would have repeated the class and only one can be used towards graduation.)

CCN does not affect how courses transfer to four-year colleges and universities. Common course numbers, departments and titles were changed to simplify transferring between community and technical colleges. Courses that have traditionally transferred to four-year colleges and universities still transfer under the Direct Transfer Agreement. It is recommended that students check with the receiving institution, as the transferability of individual courses is the sole prerogative of the receiving school.

Student transcripts will contain a statement that alerts others to the Washington state common course number change.

Please contact the advising center at either college or a faculty advisor, or go online to www.pierce.ctc.edu/go/ccn for additional information.

COMMON COURSE NUMBERING CROSSWALK

OLD COURSE NO./TITLE *(PRIOR TO SUMMER 2008)*		**NEW** COURSE NO./TITLE *(EFFECTIVE SUMMER 2008)*	
ALCDA	**ALCOHOLISM & DRUG ABUSE**	**ALCDA**	**ALCOHOLISM & DRUG ABUSE**
ALCDA 111	INTRO TO CHEM DEPENDENCY AND PHYS ACTIONS	HSSA& 101	INTRO TO ADDICTIVE DRUGS
ANTHR	**ANTHROPOLOGY**	**ANTH**	**ANTHROPOLOGY**
ANTHR 104	AMER MOSAIC: CULT OF US	ANTH& 106	AMERICAN MOSAIC
ANTHR 105	WORLD PREHISTORY	ANTH& 104	WORLD PREHISTORY
ANTHR 106	ARCHAEOLOGY OF ANCIENT CIVILIZATIONS	ANTH 107	ARCHAEOLOGY OF ANCIENT CIVILIZATIONS
ANTHR 110	SURVEY OF ANTHROPOLOGY	ANTH& 100	SURVEY OF ANTHROPOLOGY
ANTHR 210	PHYSICAL ANTHROPOLOGY	ANTH& 205	BIOLOGICAL ANTHROPOLOGY
ANTHR 215	FORENSIC ANTHROPOLOGY	ANTH& 236	FORENSIC ANTHROPOLOGY
ANTHR 220	SOCIAL ANTHROPOLOGY	ANTH& 206	CULTURAL ANTHROPOLOGY
ANTHR 230	FUND OF ARCHAEOLOGY	ANTH& 204	ARCHAEOLOGY
ANTHR 240	WOMEN IN CROSS CULTURAL PERSPECTIVES	ANTH 240	WOMEN IN CROSS CULTURAL PERSPECTIVES
ANTHR 250	NATIVE PEOPLES OF NORTH AMERICA	ANTH& 210	INDIANS OF NORTH AMERICA
ANTHR 260	NORTHWEST COAST INDIANS	ANTH& 216	NORTHWEST COAST INDIANS
ART	**ART**	**ART**	**ART**
ART 100	INTRODUCTION TO ART	ART 105	INTRODUCTION TO ART
ART 110	ART APPRECIATION	ART& 100	ART APPRECIATION
ASTR	**ASTRONOMY**	**ASTR**	**ASTRONOMY**
ASTR 100	INTRO TO ASTRONOMY	ASTR& 100	SURVEY OF ASTRONOMY
ASTR 101	ASTRONOMY	ASTR& 101	INTRO TO ASTRONOMY
ASTR 115	SURVEY OF ASTROBIOLOGY	ASTR 105	SURVEY OF ASTROBIOLOGY
ASTR 140	INTRO TO THE COSMOS	ASTR& 115	STARS, GALAXIES & COSMOS
ASTR 150	INTRO TO SOLAR SYSTEM	ASTR& 110	THE SOLAR SYSTEM
BIOL	**BIOLOGY**	**BIOL**	**BIOLOGY**
BIOL 100	BIO FOR NON SCI MAJORS	BIOL& 100	SURVEY OF BIOLOGY
BIOL 101	GENERAL BIOLOGY	BIOL& 160	GENERAL BIOLOGY W/LAB
BIOL 118	HUMAN ANATOMY & PHYS FOR NON-SCI MJRS	BIOL& 170	HUMAN BIOLOGY
BIOL 120	HUMAN ANATOMY & PHYS W/LAB FOR NON-SCI MJRS	BIOL& 175	HUMAN BIOLOGY W/LAB
BIOL 201	PRINC OF BIOLOGY I: CELLULAR	BIOL& 211	MAJORS CELLULAR
BIOL 202	PRINCIPLES OF BIOLOGY II: ZOOLOGY	BIOL& 212	MAJORS ANIMAL
BIOL 203	PRINCIPLES OF BIOLOGY III: BOTANY	BIOL& 213	MAJORS PLANT
BIOL 240*	ANATOMY & PHYSIOLOGY I LECT	BIOL& 241	HUMAN A & P 1
BIOL 250*	ANATOMY & PHYSIOLOGY II LECT	BIOL & 242	HUMAN A & P 2

* Note: BIOL 240/241 and 250/251 are no longer separate lecture/lab courses: lab hours are now incorporated into the new common course numbers.

BUS	**BUSINESS**	**BUS**	**BUSINESS**
BUS 101	BUSINESS & SOCIETY	BUS& 101	INTRO TO BUSINESS
BUS 210	PRINCIPLES OF FINANCIAL ACCNT I	ACCT& 201	PRINCIPLES OF ACCOUNTING I
BUS 220	PRINCIPLES OF FINANCIAL ACCNT II	ACCT& 202	PRINCIPLES OF ACCOUNTING II
BUS 230	PRINCIPLES OF MANAGERIAL ACCNT	ACCT& 203	PRINCIPLES OF ACCOUNTING III
CHEM	**CHEMISTRY**	**CHEM**	**CHEMISTRY**
CHEM 100	BASIC CHEMISTRY	CHEM& 100	PREPARATORY CHEMISTRY
CHEM 101	INTRO INORGANIC CHEMISTRY	CHEM& 121	INTRO TO CHEMISTRY
CHEM 102	INTRO ORGANIC AND BIOCHEMISTRY	CHEM& 131	INTRO TO ORGANIC/BIOCHEMISTRY
CHEM 105	CHEMISTRY FOR NON-SCIENTISTS	CHEM& 110	CHEMICAL CONCEPTS W/ LAB
CHEM 139	PREP GENERAL CHEMISTRY	CHEM& 139	GENERAL CHEMISTRY PREP
CHEM 140	GENERAL CHEMISTRY	CHEM& 161	GENERAL CHEMISTRY W/LAB I
CHEM 150	GENERAL CHEMISTRY	CHEM& 162	GENERAL CHEMISTRY W/LAB II
CHEM 160	GENERAL CHEMISTRY	CHEM& 163	GENERAL CHEMISTRY W/LAB III
CHEM 220	ORGANIC CHEMISTRY I	CHEM& 261	ORGANIC CHEMISTRY W/LAB I
CHEM 221	ORGANIC CHEMISTRY II	CHEM& 262	ORGANIC CHEMISTRY W/LAB II
CHEM 222	ORGANIC CHEMISTRY III	CHEM& 263	ORGANIC CHEMISTRY W/LAB III
CHNSE	**CHINESE**	**CHIN**	**CHINESE (LISTED UNDER WORLD LANGUAGES)**
CHNSE 101	ELEMENTARY CHINESE I	CHIN& 121	CHINESE I
CHNSE 102	ELEMENTARY CHINESE II	CHIN& 122	CHINESE II
CHNSE 103	ELEMENTARY CHINESE III	CHIN& 123	CHINESE III

COMMON COURSE NUMBERING CROSSWALK

OLD COURSE NO./TITLE *(PRIOR TO SUMMER 2008)*		**NEW** COURSE NO./TITLE *(EFFECTIVE SUMMER 2008)*	
CIS	**COMPUTER INFORMATION SYSTEMS**	**CS**	**COMPUTER SCIENCE**
CIS 201B	COMPUTER SCIENCE I-C++	CS& 131	COMPUTER SCIENCE I-C++
CIS 201C	COMPUTER SCIENCE I-JAVA	CS& 141	COMPUTER SCIENCE I-JAVA
CJ	**CRIMINAL JUSTICE**	**CJ**	**CRIMINAL JUSTICE**
CJ 101	COMMUNITY PARTNER PROGRAM	CJ 126	COMMUNITY PARTNER PROGRAM
CJ 105	INTRO TO CRIMINAL LAW	CJ 102	INTRO TO CRIMINAL LAW
CJ 110	CRIMINAL JUSTICE IN AMERICA	CJ 112	CRIMINAL JUSTICE IN AMERICA
ECON	**ECONOMICS**	**ECON**	**ECONOMICS**
ECON 212	MICRO ECONOMICS	ECON& 201	MICRO ECONOMICS
ECON 213	MACRO ECONOMICS	ECON& 202	MACRO ECONOMICS
EDUC	**EDUCATION**	**EDUC**	**EDUCATION**
EDUC 201	INTRO TO EDUCATION	EDUC& 202	INTRO TO EDUCATION
EDUC 202	EDUCATION PRACTICUM	EDUC 190	EDUCATION PRACTICUM
EDUC 215	ED EXCEPTIONAL STUDENTS	EDUC& 204	EXCEPTIONAL CHILD
* Note: PARED 215 deleted — no longer dual with EDUC 215.			
ENGL	**ENGLISH**	**ENGL**	**ENGLISH**
ENGL 101	COMPOSITION — EXPOSITION	ENGL& 101	ENGLISH COMPOSITION I
ENGL 102	COMPOSITION — WRITING ABOUT LITERATURE	ENGL 107	COMPOSITION — WRITING ABOUT LITERATURE
ENGL 111	TECHNICAL WRITING	ENGL& 235	TECHNICAL WRITING
ENGL 112	ENGLISH GRAMMAR	ENGL 140	ENGLISH GRAMMAR
ENGL 113	RESEARCH IN THE 21ST CENTURY	ENGL 145	RESEARCH IN THE 21ST CENTURY
ENGL 200	INTRO TO LITERATURE	ENGL& 111	INTRO TO LITERATURE
ENGL 201	INTRO TO FICTION	ENGL& 112	INTRO TO FICTION
ENGL 202	INTRO TO DRAMA	ENGL& 114	INTRO TO DRAMATIC LIT
ENGL 203	INTRO TO POETRY	ENGL& 113	INTRO TO POETRY
ENGL 211	BRITISH LIT: 800-1660	ENGL& 226	BRITISH LITERATURE I
ENGL 212	BRITISH LIT: 1660-1832	ENGL& 227	BRITISH LITERATURE II
ENGL 213	BRITISH LIT: 1832-PRESENT	ENGL& 228	BRITSH LITERATURE III
ENGL 220	LIT OF U.S. SLAVERY/ABOLITION	ENGL 264	LITERATURE OF U.S. SLAVERY/ABOLITION
ENGL 221	EARLY AMERICAN LIT	ENGL& 244	AMERICAN LITERATURE I
ENGL 222	AMERICAN LITERATURE: MID 19 TO WWI	ENGL& 245	AMERICAN LITERATURE II
ENGL 223	AMERICAN LIT 20TH TO PRESENT	ENGL& 246	AMERICAN LITERATURE III
ENGL 224	AMERICAN LIT-HUMOR/SATIRE	ENGL 265	AMERICAN LIT-HUMOR/SATIRE
ENGL 230	WOMEN WRITERS-INTERNATIONAL MOSAIC	ENGL 266	WOMEN WRITERS-INTERNATIONAL MOSAIC
ENGL 231	WRITING FICTION, POETRY, DRAMA	ENGL& 236	CREATIVE WRITING I
ENGL 232	CREATIVE SHORT STORIES	ENGL& 237	CREATIVE WRITING II
ENGL 233	CREATIVE POETRY	ENGL& 238	CREATIVE WRITING III
ENGL 234	INTRO TO SHAKESPEARE	ENGL& 220	INTRO TO SHAKESPEARE
ENGL 245	CREATIVE WRITING, SPECIAL TOPICS	ENGL 249	CREATIVE WRITING, SPECIAL TOPICS
ENGR	**ENGINEERING**	**ENGR**	**ENGINEERING**
ENGR 110	ENGINEERING GRAPHICS	ENGR& 114	ENGINEERING GRAPHICS
ENGR 210	STATICS	ENGR& 214	STATICS
ENGR 230	DYNAMICS	ENGR& 215	DYNAMICS
ENGR 240	MECHANICS OF MATERIALS	ENGR& 225	MECHANICS OF MATERIALS
ENGR 260	THERMODYNAMICS	ENGR& 224	THERMODYNAMICS
ENVIR	**ENVIRONMENTAL SCIENCE**	**ENVS**	**ENVIRONMENTAL SCIENCE**
ENVIR 101	ESSENTIALS OF ENVIRONMENTAL SCIENCE	ENVS& 100	SURVEY OF ENVIRONMENTAL SCIENCE
ENVIR 105	DELETED – NO LONGER DUAL WITH GEOL 105		
FRNCH	**FRENCH**	**FRCH (LISTED UNDER WORLD LANGUAGES)**	
FRNCH 101	ELEMENTARY FRENCH I	FRCH& 121	FRENCH I
FRNCH 102	ELEMENTARY FRENCH II	FRCH& 122	FRENCH II
FRNCH 103	ELEMENTARY FRENCH III	FRCH& 123	FRENCH III
FRNCH 201	INTERMEDIATE FRENCH I	FRCH& 221	FRENCH IV
FRNCH 202	INTERMEDIATE FRENCH II	FRCH& 222	FRENCH V
FRNCH 203	INTERMEDIATE FRENCH III	FRCH& 223	FRENCH VI
GEOL	**GEOLOGY**	**GEOL**	**GEOLOGY**
GEOL 100	EARTH SYSTEMS SCIENCE	GEOL 107	EARTH SYSTEMS SCIENCE
GEOL 101	PHYSICAL GEOLOGY	GEOL& 101	INTRO PHYSICAL GEOLOGY
GEOL 103	EARTH HISTORY	GEOL& 103	HISTORICAL GEOLOGY
GEOL 105	ENVIRONMENTAL GEOLOGY	GEOL& 110	ENVIRONMENTAL GEOLOGY
GEOL 120	GEOLOGY OF NATIONAL PARKS	GEOL& 115	GEOLOGY NATIONAL PARKS
GEOL 208	GEOLOGIC DEVELOPMENT OF THE PACIFIC NORTHWEST	GEOL& 208	GEOLOGY OF PACIFIC NW
GEOL 282	VOLCANOES AND HAZARDS	GEOL& 120	VOLCANOES
GERMN	**GERMAN**	**GERM**	**GERMAN (LISTED UNDER WORLD LANGUAGES)**
GERMN 101	ELEMENTARY GERMAN I	GERM& 121	GERMAN I
GERMN 102	ELEMENTARY GERMAN II	GERM& 122	GERMAN II
GERMN 103	ELEMENTARY GERMAN III	GERM& 123	GERMAN III
GERMN 201	INTERMEDIATE GERMAN I	GERM& 221	GERMAN IV
GERMN 202	INTERMEDIATE GERMAN II	GERM& 222	GERMAN V
GERMN 203	INTERMEDIATE GERMAN III	GERM& 223	GERMAN VI
HIST	**HISTORY**	**HIST**	**HISTORY**
HIST 101	HISTORY OF CIVILIZATIONS I	HIST& 126	WORLD CIVILIZATIONS I
HIST 102	HISTORY OF CIVILIZATIONS II	HIST& 127	WORLD CIVILIZATIONS II
HIST 103	HISTORY OF CIVILIZATION III	HIST& 128	WORLD CIVILIZATIONS III
HIST 241	US HISTORY: COLONIAL TO 1840	HIST& 156	HISTORY OF US I
HIST 242	US HISTORY: 1840-1900	HIST& 157	HISTORY OF US II
HIST 243	US HISTORY: 1900-PRESENT	HIST& 158	HISTORY OF US III
HIST 244	US HISTORY: 1939-PRESENT	HIST& 159	HISTORY OF US IV
HIST 264	HISTORY OF PACIFIC NW	HIST& 214	PACIFIC NW HISTORY

COMMON COURSE NUMBERING CROSSWALK

OLD COURSE NO./TITLE *(PRIOR TO SUMMER 2008)*		**NEW** COURSE NO./TITLE *(EFFECTIVE SUMMER 2008)*	
HSCI	**HEALTH SCIENCE**	**NUTR**	**NUTRITION**
HSCI 161	HUMAN NUTRITION	NUTR& 101	NUTRITION
HUMAN	**HUMANITIES**	**HUM**	**HUMANITIES**
HUMAN 101	WESTERN THOUGHT AND CULTURE I	HUM& 116	HUMANITIES I
HUMAN 102	WESTERN THOUGHT AND CULTURE II	HUM& 117	HUMANITIES II
HUMAN 103	WESTERN THOUGHT AND CULTURE III	HUM& 118	HUMANITIES III
HUMAN 201	IDEAS IN HUMANITIES	HUM& 101	INTRO TO HUMANITIES
JOURN	**JOURNALISM**	**CMST**	**COMMUNICATION STUDIES**
JOURN 101	INTRO TO MASS MEDIA	CMST& 102	INTRO TO MASS MEDIA
JPNSE	**JAPANESE**	**JAPN**	**JAPANESE (LISTED UNDER WORLD LANGUAGES)**
JPNSE 101	ELEMENTARY JAPANESE I	JAPN& 121	JAPANESE I
JPNSE 102	ELEMENTARY JAPANESE II	JAPN& 122	JAPANESE II
JPNSE 103	ELEMENTARY JAPANESE III	JAPN& 123	JAPANESE III
KREAN	**KOREAN**	**KREA**	**KOREAN (LISTED UNDER WORLD LANGUAGES)**
KREAN 101	ELEMENTARY KOREAN I	KREA& 121	KOREAN I
KREAN 102	ELEMENTARY KOREAN II	KREA& 122	KOREAN II
KREAN 103	ELEMENTARY KOREAN III	KREA& 123	KOREAN III
KREAN 201	INTERMEDIATE KOREAN I	KREA& 221	KOREAN IV
KREAN 202	INTERMEDIATE KOREAN II	KREA& 222	KOREAN V
KREAN 203	INTERMEDIATE KOREAN III	KREA& 223	KOREAN VI
LAW	**LAW**	**POLS**	**POLITICAL SCIENCE**
LAW 205	AMERICAN LEGAL SYSTEM	POLS& 200	INTRODUCTION TO LAW
LAW	**LAW**	**BUS**	**BUSINESS**
LAW 206	BUSINESS LAW	BUS& 201	BUSINESS LAW
MATH	**MATHEMATICS**	**MATH**	**MATHEMATICS**
MATH 107	INTRO TO CONTEMPORARY MATH	MATH& 107	MATH IN SOCIETY
MATH 121	PRECALCULUS I	MATH& 141	PRECALCULUS I
MATH 122	PRECALCULUS II	MATH& 142	PRECALCULUS II
MATH 124	ANALYTIC GEOMETRY/CALCULUS I	MATH& 151	CALCULUS I
MATH 125	ANALYTIC GEOMETRY/CALCULUS II	MATH& 152	CALCULUS II
MATH 126	ANALYTIC GEOMETRY/CALCULUS III	MATH& 153	CALCULUS III
MATH 157	ELEMENTS OF CALCULUS	MATH& 148	BUSINESS CALCULUS
MATH 170	STRUC. FOR ELE. MATH. 1: NUMBER SYSTEMS	MATH& 171	MATH FOR ELEM EDUC I NUMBER SYSTEMS
MATH 171	STRUC. FOR ELE. MATH. 2: GEOMETRY & MEASUREMENT	MATH& 172	MATH FOR ELEM EDUC II GEOM. & MEASUREMENT
MATH 172	STRUC. FOR ELE. MATH. 3: STATISTICS & PROBABILITY	MATH& 173	MATH FOR ELEM EDUC III STATISTICS & PROBABILITY
MATH 281	INTRO TO STATISTICS	MATH& 146	INTRODUCTION TO STATISTICS
MICRO	**MICROBIOLOGY**	**MICRO**	**MICROBIOLOGY**
MICRO 201	GENERAL MICROBIOLOGY	BIOL& 260	MICROBIOLOGY
MUSIC	**MUSIC**	**MUSC**	**MUSIC**
MUSIC 101	INTRODUCTION TO MUSIC	MUSC& 105	MUSIC APPRECIATION
MUSIC 105	AMERICAN POPULAR MUSIC	MUSC 102	AMERICAN POPULAR MUSIC+
MUSIC 110	MUSIC THEORY I	MUSC& 141	MUSIC THEORY I
MUSIC 112	MUSIC THEORY II	MUSC& 142	MUSIC THEORY II
MUSIC 114	MUSIC THEORY III	MUSC& 143	MUSIC THEORY III
MUSIC 120	BEGINNING CLASS PIANO	MUSC 181	BEGINNING CLASS PIANO
MUSIC 121	INTERMEDIATE CLASS PIANO	MUSC 182	INTERMEDIATE CLASS PIANO
MUSIC 122	ADVANCED CLASS PIANO	MUSC 183	ADVANCED CLASS PIANO
MUSIC 130-139/230-239	PRIVATE INSTRUCTION - IMPROVISATION	MUSC 160-169/260-269	PRIVATE INSTRUCTION
MUSIC 210	MUSIC THEORY IV	MUSC& 241	MUSIC THEORY IV
MUSIC 212	MUSIC THEORY V	MUSC& 242	MUSIC THEORY V
MUSIC 214	MUSIC THEORY VI	MUSC& 243	MUSIC THEORY VI
OCEAN	**OCEANOGRAPHY**	**OCEA**	**OCEANOGRAPHY**
OCEAN 101	INTRO TO OCEANOGRAPHY	OCEA& 101	INTRO TO OCEANOGRAPHY
PHIL	**PHILOSOPHY**	**PHIL**	**PHILOSOPHY**
PHIL 100	INTRO TO PHILOSOPHY	PHIL& 101	INTRO TO PHILOSOPHY
PHIL 120	INTRO TO LOGIC	PHIL& 106	INTRO TO LOGIC
PHYS	**PHYSICS**	**PHYS**	**PHYSICS**
PHYS 101	SURVEY OF PHYSICS	PHYS& 100	PHYSICS FOR NON-SCIENCE MAJORS
PHYS 114	GENERAL PHYSICS I	PHYS& 121	GENERAL PHYSICS I
PHYS 115	GENERAL PHYSICS II	PHYS& 122	GENERAL PHYSICS II
PHYS 116	GENERAL PHYSICS III	PHYS& 123	GENERAL PHYSICS III
PHYS 121	PHYSICS FOR SCIENCE/ENGINEERING I	PHYS& 221	ENGINEERING PHYSICS I
PHYS 122	PHYSICS FOR SCIENCE/ENGINEERING II	PHYS& 222	ENGINEERING PHYSICS II
PHYS 123	PHYSICS FOR SCIENCEENGINEERING III	PHYS& 223	ENGINEERING PHYSICS III
POLS	**POLITICAL SCIENCE**	**POLS**	**POLITICAL SCIENCE**
POLS 201	INTRO TO POLITICS AND GOVT	POLS& 101	INTRO POLITICAL SCIENCE
POLS 202	US GOVT AND POLITICS	POLS& 202	AMERICAN GOVERNMENT
POLS 203	INTERNATIONAL RELATIONS	POLS& 203	INTERNATIONAL RELATIONS
PSYCH	**PSYCHOLOGY**	**PSYC**	**PSYCHOLOGY**
PSYCH 100	HUMAN RELATIONS - CAREER PLANNING	PSYC 104	HUMAN RELATIONS - CAREER PLANNING
PSYCH 110	GENERAL PSYCHOLOGY	PSYC& 100	GENERAL PSYCHOLOGY
PSYCH 205	HUMAN DEVELOPMENT	PSYC& 200	LIFESPAN PSYCHOLOGY
PSYCH 225	HUMAN SEXUALITY	PSYC& 180	HUMAN SEXUALITY
PSYCH 235	ABNORMAL PSYCHOLOGY	PSYC& 220	ABNORMAL PSYCHOLOGY

COMMON COURSE NUMBERING CROSSWALK

OLD COURSE NO./TITLE *(PRIOR TO SUMMER 2008)*		**NEW** COURSE NO./TITLE *(EFFECTIVE SUMMER 2008)*	
RUSSN	**RUSSIAN**	**RUSS**	**RUSSIAN (LISTED UNDER WORLD LANGUAGES)**
RUSSN 101	ELEMENTARY RUSSIAN I	RUSS& 121	RUSSIAN I
RUSSN 102	ELEMENTARY RUSSIAN II	RUSS& 122	RUSSIAN II
RUSSN 103	ELEMENTARY RUSSIAN III	RUSS& 123	RUSSIAN III
RUSSN 201	INTERMEDIATE RUSSIAN I	RUSS& 221	RUSSIAN IV
RUSSN 202	INTERMEDIATE RUSSIAN II	RUSS& 222	RUSSIAN V
RUSSN 203	INTERMEDIATE RUSSIAN III	RUSS& 223	RUSSIAN VI
SIGN	**SIGN LANGUAGE**	**ASL**	**AMERICAN SIGN LANGUAGE (LISTED UNDER WORLD LANGUAGES)**
SIGN 101	AMERICAN SIGN LANG I	ASL& 121	AM SIGN LANGUAGE I
SIGN 102	AMERICAN SIGN LANG II	ASL& 122	AM SIGN LANGUAGE II
SIGN 103	AMERICAN SIGN LANG III	ASL& 123	AM SIGN LANGUAGE III
SIGN 201	AMERICAN SIGN LANG IV	ASL& 221	AM SIGN LANGUAGE IV
SOC	**SOCIOLOGY**	**SOC**	**SOCIOLOGY**
SOC 110	SURVEY OF SOCIOLOGY	SOC& 101	INTRO TO SOCIOLOGY
SOC 230	SOCIAL PROBLEMS	SOC& 201	SOCIAL PROBLEMS
SOC 225	DELETED-NO LONGER DUAL WITH PSYCH 225.		
SPAN	**SPANISH**	**SPAN**	**SPANISH (LISTED UNDER WORLD LANG.)**
SPAN 101	ELEMENTARY SPANISH I	SPAN& 121	SPANISH I
SPAN 102	ELEMENTARY SPANISH II	SPAN& 122	SPANISH II
SPAN 103	ELEMENTARY SPANISH III	SPAN& 123	SPANISH III
SPAN 201	INTERMEDIATE SPANISH I	SPAN& 221	SPANISH IV
SPAN 202	INTERMEDIATE SPANISH II	SPAN& 222	SPANISH V
SPAN 203	INTERMEDIATE SPANISH III	SPAN& 223	SPANISH VI
SPCH	**SPEECH**	**CMST**	**COMMUNICATION STUDIES**
SPCH 100	SPEECH COMMUNICATION	CMST& 101	INTRODUCTION TO COMMUNICATION
SPCH 110	PUBLIC SPEAKING	CMST& 220	PUBLIC SPEAKING
SPCH 115	GROUP COMMUNICATION	CMST& 230	SMALL GROUP COMMUNICATION
THTR	**THEATRE**	**DRMA**	**DRAMA**
THTR 150	INTRO THEATRE ARTS	DRMA& 101	INTRO TO THEATRE

Degree and Certificate Requirements

GENERAL INFORMATION

QUARTER SYSTEM

Pierce College's academic year is divided into quarters. Fall, winter and spring quarters are generally ten weeks in length; summer, eight weeks. The academic calendar for 2011-12 is on page 11.

COURSE NUMBER SYSTEM

001-099 Adult Basic Education (ABE), English as a Second Language (ESL), GED and high school completion

042-099 Developmental or pre-college-level courses designed to help students succeed in subsequent college-level courses. These generally are not transferable credits and will not be used toward fulfilling degree/certificate requirements.

100-299 College-level courses applicable to associate degrees and certificates

COMPLETION TIME FOR DEGREES AND CERTIFICATES

Students are allowed up to six years from the date of initial enrollment at Pierce College to fulfill the degree or certificate requirements that were in effect at that time. Students who do not fulfill the requirements in that period must meet the requirements currently in effect for their degree. All prior credit that has been evaluated as equivalent to current requirements will be counted toward their fulfillment.

The six-year period begins with the first quarter in which a student is enrolled for five or more credits on a consecutive quarterly basis, excluding summer quarter, or when a program of study is officially declared. This policy applies to students who have initially enrolled at the college since fall quarter 1985.

CHANGES IN PROGRAM

Major changes in a program of study, such as a change in the degree, should be reported on a Personal Data Change form to the registration office at Fort Steilacoom or Puyallup. This will establish an "official starting date" for the new program and thereby preserve a full six-year period of time for completion of the program under current requirements.

DISCONTINUED PROGRAMS

If a degree or certificate is discontinued, students will be permitted to finish the program, to the extent the college finds possible, provided the student fulfills the requirements within six years of the date of initial enrollment at the college. Substitutions for discontinued courses will be permitted when appropriate substitute courses are available and when authorized through the course substitution procedures currently in effect. Requests for course substitutions should be made through the appropriate faculty.

Degree Outcomes

■ AA, AS AND DTA DEGREE OUTCOMES

General Education at Pierce College prepares graduates to live and work in a dynamically changing world by emphasizing whole student development through fundamental areas of knowledge and the college five core abilities.

■ PROFESSIONAL-TECHNICAL DEGREE/CERTIFICATE PROGRAMS

Professional/technical education at Pierce College prepares graduates to live and work in a dynamically changing world by emphasizing program professional competencies, related instruction (fundamental areas of knowledge), and the college five core abilities.

Professional/technical program competencies can be found on the Pierce College website at www.pierce.ctc.edu/proftech/.

CORE ABILITIES OUTCOMES

CRITICAL, CREATIVE, AND REFLECTIVE THINKING

Graduates will be able to question, search for answers and meaning, and develop ideas that lead to action.

RESPONSIBILITY

Graduates will be able to respond by examining the relationship between self, community, and environments, evaluating potential impacts and consequences of actions, and making choices and contributions based on that examination and evaluation.

INFORMATION COMPETENCY

Graduates will be able to seek, find, evaluate and use information and employ information technology to engage in lifelong learning.

EFFECTIVE COMMUNICATION

Graduates will be able to exchange messages in a variety of contexts using multiple methods.

MULTICULTURALISM

Graduates will demonstrate knowledge of diverse ideas, cultures and experiences and the ability to examine their own attitudes and assumptions in order to engage others with civility and empathy.

FUNDAMENTAL AREAS OF KNOWLEDGE OUTCOMES

COMMUNICATION

Graduates identify, analyze, and evaluate rhetorical strategies in their own and other's writing in order to communicate effectively.

HUMANITIES

Graduates acquire skills to critically interpret, analyze and evaluate forms of human expression, and create and perform as an expression of the human experience.

SOCIAL SCIENCES

Graduates use social science research methods and/or theory in order to analyze and interpret social phenomena.

NATURAL SCIENCES

Graduates use the scientific method to analyze natural phenomena and acquire skills to evaluate authenticity of data/information relative to the natural world.

QUANTITATIVE AND SYMBOLIC REASONING

Graduates utilize mathematical, symbolic, logical, graphical, geometric, or statistical analysis for the interpretation and solution of problems in the natural world and human society.

University Transfer Degrees

■ ASSOCIATE OF ARTS (AA-DTA)

The Associate of Arts degree (AA-DTA; formerly titled AAS-DTA degree) is designed for students who plan to transfer to four-year institutions after completing the first two years of study at Pierce. The degree enables students to fulfill the undergraduate general education requirements of most four-year degree programs and is also recommended for students who have not yet decided the field they will enter or the four-year institution they will attend.

TRANSFER PREPARATION

Pierce College's AA-DTA degree meets the Inter-College Relations Commission's AA-DTA Transfer Degree Guidelines for Washington colleges and universities. Because transfer requirements vary from one institution to another, students are encouraged to work closely with their advisors in planning their program of study. Because it is the student's responsibility to ensure the courses taken at Pierce will be accepted for transfer, it is helpful to select a transfer institution, obtain a catalog and transfer guide from that college or university, and become familiar with its admission and course requirements soon after enrolling at Pierce. For students who have not decided on a transfer institution, advisors can help plan a well-balanced program that will best meet transfer needs.

Specific questions concerning transfer can be directed to a faculty advisor, to the Pierce College advising centers, or to an admissions office at the four-year institution of choice. Transfer information handouts for four-year institutions in Washington state are available in the advising centers at both colleges.

More than 90 credits may be earned at Pierce College, but no more than 90 quarter credits may apply to a chosen four-year program of study.

GENERAL DEGREE REQUIREMENTS

- Minimum of 90 earned credits in courses numbered 100 or above is required to complete the AA-DTA degree. The 90 credits must include at least 60 Core Requirement credits, 15 Core Elective (GTE) credits, and 15 General Elective credits.
- ENGL& 101 (English Composition I) is required for all AA-DTA degree candidates.
- Minimum of 25 of last 45 credits must be earned at Pierce College.
- Cumulative college-level grade point average (GPA) of 2.0 or higher is required.
- 1.5 grade (C-) or better for all Core Requirement and Core Elective (GTE) courses is required unless prerequisites state otherwise.
- "Pass" (P) grades may be used only for General Elective credits.
- Independent Study may be used only for General Elective credits.
- Cooperative work experience/work-based learning credits may be applied to the general elective area only.
- Once a course has been successfully completed, credits obtained may be used only once, even if that course is listed in more than one category.

AA-DTA CORE REQUIREMENTS LIST (GER) *60 credit minimum*

	Course	Title	Credits
	COMMUNICATION SKILLS *(10 credits)*		
	** = required course*		
	BUS 250	Business Communications	5
*	ENGL& 101	English Composition I	5
	ENGL 103	Composition – Argumentation and Research	5
	ENGL 107	Composition – Writing About Literature	5
	ENGL& 235	Technical Writing	5
	JOURN 102	Intro to Newswriting	5
	QUANTITATIVE/SYMBOLIC REASONING SKILLS *(Five credits)*		
	Students must meet stated math prerequisite before enrolling.		
	ANTH& 204	Archaeology	5
	CHEM& 139	General Chemistry Preparation	5
	CS& 131	Computer Science I – C++	5
	CS& 141	Computer Science I – Java	5
	CS 202	Computer Science II	5
	ECON& 201	Micro Economics	5
	MATH& 107	Math in Society	5
	MATH 114	Applied Algebra, Geometry and Trigonometry	5
	MATH& 141	Precalculus I	5
	MATH& 142	Precalculus II	5
	MATH& 146	Intro to Statistics	5
	MATH& 148	Business Calculus	5
	MATH& 151	Calculus I	5
	MATH& 152	Calculus II	5
	MATH& 153	Calculus III	5
	MATH 156	Finite Mathematics	5
*	MATH& 171	Math for Elem Educ I	5
*	MATH& 172	Math for Elem Educ II	5
*	MATH& 173	Math for Elem Educ III	5
	MATH 205	Linear Algebra	5
	MATH 210	Discrete Math	5
	MATH 238	Differential Equations	5
	MATH 224	Multivariate Calculus	5
	PHIL& 106	Intro to Logic	5
	** = for education majors*		
	HUMANITIES *(15 credits)*		
*	*Select from at least three disciplines.*		
*	*No more than five credits from performance/skills courses. For designated performance/skills courses, see the end of the humanities listing.*		
*	*No more than five credits are allowed in world (foreign) language to satisfy the humanities requirement.*		
	ART& 100	Art Appreciation	5
	ART 105	Intro to Art	5
	ART 145	History of Art (Contemporary)	5
	ART 243	History of Art-Ancient World Through Middle Ages	5
	ART 244	History of Art-Renaissance Through Rococo	5
	ART 245	History or Art-The Modern World	5
	ASL& 121-123	American Sign Language I-III	5

AA-DTA CORE REQUIREMENTS LIST (GER) *60 credit minimum*

Course	Title	Credits
ASL& 221-223	American Sign Language IV	5
CMST&101	Intro to Communications	5
CMST& 102	Intro to Mass Media	5
CMST 105	Intercultural Communication	5
CMST& 220	Public Speaking	5
CMST& 230	Small Group Communication	5
DRMA& 101	Intro to Theatre	5
DRMA 160	Intro to Film and Video	5
ENGL& 111	Intro to Literature	5
ENGL& 112	Intro to Fiction	5
ENGL& 113	Intro to Poetry	5
ENGL& 114	Intro to Dramatic Literature	5
ENGL 140	English Grammar	5
ENGL 204	The Bible as Literature	5
ENGL 205	Intro to Mythology	5
ENGL 207	Native American Literature	5
ENGL 210	Intro to American Literature	5
ENGL& 220	Intro to Shakespeare	5
ENGL& 226-228	British Literature I-III	5
ENGL& 236-238	Creative Writing I-III	5
ENGL 239	World Literature	5
ENGL& 244-246	American Literature I-III	5
ENGL 249	Creative Writing: Special Projects	5
ENGL 264	Literature of U.S. Slavery/Abolition	5
ENGL 265	American Literature-Humor/Satire	5
ENGL 266	Women Writers-International Mosaic	5
FRCH& 121-123	French I-III	5
GERM& 121-123	German I-III	5
HUM& 101	Intro to Humanities	5
HUM 105	Black Thought and Culture	5
HUM 106	Ethnic Thought and Culture	5
HUM 107	Latin American Thought and Culture	5
HUM 109	American Thought and Culture: The Harlem Renaissance	5
HUM& 116-118	Humanities I-IIII	5
HUM 120	Intro to Folklore	5
HUM 161-164	Western Thought and Culture I-IV	5
HUM 204	American Popular Culture	5
HUM 210	American Cinema and Society	5
HUM 212	Great Directors and Auteurs	5
HUM 215	World Cinema	5
HUM 240	World Religions	5
JAPN& 121-123	Japanese I-III	5
JOURN 103	Intro to Feature Writing	1-5
JOURN 125	The Documentary: A Social Force	5
KREA& 121-123	Korean I-III	5
MUSC 100	Intro to Rock and Roll	5
MUSC 102	American Popular Music	5
MUSC 103	Intro to Jazz	5
MUSC& 105	Music Appreciation	5
MUSC 106	World Music	5
MUSC& 141-143	Music Theory I-III	5
MUSC& 241-243	Music Theory IV-VI	5
PHIL& 101	Intro to Philosophy	5
PHIL 110	Intro to Bioethics	5
PHIL 115	Intro to Critical Thinking	5
PHIL 150	Intro to Ethics	5
PHIL 155	Ethics in Business	5
PHIL 210	Philosophy of Western Religion	5
PHIL 220	Introduction to Eastern Philosophy	5
PHIL 230	Contemporary Moral Problems	5
PHIL 238	Philosophy of Human Rights	5
RUSS& 121-123	Russian I-III	5
SPAN& 121-123	Spanish I--III	5
SPAN& 221-223	Spanish IV-VI	5
Humanities Performance/Skills *(Five credits maximum)*		
ART 101-103	Design	5
ART 107-109	Photography	5
ART 111-113	Drawing	5
ART 115	Three-Dimensional Drawing	5
ART 201-203	Painting	5
ART 204	Watercolor, Beginning	5
ART 211	Beginning Sculpture	5
DRMA 170-172	Technical Film and Theatre	5
DRMA 260-262	Acting for Stage and Digital Film	5
DRMA 280-285	Production Practicum	1-3
MUSC 126-127	Class Guitar	1
MUSC 140, 240	College Choir	1-2
MUSC 144, 244	Concert Choir	2.5
MUSC 145, 245	Jazz Choir	2.5
MUSC 150, 250	College Band	1
MUSC 154, 254	College Orchestra	1
MUSC 157, 257	Jazz Band	1-2
MUSC 160-168, 260-268	Private Instruction	0.5
MUSC 170-173, 270-273	Ensemble (Instrumental)	1
MUSC 174, 274	Vocal Ensemble	1
MUSC 181	Beginning Class Piano	1
MUSC 182	Intermediate Class Piano	1
MUSC 183	Advanced Class Piano	1
SOCIAL SCIENCES *(15 credits)*		
*Select from at least **three** disciplines.*		
ANTH& 100	Survey of Anthropology	5
ANTH& 104	World Prehistory	5
ANTH& 106	American Mosaic	5
ANTH 107	Archaeology of Ancient Civilizations	5
ANTH& 204	Archaeology	5
ANTH& 206	Cultural Anthropology	5
ANTH& 210	Indians of North America	5
ANTH& 216	Northwest Coast Indians	5
ANTH 240	Women in Cross Cultural Perspectives	5
BUS& 101	Intro to Business	5
BUS& 201	Business Law	5
CJ 112	Criminal Justice in America	5
ECE 111	Intro to Early Childhood Education	5
ECON 110	Survey of Economics	5
ECON& 201	Micro Economics	5
ECON& 202	Macro Economics	5
GEOG 100	Intro to Geography	5
GEOG 150	Europe, The Americas, Australia/New Zealand	5
GEOG 160	Africa, Middle East and Asia	5
GEOG 200	Human Geography	5
GEOG 207	Economic Geography	5
HIST& 126-128	World Civilizations I-III	5
HIST& 156-159	History of US I-IV	5
HIST 168	Vietnam War as History	5
HIST& 214	Pacific NW History	5
HIST 230	Concise History of Science and Technology	5
HIST 260	History of Russia and Soviet Union	5
HIST 265	History of Latin America Since 1810	5
HIST 266	History of Europe Since 1870	5
HIST 267	History of Africa Since 1800	5
HIST 268	History of Warfare	5
HIST 269	U.S. Foreign Policy Since 1776	5
HIST 270	Intro to the Far East	5
HIST 272	Survey of Middle East History	5
HIST 277	The Cold War	5
HIST 280	Intro to Chinese Civilization	5
HIST 284	Intro to the Balkans	5
HIST 287	History of Japan Since Antiquity	5
INTS 107	Intro to International Studies	5
INTS 140	Contemporary Issues in International Studies	5
INTS 150	Contemporary Rebel, Secessionist and Terrorist Organizations	5
INTS 164	Border and Genocidal Conflicts of the Modern World	5
POLS& 101	Intro Political Science	5
POLS& 200	Introduction to Law	5
POLS& 202	American Government	5
POLS& 203	International Relations	5
POLS 208	U.S. Campaigns and Elections	5
POLS 230	State and Local Government	5
PSYC& 100	General Psychology	5
PSYC& 180	Human Sexuality	5
PSYC& 200	Lifespan Psychology	5
PSYC 201	Psychology of Personal Growth	5
PSYC 210	Social Psychology	5
PSYC& 220	Abnormal Psychology	5
PSYC 230	Introduction of Personality	5
SOC& 101	Intro to Sociology	5
SOC& 201	Social Problems	5
SOC 211	Family and Intimate Relations	5
SOC 212	Death, Dying and Bereavement	5
SOC 220	Gender Roles in Society	5

AA-DTA CORE REQUIREMENTS LIST (GER) *60 credit minimum*

NATURAL SCIENCES *(15 credits)*
Choose at least one laboratory science – indicated by an L *– and from* ***three*** *different disciplines.*

Course	Title	Credits
ANTH& 205	Biological Anthropology	5
L ANTH& 236	Forensic Anthropology	5
ASTR& 100	Survey of Astronomy	5
L ASTR& 101	Intro to Astronomy	5
L ASTR 105	Survey of Astrobiology	5
L ASTR& 110	The Solar System	5
L ASTR& 115	Stars, Galaxies and Cosmos	5
L ATMOS 101	Intro to Weather	5
L BIOL& 100	Survey of Biology	5
L BIOL& 160	General Biology w/Lab	5
BIOL& 170	Human Biology	5
L BIOL& 175	Human Biology w/Lab	5
L BIOL& 211	Majors Cellular	5
L BIOL& 212	Majors Animal	5
L BIOL& 213	Majors Plant	5
L BIOL& 241	Human Anatomy and Physiology 1	6
L BIOL& 242	Human Anatomy and Physiology 2	6
L BIOL& 260	Microbiology	5
CHEM& 100	Preparatory Chemistry	5
L CHEM& 110	Chemical Concepts w/Lab	5
L CHEM& 121	Intro to Chemistry	5
L CHEM& 131	Intro to Organic/Biochemistry	6
CHEM& 139	General Chemistry Prep	5
L CHEM& 161-163	General Chemistry w/Lab I-III	5
L CHEM& 261-263	Organic Chemistry w/Lab I-III	5
CS& 131	Computer Science I-C++	5
CS&141	Computer Science I-Java	5
CS 202	Computer Science II	5
ENGR 101	Intro to Engineering	5
ENVS& 100	Survey of Environmental Science	5
ENVS 140	Western Water Problems	5
ENVS 150	Environmental Issues	5
L ENVS 155	Applied Environmental Methods	5
GEOG 205	Physical Geography	5
L GEOG 210	Physical Geography	5
L GEOL& 101	Intro Physical Geology	5
L GEOL& 103	Historical Geology	5
L GEOL 107	Earth Systems Science	5
L GEOL& 110	Environmental Geology	5
L GEOL& 115	Geology National Parks	5
L GEOL& 120	Volcanoes	5
L GEOL 140	Principles of Field Mapping	5
L GEOL& 208	Geology of Pacific NW	5
L GEOL 220	Earth Resources and the Environment	5
GEOL 283	Regional Geology	5
L HSCI 119	Human Health and Disease	5
L HSCI 140	Contemporary Health Science Problems	5
HSCI 151	Personal and Community Health	5
HSCI 200	Human Stress — Its Nature and Control	5
L HSCI 210	Wellness	5
MATH& 107	Math in Society	5
MATH 114	Applied Algebra, Geometry and Trigonometry	5
MATH& 141	Precalculus I	5
MATH& 142	Precalculus II	5
MATH& 146	Intro to Statistics	5
MATH& 148	Business Calculus	5
MATH& 151	Calculus I	5
MATH& 152	Calculus II	5
MATH& 153	Calculus III	5
MATH 156	Finite Mathematics	5
MATH 205	Linear Algebra	5
MATH 210	Discrete Mathematics	5
MATH 224	Multivariate Calculus	5
MATH 238	Differential Equations	5
L NSCI 150	Nature	5
L NSCI 160	Environmental Biology	5
NUTR& 101	Nutrition	5
L OCEA& 101	Intro to Oceanography	5
L OCEA 170	Marine Biology	5
L OCEA 286	Coral Reefs	5
PHIL& 106	Intro to Logic	5
L PS 101	Intro to Physical Science	5
L PHYS& 100	Physics Non-Science Majors	5
L PHYS& 121-123	General Physics I-III	5
L PHYS& 221-223	Engineering Physics I-III	6

GENERAL TRANSFERABLE ELECTIVES (GTE)
A minimum of 15 credits must be earned from Pierce College's approved General Transferable Elective (GTE) list. Courses taken for a pass/no pass grade, independent study, or cooperative work experience/work-based learning courses do not apply to the GTE area.

The following courses have been approved by Pierce College as General Transferable Electives/Core Electives:

A. Any of the approved CORE distribution courses designated as Communication Skills, Quantitative/Symbolic Reasoning Skills, Humanities, Social Sciences and Natural Sciences with the ***exception*** of performance/skills courses.
AND/OR
B. Courses numbered 100 and above listed in the departments below.

GTE Approved Courses by Department
ACCOUNTING: All except 175 and 287
ANTHROPOLOGY: All
ART: All except those listed as HM-Performance courses
ASTRONOMY: All
ATMOSPHERIC SCIENCE: All
BIOLOGY: All
BUSINESS: All except 103, 107, 125, 135, 279
BUSINESS MANAGEMENT: All
BUSINESS INFO TECH: only 104, 111-113, 120, 135, 145, 241, 253
CHEMISTRY: All except 119
COMMUNICATION STUDIES: All
COMPUTER INFO SYSTEMS: All except 103, 134, 136, 290
CRIMINAL JUSTICE: All except 103, 280
DIGITAL DESIGN: All except 131, 161, 211, 290
DRAMA: All except those listed as HM-Performance courses
EARLY CHILDHOOD EDUCATION: only 111, 161, 202, 210, 212, 213
ECONOMICS: All
EDUCATION: Only EDUC& 202 and EDUC& 204
ENGINEERING: All
ENGLISH: All except 104, 125
ENVIRONMENTAL SCIENCE: All
FASHION MERCHANDISING: All
FOREIGN LANGUAGE – *See WORLD LANGUAGES.*
GEOGRAPHY: All
GEOLOGY: All
HEALTH SCIENCE: Only 119, 140, 151, 200, 210
HISTORY: All
HUMAN SERVICES SUBSTANCE ABUSE : only 101, 120, 140, 170
HUMANITIES: All
INTERDISCIPLINARY STUDIES: All except 292
JOURNALISM: All except 110, 111, 112, 211, 212
MATHEMATICS: All
MILITARY SCIENCE: All to ROTC programs only
MUSIC: All except 107, 108, 109 and those listed as HM-Perf courses
NATURAL SCIENCE: All
NUTRITION: All
OCEANOGRAPHY: All
PHILOSOPHY: All
PHYSICAL SCIENCE: All
PHYSICS: All
POLITICAL SCIENCE: All
PSYCHOLOGY: All except 102, 105, 119, 140, 163, 164
SOCIAL SERVICE/MENTAL HEALTH: only 100, 170, 215
SOCIOLOGY: All
WORLD LANGUAGES: All except JAPN 130 and JAPN 135

GENERAL ELECTIVES (GE)
Maximum of 15 credits of courses numbered 100 and above may be applied to this area. Credits may include physical activity (five credits maximum), cooperative education, courses taken under the P/NP option, independent study, etc.

■ ASSOCIATE OF ARTS – OPTION B

Students who are sure of the specific four-year program to which they will transfer can design a program to fulfill the senior institution's general admission and program entry requirements. This degree program is not recommended for students who are undecided about their future educational plans.

The student completes an AA–Option B contract that must be approved by an authorized representative of the senior institution and Pierce College. The degree is awarded upon successful completion of the contracted course of study. Contract forms, policies and procedures are available in the advising centers.

GENERAL DEGREE REQUIREMENTS

- Minimum of 90 credits must be completed, as authorized for transfer by the four-year institution's representative. Students must remain aware of the senior institution's requirements and officially update the Option B contract as needed. Each AA–Option B student is ultimately responsible for meeting senior institution requirements.
- The student must earn a college cumulative grade point average (GPA) of 2.0 or better and a grade of 1.5 (C-) or better in all core, proficiency or distribution courses unless prerequisites state otherwise.
- Minimum of 25 of the last 45 credits must be earned at Pierce College.
- Courses selected must meet the senior institution's general distribution requirements plus any special proficiency requirements, where applicable, or must meet the senior institution's departmental requirements for entrance. The student should be prepared to provide a copy of the senior institution's current catalog to a Pierce College advisor for assistance in program planning.
- AA–Option B degree candidates must submit a signed copy of the Option B program contract together with any supporting documentation to the evaluations office, at least two quarters prior to graduation.

■ ASSOCIATE OF SCIENCE (AS-T)

The Associate of Science degree (AS-T) is designed for students who plan to transfer to science programs at four-year institutions after completing the first two years of study at Pierce. The degree enables students to fulfill the undergraduate general education requirements of most four-year science degree programs. Students are responsible for checking specific major requirements of baccalaureate institutions in the year prior to transferring.

There are two Associate of Science (AS-T) degree-track options.

ASSOCIATE OF SCIENCE (AS-T) DEGREE TRACK1

For science pre-majors in biological sciences, chemistry, environmental/ resource sciences, geology and Earth science

GENERAL DEGREE REQUIREMENTS

1. Minimum of 90 earned credits in courses numbered 100 or above is required to complete the AS-T degree.
2. Minimum of 25 of last 45 credits must be earned at Pierce.
3. Cumulative college-level grade point average (GPA) of 2.0 or higher is required.
4. 1.5 grade (C-) or higher is required for all coursework unless prerequisites state otherwise. Coursework with a grade of 0.7 through 1.4 (D's) may be used for general elective credit only.
5. Pass (P) grades may be used only for General Elective credits.
6. Independent Study may be used only for General Elective credits.
7. Once a course has been successfully completed, credits earned may be used only once, even if that course is listed in more than one category.

Note: Additional general education, cultural diversity, and foreign language requirements, as required by the transfer institution, must be met prior to the completion of a baccalaureate degree.

GENERAL REQUIRED COURSES *(30 credits)*

- COMMUNICATIONS: (5 CREDITS)

  ENGL& 101: English Composition I - required
- QUANTITATIE/SYMBOLIC REASONG SKILLS 10 credit minimum. Two courses required at or above introductory calculus level.
  MATH& 151/152: Calculus I and II
- HUMANITIES AND SOCIAL SCIENCES: 15 credit minimum. A maximum of five credits under the humanities/performance/skills area may be used. See AA - DTA distribution list.

Humanities	5 credits minimum
Social Science	5 credits minimum
Humanities ***OR*** Social Science	5 credits minimum

SCIENCE PRE-MAJOR REQUIREMENTS *(minimum 35 credits required)*

A. Chemistry sequence: *(15 credits required)*
CHEM& 161-163: General Chemistry w/Lab I-III*

B. Third-quarter calculus ***OR*** approved statistics course
(Five credits required; choose one):
MATH& 146: Intro to Statistics
MATH& 153: Calculus III

C. Biology ***OR*** physics sequence *(15 credits required)**

Choose one of the following sequences. Students should check with the receiving institution to determine which sequence is appropriate. Some baccalaureate institutions require physics with calculus.

BIOL& 211-213: Majors: Cellular/Animal/Plant ***OR***
PHYS& 121-123: General Physics I-III ***OR***
PHYS& 221-223: Engineering Physics I-III

**ICRC Guidelines: Sequences should not be broken up between institutions (e.g., the typical three-quarter physics sequence should be taken entirely at one institution).*

ADDITIONAL SCIENCE REQUIREMENTS *(10-15 credits required)*
Courses chosen in physics, geology, organic chemistry, biology or mathematics consisting of courses normally taken for science majors (not for general education), preferably in a two- or three-quarter sequence, chosen with the help of an advisor. (Note: Biology majors should select organic chemistry or physics for this requirement.)

List of appropriate courses

BIOL& 241	Human Anatomy and Physiology 1
BIOL& 242	Human Anatomy and Physiology 2
BIOL& 211-213	Majors: Cellular/Animal/Plant
CHEM& 261-263	Organic Chemistry w/Lab I-III
GEOL& 101	Intro Physical Geology
GEOL& 103	Historical Geology
GEOL& 110	Environmental Geology
GEOL 220	Earth Resources and the Environment
MATH& 146	Introduction to Statistics
MATH& 153	Calculus III
MATH 205	Linear Algebra
MATH 224	Multivariate Calculus
MATH 238	Differential Equations
PHYS& 121-123	General Physics I-III
OR	
PHYS& 221-223	Engineering Physics I-III

GENERAL ELECTIVES (*10-15 credits required)*)
College-level courses numbered 100 and above. Remaining credits may include prerequisites for pre-major courses (e.g., pre-calculus), meet additional pre-major coursework, or satisfy specific general education or other university requirements. A maximum of five physical activity (PE) credits can be applied to this degree.

TOTAL CREDITS **90**

ASSOCIATE OF SCIENCE (AS-T) DEGREE TRACK 2

For science pre-majors in engineering, computer science, physics and atmospheric sciences

GENERAL DEGREE REQUIREMENTS
Same as those listed under the Associate of Science (AS-T) Degree Track 1.

GENERAL REQUIRED COURSES *(30 credits)*

- COMMUNICATIONS: (5 CREDITS)

  ENGL& 101: English Composition I - required
- QUANTITATIVE/SYMBOLIC REASONING SKILLS: 10 credit minimum. Two courses required at or above introductory calculus level.
  MATH& 151/152: Calculus I and II

- HUMANITIES AND SOCIAL SCIENCES: 15 credit minimum. Courses listed in more than one category may be used only once. A maximum of five credits under the humanities/performance/skills area may be used. See AA - DTA distribution list.

Humanities	5 credits minimum
Social Science	5 credits minimum
Humanities ***OR*** Social Science	5 credits minimum

SCIENCE PRE-MAJOR REQUIREMENTS *(minimum 30 credits required)*

A. Required of all students:
CHEM& 161: General Chemistry w/Lab I *(five credits required)*

B. Third quarter calculus or approved statistics course:
(five credits required) Choose one:
MATH& 146: Intro to Statistics
MATH& 153: Calculus III

C. Physics sequence: *(15 credits required)**
PHYS& 221: Engineering Physics I
PHYS& 222: Engineering Physics II
PHYS& 223: Engineering Physics III

**ICRC Guidelines: Sequences should not be broken up between institutions (e.g., the typical three-quarter physics sequence should be taken entirely at one institution).*

ADDITIONAL SCIENCE REQUIREMENTS *(15 credits required)*
Courses must be selected from the list of courses below. Note: A two- or three-quarter sequence is recommended to be chosen with the help of an advisor.

List of appropriate courses

CHEM& 162/163	General Chemistry w/Lab II/III
CS& 131	Computer Science I-C++
CS&141	Computer Science I-Java
CS 202	Computer Science II
ENGR 142	Computer Programming C++ for Engineers
ENGR& 214	Statics
ENGR& 215	Dynamics
ENGR& 225	Mechanics of Materials
ENGR& 224	Thermodynamics
MATH& 146	Introduction to Statistics
MATH 205	Linear Algebra
MATH 224	Multivariate Calculus
MATH 238	Differential Equations

GENERAL ELECTIVES *(15 credits required)*
Minimum of 10 credits that satisfy Pierce's AA Core requirements, i.e., GER-NS, GER-HM, GER-SS, GER-CM or GER-QS. See Associate of Arts (AA-DTA) section for specific classes. Maximum of five credits of any college-level course numbered 100 or higher. Physical education activity credits may be used only in this area.

TOTAL CREDITS 90

■ AA-DTA DEGREES IN SPECIFIC FIELDS

In addition to the general AA-DTA degree, Pierce College offers transfer degrees in specific areas. These areas include biology, business, construction management, pre-nursing, and education (elementary, earth and space science, general science, math, chemistry, biology and physics). More information on these degrees and their respective requirements can be found in the PROGRAMS OF STUDY section of this catalog.

■ ASSOCIATE IN TECHNOLOGY — SPECIFIC PROGRAM

Students who complete the Associate in Technology degree in one of Pierce College's specific professional/technical programs will receive a degree entitled with that program specialty. Refer to the PROGRAM OF STUDY section.

DEGREE REQUIREMENTS

1. Students must successfully complete a minimum of 90 quarter credits or their equivalent, exclusive of physical education activity courses, including all specific requirements of an approved professional/technical program outlined in the PROGRAMS OF STUDY listings.
2. A minimum college cumulative grade point average (GPA) of 2.0 must be maintained.
3. A minimum of 25 of the last 45 quarter credit hours must be earned at Pierce College. SOC/SOCAD military students may be exempt from this requirement.
4. A minimum of 18 credits must be completed in related instruction. Related instruction areas include communications, computation and human relations. Related instruction content may be part of a course that specifically addresses the related instruction (e.g., ENGL& 101 for communications), may be embedded (listed in course objectives) within a program course, or may be a prerequisite to program admittance. Students may challenge courses or use an assessment process to satisfy selected related instruction.

   COMMUNICATIONS: *A minimum of three credits†*
   Select course(s) from the AA-DTA Communication Skills list, or complete the course(s) identified as the communication skill course(s) in the curriculum guide for the specific degree.

   COMPUTATION: *A minimum of three credits†*
   Select a course from the AA-DTA Quantitative/Symbolic Reasoning Skills list, or complete the course(s) identified as the computation skills course(s) in the curriculum guide for the specific degree. In programs where no specific course has been identified, students must be assessed above the MATH 098 (Intermediate Algebra) level.

   HUMAN RELATIONS: *A minimum of three credits†*
   Complete the course(s) identified as the Human Relations course(s) in the curriculum guide for the specific degree.

†Related instruction skills may be embedded within certain program courses.

Some programs may include additional related instruction areas, such as leadership and safety.

■ ASSOCIATE IN TECHNOLOGY — GENERAL

A graduate of any approved occupational/vocational program from an accredited college, military school, vocational/technical institute, technical college, licensed private college, vocational school, industry, apprentice-based training or university may be granted up to 65 quarter credits toward the Associate in Technology – General degree. The remainder of the student's program shall include a minimum of 18 credits of related instruction. A minimum of three credits is required in each of the following areas: communications, computation and human relations. All related instruction courses must be numbered 100 or above. A total of 90 credits is required.

■ PROFESSIONAL/TECHNICAL CERTIFICATES

Professional/technical certificate programs emphasize basic, practical skills needed for entry-level employment. Often, these programs can be completed in a short period of time, preparing a student with beginning job skills or providing knowledge and skills that are needed for advancement in a specific professional/technical area.

Certificates between 21-44 credits require that at least one-half of the credits be earned at Pierce College. All coursework must be completed at Pierce College for short-term programs and certificates of 20 credits or less. A cumulative college-level GPA of 2.0 or higher is required.

A candidate for a certificate in a professional/technical program of at least 45 credits must earn a minimum of nine credits in related instruction, three each in communications, computation and human relations.

Student Learning Outcomes for individual professional/technical degrees and certificates available at
http://www.pierce.ctc.edu/dist/proftech/list.

COURSE SUBSTITUTION POLICY

Pierce College Professional/Technical program coordinators and full-time faculty within the program area may substitute coursework within their programs that they feel is appropriate. Courses may also be waived as deemed appropriate; however, for associate programs, a degree will not be awarded with less than 90 quarter hours. Approved course substitutions must be submitted in writing to the college credentials evaluators.

Accounting PROFESSIONAL/TECHNICAL

Faculty: Ken Kwok (PY)

Degree: Associate in Accounting
Certificate: Certificate in Practical Accounting

Accountants analyze and interpret essential information about business operations and contribute vitally to important policies and decisions. Pierce College's accounting programs offer instruction in practical accounting combined with a fundamental understanding of general business operations. Graduates can expect to find career opportunities in a variety of positions, such as accounting clerks, accounting assistants, junior accountants, bookkeepers and management trainees.

Professional/technical program competencies can be found on the Pierce College website at http://www.pierce.ctc.edu/proftech/.

■ ASSOCIATE IN ACCOUNTING (PY ONLY)

GENERAL REQUIREMENTS (25 CREDITS)

COMMUNICATIONS (10 CREDITS)

Select one:			5
	BUS 105	Business English I	
*	ENGL& 101	English Composition I	
Select one:			5
*	BUS 250	Business Communications	
*	CMST& 101	Intro to Communication	
*	CMST& 220	Public Speaking	

COMPUTATION/QUANTITATIVE/SYMBOLIC REASONING SKILLS (5 CREDITS)

Select one:			5
	BUS 107	Business Mathematics	
*	MATH 156	Finite MaTH	

HUMAN RELATIONS AND LEADERSHIP (10 CREDITS)

	MNGT 194	Supervisory Training & Leadership Development	5
Select one:			5
	BUS 240	Human Relations in the Workplace	
*	PSYC& 100	General Psychology	
*	SOC& 101	Intro to Sociology	

ACCOUNTING REQUIREMENTS (42 OR 43 CREDITS)

INTRODUCTORY CLASSES (17 or 18 credits)

All of the following:

	ACCT 170	Practical Accounting I	5
	ACCT 171	Practical Accounting II	5
	ACCT 172	Practical Accounting III	5
	ACCT 173	Practical Cost Accounting	3

Or all of the following:

*	ACCT& 201	Principles of Accounting I	5
*	ACCT& 202	Principles of Accounting II	5
*	ACCT& 203	Principles of Accounting III	5
	ACCT 175	Practical Accounting Simulations	2

ADVANCED CLASSES (25 credits)

	ACCT 179	Federal Income Tax Preparation	5
	ACCT 180	Accounting Systems	5
	ACCT 273	Government Budget and Fund Accounting	5
	ACCT 275	Payroll and Business Taxes	5
	ACCT 285	Auditing and Advanced Analytical Techniques	5

BUSINESS REQUIREMENTS (19-26 CREDITS)

	BUS& 201	Business Law	5
	BTECH 111	Keyboarding	3
	BTECH 112	Keyboard Skillbuilding I	2
	(BTECH 111 and 112 may be waived if typing proficiency is at least 30 wpm)		
	BTECH 135	Electronic 10-Key Calculator	3
	(BTECH 135 may be waived if proficiency on 10-key is demonstrated)		
	BTECH 145	Records and Database Management	5
	Or		
	BTECH 146	Filing Review	2
	and		
	BTECH 156	Records Management	3
	CIS 136	Spreadsheet Applications	3
Select one:			3-5
*	CIS 121	Intro to Computer Information Systems (5)	
	CIS 110	Intro to Microcomputer Business Applications (3)	

ELECTIVES (7 credits minimum)

	BTECH 113	Keyboard Skillbuilding II	2
	ECON 110	Survey of Economics	5
*	ECON& 201	Micro Economics	5
*	ECON& 202	Macro Economics	5
	MNGT 283	Principles of Supervision and Leadership	5
	MNGT 284	Small Business Planning	5
	Any introductory word processing class		3
	Any 100-299 college course		5
	Total Credits Required		**90-94**

**Course that should be selected if the student intends to transfer to a four-year business program. Business majors should also be familiar with other transfer requirements as outlined in Pierce's Associate in Business – DTA degree.*

■ CERTIFICATE IN PRACTICAL ACCOUNTING (PY ONLY)

It is recommended that students entering the program have basic typewriting or keyboarding skills, or enroll during the first quarter in BTECH 111 (Keyboarding).

GENERAL REQUIREMENTS (18 CREDITS)

	BUS 107	Business Mathematics	5
	BTECH 112	Keyboard Skillbuilding I	2
	(BTECH 112 may be waived if typing proficiency is at least 30 wpm)		
	BTECH 135	Electronic 10-Key Calculator	3
	(BTECH 135 may be waived if proficiency on 10-key is demonstrated)		
	CIS 136	Spreadsheet Applications	3
Select one:			5
	BUS 105	Business English I	
	ENGL& 101	English Composition I	

INTRODUCTORY CLASSES (12 OR 15 CREDITS)

All of the following:

	ACCT 170	Practical Accounting I	5
	ACCT 171	Practical Accounting II	5
	ACCT 172	Practical Accounting III	5

or all of the following:

	ACCT 175	Practical Accounting Simulations	2
	ACCT& 201	Principles of Accounting I	5
	ACCT& 202	Principles of Accounting II	5

ADVANCED CLASSES (10 CREDITS)

	ACCT 180	Accounting Systems	5
And one of the following:			5
	ACCT 179	Federal Income Tax Preparation	
	ACCT 273	Government Budget/Fund Accounting	
	ACCT 275	Payroll and Business Taxes	
	Total Credits Required		**40-43**

Adult Basic Education

The Basic Skills department consists of the following programs, which are offered at both Pierce College Fort Steilacoom and Pierce College Puyallup: Adult Basic Education (ABE), English as a Second Language (ESL), General Educational Development (GED), High School Completion (HSC), and Integrated Basic Education and Skills Training (I-BEST).

Student Learning Outcomes available at www.pierce.ctc.edu/dist/basicskills/outcomes.

Note: This section does not apply to international students on F-1 visas. International students interested in high school completion must contact International Education for information on the AA program with the concurrent high school completion option.

■ ADULT BASIC EDUCATION

Faculty: Bill Orrange (FS); Teah Bergstrom (PY)

Offered through group classes and/or individualized instruction, Adult Basic Education (ABE) allows adults to improve their skills in reading, writing, math, and workplace and computer fundamentals in order to enter vocational training, advance in a current job, become more employable or continue into college programs. ABE classes are offered daytime or evening on campus or in the community.

BEGINNING LITERACY

ABE 050	ABE Beginning Literacy Reading – 1	
ABE 051	ABE Beginning Literacy Writing – 1	

ABE 052 ABE Beginning Literary Math – 1
ABE 054 ABE Beginning Literacy Integrated – 1

BEGINNING BASIC SKILLS

ABE 060 ABE Beginning Reading – 2
ABE 061 ABE Beginning Writing – 2
ABE 062 ABE Beginning Math – 2
ABE 064 ABE Beginning Integrated – 2

LOW INTERMEDIATE BASIC SKILLS

ABE 070 ABE Low Intermediate Reading – 3
ABE 071 ABE Low Intermediate Writing – 3
ABE 072 ABE Low Intermediate Math – 3
ABE 074 ABE Low Intermediate Integrated – 3

HIGH INTERMEDIATE BASIC SKILLS

ABE 080 ABE High Intermediate Reading – 4
ABE 081 ABE High Intermediate Writing – 4
ABE 082 ABE High Intermediate Math – 4
ABE 084 ABE High Intermediate Integrated – 4

OTHER ABE OFFERINGS:

ABE 017 Integrated Workforce ABE Level 1
ABE 027 Integrated Workforce ABE Level 2
ABE 037 Integrated Workforce ABE Level 3
ABE 047 Integrated Workforce ABE Level 4
ABE 057 Integrated Workforce ABE Level 5
ABE 067 Integrated Workforce ABE Level 6
ABE 090 Educational Interview
ABE 095 Workplace Fundamentals
ABE 096 ABE Basic Computers
ABE 097 ABE Advanced Computers
ABE 098 Transitions to College
ABE 099 I-Best Academic Support

■ ENGLISH AS A SECOND LANGUAGE (ESL)

Students who are on B-1, B-2, F-1, J-1 or M-1 visas must register for courses listed under Intensive English/International Education.

Faculty: Dr. Rosalie Pan, Sandra Stevens (FS); Debra Ramirez (PY)

The English as a Second Language (ESL) program provides courses in English reading, writing, speaking, listening, and computer technology and job readiness skills, with special emphasis on developing communication capabilities and improving language proficiency necessary for I-BEST programs, vocational training, Transitional Education classes, college programs, and ABE/GED studies. The courses also include workplace basics and computer literacy for students to improve their employment opportunities. The classes are offered daytime or evenings at both colleges and at sites within the community.

BEGINNING LITERACY

ESL 010 Literacy Speaking – 1
ESL 011 Beg Literacy Reading – 1
ESL 012 Beg ESL Literacy Writing – 1
ESL 013 Beg Literacy Listening/Observing – 1
ESL 014 Beg ESL Literacy Integrated – 1
ESL 015 Beg ESL Literacy Comp Tech. and Job Readiness –1
ESL 016 Beg ESL Literacy Intens Oral Comm. and Grammar –1
ESL 017 Beg ESL Literacy Workforce – 1

LOW BEGINNING ESL

ESL 020 Low Beg ESL Speaking
ESL 021 Low Beg ESL Reading – 2
ESL 022 Low Beg ESL Writing – 2
ESL 023 Low Beg ESL Listening/Observing – 2
ESL 024 Low Beg ESL Integrated – 2
ESL 025 Low Beg ESL Computer Tech. and Job Readiness – 2
ESL 026 Low Beg ESL Intensive Oral Comm. and Grammar – 2
ESL 027 Low Beg ESL Workforce – 2

HIGH BEGINNING INTERMEDIATE ESL

ESL 030 High Beg ESL Speaking – 3
ESL 031 High Beg ESL Reading – 3
ESL 032 High Beg ESL Writing – 3
ESL 033 High Beg ESL Listening/Observing - 3
ESL 034 High Beg ESL Integrated – 3
ESL 035 High Beg ESL Computer Tech. and Job Readiness – 3
ESL 036 High Beg ESL Intensive Oral Comm. and Grammar – 3
ESL 037 High Beg ESL Workforce – 3

LOW INTERMEDIATE ESL

ESL 040 Low Interm ESL Speaking – 4
ESL 041 Low Interm ESL Reading – 4
ESL 042 Low Interm ESL Writing – 4
ESL 043 Low Interm ESL Listening/Observing – 4
ESL 044 Low Interm ESL Integrated – 4
ESL 045 Low Interm ESL Comp Tech. and Job Readiness – 4
ESL 046 Low Interm Intensive Oral Comm. and Grammar – 4
ESL 047 Low Interm ESL Workforce – 4

HIGH INTERMEDIATE ESL

ESL 050 High Interm ESL Speaking – 5
ESL 051 High Interm ESL Reading – 5
ESL 052 High Interm ESL Writing – 5
ESL 053 High Interm ESL Listening/Observing – 5
ESL 054 High Interm ESL Integrated – 5
ESL 055 High Interm ESL Comp Tech. and Job Readiness – 5
ESL 056 High Interm ESL Intensive Oral Com. and Grammar– 5
ESL 057 High Interm ESL Workforce – 5

ADVANCED ESL

ESL 060 Advanced ESL Speaking – 6
ESL 061 Advanced ESL Reading – 6
ESL 062 Advanced ESL Writing – 6
ESL 063 Advanced ESL Listening/Observing – 6
ESL 064 Advanced ESL Integrated – 6
ESL 065 Advanced ESL Computer Tech. and Job Readiness – 6
ESL 066 Advanced ESL Intens Oral Comm and Grammar – 6
ESL 067 Advanced ESL Workforce – 6
ESL 099 I-Best Academic Support

EDUCATIONAL INTERVIEW

ESL 090 Educational Interview

■ GED PREPARATION

Faculty: Bill Orrange (FS); Teah Bergstrom (PY)

Individuals who have not completed high school may earn a Certificate of Educational Competency through the state of Washington with a satisfactory score on the General Educational Development (GED) test. Pierce College is authorized as a testing center by the GED Testing Service of the American Council on Education. Students who receive their GEDs improve their employability, and may enter a vocational program or begin a college program. GED classes are offered daytime or evening on campus or in the community.

GED 011 GED English II
GED 012 GED English III
GED 013 GED Literature/The Arts
GED 020 GED Reading
GED 025 GED Social Studies
GED 031 GED Math II
GED 032 GED Math III
GED 050 ABE Low Adult Secondary Education – GED 1
GED 051 ABE High Adult Secondary Education – GED 2
GED 070 ABE Low Adult Secondary Education – Reading
GED 071 ABE Low Adult Secondary Education – Writing
GED 072 ABE Low Adult Secondary Education – Math
GED 074 ABE Low Adult Secondary Education – Integrated
GED 080 ABE High Adult Secondary Education – Reading
GED 081 ABE High Adult Secondary Education – Writing
GED 082 ABE High Adult Secondary Education – Math
GED 084 ABE High Adult Secondary Education – Integrated
GED 090 Educational Interview

REGISTRATION PROCEDURE

Contact the Transitional Education Center and make an appointment for orientation and placement testing:

Pierce College Fort Steilacoom: (253) 964-6657
Pierce College Puyallup: (253) 840-8463

■ HIGH SCHOOL COMPLETION

Faculty: Bill Orrange (District)
Degree: High School Diploma

GENERAL REQUIREMENTS FOR ADMISSION

Any individual who does not have a high school diploma and who meets the college's general admission requirements may enter the high school completion program. However, the program is not designed for students who normally would be enrolled in the regular public school

system. These students may attend under certain conditions. Some of the guidelines are:

1. A student who is still attending high school must obtain a release from his or her school district showing the class(es) the student is permitted to take.
2. Any student under the age of 19 must obtain a release from the school district where he or she would normally be attending high school.

REGISTRATION PROCEDURE

1. Make an appointment with an advisor.

   Pierce College Fort Steilacoom: (253) 912-3743

   Pierce College Puyallup: (253) 864-3318
2. For students who are receiving a high school diploma from Pierce College, a transcript of all previous high school or other school work is required. If necessary, Pierce College's staff will help students obtain transcripts.

TUITION

Persons 19 years of age or older who meet the requirements for Washington state residency for tuition-paying purposes, or who are active-duty military or dependents of same, will pay a reduced rate for classes that apply toward their high school completion program. Washington state residents under 19 years of age must pay resident tuition rates.

Persons who DO NOT meet Washington state residency requirements pay resident tuition rates for high school completion classes.

Current tuition rates and information relating to Washington state residency requirements are available from the admissions office at either college.

REQUIREMENTS

1. All students must meet Pierce College High School and Washington state credit requirements:
   A. All students must complete a culminating project to receive a diploma.
   B. Any student who began high school in 2004 or later must take and pass the Washington State Assessment or state-approved alternatives.
   C. Pierce College requires 20 credits and the above requirements for a high school diploma.
2. All students must take the COMPASS test.
3. Home schooled students must provide transcripts and test documentation per Washington state and Pierce College requirements.

Students fulfill their high school requirements by taking appropriate college classes and completing the high school Culmination Project class coursework.

■ INTEGRATED BASIC EDUCATION AND SKILLS TRAINING (I-BEST)

Pierce College Integrated Basic Education and Skills Training (I-BEST) is open to all Adult Basic Education (ABE), General Education Development (GED), English as a Second Language (ESL), and pre-college level adult learners. I-BEST programs provide quality academic and workforce skills training and teaching excellence. All I-BEST programs have two instructors in all courses, added hours to increase success, and advising support. Students interested in careers in Early Childhood Education, Language Interpreting, Criminal Justice, Business Technology and Nursing Assistant are ideal for I-BEST. Students in I-BEST programs:

- Earn a college certificate that prepares them to work in a high demand career;
- Increase their academic skills while earning college-level credits applicable to a college degree;
- Design a career pathway that provides meaningful mileposts and real destinations;
- Increase their abilities and opportunities for advancement in their chosen career;
- Build a bridge to the future through a commitment to lifelong learning.

For more information, call (253) 964-6447 or (253) 964-6675.

Anthropology/Archaeology

Faculty: Dr. Mary L. Russell (FS); Dr. Kathryn Keith (PY)

Degree: Associate of Arts (AA-DTA)

Anthropology, the study of human beings, combines four subfields to offer a broad-based education for college transfer or personal enrichment:

sociocultural anthropology, the description and analysis of living cultures; archaeology, the description and analysis of past cultures; anthropological linguistics, dealing with the totality of world languages; and, biological anthropology, examining human beings as biological organisms.

Students planning to transfer as anthropology majors should complete the AA-DTA degree requirements and must check with the transfer institution regarding specific requirements and transferable credits. Anthropology majors should work closely with a faculty advisor to plan an overall program of study.

■ ANTHROPOLOGY MAJOR

All anthroplogy majors should include the following courses in their degree program:

ANTH& 204	Archaeology	5
ANTH& 205	Biological Anthropology	5
ANTH& 206	Cultural Anthropology	5
ENGL 103	Composition – Argumentation and Research	5

Anthropology majors should also take at least two quarters of world language.

In addition to the courses listed above, the following courses are recommended for each of the subfields. Courses marked with an asterisk (*) are additional courses that would apply to that area of study, and could be considered for elective credit.

SOCIOCULTURAL FOCUS

ANTH& 106	American Mosaic	5
ANTH 240	Women in Cross-Cultural Perspective	5
PSYC& 100	General Psychology	5
and/or		
SOC& 101	Intro to Sociology	5
GEOG& 200	Human Geography	5
or		
GEOG& 210	Physical Geography	5
MATH& 146	Introduction to Statistics	5
* ANTH& 210	Indians of North America	5
* ANTH& 216	Northwest Coast Indian	5

ARCHAEOLOGY FOCUS

ANTH& 104	World Prehistory	5
ANTH 107	Archaeology of Ancient Civilizations	5
GEOG& 200	Human Geography	5
GEOG& 210	Physical Geography	5
GEOL& 101	Physical Geology	5
MATH& 146	Introduction to Statistics	5
* ANTH& 210	Indians of North America	5
* ANTH& 216	Northwest Coast Indian	5

BIOLOGICAL ANTHROPOLOGY FOCUS

BIOL& 160	General Biology w/lab	5
BIOL& 241	Human Anatomy and Physiology I	6
CHEM& 121	Introduction to Chemistry	5
MATH& 151	Calculus I	5
PSYC& 100	General Psychology	5
and/or		
SOC& 101	Intro to Sociology	5
GEOG& 200	Human Geography	5
or		
GEOG 100	Introduction to Geography	5
ANTH& 236	Forensic Anthropology	5
BIOL& 260	Microbiology	5
GEOL& 101	Physical Geology	5
* ANTH& 104	World Prehistory	5

Pierce College's archaeology program provides a broad-based education for college transfer or personal enrichment. Archaeology is the study of past cultures, accomplished by excavating artifacts and ecofacts from archaeological sites, studying them to determine the age of the site and

the lifeways of the people who were there, and formulating hypotheses to explain why people lived as they did.

Students planning to transfer as archaeology majors should complete AA-DTA degree requirements and must check with the transfer institution regarding specific requirements and transferable credits. Archaeology majors should work closely with a faculty advisor to plan an overall program of study.

	ANTH& 104	World Prehistory	5
	ANTH 107	Archaeology of Ancient Civilizations	5
*	ANTH& 210	Indians of North America	5
*	ANTH& 216	Northwest Coast Indians	5
	GEOL& 103	Historical Geology	5

Art

Faculty: David Roholt (FS); Ann Johnston-Schuster (PY)

Degrees: Associate of Arts (AA-DTA); AA – Option B

Pierce College's art department offers a wide range of studio and lecture courses for art majors, digital design students, and those who enroll simply to satisfy their creative interests and abilities. Students planning to pursue an art major at a transfer institution are encouraged to take studio courses building on the fundamentals of design and drawing as well as those offered in photography and painting.

Lecture classes in the visual arts are also offered to provide a broad-based background in creative arts. Students should work closely with a faculty advisor to plan a program that will meet AA-DTA requirements as well as the specific requirements of their chosen transfer institution.

■ ART MAJOR – AA-DTA DEGREE

The following courses are recommended, in addition to those required for the AA-DTA degree:

ART& 100	Art Appreciation	5
ART 101-103	Design (Beginning/Intermediate/Advanced)	5 ea
ART 105	Introduction to Art	5
ART 107-109	Photography (Beginning/Interm/Advanced)	5 ea
ART 111-113	Drawing (Beginning/Intermediate/Advanced)	5 ea
ART 201-203	Painting (Beginning/Intermediate/Advanced)	5 ea

■ ART MAJOR – AA-DTA OPTION B

Art major transfer students may also wish to consider an AA – Option B. This is a specific agreement between the student and the transfer institution that may include the possibility of additional studio classes as part of the first and second year art curriculum at Pierce College.

Astronomy

Faculty: Robert Sager, Hillary Stephens (FS); Tom Bush (PY)

Degree: Associate of Arts (AA-DTA)

Astronomy is the science of the celestial bodies — their motions, positions, distances, magnitudes and relationships to Earth. Pierce offers introductory courses in astronomy for students who are interested in the study of the moon, planets, stars, nebulae, and galaxies. Students who wish to pursue a transfer degree with studies in Earth and space sciences are encouraged to complete requirements for the AA-DTA degree and to check with their transfer institution regarding specific requirements and transferable credits.

■ ASTRONOMY/EARTH SCIENCE MAJOR

In addition to courses which meet AA-DTA requirements, the following introductory astronomy courses are offered:

ASTR& 100	Survey of Astronomy (non-lab)	5
ASTR& 101	Intro to Astronomy (lab)	5
ASTR 105	Survey of Astrobiology	5
ASTR& 110	The Solar System	5
ASTR& 115	Stars, Galaxies, and Cosmos	5

Atmospheric Science

Faculty: Robert Sager (FS); Tom Bush (PY)

Degree: Associate of Arts (AA-DTA)

Atmospheric science is an Earth science that includes topics as diverse as weather forecasting, climate change, air quality, mountain weather, marine weather, El Niño, the ozone hole, ice ages, and the Earth's weather and climate from the tropics to the poles. It considers problems that are both scientifically challenging and critical for the welfare of modern society.

Atmospheric science majors are prepared for a range of career options, including weather forecasting, environmental science, meteorology, TV weather reporting, marine and aviation sciences, science education, further graduate study, or a variety of alternative career paths.

■ ATMOSPHERIC SCIENCE MAJOR

ATMOS 101	Intro to Weather	5
CHEM& 161-163	General Chemistry w/lab I-III	5 ea
Computer Sciences and Programming		5
MATH& 141	Precalculus I	5
MATH& 151-153	Calculus I-III	5 ea
PHYS& 221-223	Engineering Physics I-III	6 ea
Electives in the Earth Sciences and Geography (GEOL& 101, GEOG 205, ENVS& 100, OCEA& 101)		5

Biology UNIVERSITY TRANSFER

See also Microbiology.

Faculty: Barry Putman (FL); Mary Bath-Balogh, Robert Johnson, Ron May, (FS); Dr. Dale Blum, Joseph Cates-Carney, Scott Sweet (PY)

Degrees: Associate of Arts (AA-DTA); AA – Option B
Associate of Science (AS)

Pierce College's biology, health science, microbiology, and natural science departments offer courses for students planning to transfer to four-year institutions or complete associate degree requirements in other programs, and for those who have a personal interest in these areas for elective credit. Transfer students should complete the AS-Track 1 , Associate in Biology DTA/MRP, or the AA - Option B requirements, and should check with the transfer institution regarding specific requirements and transferable credits.

If interested in biology education, see Associate in Biology Education (AS-T) under Education.

Preparation for allied health professions, such as nursing, physical therapy, occupational therapy, etc., has different requirements. Consult the Health Professions section.

See Degree Outcomes on page 45.

■ ASSOCIATE IN BIOLOGY DTA/MRP

GENERAL DEGREE REQUIREMENTS

- Minimum of 90 quarter hours of transferable credit
- College cumulative GPA of at least 2.0
- ENGL& 101 - English Composition I
- Minimum of 25 of last 45 credits must be earned at Pierce College
- 1.5 grade (C-) or better for all requirements, unless prerequisites state otherwise
- "Pass" (P) grades may be used for General Elective credits only
- Independent Study may be used only for General Elective credits
- Cooperative work experience/work-based learning credits may be applied to the General Elective area only
- Once a course has been successfully completed, credits obtained may be used only once, even if a course is listed in more than one category

COURSE REQUIREMENTS

COMMUNICATION SKILLS (10 CREDITS)

ENGL& 101	English Composition I (required)	5
Select one:		5
ENGL 103	Composition – Argumentation and Research	
ENGL 107	Composition – Writing about Literature	

QUANTITATIVE/SYMBOLIC REASONG SKILLS (5 CREDITS)

Prerequisites required.

MATH& 151	Calculus I	
or		5
MATH& 146	Introduction to Statics*	

**Statistics may substitute for Calculus 1 at some institutions; students are encouraged to check with the transfer institution early in their decision process to confirm requirements.*

HUMANITIES (15 CREDITS)

At least two disciplines with no more than 10 credits allowed from any one discipline. No more than five credits of world (foreign) language and no more than five credits in performance/skills courses are allowed. See AA-DTA GER list for appropriate classes.

SOCIAL SCIENCES(15 CREDITS)

Credits selected must be from at least two disciplines and no more than 10 credits allowed from any one discipline. See AA-DTA GER list for appropriate classes.

NATURAL SCIENCES (30 CREDITS)

BIOL& 211-213	Majors: Cellular/Animal/Plant	15
CHEM& 161-163	General Chemistry w/lab I-III	15

GENERAL ELECTIVES(15 CREDITS)

Additional college-level courses so that total earned is at least 90 credits. May include prerequisites for major courses (e.g., precalculus), additional major coursework, (e.g., CHEM& 261-263) or specific general education or other university requirements, as approved by the advisor.

Total Credits Required **90**

Notes

1. Students completing this degree will receive the same priority consideration for admission to the baccalaureate institution as they would for completing the direct transfer associate degree and will be given junior status by the receiving institution.
2. Courses in Humanities/Social Science must come from the current ICRC distribution list in order to count as General Education or General University Requirements (GERs/GURs) at the receiving institution. Additional general educational, cultural diversity, and foreign language requirements, as required by the transfer institution, must be met prior to the completion of a baccalaureate degree.
3. Students are responsible for checking specific major requirements of baccalaureate institutions in the year prior to transferring.

Business PROFESSIONAL/TECHNICAL

Faculty: Dr. Paul Gerhardt, Douglas Edison (FS)

Degree: Associate in Business

Certificates: Business
Customer Service
Entrepreneurship
Fashion Merchandising
Human Resource Management
Marketing
Pupil Transportation Management
– See Pupil Transportation Supervision
Retail Management
Sales
Supervision and Management

■ ASSOCIATE IN BUSINESS

The Associate in Business program offers a flexible curriculum that provides a balanced background in business with areas of specialization. Emphasis in Accounting offers instruction in practical accounting combined with a fundamental understanding of general business operations. A Business Management focus offers a broad range of classes to strengthen management skills and increase opportunities for advancement. A Marketing specialization offers training and experience in sales, promotion, e-commerce and international business. Retail/Fashion Merchandising focuses on apparel design and construction, textiles and retailing. Students emphasizing Small Business/Entrepreneurship can acquire new skills to use in operating their own small business. Human Resource Management emphasizes a working knowledge of managing/developing people.

The Associate in Business degree program increases students' career alternatives and offers individuals working in any field the opportunity to develop, improve, or update knowledge and skills. A wide range of courses satisfying degree requirements is available during both daytime and evening hours. This degree will transfer to the Evergreen State College in Tacoma and Olympia.

Students who desire training in a combined area can design a program of study with their advisor.

Professional/technical program competencies can be found on the Pierce College website at www.pierce.ctc.edu/proftech.

GENERAL REQUIREMENTS (10 CREDITS)

Select one:			5
*	ENGL& 101	English Composition I	
*	BUS 105	Business English I	
Select one:			5
	BUS 107	Business Mathematics	
*	MATH& 107	Math in Society	
	MATH 156	Finite Math	

BUSINESS CORE (38-40 CREDITS)

	BUS& 101	Intro to Business	5
*	BUS 240	Human Relations in the Workplace	5
	BUS 250	Business Communications	5
*	MNGT 130	Customer Relationship Management	5
	MNGT 282	Marketing	5
Select one:			5
	BUS& 201	Business Law	
	POLS& 200	Introduction to Law	
Select one:			5
	CIS 130	Microcomputer Applications	
(if student does not take CIS 130 - must take 5 BTECH credits)			
	BTECH 210 A-E		
	BTECH 220 A-E		
Select one:			3-5
**	CIS 110	Intro to Microcomputer Business Apps. (3)	
	CIS 121	Intro to Computer Information Systems (5)	

MANAGEMENT AND CAREER SKILLS (13 CREDITS)

MNGT 186	Professional Development	5
MNGT 187	Career Communication Skills	5
MNGT 198	Work-based Learning/Internship	3

ECONOMICS (5 CREDITS)

Select one:		5
ECON 110	Survey of Economics	
ECON& 201	Micro Economics	

ACCOUNTING (5-10 CREDITS)

Select one:		5-10
ACCT 101	Survey of Accounting (5)	
ACCT 170/171	Practical Accounting I and II (10)	
ACCT& 201/202	Principles of Accounting I and II (10)	

(ACCT& 201/202 required for Accounting area of focus)

ELECTIVE (3-5 CREDITS)

100 level or above course		3-5

AREA OF FOCUS

Any exception must have advisor approval. Select any **ONE** of the following:

ACCOUNTING (25 CREDITS)

ACCT 179	Federal Income Tax Preparation	5
ACCT 180	Accounting Systems	5
ACCT& 203	Principles of Accounting III	5
ACCT 275	Payroll and Business Taxes	5
ACCT 285	Auditing and Advanced Analytical Techniques	5

BUSINESS MANAGEMENT (25 CREDITS)

BUS 245	Global Business: Intro and Essentials	5
MNGT 182	Creative Sales	5
MNGT 283	Principles of Supervision and Leadership	5
MNGT 284	Small Business Planning	5
MNGT 295	Human Resource Management	5

HUMAN RESOURCE MANAGEMENT(25 CREDITS)

ACCT 275	Payroll and Business Taxes	5
MNGT 276	Employment Law	5
MNGT 283	Principles of Supervision and Leadership	5
MNGT 295	Human Resource Management	5
MNGT 296	Current Trends in Human Resources	5

MARKETING (25 CREDITS)

BUS 135	Business, Marketing, and the Internet	5
MNGT 182	Creative Sales	5
MNGT 275	Intro to Visual Promotion	5
MNGT 293	Retailing and Merchandising	5
Select one:		5
BUS 245	Global Business: Intro and Essentials	
MNGT 283	Principles of Supervision and Leadership	

RETAIL/FASHION MERCHANDISING (25 CREDITS)

FASH 160	Intro to Fashion Merchandising	5
FASH 162	Apparel Design and Construction Analysis	5
FASH 163	Consumer Textiles	5
MNGT 275	Intro to Visual Promotion	5
MNGT 293	Retailing and Merchandising	5

SMALL BUSINESS/ENTREPRENEURSHIP (25 CREDITS)

MNGT 182	Creative Sales	5
MNGT 276	Employment Law	5
MNGT 283	Principles of Supervision and Leadership	5
MNGT 284	Small Business Planning	5
MNGT 295	Human Resource Management	5
	Total Credits Required	**99-108**

**Meets related instruction requirements for professional/technical programs.*
***Minimum of 35 wpm keyboarding required.*

CERTIFICATE IN BUSINESS

REQUIREMENTS (40 CREDITS)

† ACCT& 201	Principles of Accounting I	5
† ACCT& 202	Principles of Accounting II	5
BUS& 101	Introduction to Business	5
† CIS 121	Intro to Computer Information Systems	5
† ECON& 201	Micro Economics	5
† ECON& 202	Macro Economics	5
† ENGL& 101	English Composition I	5
† MATH& 146	Intro to Statistics	5
Select one:		5
BUS& 201	Business Law	
POLS& 200	Introduction to Law	
Select one:		5
BUS 240	Human Relations in the Workplace	
PSYC& 100	Introduction to Psychology	
	Total Credits Required	**50**

†Prerequisite required.

CERTIFICATE IN CUSTOMER SERVICE

REQUIREMENTS (43-45 CREDITS)

BUS 240	Human Relations in the Workplace	5
†* BUS 107	Business Mathematics	5
* MNGT 130	Customer Relationship Management	5
MNGT 182	Creative Sales	5
MNGT 186	Professional Development	5
MNGT 187	Career Communication Skills	5
MNGT 282	Marketing	5
Select one:		3-5
** CIS 110	Intro to Micro Business Applications (3)	
** CIS 121	Intro to Computer Information Systems (5)	
**Select one:*		5
† BUS 105	Business English I	
† ENGL& 101	English Composition I	
	Total Credits Required	**43-45**

**Meets related instruction requirements for professional/technical programs.*
***Minimum of 35 wpm keyboarding required.*
†Prerequisite required.

CERTIFICATE IN ENTREPRENEURSHIP

REQUIREMENTS (43-45 CREDITS)

ACCT 101	Survey of Accounting	5
ACCT 275	Payroll and Business Taxes	
†* BUS 107	Business Mathematics	5
* MNGT 130	Customer Relationship Management	5
MNGT 182	Creative Sales	5
MNGT 282	Marketing	5
MNGT 284	Small Business Management	5
MNGT 295	Human Resource Management	5
Select one:		3-5
** CIS 110	Intro to Micro Business Applications (3)	
** CIS 121	Intro to Computer Information Systems (5)	
**Select one:*		5
† BUS 105	Business English I	
† ENGL& 101	English Composition I	
	Total Credits Required	**43-45**

†Prerequisite required.
**Meets related instruction requirements for professional/technical programs.*
***Minimum of 35 wpm keyboarding required.*

CERTIFICATE IN FASHION MERCHANDISING

REQUIREMENTS (15 CREDITS)

FASH 160	Intro to Fashion Merchandising	5
FASH 162	Fashion Design & Clothing Construction Analysis	5
FASH 163	Consumer Textiles	5

BUSINESS MANAGEMENT REQUIREMENTS (20 CREDITS)

MNGT 182	Creative Sales	5
MNGT 186	Professional Development	5
MNGT 275	Intro to Visual Promotion	5
MNGT 293	Retailing and Merchandising	5

GENERAL BUSINESS REQUIREMENTS (18 -20 CREDITS)

ACCT 101	Survey of Accounting	5
† BUS 107	Business Mathematics	5
Select one:		3-5
** CIS 110	Intro to Micro Business Applications (3)	
** CIS 121	Intro to Computer Information Systems (5)	
**Select one:*		5
† BUS 105	Business English I	
† ENGL& 101	English Composition I	
	Total Credits Required	**53-55**

**Meets related instruction requirements for professional/technical programs.*
***Minimum of 35 wpm keyboarding required.*
†Prerequisite required.

CERTIFICATE IN HUMAN RESOURCE MANAGEMENT

REQUIREMENTS (48-50 CREDITS)

† ACCT 170	Practical Accounting I	5
† ACCT 275	Payroll and Business Taxes	5
†* BUS 107	Business Math	5
* BUS 240	Human Relations in the Workplace	5
MNGT 276	Employment Law	5
MNGT 283	Principles of Supervision and Leadership	5
MNGT 295	Human Resource Management	5
MNGT 296	Current Trends in Human Resources	5
Select one:		5
BUS& 101	Introduction to Business	
MNGT 284	Small Business Planning	
Select one:		3-5
** CIS 110	Intro to Micro Business Applications (3)	
** CIS 121	Intro to Computer Information Systems (5)	
**Select one:*		5
† BUS 105	Business English I	
† ENGL& 101	English Composition I	
	Total Credits Required	**53-55**

**Meets related instruction requirements for professional/technical programs.*
***Prereq: Keyboarding proficiency of 35 wpm or better.*
†Prerequisite required.

CERTIFICATE IN MARKETING

In addition to the requirements listed below, students are encouraged to take ACCT 101 (Survey of Accounting).

REQUIREMENTS (48-50 CREDITS)

†* BUS 107	Business Mathematics	5
* MNGT 130	Customer Relationship Management	5
MNGT 182	Creative Sales	5
MNGT 275	Intro to Visual Promotion	5
MNGT 282	Marketing	5
MNGT 293	Retailing and Merchandising	5
Select one:		5
BUS& 101	Introduction to Business	
BUS 245	Global Business: Intro and Essentials	
Select one:		3-5
** CIS 110	Intro to Micro Business Applications (3)	
** CIS 121	Intro to Computer Information Systems (5)	
**Select one:*		5
† BUS 105	Business English I	
† ENGL& 101	English Composition I	
	Total Credits Required	**48-50**

** Meets related instruction requirements for professional/technical programs.*
***Minimum of 35 wpm keyboarding required.*
†Prerequisite required.

■ CERTIFICATE IN RETAIL MANAGEMENT

In addition to the requirements listed below, students are encouraged to take ACCT 101 (Survey of Accounting).

REQUIREMENTS (48-50 CREDITS)

†* BUS 107	Business Mathematics	5
* MNGT 130	Customer Relationship Management	5
MNGT 182	Creative Sales	5
MNGT 275	Intro to Visual Promotion	5
MNGT 282	Marketing	5
MNGT 284	Small Business Management	5
MNGT 293	Retailing and Merchandising	5
Select one:		3-5
** CIS 110	Intro to Micro Business Applications (3)	
** CIS 121	Intro to Computer Information Systems (5)	
**Select one:*		5
† BUS 105	Business English I	
† ENGL& 101	English Composition I	
Select one:		5
BUS 240	Human Relations in the Workplace	
MNGT 186	Professional Development	
	Total Credits Required	**48-50**

** Meets related instruction requirements for professional/technical programs.*
***Minimum of 35 wpm keyboarding required.*
†Prerequisite required.

■ CERTIFICATE IN SALES

In addition to the requirements listed below, students are encouraged to take ACCT 101 (Survey of Accounting).

REQUIREMENTS (43-45 CREDITS)

† BUS 107	Business Mathematics	5
MNGT 182	Creative Sales	5
MNGT 186	Professional Development	5
MNGT 282	Marketing	5
MNGT 283	Principles of Supervision and Leadership	5
Select one:		5
* MNGT 130	Customer Relationship Management	
MNGT 293	Retailing and Merchandising	
Select one:		5
BUS& 101	Introduction to Business	
MNGT 284	Small Business Planning	
Select one:		3-5
** CIS 110	Intro to Micro Business Applications (3)	
** CIS 121	Intro to Computer Information Systems (5)	
**Select one:*		5
† BUS 105	Business English I	
† ENGL& 101	English Composition I	
	Total Credits Required	**43-45**

** Meets related instruction requirements for professional/technical programs.*
***Minimum of 35 wpm keyboarding required.*
†Prerequisite required.

■ CERTIFICATE IN SUPERVISION AND MANAGEMENT

REQUIREMENTS (43-45 CREDITS)

ACCT 101	Survey of Accounting	5
BUS& 101	Introduction to Business	5
†* BUS 107	Business Mathematics	5
* BUS 240	Human Relations in the Workplace	5
MNGT 186	Professional Development	5
MNGT 283	Principles of Supervision and Leadership	5
MNGT 295	Human Resource Management	5
Select one:		3-5
** CIS 110	Intro to Micro Business Applications (3)	
** CIS 121	Intro to Computer Information Systems (5)	
**Select one:*		5
† BUS 105	Business English I	
† ENGL& 101	English Composition I	
	Total Credits Required	**43-45**

***Minimum of 35 wpm keyboarding required.*
†Prerequisite required.
•Meets related instruction requirements for professional/technical programs.

Business UNIVERSITY TRANSFER

Faculty: Doug Jensen, Tom Phelps, Blake Sorem (FS); Steve Jones (PY)
Degree: Associate in Business (DTA/MRP)

■ ASSOCIATE IN BUSINESS (DTA/MRP)

This transfer degree ensures that a student who completes the Associate in Business – DTA/MRP degree will have satisfied the lower division general education (or core) requirements and lower division business requirements at the baccalaureate institutions.

This articulated degree for the business major is specific to public institutions; however, since the degree follows the statewide articulated DTA and is designated in the title on the transcript, it will be accepted for admission to private institutions in the same manner as any other DTA-based degree.

See Degree Outcomes on page 45.

BASIC DEGREE REQUIREMENTS

- Minimum of 90 earned credits in courses numbered 100 or above
- ENGL& 101 - English Composition I
- Minimum of 25 of last 45 credits must be earned at Pierce College
- Cumulative GPA of 2.0 or better
- Minimum grade for business major-related courses is a 2.0. These courses are denoted on this degree sheet by an asterisk (*).
- 1.5 grade (C-) or better for all other Core Requirements unless prerequisites state otherwise
- "Pass" (P) grades may be used only for General Elective credits.
- Independent Study may be used only for General Elective credits.
- Cooperative work experience/work-based learning credits may be applied to the General Elective area only.
- Once a course has been successfully completed, credits obtained may be used only once, even if course is listed in more than one category.

DEGREE REQUIREMENTS

Courses should be selected from the lists prescribed on this degree sheet only.

COMMUNICATION SKILLS (10 CREDITS)

ENGL& 101	English Composition I	5
ENGL 103	Composition – Argumentation and Research	
or		5
ENGL 107	Composition – Writing About Literature	

QUANTITATIVE/SYMBOLIC REASONING SKILLS (10 CREDITS)
Students must meet stated math prerequisite before enrolling in courses; see course descriptions or quarterly schedule for details.

MATH& 148	Elements of Calculus	5
MATH 156	Finite Mathematics	5

HUMANITIES (15 CREDITS)
Must include at least two disciplines, with no more than five credits from performance/skills courses. No more than five credits are allowed in world (foreign) language to satisfy the Humanities requirement.

BUSINESS SPECIFIC COURSES/GTE (35 CREDITS)

*	ACCT& 201	Principles of Accounting I	5
*	ACCT& 202	Principles of Accounting II	5
*	ACCT& 203	Principles of Accounting III	5
*	ECON& 201	Micro Economics	5
*	ECON& 202	Macro Economics	5
	Other GTE		5
Select one			5
*	BUS& 201	Business Law	
*	POLS& 200	Introduction to Law	

For other transfer requirements, see clarification and notes at end of GER list.
A minimum grade of 2.0 in each course is required to obtain this degree.

NATURAL SCIENCES (NS) BIOLOGICAL/PHYSICAL/EARTH SCIENCE (15 - 18 CREDITS)
Must include at least two different disciplines in the biological, physical or earth science areas to include one laboratory science – indicated by an L. *MATH& 146 is required.*

	ASTR& 100	Survey of Astronomy	5
L	ASTR& 101	Intro to Astronomy	5
L	ASTR 105	Survey of Astrobiology	5
L	ASTR& 110	The Solar System	5
L	ASTR& 115	Stars, Galaxies and Cosmos	5
L	ATMOS 101	Intro to Weather	5
L	BIOL& 100	Survey of Biology	5
L	BIOL& 160	General Biology w/lab	5
	BIOL& 170	Human Biology	5
L	BIOL& 175	Human Biology w/Lab	5
L	BIOL& 211	Majors: Cellular	5
L	BIOL& 212	Majors: Animal	5
L	BIOL& 213	Majors: Plant	5
L	BIOL& 241	Human Anatomy and Physiology 1	6
L	BIOL& 242	Human Anatomy and Physiology 2	6
L	BIOL& 260	Microbiology	5
	CHEM& 100	Preparatory Chemistry	5
L	CHEM& 110	Chemistry Concepts	5
L	CHEM& 121	Intro to Chemistry	5
L	CHEM& 131	Intro to Organic and Biochemistry	6
	CHEM& 139	General Chemistry Prep	5
L	CHEM& 161-163	General Chemistry w/ lab I-III	5
	ENVS& 100	Essentials of Environmental Science	5
	ENVS 140	Western Water Problems	5
	ENVS 150	Environmental Issues	5
L	GEOL& 101	Intro to Physical Geology	5
L	GEOL& 103	Historical Geology	5
L	GEOL 107	Earth Systems Science	5
L	GEOL& 110	Environmental Geology	5
L	GEOL& 115	Geology of the National Parks	5
L	GEOL& 208	Geology of the Pacific NW	5
L	GEOL 220	Earth Resources and the Environment	5
	MATH& 146	Intro to Statistics (required)	5
L	NSCI 150	Nature	5
L	NSCI 160	Environmental Biology	5
L	OCEA& 101	Intro to Oceanography	5
L	OCEA 170	Marine Biology	5
L	PS 101	Intro to Physical Science	5
L	PHYS& 100	Physics for Non-Science Majors	5
L	PHYS& 121-123	General Physics I-III	5
L	PHYS& 221-223	Engineering Physics I-III	6

GENERAL ELECTIVES (5 CREDITS)
Maximum of five credits of courses numbered 100 and above may be applied to this area. See notes below or check four-year information for appropriate elective course needed — e.g., a foreign language or computer course requirement.

Total Credits Required 90-93

**Minimum grade of 2.0 required to obtain degree.*

NOTES AND CLARIFICATIONS
Business School Admission
Admission to a Washington public baccalaureate school of business is not guaranteed to students holding an Associate in Business – DTA degree. It is strongly recommended that students contact the baccalaureate-granting business school early in their Associate in Business – DTA program to be advised about additional requirements (e.g., GPA) and procedures for admission.

Please note that admission for many business schools is competitive, and higher GPA and course grades are often required. Please check with your destination school and college. In addition, the minimum grade for business courses is a 2.0. These courses are denoted by an asterisk (*). University of Washington (UW) Bothell requires a minimum of 2.0 in all prerequisite courses.

Specific University Information
For program planning purposes, students are advised that the lower-division requirements for individual Washington public university business schools may vary.

Notes:

1. For admission to UW Seattle, Bothell and Tacoma, two years of high school foreign language or two quarters of college-level foreign language are required. Students not admitted to the business school at UW Seattle and selecting an alternate major from the College of Arts and Sciences will be required to demonstrate foreign language proficiency (grade of 2.0 in third quarter of foreign language).

2. Washington State University's (WSU) business school requires a political science course, speech communication course and either a psychology or sociology course for graduation; UW Tacoma's business school encourages prospective transfers to take five credits in psychology, sociology or anthropology.

3. WSU's business school requires CIS 121 (Intro to Computer Information Systems).

4. Western Washington University's (WWU) Manufacturing Management requires CHEM& 121 (Intro to Chemistry) and PHYS& 100 (Intro to Physics).

5. POLS& 200 or BUS& 201. UW requires POLS& 200; EWU and WSU requires BUS& 201; either course will satisfy the requirements at Central Washington University, UW Bothell, UW Tacoma, WWU and WSU.

Business Information Technology PROFESSIONAL/TECHNICAL

Faculty: Amy Warren, Luann Wolden (FS); Carol McGonagill, Karen Scott(PY)

Degrees: Administrative Assistant: General Office
Administrative Assistant: Office Management
Administrative Assistant: International Business
Administrative Assistant: Medical Office Assistant

Certificates: Office Assistant: General
Office Assistant: Medical
Office Assistant: Medical Billing
Medical Transcription
Integrated Business Technology

Professional/technical program competencies can be found on the Pierce College website at www.pierce.ctc.edu/proftech.

■ ADMINISTRATIVE ASSISTANT: GENERAL OFFICE (ASSOCIATE)

Today's office environment requires support staff who have skills in business communications and computer technology. Students in the Administrative Assistant program prepare for careers in business, industry and government. When composing documents, students integrate information from various computer programs, including word processing, spreadsheets and presentations. An office internship is required.

BTECH REQUIREMENTS (47-51 CREDITS)

BTECH 112	Keyboard Skillbuilding I (or BTECH 116 A-B)	2
BTECH 113	Keyboard Skillbuilding II (or BTECH 116 C-D)	2
BTECH 120	Intro to Windows (or BTECH 118 A-C)	3
BTECH 135	Electronic 10-Key Calculator	3
Select both:		5
BTECH 146	Filing Review (2)	
BTECH 156	Records Management (3)	
or select:		
BTECH 145	Records and Database Management (5)	
BTECH 201	Professional Office Applications I *(or BTECH 200 A-B & BTECH 210 A-B & BTECH 225A)*	5
BTECH 202	Professional Office Applications II *(or BTECH 220 A-C & BTECH 225 B-C)*	5
BTECH 203	Professional Office Applications III *(or BTECH 200 C-D & BTECH 210 C-D & BTECH 220D)*	5
BTECH 241	Accounting for the Office Professional *(or ACCT 170 or ACCT 101)*	5

BTECH 245	Cooperative Work Experience	3
BTECH 246	Cooperative Work Experience	3
Select both:		2-5
BTECH 117A	Format Basic Business Documents (1)	
BTECH 117B	Format Advanced Business Documents (1)	
or select:		
BTECH 230	Machine Transcription I (5)	
Select both:		4-5
BTECH 248	Business Information Technology Seminar I (2)	
BTECH 249	Business Information Technology Seminar II (2)	
or select:		
MNGT 186	Professional Development (5)	

BUSINESS REQUIREMENTS (43 CREDITS)

BUS& 101	Introduction to Business	5
BUS& 201	Business Law	5
* BUS 105	Business English I	5
* BUS 106	Business English II	3
* BUS 107	Business Math	5
* BUS 240	Human Relations in the Workplace	5
BUS 245	Global Business: Intro and Essentials	5
* BUS 250	Business Communications	5
* MNGT 130	Customer Relationship Management	5
	Total Credits Required	**90-94**

**Meets related instruction requirements for professional/technical programs.*

■ ADMINISTRATIVE ASSISTANT: OFFICE MANAGEMENT (ASSOCIATE)

Experienced office workers find that the Office Management degree provides them with the necessary technical knowledge and supervisory skills to move into office management. Positions in private enterprise and government service are available in the fields of personnel, finance, production, marketing and administration. Students develop proficiency in using word processing, spreadsheet, database and presentation software. Students gain a solid foundation in business principles while focusing on supervisory skills. An office internship is required.

BTECH REQUIREMENTS (47-51 CREDITS)

BTECH 112	Keyboard Skillbuilding I (or BTECH 116 A-B)	2
BTECH 113	Keyboard Skillbuilding II (or BTECH 116 C-D)	2
BTECH 120	Intro to Windows (or BTECH 118 A-C)	3
BTECH 135	Electronic 10-Key Calculator	3
Select both:		5
BTECH 146	Filing Review (2)	
BTECH 156	Records Management (3)	
or select:		
BTECH 145	Records and Database Management (5)	
BTECH 201	Professional Office Applications I *(or BTECH 200 A-B, BTECH 210 A-B & BTECH 225A)*	5
BTECH 202	Professional Office Applications II *(or BTECH 220 A-C & BTECH 225 B-C)*	5
BTECH 203	Professional Office Applications III *(or BTECH 200 C-D, BTECH 210 C-D & BTECH 220D)*	5
BTECH 241	Accounting for the Office Professional *(or ACCT 170 or ACCT 101)*	5
BTECH 245	Cooperative Work Experience	3
BTECH 246	Cooperative Work Experience	3
Select both:		2-5
BTECH 117A	Format Basic Business Documents (1)	
BTECH 117B	Format Advanced Business Documents (1)	
or select:		
BTECH 230	Machine Transcription I (5)	
Select both:		4-5
BTECH 248	Business Information Technology Seminar I (2)	
BTECH 249	Business Information Technology Seminar II (2)	
or select:		
MNGT 186	Professional Development (5)	

BUSINESS REQUIREMENTS (43 CREDITS)

* BUS 105	Business English I	5
* BUS 106	Business English II	3
* BUS 107	Business Mathematics	5
BUS& 201	Business Law	5
* BUS 240	Human Relations in the Workplace	5
* BUS 250	Business Communications	5
* MNGT 130	Customer Relationship Management	5
MNGT 283	Principles of Supervision and Leadership	5
MNGT 295	Human Resource Management	5
	Total Credits Required	**90-94**

**Meets related instruction requirements for professional/technical programs.*

■ ADMINISTRATIVE ASSISTANT: INTERNATIONAL BUSINESS (ASSOCIATE)

International business assistants work in areas such as the Puget Sound, where a heavy dependence on international trade exists. They develop cultural understanding with required skills in one foreign language, anthropology and international business communication. Students develop computer skills, including word processing, spreadsheets, presentations, and databases. Students learn to produce complex business reports created from a variety of computer-generated information sources, as well as building on their grammar and business writing skills. An office internship is required.

BTECH REQUIREMENTS (46-51 CREDITS)

BTECH 112	Keyboard Skillbuilding I (or BTECH 116 A-B)	2
BTECH 113	Keyboard Skillbuilding II (or BTECH 116 C-D)	2
BTECH 120	Intro to Windows (or BTECH 118 A-C)	3
BTECH 135	Electronic 10-Key Calculator	3
Select both:		5
BTECH 146	Filing Review (2)	
BTECH 156	Records Management (3)	
or select:		
BTECH 145	Records and Database Management (5)	
BTECH 201	Professional Office Applications I *(or BTECH 200 A-B, BTECH 210 A-B & BTECH 225A)*	5
BTECH 202	Professional Office Applications II *(or BTECH 220 A-C & BTECH 225 B-C)*	5
BTECH 203	Professional Office Applications III *(or BTECH 200 C-D , BTECH 210 C-D & BTECH 220D)*	5
BTECH 241	Accounting for the Office Professional *(or ACCT 170 or ACCT 101)*	5
BTECH 245	Cooperative Work Experience	3
BTECH 246	Cooperative Work Experience	3
Select:		1-5
BTECH 117B	Format Advanced Business Documents (1)	
or select:		
BTECH 230	Machine Transcription I (5)	
Select both:		4-5
BTECH 248	Business Information Technology Seminar I (2)	
BTECH 249	Business Information Technology Seminar II (2)	
or select:		
MNGT 186	Professional Development (5)	

BUSINESS REQUIREMENTS (28 CREDITS)

* BUS 105	Business English I	5
* BUS 106	Business English II	3
* BUS 107	Business Math	5
BUS 245	Global Business: Intro and Essentials	5
* BUS 250	Business Communications	5
* MNGT 130	Customer Relationship Management	5

GENERAL REQUIREMENTS (25 CREDITS)

Foreign Language (same language)		15
Select at least one of the following:		5
ANTH& 106	American Mosaic	
ANTH& 206	Cultural Anthropology	
Select at least one:		5
GEOG 100	Intro to Geography	
GEOG 200	Human Geography	
	Total Credits Required	**99-104**

**Meets related instruction requirements for professional/technical programs.*

■ OFFICE ASSISTANT: GENERAL (CERTIFICATE)

Students who earn the General certificate gain a full range of basic employable skills in a relatively short time. Students complete courses in word processing, spreadsheet preparation, filing, database management and communications.

BTECH REQUIREMENTS (29-34 CREDITS)

	BTECH 112	Keyboard Skillbuilding I (or BTECH 116 A-B)	2
	BTECH 113	Keyboard Skillbuilding II (or BTECH 116 C-D)	2
	BTECH 120	Intro to Windows (or BTECH 118 A-C)	3
*	BTECH 135	Electronic 10-Key Calculator	3
	Select both:		5
	BTECH 146	Filing Review (2)	
	BTECH 156	Records Management (3)	
	or select:		
	BTECH 145	Records and Database Management (5)	
	BTECH 201	Professional Office Applications I (or BTECH 200 A-B, BTECH 210 A-B & BTECH 225A)	5
	BTECH 202	Professional Office Applications II (or BTECH 220 A-C & BTECH 225 B-C)	5
	Select:		
	BTECH 117A	Format Basic Business Documents	1
	or:		
	BTECH 230	Machine Transcription	5
	BTECH 245	Cooperative Work Experience	3

BUSINESS REQUIREMENTS (22-23 CREDITS)

*	BUS 105	Business English I	5
*	BUS 106	Business English II	3
*	BUS 250	Business Communications	5
*	MNGT 130	Customer Relationship Management	5
	Select both:		4-5
	BTECH 248	Business Information Technology Seminar I (2)	
	BTECH 249	Business Information Technology Seminar II (2)	
	or select:		
	MNGT 186	Professional Development (5)	
		Total Credits Required	**51-57**

**Meets related instruction requirements for professional/technical programs.*

■ INTEGRATED BUSINESS TECHNOLOGY (CERTIFICATE)

This new four-quarter program provides a customized pathway for Levels 5 and 6 English as a Second Language (ESL) students and Levels 3-6 Adult Basic Education (ABE) and GED students to successfully complete the Integrated Business Technology Certificate. The training is part of a longer pathway with all credits leading to completion of an associate degree in Business Information Technology.

QUARTER 1 (8 CREDITS)

BTECH 111	Keyboarding	3
BTECH 112	Keyboard Skillbuilding	2
BTECH 120	Intro to Windows	3

QUARTER 2 (8 CREDITS)

BTECH 135	Electronic 10-Key Calculator	3
BTECH 145	Records and Database Management	5

QUARTER 3 (9 CREDITS)

BTECH 205	Office Procedures	3
BUS 105	Business English I	5
CMPTR 108	PowerPoint	1

QUARTER 4 (12 CREDITS)

BTECH 113	Keyboard Skillbuilding II	2
BTECH 146	Filing Review	2
BTECH 201	Professional Office Applications I (or BTECH 200 A-B, BTECH 210A-B & BTECH 226A)	5
BTECH 245	Cooperative Work Experience	3
	Total Credits Required	**37**

■ ADMINISTRATIVE ASSISTANT: MEDICAL OFFICE ASSISTANT (ASSOCIATE)

Students in this program prepare to work in a variety of medical office settings, which include clinics, hospitals, nursing homes, laboratories, and physicians' and dentists' offices. Medical office assistants must work with a high degree of accuracy and a clear understanding of medical ethics, legality of medical reports, and empathy for patients.

A thorough knowledge of punctuation and grammar, medical terminology, medical transcription, medical forms (including basic coding and processing insurance forms), word processing, and accounting are essential elements of this program. Additional courses in spreadsheets and databases broaden the required computer knowledge in this field. An office internship is required.

BTECH REQUIREMENTS (63-67 CREDITS)

	BTECH 112	Keyboard Skillbuilding I (or BTECH 116 A-B)	2
	BTECH 113	Keyboard Skillbuilding II (or BTECH 116 C-D)	2
	BTECH 120	Intro to Windows (or BTECH 118 A-C)	3
	BTECH 135	Electronic 10-Key Calculator	3
	Select both:		5
	BTECH 146	Filing Review (2)	
	BTECH 156	Records Management (3)	
	or select:		
	BTECH 145	Records and Database Management (5)	
	BTECH 149	Intro to the Medical Office	2
	BTECH 150	Medical Terminology I	5
	BTECH 151	Medical Terminology II	5
	BTECH 201	Professional Office Applications I *(or BTECH 200 A-B, BTECH 210 A-B & BTECH 225A)*	5
	BTECH 202	Professional Office Applications II *(or BTECH 220 A-C & BTECH 225 B-C)*	5
	BTECH 203	Professional Office Applications III *(or BTECH 200 C-D, BTECH 210 C-D & BTECH 220D)*	5
	BTECH 230	Machine Transcription I (or BTECH 117B) (1)	1-5
	BTECH 245	Cooperative Work Experience	3
	BTECH 246	Cooperative Work Experience	3
	BTECH 250	Medical Forms	5
	BTECH 253	Medical Office Procedures	5
	Select both:		4-5
	BTECH 248	Business Info Technology Seminar I (2)	
	BTECH 249	Business Info Technology Seminar II (2)	
	or select:		
	MNGT 186	Professional Development (5)	

BUSINESS REQUIREMENTS (23 CREDITS)

*	BUS 105	Business English I	5
*	BUS 106	Business English II	3
*	BUS 240	Human Relations in the Workplace	5
*	BUS 250	Business Communications	5
*	MNGT 130	Customer Relationship Management	5

GENERAL REQUIREMENTS (7 CREDITS)

	BIOL& 170	Human Biology	5
**	HSCI 228	First Aid and CPR for Health Care Professionals	2
		Total Credits Required	**93-97**

**Meets related instruction requirements for professional/technical programs.*
***Valid First Aid/CPR card satisfies this requirement.*

■ MEDICAL TRANSCRIPTION CERTIFICATE

This program prepares graduates to work in a variety of medical office settings. Medical assistants and/or transcriptionists must work with a high degree of accuracy and a clear understanding of medical ethics, legality of medical reports and empathy of patients.

A through knowledge of punctuation and grammar, medical terminology, medical transcription, medical forms (including basic coding and processing insurance forms), word processing and accounting are essential elements of the program. An office internship is required.

BTECH REQUIREMENTS (37-40 CREDITS)

	BTECH 112	Keyboard Skillbuilding I (or BTECH 116 A-B)	2
	BTECH 135	Electronic 10-Key Calculator	3
	BTECH 149	Intro to the Medical Office	2
	BTECH 150	Medical Terminology I	5
	BTECH 151	Medical Terminology II	5
	BTECH 201	Professional Office Applications I (Word/Excel) *(or BTECH 200 A-B, BTECH 210 A-B & BTECH 225A)*	5
	BTECH 245	Cooperative Work Experience	3
	BTECH 251	Medical Transcription I	5
	BTECH 252	Medical Transcription II	5
	Select one:		2-5
	BTECH 248	Business Info Technology Seminar I (2)	
	MNGT 186	Professional Development (5)	

BUSINESS REQUIREMENTS (13 CREDITS)

	BIOL& 170	Human Biology	5
*	BUS 105	Business English I	5
*	BUS 106	Business English II	3

GENERAL REQUIREMENTS

HSCI 228	First Aid and CPR for Health Care Professionals	2
	Total Credits Required	**52-55**

**Meets related instruction requirements for professional/technical programs.*
***Valid First Aid/CPR card satisfies this requirement.*

■ OFFICE ASSISTANT: MEDICAL (CERTIFICATE)

As the front-office person, the receptionist greets patients, screens telephone calls, schedules appointments, and assists in records management and accounting. The medical receptionist works with a high degree of accuracy and a clear understanding of medical ethics, legality of medical reports, and empathy for patients. The medical receptionist student prepares for employment by taking courses in medical terminology, medical forms, office procedures, and word processing.

BTECH REQUIREMENTS (42-43 CREDITS)

BTECH 112	Keyboard Skillbuilding I (or BTECH 116 A-B)	2
BTECH 120	Introduction to Windows (or BTECH 118 A-C)	3
BTECH 135	Electronic 10-Key Calculator	3
Select both:		5
BTECH 146	Filing Review (2)	
BTECH 156	Records Management (3)	
or select:		
BTECH 145	Records and Database Management (5)	
BTECH 149	Intro to Medical Office	2
BTECH 150	Medical Terminology	5
BTECH 201	Professional Office Applications I	5
	(or BTECH 200 A-B, BTECH 210 A-B & BTECH 225A)	
BTECH 245	Cooperative Work Experience	3
BTECH 250	Medical Forms	5
BTECH 253	Medical Office Procedures	5
Select both:		4-5
BTECH 248	Business Info Technology Seminar I (2)	
BTECH 249	Business Info Technology Seminar II (2)	
or select:		
MNGT 186	Professional Development (5)	

BUSINESS REQUIREMENTS (20 CREDITS)

* BUS 105	Business English I	5
* BUS 106	Business English II	3
* BUS 240	Human Relations in the Workplace	5
* MNGT 130	Customer Relationship Management	5

GENERAL REQUIREMENTS

** HSCI 228	First Aid and CPR for Health Care Professionals	2
	Total Credits Required	**62-63**

**Meets related instruction requirements for professional/technical programs.*
***Valid First Aid/CPR card satisfies this requirement.*

■ OFFICE ASSISTANT: MEDICAL BILLING (CERTIFICATE)

Students in the program learn ICD-9-CM, CPT, and ADA coding. Graduates are able to code and bill accurately, ethically and assertively, to optimize reimbursement, research and explain coverage, and handle all components of claims processing. The certificate is designed to "step" into the Associate in Medical Office Assistant. Students who intend to transfer to a four-year institution should work closely with an advisor and complete AA requirements. This certificate is designed to prepare students for entry-level positions in medical and dental offices.

BTECH REQUIREMENTS (50 CREDITS)

BTECH 112	Keyboard Skillbuilding I (or BTECH 116 A-B)	2
BTECH 135	Electronic 10-Key Calculator	3
BTECH 145	Records and Database Management	5
or select:		
BTECH 146	Filing Review (2)	
BTECH 156	Records Management (3)	
BTECH 149	Intro to Medical Office	2
BTECH 150	Medical Terminology	5
BTECH 151	Medical Terminology II	
BTECH 201	Professional Office Applications I	5
	(or BTECH 200 A-B, BTECH 210 A-B & BTECH 226A)	
BTECH 245	Cooperative Work Experience	3
BTECH 250	Medical Forms	5
BTECH 253	Medical Office Procedures	5
BTECH 254	CPT Coding	5
BTECH 255	ICD-9-CM Coding	5

GENERAL REQUIREMENTS (12 CREDITS)

* BUS 105	Business English I	5
BIOL & 170	Human Biology	5
** HSCI 228	First Aid and CPR for Health Care Professionals	2
	Total Credits Required	**62**

**Meets related instruction requirements for professional/technical programs.*
***Valid First Aid/CPR card satisfies this requirement.*

Chemistry

Faculty: Megan Hess; Ted Wood (FS); Katherine Olsen (PY)

Degree: Associate of Arts (AA-DTA); AA – Option B
Associate of Science (AS-T)

Chemistry is the study of the materials that make up the physical universe and the transformations that these materials can undergo. Career opportunities include teaching, research, chemical laboratory work, chemical engineering, quality control, environmental monitoring, and medicine. Many opportunities are available to those with associate degrees, particularly as chemical lab technicians, but most positions require a bachelor's or graduate degree.

Pierce College offers courses for students planning to transfer to four-year institutions, complete an associate degree, prepare for nursing, dental hygiene or veterinary technology programs, as well as those who desire elective credits in natural science.

■ CHEMISTRY TRANSFER

This program does not necessarily qualify a student for an AA-DTA degree. General distribution requirements must be met for the AA-DTA degree. Students wishing to transfer to a four-year institution should discuss the Associate of Science degree (or the AA – Option B) with an advisor.

CHEM& 161	General Chemistry w/Lab I	5
CHEM& 162	General Chemistry w/Lab II	5
CHEM& 163	General Chemistry w/Lab III	5
CHEM& 261	Organic Chemistry w/Lab I	6
CHEM& 262	Organic Chemistry w/Lab II	6
CHEM& 263	Organic Chemistry w/Lab III	6
MATH& 151	Calculus I	5
MATH& 152	Calculus II	5
MATH& 153	Calculus III	5
MATH 205	Linear Algebra	5
MATH 224	Multivariate Calculus	5
MATH 238	Differential Equations	5
PHYS& 221	Engineering Physics I	6
PHYS& 222	Engineering Physics II	6
PHYS& 223	Engineering Physics III	6

For electives, a foreign language and CS& 131 are recommended.

Child Nutrition Program Management PROFESSIONAL/TECHNICAL

Contact: Lisa Reeves

Degree: Associate in Child Nutrition Program Management

Student Learning Outcomes available at
www.pierce.ctc.edu/dept/childnutrition/outcomes.

■ ASSOCIATE IN CHILD NUTRITION PROGRAM MANAGEMENT

(This is a contracted program offered to local school districts)

GENERAL EDUCATION REQUIREMENTS (42 CREDITS)

*† BUS 105	Business English I	5
*† BUS 107	Business Math	5
* BUS 240	Human Relations in the Workplace	5
† BUS 250	Business Communications	5
Humanities or Social Science course		5
HSCI 228	First Aid and CPR for Health Care Professionals	2
Select one:		5
ACCT 101	Survey of Accounting	
† ACCT& 201	Principles of Accounting I	
Select one:		5
ECON 110	Survey of Economics	
† ECON& 201	Micro Economics	
Select one:		5
MNGT 194	Supervisory Training and Leadership Development	
MNGT 283	Principles of Supervision and Leadership	

CHILD NUTRITION PROGRAM MNGT. COURSES (48 CREDITS)

FSM 102	Equipment and Facilities Management	3
FSM 103	Nutrition and Menu Planning	5
FSM 105	Quantity Food Production: Entrees *(Prereq: Safety and Sanitation)*	3
FSM 106	Supervision and Management of Food Prep. II	5
FSM 109	Personnel Issues	2
FSM 110	Food and Beverage Cost Analysis	5
FSM 112	Child Nutrition Program Management	1
FSM 114	Marketing Child Nutrition	3
FSM 115	Basic Nutrition	1
FSM 116	Safety and Sanitation	1
FSM 117	Nutrition Education in the Classroom	3
FSM 118	Healthy EDGE 2000	1
FSM 121	Quantity Food Production: Salads, Sandwiches and Snacks *(Prereq: Safety & Sanitation)*	3
FSM 122	Quantity Food Preparation: Bakeshop	3
FSM 130	Child Nutritional Needs for Diverse Populations	3
HUMDV 126	Life Skills (or HUMDV 127)	2
CIS XXX	Computer Skills	4
	Total Credits Required	**90**

**Meets related instruction requirements for professional/technical programs.*
†Prerequisite required.

Communication/ Theatre/Film

Faculty: Patrick Daugherty, Fred Metzger (FS); Nikki Poppen-Eagan (PY)
Degree: Associate of Arts (AA-DTA)

Students interested in communications most frequently request a curriculum which will prepare them for work in the broadcast industry. Most four-year college broadcast programs offer emphasis in three general areas: business/management, "on-the-air" aspects, and advertising. Speech majors also specialize in two other areas: interpersonal communications and rhetoric and public address. Pierce College's curriculum provides a basic background to enable students to determine their preferred focus upon transferring to a four-year institution.

Students planning to transfer are served best by completing a two-year AA-DTA degree at Pierce College. However, students should contact the transfer institution regarding specific course needs at that institution.

Pierce College also offers classes in American Sign Language, the natural mode of communication for millions of deaf Americans, and the third most common language in the United States. Students may take American Sign Language for either Speech or World Language credit.

■ COMMUNICATION TRANSFER

The following courses are recommended, in addition to other courses required for the AA-DTA degree. See a Communication/Theatre/Film advisor for specifics.

BUS& 101	Introduction to Business	5
CMST& 102	Intro to Mass Media	5
CMST& 220	Public Speaking	5
DRMA 160	Intro to Film and Video	5
DRMA 170	Technical Film and Theatre	5
Geography	One course	5
JOURN 102	Intro to Newswriting	5
Political Science	One course	5
Sociology	One course	5

RHETORIC AND PUBLIC ADDRESS EMPHASIS

ART	One course	5
CMST& 101	Introduction to Communication	5
CMST 210	New Media Presentation	5
CMST& 220	Public Speaking	5
ENGL 107	Composition – Writing About Literature	5
English	Any literature course	5
History	One course	5
Music	One course	5
Philosophy	One course	5
Political Science	One course	5
PSYC& 100	General Psychology	5
Sociology	One course	5

INTERPERSONAL COMMUNICATION EMPHASIS

ANTH& 100	Survey of Anthropology	5
ANTH& 206	Cultural Anthropology	5
ART OR MUSC	One course	5
CMST& 101	Introduction to Communication	5
CMST 105	Intercultural Communication	5
CMST 210	New Media Presentation	5
CMST& 220	Public Speaking	5
CMST& 230	Small Group Communication	5
ECON 110	Survey of Economics	5
Philosopy	One course	5
PSYC& 100	General Psychology	5
PSYC& 200	Lifespan Psychology	5
PSYC 201	Psychology of Personal Growth	5
SOC& 101	Intro to Sociology	5
Sociology	One course	5

Computer Network Engineering PROFESSIONAL/TECHNICAL

Faculty: Phil Sheridan (FL); Ciaran Bloomer, Jim Hendricks (PY)
Degree: Associate in Computer Network Engineering
Certificate: Certificate in Computer Systems Administration

The Computer Network Engineering program, offered at Pierce College's Puyallup and Fort Lewis sites, deals with computer and network installation and support. The course of study provides training and hands-on experience with microprocessors, operating systems, hardware/software troubleshooting, and a full range of network administration/design/installation/support activities.

This is a professional/technical program, based upon current industry standards developed by Microsoft and the Computing Technology Industry Association (CompTIA). Students will be provided a foundation leading to industrial certification.

Potential employment opportunities upon completion of the program are with companies that use or service networked computer systems.

Professional/technical program competencies can be found on the Pierce College website at www.pierce.ctc.edu/proftech/.

■ ASSOCIATE IN COMPUTER NETWORK ENGINEERING

CNE CORE REQUIREMENTS (50 CREDITS)

CIS 121	Introduction to Computer Information Systems	5
CIS 122	Structured Program Design	5
CIS 134	Microcomputer Operating Systems	5
CIS 150	Installation and Troubleshooting	5
CIS 265	Data Communications and Networks	5
CNE 231	Windows Client Operating System	5
CNE 232	Manage Windows Server	5
CNE 240	Computer Hardware Troubleshooting	5
CNE 251	UNIX Administration	5
CNE 290	Networking Internship (in chosen track)	5

RELATED INSTRUCTION (20 CREDITS)

BUS 240	Human Relations in the Workplace	5
ENGL& 101	English Composition 1	
ENGL& 235	Technical Writing	5
MATH& 107	Math in Society	5
Select one:		5
CMST& 101	Introduction to Communication	
CMST& 220	Public Speaking	

Choose ONE of the following Microsoft Networking or Unix Networking tracks:

MICROSOFT NETWORKING TRACK (25-30 CREDITS)

CNE 235	Implement and Maintain Windows Server Infrastructure: Network Infrastructure	5
CNE 237	Plan, Implement and Maintain Active Directory Infrastructure	5
CNE 238	Designing Security for a Windows Network	5
CNE 246	Windows Server Applications Infrastructure	5
CNE 247	Windows Server Enterprise Administration	5
CNE 254	Fundamentals of Network Security	5

Any of the following three courses may be taken in lieu of MSCE Track courses above at the discretion of the Program Advisor or Coordinator:

CNE 238	Design Secure Windows Network	5
CNE 253	Deploy and Maintain ISA Server	5
CNE 254	Fundamentals of Network Security	5

UNIX NETWORKING TRACK (25 CREDITS)

CNE 233	Maintain Windows Environment	5
CNE 234	Implement WIndows Infrastructure	5
CNE 235	Implement and Maintain Windows Server Infrastructure:Network Infrastructure	5
CNE 236	Planning and Maintaining Windows Server Network Structure	5
CNE 237	Plan, Implement and Maintain Active Directory Infrastructure	5
	Total Credits Required	**100-105**

■ CERTIFICATE IN COMPUTER SYSTEMS ADMINISTRATION

CNE CORE REQUIREMENTS (35 CREDITS)

CIS 121	Introduction to Computer Information Systems	5
CIS 134	Microcomputer Operating Systems	5
CIS 265	Data Communications and Networks	5
CNE 231	Windows Client Operating System	5
CNE 232	Manage Windows Server	5
CNE 251	UNIX Administration	5
CNE 254	Fundamentals of Network Security	5

BUSINESS REQUIREMENTS (15-18 CREDITS)

* MATH& 107	Math in Society	5
Select one:		
* MNGT 130	Customer Relationship Management	
or		
BUS 240	Human Relations in the Workplace	
Select one:		5-8
* BUS 105	Business English I (5) and	
* BUS 106	Business English II (3)	
or		
* ENGL& 101	English Composition I (5)	
	Total Credits Required	**50-53**

**Meets related instruction requirements for professional/technical programs.*

Construction Management

PROFESSIONAL/TECHNICAL

Contact: Stephen Bridgeford (FS)

Degrees: Associate in Construction Management
Associate in Construction Management DTA/MRP

Certificate: Construction Management
Construction Safety Technician

Responding to a critical workforce shortage in the building industry, Pierce College offers an associate degree in Construction Management. The program prepares graduates as construction supervisors, foremen, and project managers. The program also offers a certificate in construction option that can be completed within one year.

To meet the needs of working adults, courses are offered evenings, weekends, and online. The curriculum combines general education requirements in communications, computation, and business with core courses in construction materials and methods, construction documents, blueprint reading, estimating, project management, and building codes.

See Degree Outcomes on page 45.

Professional/technical program competencies can be found on the Pierce College website at www.pierce.ctc.edu/proftech/.

■ ASSOCIATE IN CONSTRUCTION MANAGEMENT

COMMUNICATION SKILLS (15 CREDITS)

*+ BUS 250	Business Communications	5
*+ ENGL& 101	English Composition I	5
*+ ENGL& 235	Technical Writing	5

COMPUTATION/QUANTITATIVE/SYMBOLIC REASONING SKILLS (5 CREDITS)

Select one:		5
*+ BUS 107	Business Mathematics	
*+ MATH& 142	Precalculus II (recommended)	
*+ MATH& 148	Business Calculus (recommended)	
*+ MATH 156	Finite Math	

GENERAL REQUIREMENTS (30 CREDITS)

BUS& 201	Business Law	5
ACCT 101	Survey of Accounting	5
BTECH 200A	Word 2007 - Prepare and Edit Documents	1
BTECH 200B	Word 2007 - Enhance and Customize Documents	1
BTECH 210A	Excel 2007 - Prepare and Format Worksheets	1
BTECH 210B	Excel 2007 - Insert Formulas and Enhancements	1
BTECH 210D	Excel 2007 - Advanced Formatting and Functions	1
Select one:		5
* BUS 240	Human Relations in the Workplace	
CMST& 101	Introduction to Communications	
Select one:		5
GEOL& 110	Environmental Geology	
GEOL& 101	Intro to Physical Geology	
+ PHYS& 100	Physics for Non-Science Majors	
Select one:		5
ECON 110	Survey of Economics	
+ ECON& 201	Micro Economics	

BUSINESS MANAGEMENT (5 CREDITS)

Select one:		5
MNGT 182	Creative Sales	
MNGT 283	Principles of Supervision and Leadership	
MNGT 284	Small Business Planning	
MNGT 295	Human Resource Management	

CORE REQUIREMENTS (46 CREDITS)

+ CONST 101	Intro to Construction Industry	5
+ CONST 140	Blueprint Reading	5
+ CONST 150	Construction Documents	5
+ CONST 160	Materials and Methods	5
CONST 180	Building Codes	5
+ CONST 198	Work-based Learning/Internship	3
+ CONST 200	Estimating I	5
+ CONST 230	Scheduling	5
CONST 250	Safety and Accident Prevention	3
+ CONST 260	Project Management Start to Finish	5
	Total Credits Required	**101**

**Meets related instruction requirements for professional/technical programs.*
+Indicates prerequisites see individual course descriptions in the catalog

■ CONSTRUCTION MANAGEMENT CERTIFICATE

CORE REQUIREMENTS (58 CREDITS)

* BUS 240	Human Relations in the Workplace	5
+ CONST 101	Intro to Construction Industry	5
+ CONST 140	Blueprint Reading	5
+ CONST 150	Construction Documents	5
+ CONST 160	Materials and Methods	5
CONST 180	Building Codes	5
+ CONST 200	Estimating I	5
+ CONST 230	Scheduling	5
CONST 250	Safety and Accident Prevention	3
+ CONST 260	Project Management Start to Finish	5
Select one:		*5*
BUS 250	Business Communication	
* ENGL& 101	English Composition I	
Select one:		5
*+ BUS 107	Business Math	
*+ MATH 156	Finite Math	
*+MATH& 148	Business Calculus	
	Total Credits Required	**58**

**Meets related instruction requirements for professional/technical programs.*
+Indicates prerequisites see individual course descriptions in the catalog

■ CONSTRUCTION SAFETY TECHNICIAN CERTIFICATE

Contact: Ron May (FS)

GENERAL EDUCATION REQUIREMENTS (25 CREDITS)

* BUS 240	Human Relations in the Workplace	5
+ CIS 130	Microcomputer Applications	5
*+ ENGL& 101	English Composition I	5
ENGL& 235	Technical Writing	5
* MATH& 146	Introduction to Statistics	5

SAFETY AND HEALTH REQUIREMENTS (35 CREDITS)

CONST 140	Blueprint Reading	5
CONST 160	Materials and Methods	5
CONST 250	Safety and Accident Prevention	3
CONST 198	Work-Based Learning	3
OSH 110	Safety Management	5
OSH 150	Workers Compensation and Risk Management	3
OSH 160	Incident Investigation	3
OSH 170	Training Techniques	5
OSH 190	Industrial Security	3
	Total Credits Required	**60**

+ Prerequisites required.
** Meets related instruction for professional/technical programs.*

■ ASSOCIATE IN CONSTRUCTION MANAGEMENT DTA/MRP

GENERAL DEGREE REQUIREMENTS

- Minimum of 90 quarter hours of transferable credit
- College cumulative GPA of at least 2.0
- ENGL& 101 (English Composition I)
- Minimum of 25 of last 45 credits earned at Pierce College
- 1.5 grade (C-) or better for all requirements, unless prerequisites state otherwise
- "Pass" (P) grades may be used for General Elective credits only.
- Independent Study may be used only for General Elective credits.
- Cooperative work experience/work-based learning credits may be applied to the General Elective area only.
- Once a course has been successfully completed, credits obtained may be used only once, even if a course is listed in more than one category.

COURSE REQUIREMENTS

COMMUNICATION SKILLS (10 CREDITS)

ENGL& 101	English Composition I (required)	5
ENGL& 235	Technical Writing	5
ENGL 103	Composition - Argumentation and Research	5
ENGL 107	Composition - Writing About Literature	5

Note: CWU requires an equivalent to ENGL& 102 for program acceptance.

QUANTITATIVE/SYMBOLIC REASONING SKILLS (5 CREDITS)
Intermediate algebra proficency is required

MATH& 151	Calculus I	5

HUMANITIES (15 CREDITS)
At least five credits other than speech and no more than five credits in world language, ASL, and no more than five credits in performance/skills.

CMST& 220	Public Speaking	5
Humanities Electives (GER-HM)		10

Note: In order to better prepare for successful transfer, students are encouraged to consult with the institution(s) to which they wish to transfer regarding the humanities courses that best support or my be required as prerequisities to their curriculum.

SOCIAL SCIENCE (15 CREDITS)

BUS& 201	Business Law	5
ECON& 201	Micro Economics	5
or		
ECON& 202	Macro Economics	
Social Science Elective (SS-GER)		5

Note: WSU requires both ECON& 201 and 202.

NATURAL SCIENCES (15-30 CREDITS)

CHEM& 161	General Chemistry with lab I	5
GEOL& 101	Intro to Physical Geology	5
MATH & 146	Intro to Statistics	5
MATH & 152	Calculus II	5
PHYS& 121	General Physics I	5
PHYS& 122	General Physics II	5
PHYS & 221	Engineering Physics I	6
PHYS& 222	Engineering Physics	6

Note: UWS - requirements (20 credits): MATH& 146 and PHYS& 122 or PHYS& 222 and 10 additional quarter credits in natural sciences/math at the student's choice or see above list. WSU -requirements (10 credits): MATH& 152 and PHYS 122 or PHYS& 222. CWU - requirements (10 credits): MATH& 152 and CHEM& 141/151 or CHEM& 161. EWU - requirements (5 credits): CHEM& 141/151 or CHEM& 161.

CONSTRUCTION MANAGEMENT COURSES (13-18 CREDITS)

ACCT& 201	Principles of Accounting I	5
ACCT& 202	Principles of Accounting II	5
Additional credits (depending on future institution)		3-8

Note: UWS - requirements (8 credits): ACCT& 203 and ENGR& 111 or ENGR& 114 or ENGR& 121. WSU, CWU and EWU: Recommend 3 quarter credits of Architectural CAS or Engineering graphics. Students may select 3 credits of the recommended electives list that best fit their future university.

GENERAL ELECTIVES (20 CREDITS MINIMUM)

CONST 101	Introduction to Construction Industry	5
CHEM& 161	General Chemistry with lab I	5
ENGR& 214	Statics	5
ENGR& 215	Mechanics of Materials	5
ENVS& 100	Survey of Environmental Science	5
Other ENVS course		5
MATH& 141	Precalculus I	5
MATH& 142	Precalculus II	5
MATH& 146	Intro to Statistics	5
MATH& 152	Calculus II	5
PHYS& 122	General Physics II	5
PHYS& 222	Engineering Physics II	6
Additional college-level courses (5 credits maxium)		5

Note: UWS & CWU - requirements (3credits): Introduction to Construction Management, however can be taken in fall of junior year. Other college-level courses, of which a maximum of five credis may be in college-level courses as defined by the community college and the remainder, shall be fully transferable as defined by the receiving institution.

TOTAL CREDITS 93-98

Notes

1. Entry to Construction Management majors is selective; students typically require a higher minimum overall GPA than the minimum 2.00 for the general DTA. Students need to check criteria for selection by connecting with their future institution.

2. Courses in humanities/social science must come from the current ICRC distribution list in order to count as General Education or General University Requirements (GERs/GURs) at the receiving institution. Additional general educational, cultural diversity, and foreign language requirements, as required by the transfer institution, must be met prior to the completion of a baccalaureate degree.

3. Students are responsible for checking specific major requirements of baccalaureate institutions in the year prior to transferring.

Criminal Justice

PROFESSIONAL/TECHNICAL

Faculty: Teresa Carlo, Bobi Foster-Grahler (FS)

Degrees: Associate in Criminal Justice
Certificates: Corrections/Protection Officer and Correctional Careers
Criminal Justice
Forensic Technician
Explorer/Cadet Pre-Law Enforcement
Reserve Pre-Law Enforcement
Law Enforcement Officer

The Associate in Criminal Justice program is designed to provide a solid grounding in basic skills essential to success in both academic work and criminal justice occupations. The criminal justice system provides employment opportunities in a variety of public agencies at all levels of government, as well as in private agencies. A mandatory work-based learning (internship) experience connects criminal justice theory and practice.

A student who plans to transfer to a specific four-year school should check with that school to determine specific transfer requirements. Students wanting to obtain an AA-DTA degree must fulfill all Associate of Arts degree requirements, which are aligned within the Associate in Criminal Justice. See AA-DTA degree brochure for details.

See Degree Outcomes on page 45.

Professional/technical program competencies can be found on the Pierce College website at www.pierce.ctc.edu/proftech/.

■ ASSOCIATE IN CRIMINAL JUSTICE (FS ONLY)

Students must earn a minimum of a 2.0 in each criminal justice course in order to obtain an Associate in Criminal Justice. Students wanting to obtain an AA-DTA degree while completing their Associate in Criminal Justice must earn a minimum cumulative GPA of 2.0 and earn a minimum of a 1.5 GPA in all core requirements and core electives. College-level reading skills, as determined by placement test, are required (or READ 101).

COMMUNICATION SKILLS			
*	ENGL& 101	English Composition I	5
	ENGL 103	Composition – Argumentation and Research	5
QUANTITATIVE/SYMBOLIC REASONING SKILLS (5 CREDITS)			
	MATH& 107	Math in Society *(or MATH& 146†)*	5
HUMANITIES (15 CREDITS)			
	PHIL 150	Intro to Ethics	5
	CMST& 220	Public Speaking *(or CMST& 101)*	5
	Elective	(Journalism, foreign language ++ or a course requiring a paper+)	5
SOCIAL SCIENCE (15 CREDITS)			
	POLS& 202	American Government (or POLS 230)	5
*	PSYC& 100	General Psychology	5
	SOC& 101	Intro to Sociology	5
NATURAL SCIENCE (15 CREDITS)			
	BIOL& 170	Human Biology (or another biology course+)	5
	HSCI 210	Wellness	5
+	Elective	(Course other than biology or health science that meets the AA-DTA distribution requirement)	5
CRIMINAL JUSTICE REQUIREMENTS (34 CREDITS)			
	CJ 103	Criminal Justice Introduction to ACJ	1
	CJ 112	Criminal Justice in America	5
	CJ 140	Corrections in America	5
	CJ 150	Policing in America	5
	CJ 200	Crime and Justice in America: Issues	5
	CJ 202	Concepts of Criminal Law	5
+	CJ 252	Criminal Justice Work-based Learning	5
	CJ 280	Criminal Justice Culminating Project**	1
	INFO 102	Problem-based Research Methods in Professional Technical Programs	2
ELECTIVES (10 CREDITS)			
	Criminal Justice Electives		10
		Total Credits Required	**104**

**Meets related instruction requirements for professional/technical programs.*
*** Prerequisites may apply*
+Requires Criminal Justice advisor approval.
++Students planning to transfer to a four-year institution who lack two years of high school study of a single foreign language should take one quarter of foreign language as a humanities elective. Four-year institutions may require three quarters.
†MATH& 146 is recommended for students transferring to a four-year institution.

SOCAD students may substitute five additional criminal justice elective credits upon Criminal Justice advisor approval.

NOTE: Students should be aware that certain criminal behavior may prohibit their employment opportunities in many criminal justice occupations. Students are encouraged to research these situations and consult with a Criminal Justice advisor.

■ CERTIFICATE IN CRIMINAL JUSTICE (FS ONLY)

Pierce College offers the Certificate in Criminal Justice at the Fort Steilacoom campus. This certificate is designed to provide students with an inclusive view of the criminal justice system. The 44 credits are perfect for individuals who already have post- secondary degrees and need the edge for employment opportunities or advancement in the criminal justice field. Likewise, it is a great building block for individuals who wish to earn an Associate in Criminal Justice and Associate of Arts. The certificate gives a broad overview of the criminal justice system with emphasis on policing, corrections and the courts. The elective credits can be taken in a variety of fields, including victim advocacy, constitutional law, forensics, and case management. This certificate assists individuals in determining their criminal justice track. A work-based learning (internship) component is also included to help bridge theory and practice and assist in employment opportunities.

COURSE REQUIREMENTS (44 CREDITS)

CJ 103	Criminal Justice Introduction to ACJ	1
CJ 112	Criminal Justice in America	5
CJ 140	Corrections in America	5
CJ 150	Policing in America	5
CJ 200	Crime and Justice in America: Issues	5
CJ 202	Concepts of Criminal Justice	5
CJ 252	Criminal Justice Work-based Learning	5
CJ 280	Criminal Justice Culminating Project**	1
INFO 102	Problem-based Research Methods in Professional Technical Programs	2
ELECTIVES (10 CREDITS)		
Criminal Justice Electives		10
	Total Credits Required	**44**

**Students must earn minimum of 2.0 in each course above in order to obtain certificate.*
*** Prerequisites may apply*

NOTE: Students should be aware that certain criminal behavior may prohibit their employment opportunities in many criminal justice occupations. Students are encouraged to research these situations and consult with a Criminal Justice advisor.

Corrections/Protection Officer and Correctional Careers Program

Pierce College offers the Corrections/Probation Officer and Correctional Careers Certificate at the Fort Steilacoom campus. This certificate is designed to provide students with basic skills needed to succeed in the corrections field that will apply to any correctional work setting (federal, state, county, city and private).

Courses include the learning process, dealing with difficult behavior and change, leadership, cross-cultural communications, understanding behavior, decision making, correctional theory and practice, and much more. Students are prepared for work, as well as multiple types of testing, including video, written, and physical fitness tests and interviewing. Finally, students will perform a 175-hour internship at a local correctional facility where they will apply the skills and theories they learned.

The course is a great stepping stone to further education as all 20 credits transfer directly to the Associate in Criminal Justice degree, as well as the Associate of Arts degree.

■ CORRECTIONS/PROTECTION OFFICER/CAREERS IN CORRECTIONS CERTIFICATE (FS)

COURSE REQUIREMENTS (26 CREDITS)

Students must earn a minimum of a 2.0 in each course listed in order to obtain the certificate.

CJ 103	Criminal Justice Introduction to ACJ	1
CJ 129	Applied Correctional Wellness	1
CJ 130	Criminal Justice Operational Skills	5
CJ 140	Corrections in America	5
CJ 221	Special Topics - Security Practices	3
CJ 223B	Special Topics — Criminal Justice	5
CJ 252	Criminal Justice Work-based Learning	5
CJ 280	Criminal Justice Culminating Project	1
	Total Credits Required	**26**

Program prerequisite: Instructor permission. Students must complete and pass a criminal history background investigation.

NOTE: Students should be aware that certain criminal behavior may prohibit their employment opportunities in many criminal justice occupations. Students are encouraged to research these situations and consult with a Criminal Justice advisor.

Forensic Technology

Pierce College offers the Certificate in Criminal Justice Forensic Technician at the Fort Steilacoom campus and at the military sites. This certificate is designed to provide students with basic skills in crime scene preservation and courtroom testimony. Employment will depend upon, at a minimum, the successful completion of a two-year degree and other experience in the law enforcement field. Students wishing to obtain careers in forensic science will need to major in science and use this certificate to enhance their qualifications. Forensic scientists require a minimum of a four-year science degree for employment.

■ FORENSIC TECHNICIAN CERTIFICATE (FS ONLY)

COURSE REQUIREMENTS (44 CREDITS)

Students must earn a minimum of a 2.0 in each course listed below in order to obtain the certificate.

*	BIOL& 160	General Biology w/Lab	5
*	CHEM& 110	Chemical Concepts w/Lab	5
	CJ 103	Criminal Justice Introduction to ACJ	1
	CJ 112	Criminal Justice in America	5
	CJ 150	Policing in America	5
	CJ 205	Investigative Technology	5
	CJ 245	Intro to Investigation and Evidence	5
	CJ 280	Criminal Justice Culminating Project**	1
	INFO 102	Problem-based Research Methods in Professional Technical Programs	2

*	MATH& 142	Precalculus II	5
*	PHYS& 121	General Physics 1	5
		Total Credits Required	**44**

**Prerequisite required.*
*** Prerequisites may apply*

NOTE: Students should be aware that certain criminal behavior may prohibit their employment opportunities in many criminal justice occupations. Students are encouraged to research these situations and consult with a Criminal Justice advisor.

Law Enforcement

■ CERTIFICATE FOR EXPLORER/CADET PRE-LAW ENFORCEMENT (FS ONLY)

This certificate provides students with an overview of skills needed to perform the duties of a volunteer in law enforcement. It also is an overview of the criminal justice system and major skills needed to succeed in law enforcement including written, oral and multicultural communications and practical application of knowledge and skills. Students are current or former law enforcement explorer or cadets.

Student must earn a minimum of a 2.0 in each criminal justice course to obtain this certificate. Students wanting to obtain an AA while completing their Associate in Criminal Justice must earn a minimum GPA of 2.0 and earn a minimum of a 1.5 GPA in all core requirements and core electives.

COURSE REQUIREMENTS (39 CREDITS)

	CJ 103	Criminal Justice Introduction to ACJ	1
	CJ 112	Criminal Justice in America	5
	CJ 150	Policing in America	5
	CJ 200	Crime and Justice in America: Issues	5
*	CJ 252	Criminal Justice Work-based Learning (180 hours volunteering)	5
*†	CJ 260	Law Enforcement Operational Skills: Explorer/Cadet	5
	CJ 280	Criminal Justice Culminating Project	1
	CMST& 220	Public Speaking	5
	ENGL& 101	English Composition I	5
	INFO 102	Problem-based Research Methods in Professional Technical Programs	2
		Total Credits Required	**39**

†Explorer/Cadet will complete all elements of the on-site academy at a 70 percent proficiency as well as successful completion of all academic components. Students must be sponsored by an accredited law enforcement agency.

**Requires Criminal Justice advisor approval.*
*** Prerequisites may apply*

NOTE: Students should be aware that certain criminal behavior may prohibit their employment opportunities in many criminal justice occupations. Students are encouraged to research these situations and consult with a Criminal Justice advisor.

■ CERTIFICATE FOR RESERVE PRE-LAW ENFORCEMENT (FS ONLY)

This certificate provides students with an overview of skills needed to perform the duties of a commissioned Reserve Law Enforcement Officer. It is also an overview of the criminal justice system and major skills needed to succeed in law enforcement, including written, oral and multicultural communications and practical application of knowledge and skills. Students are current or former reserve law enforcement employees looking for career or educational advancement. This certificate flows directly into the Associate in Criminal Justice with Associate in Arts Degree, allowing students to continue to a four-year experience.

Student must earn a minimum of a 2.0 GPA in each criminal justice course to obtain this certificate. Students wanting to obtain an AA while completing their Associate in Criminal Justice must earn a minimum GPA of 2.0 and earn a minimum of a 1.5 GPA in all core requirements and core electives.

COURSE REQUIREMENTS (44 CREDITS)

	CJ 103	Criminal Justice Introduction to ACJ	1
	CJ 112	Criminal Justice in America	5
	CJ 150	Policing in America	5
	CJ 200	Crime and Justice in America: Issues	5
*	CJ 252	Criminal Justice Work-based Learning (180 hours volunteering)	5
*†	CJ 261	Law Enforcement Operational Skills: Reserves	10
	CJ 280	Criminal Justice Culminating Project**	1
	CMST& 220	Public Speaking	5
	ENGL& 101	English Composition I	5
	INFO 102	Problem-based Research Methods in Professional Technical Programs	2
		Total Credits Required	**44**

†Reserve Officers will complete all elements of the on-site academy at a 70 percent proficiency as well as successful completion of all academic components. Student must be sponsored by an accredited law enforcement agency.

**Requires Criminal Justice advisor approval.*
*** Prerequisites may apply*

NOTE: Students should be aware that certain criminal behavior may prohibit their employment opportunities in many criminal justice occupations. Students are encouraged to research these situations and consult with a Criminal Justice advisor.

■ CERTIFICATE FOR LAW ENFORCEMENT OFFICER

(FS ONLY)

This certificate provides students with an overview of skills needed to perform the duties of a commissioned law enforcement officer. It also is an overview of the criminal justice system and major skills needed to succeed in law enforcement, including written, oral and multicultural communications and practical application of knowledge and skills. Students are current or former law enforcement employees looking for career advancement. This certificate flows directly into the Associate in Criminal Justice with Associate in Arts Degree, allowing students to continue to a four-year experience.

Student must earn a minimum of a 2.0 GPA in each criminal justice course to obtain this certificate. Students wanting to obtain an AA degree while completing their Associate in Criminal Justice must earn a minimum GPA of 2.0 and earn a minimum of a 1.5 GPA in all core requirements and core electives.

COURSE REQUIREMENTS (44 CREDITS)

	CJ 103	Criminal Justice Introduction to ACJ	1
	CJ 112	Criminal Justice in America	5
	CJ 150	Policing in America	5
	CJ 200	Crime and Justice in America: Issues	5
*	CJ 252	Criminal Justice Work-based Learning (180 hours volunteering)	5
*†	CJ 262	Law Enforcement Operational Skills: Officer	10
	CJ 280	Criminal Justice Culminating Project**	1
	CMST& 220	Public Speaking	5
	ENGL& 101	English Composition I	5
	INFO 102	Problem-based Research Methods in Professional Technical Programs	2
		Total Credits Required	**44**

†Officers will complete all elements of the on-site academy at a 70 percent proficiency as well as successful completion of all academic components. Students must be sponsored by an accredited law enforcement agency.

**Requires Criminal Justice advisor approval.*
*** Prerequisites may apply*

NOTE: Students should be aware that certain criminal behavior may prohibit their employment opportunities in many criminal justice occupations. Students are encouraged to research these situations and consult with a Criminal Justice advisor.

Dental Hygiene PROFESSIONAL/TECHNICAL

Faculty: Monica L Hospenthal, R.D.H., M. Ed., Program Director; Kathy Bassett, R.D.H., M.Ed.; Mary Galagan, R.D.H., M.H.A., Carol Roberton, R.D.H., B.S. (FS)

Degree: Associate in Dental Hygiene

The need for Registered Dental Hygienists (RDH) continues to grow within Washington state, nationwide, as well as worldwide. Dental hygiene professionals dedicate their careers to the prevention and treatment of specific oral diseases while working as oral health educators and clinicians. The profession attracts individuals interested in a licensed health profession that provides direct services to patients while working in various practice settings. Dental hygienists become eligible for licensure through successful program completion from an accredited* professional dental hygiene program and by passing all licensing examinations. Pierce College's Dental Hygiene program enables students to take both written and practical examinations for licensure in this jurisdiction and in other jurisdictions within the United States (US).

Acceptance into Pierce's program occurs only in fall quarter each year. Application submittal for consideration of acceptance occurs in January each year. Pierce accepts 20 entering students each fall at the Fort Steilacoom campus and five students every other fall at the *Port Angeles satellite campus. Applicants to the program must not only meet the general entrance requirements of PIerce College, but all dental hygiene program requirements to be eligible for acceptance consideration. Please see the department website for the exact application deadline and current dental hygiene program requirements.

The Associate in Dental Hygiene transfers into most dental hygiene degree completion programs within the US and may meet some entrance requirements to US dental schools where courses and credits apply. Additionally, Eastern Washington University offers a Bachelor of Science in Dental Hygiene through its expanded Dental Hygiene Degree program, located at the Pierce College Fort Steilacoom campus. The curriculum design provides the working dental hygienist with courses offered in the evenings and Saturdays and may be completed in two years post-licensure part-time or in one year post-licensure full-time. (The one-year option is dependent on enrollment numbers.) Acceptance into this program is dependent on previous academic courses at an accredited dental hygiene program and current licensure. Please contact Monica L. Hospenthal, RDH, M.Ed, EWU co-director, at (253) 912-3642 for applicant materials or e-mail at mhospenthal@ ewu.edu for more information. You may also visit the website at http://cshe.cslabs.ewu.edu/deptDH/x6780.html.

The Pierce College Dental Hygiene Program is fully accredited by the Commission on Dental Accreditation of the American Dental Association, a specialized accrediting body recognized by the U.S. Dept. of Education.

**The satellite dental hygiene campus in Port Angeles, Wash., accepts five students every other fall quarter. However, this arrangement is subject to change and is evaluated for continuation on a yearly basis.*

Professional/technical program competencies can be found on the Pierce College website at www.pierce.ctc.edu/proftech/.

■ PRE-DENTAL HYGIENE COURSES (FS ONLY)

Note: Most pre-dental hygiene courses require prerequisite courses prior to enrollment. These prerequisite courses vary from college to college and are not listed below; therefore, completion of the pre-dental hygiene courses may take longer than one year.

BIOL& 241 Biology, Human Anatomy and Physiology w/Lab 1	6
BIOL& 242 Biology, Human Anatomy and Physiology w/Lab 2	6
BIOL& 260 Microbiology	5
CHEM& 121 Intro to Chemistry	5
CHEM& 131 Intro to Organic/Biochemistry	6
CMST& 101 Intro to Communication	5
ENGL 103 Composition-Argumentation and Research	5
MATH& 107 Math in Society	5
NUTR&101 Nutrition	5
PSYC& 100 General Psychology	5
SOC& 101 Introduction of Sociology	5

Computer proficiency is required. Current required Pierce College courses include:

INFO 100	Online Research Skills	1
BTECH 200A	Microsoft Word - Prepare and Edit Documents	1
BTECH 200B	Microsoft Word - Enhance and Customise Doc.	1
BTECH 225A	Microsoft Powerpoint	1

The computer courses must be passed with a 2.0 GPA and are subject to change. Please visit the website for most current information regarding the requirement to show computer proficiency at www.pierce.ctc.edu/dept/denthyg/site/.

Total Pre-Dental Hygiene Credits 62

■ ASSOCIATE IN DENTAL HYGIENE: APPLICATION SUMMARY** (FS ONLY)

Formal application to the Dental Hygiene Program must be made to the Admissions Office at the Fort Steilacoom campus by completing a Dental Hygiene Application (please refer to the website to download the application at http://www.pierce.ctc.edu/dept/denthyg/site/) and paying the $40*** non-refundable application fee. Because of the special admission requirements, applications for admission submitted online are not accepted.

As of this publication, the deadline for submitting the application is the fourth Friday in January preceding the fall quarter in which a student expects to enter the program. It is the applicant's responsibility to see that his/her file is accurate, complete and up-to-date. All pre-dental hygiene courses must be complete by the end of spring quarter in the year of entrance for the following fall quarter. Other deadlines are published each year on the program website. A minimum 2.5 GPA in each pre-dental hygiene course (computer courses need only a 2.0 GPA passing grade) must be earned, as well as a cumulative 3.3 GPA for all pre-dental hygiene courses (the cumulative GPA excludes the computer courses).

ENGL 103, CHEM&121, three other sciences and/or math, and one non-science course must be completed for application by the end of fall quarter prior to the year of application. All pre-dental hygiene courses must be completed by spring quarter in the year of entrance for the following fall quarter.

The applicant must submit the following documentation for initial application:

1. Pierce College Admissions Form
2. Proof of Payment Form
3. Dental Hygiene Application and Checklist
4. Education Course Plan Form
5. Computer Proficiency Form
6. Extracurricular Form
7. Official transcripts from high school and all colleges attended must be forwarded directly from the schools to the Office of Admissions at Fort Steilacoom and marked "Dental Hygiene Admissions." Only transcripts in sealed school envelopes sent with the application or hand carried in sealed school envelopes will be accepted.

NOTE: Students who have not completed all pre-dental hygiene courses by the application date must submit proof of registration for the remaining courses and send the official transcripts for both winter and spring quarter by the dates published on the Dental Hygiene website.

*****Please visit the Dental Hygiene Department website at http://ww.pierce.ctc.edu/dept/denthyg/site/ for the most current application process, curriculum, costs, etc.***

******Subject to change***

EVALUATION OF CANDIDATES

Six separate categories create the basis for admission to the Dental Hygiene Program.

35%	**Science, Math and English GPA**
10%	**Non-science GPA**
20%	**Health Science Reasoning Test score**
10%	**Extracurricular activities**
15%	**Space relations score**
10%	**Writing sample score**

Academic achievement/records, extracurricular activities, and various exams as required provide the basis for acceptance into the Dental Hygiene Program. Applicants with the highest total scores will be selected and notified via letter mailed to them on the fourth Friday in April each year. The number of students accepted is limited by the physical and financial resources of the college or when placement into the profession is no longer possible.

REQUIREMENTS AFTER ACCEPTANCE

1. Advance tuition deposit ***paid by the deadline as requested*** to show proof of intended enrollment. Failure to do so by the deadline will result in the offer of acceptance being rescinded.
2. Physical examination
3. Tuberculin test or chest x-ray and tetanus shot
4. Eye examination
5. Vaccination for Hepatitis B and current on CDC standard immunizations for the health care worker
6. Dental examination with most dental work completed

If accepted, the applicant will enter the two-year, seven consecutive quarter program leading to an Associate in Dental Hygiene. Information on estimated cost, including books, instruments, equipment, lab fees, uniforms, etc., is published on the department website.

FIRST YEAR

Fall Quarter (18 credits)		
DHYG 102	Dental Imaging I	3
DHYG 103	Preventive Dentistry I	2
DHYG 104	Biological Structures I	3
DHYG 106	Medical Emergencies in Dental Practice	1
DHYG 107	Fundamentals of Restorative Dentistry I	2
DHYG 108	Fundamentals of Dental Hygiene I	3
DHYG 109	Dental Hygiene Practice I	4
Winter Quarter (17 credits)		
DHYG 112	Dental Imaging II	2
DHYG 113	Preventive Dentistry II	1
DHYG 114	Biological Structures II	2
DHYG 115	General Pathology	2
DHYG 117	Fundamentals of Restorative Dentistry II	2
DHYG 118	Fundamentals of Dental Hygiene II	2
DHYG 119	Dental Hygiene Practice II	6
Spring Quarter (20 credits)		
DHYG 121	Intro to Periodontology I	3
DHYG 122	Pharmacology for Dental Hygiene	3
DHYG 123	Preventive Dentistry III	1
DHYG 125	Oral Pathology	2
DHYG 127	Fundamentals of Restorative Dentistry III	2
DHYG 128	Fundamentals of Dental Hygiene III	2
DHYG 129	Dental Hygiene Practice III	6
Summer Quarter (16 credits)		
DHYG 161	Introduction to Periodontology II	2
DHYG 162	Dental Imaging III	1
DHYG 164	Health Professions Team Building	2
DHYG 166	Local Anesthesia I	3
DHYG 167	Fundamentals of Restorative Dentistry IV	1
DHYG 168	Fundamentals of Dental Hygiene IV	1
DHYG 169	Dental Hygiene Practice IV	6

SECOND YEAR

Fall Quarter (20 credits)		
DHYG 207	Fundamentals of Restorative Dentistry V	2
DHYG 231	Advanced Periodontology	2
DHYG 232	Nutrition for Dental Hygiene	1
DHYG 233	Gerodontology/Special Needs	2
DHYG 236	Nitrous Oxide Sedation	1
DHYG 237	Clinical Restorative Dentistry I	2
DHYG 238	Fundamentals of Dental Hygiene V	3
DHYG 239	Dental Hygiene Practice V	7
Winter Quarter (20 credits)		
DHYG 217	Fundamentals of Restorative Dentistry VI	2
DHYG 243	Community Dental Health	3
DHYG 246	Extramural Dental Hygiene Practice I	2
DHYG 247	Clinical Restorative Dentistry II	2
DHYG 248	Fundamentals of Dental Hygiene VI	3
DHYG 249	Dental Hygiene Practice VI	7
DHYG 266	Local Anesthesia II	1
Spring Quarter (16 credits)		
DHYG 227	Fundamentals of Restorative Dentistry VII	1
DHYG 253	Community Dental Health Practice	1
DHYG 256	Extramural Dental Hygiene Practice II	2
DHYG 257	Clinical Restorative Dentistry III	2
DHYG 258	Fundamentals of Dental Hygiene VII	3
DHYG 259	Dental Hygiene Practice VII	7
Total Required Program Credits		**127**
Total Required Program Contact Hours		**1885**
Total Credits incl. Pre-dental Hygiene courses		**189***

**Minor curricular changes may occur during the two-year dental hygiene program to meet current accreditation standards.*

Diagnostic Health and Fitness Technician/Instructor

PROFESSIONAL/TECHNICAL

Faculty: Steve Crain, Lisa Murray (FS)

Degree: Associate in Diagnostic Health and Fitness Technician/Instructor (Personal Trainer)

Certificate: Diagnostic Health and Fitness Technician/Instructor Certificate (Personal Trainer)

The field of health and fitness personal training is a rapidly growing occupation for individuals who desire a career in a health profession. Consequently, highly-qualified health and fitness technicians and instructors are in demand within the health industry. Pierce College's Diagnostic Health and Fitness Technician/Instructor (DHFT) program provides a comprehensive curriculum for a Diagnostic Health and Fitness Technician/Instructor certificate.

The DHFT program provides the knowledge and skills in management, administration, training and supervision of entry-level personnel. The DHFT is skilled in conducting risk stratification, health assessments (including open-circuit indirect calorimetry – SubMax and Max VO2, RMR, Anaeorbic Threshold, and hydrostatis weighing), and physical fitness assessments, as well as in interpreting results, constructing appropriate exercise prescriptions, and motivating healthy individuals with medically controlled diseases to adopt and maintain healthy lifestyle behaviors.

A DHFT certification combined with Commission on Accreditation of Allied Health Education Programs (CAAHEP) provides an excellent foundation for a variety of health-related careers in personal fitness training, nursing, occupational therapy, physical education, exercise science, kinesiology, athletic training, physiology, sports, management, biology, exercise physiology, human performance, health science, recreation management/science, nutrition, community health, public health, and health promotion. Further education and/or certification may be required.

Professional/technical program competencies can be found on the Pierce College website at www.pierce.ctc.edu/proftech/.

■ ASSOCIATE DIAGNOSTIC HEALTH AND FITNESS TECHNICIAN/INSTRUCTOR

GENERAL REQUIREMENTS (52 CREDITS)

COMMUNICATION SKILLS (10 CREDITS)		
ENGL& 101	English Composition 1	5
ENGL& 235	Technical Writing	5
QUANTITATIVE/SYMBOLIC REASONING SKILLS (5 CREDITS)		
MATH& 107	Math in Society	5
HUMANITES (5 CREDITS)		
CMST& 220	Public Speaking	5
SOCIAL SCIENCE (10 CREDITS)		
PSYC& 200	Lifespan Psychology	5
BUS& 101	Intro to Business	5
NATURAL SCIENCE (22 CREDITS)		
BIOL& 241	Human Anatomy and Physiology 1	6
BIOL& 242	Human Anatomy and Physiology 2	6
HSCI 210	Wellness	5
HSCI 200	Human Stress	5
or		
NUTR& 101	Nutrition	5

DIAGNOSTIC HEALTH AND FITNESS TECHNICIAN/INSTRUCTOR REQUIREMENTS (41 CREDITS) (FS ONLY)

HSCI 155	Anatomy and Physiology for the Health and Fitness Professional	5
HSCI 250	Kinesiology	3
HSCI 252	Nutrition and Exercise	3
HSCI 253	Essentials of Weight Management	2
HSCI 254	Essentials of Fitness Training	5
HSCI 256	Exercise Physiology for the Health/Fitness Prof	5
HSCI 257	Client Care and Personal Trainer Marketing	3
HSCI 258	Athletic Training and Acute Injury Management	2
HSCI 259	Special Populations Care	3

HSCI 260	Health Assessment and Fitness Testing	5
HSCI 262	Diagnostic Health and Fitness Tech Internship	5

Recommended: HSCI 228 First Aid and CPR for the Health Care Professional (2)

Total Credits Required **93**

■ CERTIFICATE DIAGNOSTIC HEALTH AND FITNESS TECHNICIAN/INSTRUCTOR (FS ONLY)

DIAGNOSTIC HEALTH AND FITNESS TECHNICIAN/INSTRUCTOR REQUIREMENTS (41 CREDITS)

HSCI 155	Anatomy and Physiology for the Health and Fitness Professional	5
HSCI 250	Kinesiology	3
HSCI 252	Nutrition and Exercise	3
HSCI 253	Essentials of Weight Management	2
HSCI 254	Essentials of Fitness Training	5
HSCI 256	Exercise Physiology for the Health/Fitness Prof	5
HSCI 257	Client Care and Personal Trainer Marketing	3
HSCI 258	Athletic Training and Acute Injury Management	2
HSCI 259	Special Populations Care	3
HSCI 260	Health Assessment and Fitness Testing	5
HSCI 262	Diagnostic Health and Fitness Tech Internship	5

Total Credits Required **41**

Digital Design PROFESSIONAL/TECHNICAL

Faculty: Brian Martin (FS)

Degree: Associate in Digital Design
Web site: www.pierce.ctc.edu/digdesign

Students interested in the digital design emphasis will learn to produce graphic materials and Web pages using the most current computer digital design software. In addition to solid computer skills, students in this emphasis develop a strong command of layout techniques and gain experience working under deadline pressure. Graduates are qualified to seek entry-level positions as graphic and Web page designers, magazine artists, computer illustrators, computer 2D/3D animators, digital imaging specialists, and multimedia authoring/programmer specialists. More information can be found on the Digital Design website at www.pierce.ctc.edu/digdesign.

Professional/technical program competencies can be found on the Pierce College website at www.pierce.ctc.edu/proftech/.

■ ASSOCIATE IN DIGITAL DESIGN (FS ONLY)

RELATED INSTRUCTION (20 CREDITS)

*	BUS 107	Business Mathematics	5
	BUS 240	Human Relations in the Workplace	5
	CMST& 220	Public Speaking	5
Select one:			5
*	ENGL& 235	Technical Writing	
*	JOURN 102	Intro to News Writing	
*	JOURN 120	Intro to Broadcasting	

DIGITAL DESIGN REQUIREMENTS (76 CREDITS)

ART 101	Basic Design, Beginning	5
CIS 121	Intro to Computer Information Systems	5
DDSGN 110	Intro to Graphic Design and Rich Media	5
DDSGN 120	Production Management	3
DDSGN 121	Layout Design and Publishing	3
DDSGN 130	Graphic Design II	5
DDSGN 140	Fundamentals of 3D Modeling and Animation	5
DDSGN 150	Web Design and CSS	5
DDSGN 160	Fundamentals of Digital Photography	5
DDSGN 170	Video Production and DVD Authoring	5
DDSGN 210	Fundamentals of Multimedia Authoring Systems	5
DDSGN 220	Integrated Digital Design I	5
DDSGN 230	Integrated Digital Design II	5
DDSGN 290	Supervised Internship	5
Select two from the following:		10
ART& 100	Art Appreciation	
ART 105	Intro to Art	
ART 111	Drawing, Beginning	
ART 201	Painting, Beginning	
DDSGN 131	Techniques in Adobe Illustrator	
DDSGN 141	Advanced 3D Modeling and Animation	
DDSGN 161	Advanced Photoshop	
DDSGN 211	Animation for the Web with Adobe Flash	

Total Credits Required **106**

Students entering the program should be able to type at least 35 wpm.

Students looking to transfer to a four-year school must take ENGL& 101 as well as other requirements dependent on the four-year institution (for example, take MATH& 107 instead of BUS 107). See advisor for details.

**Prerequisites required.*

Drama

Faculty: Patrick Daugherty, Fred Metzger (FS)
Degree: Associate of Arts (AA-DTA)

The Theatre/Digital Film curriculum is designed to give majors a thorough exposure to all aspects of the theatre arts and digital video. The department's philosophy is to offer a sequential program emphasizing "backstage" as well as "on stage" skills, integrated with digital video experience. Transfer students from the theatre program do well in a university setting because of the broad general education they receive at Pierce College.

Digital film production at Pierce College Theatre is an excellent opportunity to collaborate with fellow theatre/film students, departments, the campus community, and the greater Pierce County area. Digital film production/technical theatre students collaborate across the curriculum. Students in acting classes are captured on digital videos produced by the digital film-making classes. Digital film production/technical theatre students help the digital film classes as production crews for the films. English students write the films' scripts. Film subjects include campus and community life, from dental hygiene to oceanography and basketball to early childhood education. Films that focus on community awareness and needs are particularly encouraged.

Live theatre is a vital part of the Pierce College Theatre experience. The college presents at least one major production each fall, winter and spring quarter. Auditions are open to anyone who wants to reap the benefits of educational theatre. Cast and crew have the opportunity to work with highly trained directors and designers with full backstage support. Pierce College Theatre stages plays that are artistically challenging for technicians and actors, as well an exciting for audiences. Students and volunteers can participate in every aspect of the production: acting, set design and construction, promotion, wardrobe, makeup, props, stage management, lighting, sound, and special effects.

RECOMMENDED COURSES

The following courses should be taken in addition to the courses required for the AA-DTA degree. Be sure to see a Theatre advisor for more specific information.

Acting Emphasis:

ANTH& 100	Survey of Anthropology	5
ART 105	Intro to Art	5
CMST& 101	Intro to Communication	5
CMST& 220	Public Speaking	5
DRMA& 101	Intro to Theatre	5
DRMA 160	Intro to Film and Video	5
DRMA 165-167	Digital Moving Making I-III	5 ea
DRMA 260-262	Acting for Stage and Digital Film I-III	5 ea
DRMA 280-283	Theatre Production Practicum	4
ENGL 107	Composition – Writing About Literature	5
ENGL& 220	Intro to Shakespeare	5
Music	Any lecture course	5
PSYC& 100	General Psychology	5
SOC& 101	Intro of Sociology	5

Technical Theatre Emphasis:

ANTH& 100	Survey of Anthropology	5
ART 105	Intro to Art	5
CMST& 101	Intro to Communication	5
CMST& 102	Intro to Mass Media	5
DRMA& 101	Intro to the Theatre	5
DRMA 160	Intro to Film and Video	5
DRMA 165-167	Digital Movie Making I-III	5 ea
DRMA 170-172	Technical Film/Theatre I-III	5 ea

DRMA 280-285	Theatre Production Practicum	4
MUSC 107-108	Audio Production I- II	2.5 ea
PSYC& 100	General Psychology	5
SOC& 101	Intro to Sociology	5

105 Credit Option:
Take all of the Technical Theatre courses above and add DRMA 260, 261, and 262 during second year. See Theatre advisor for critical planning.

Filmmaking Emphasis:

ANTH& 100	Survey of Anthropology	5
ART 107-109	Photography (Beginning/ Interm/Adv)	5 ea
CMST& 102	Intro to Mass Media	5
DRMA 160	Intro to Film and Video	5
DRMA 165-167	Digital Movie Making I-II	3 ea
DRMA 170-172	Technical Film/Theatre I-III	5 ea
DRMA 280-285	Theatre Production Practicum	3
ENGL 107	Composition – Writing About Literature	5
ENGL& 236-238	Creative Writing I-III	5 ea
MUSC 107-108	Audio Production I-II	2.5 ea
PSYC& 100	General Psychology	5
SOC& 101	Intro to Sociology	5

Additional Theatre courses:

DRMA 255	Shakespeare Festival

Early Childhood Education

PROFESSIONAL/TECHNICAL & UNIVERSITY TRANSFER

Also see Elementary Education and Paraeducation.

Faculty: Greg Brazell, Judy DeJardin, Krissy Kim (FS)
Degrees: Associate in Early Childhood Education
Associate of Arts (AA-DTA) with Electives in ECE
Associate in Early Childhood Education and Associate of Arts (AA-DTA) (double degree)
Certificate: Early Childhood Education

Early Childhood Education courses are concerned with the growth and development of the young child, including physical, cognitive, emotional, and social areas of development. The ECE program emphasizes a developmentally appropriate curriculum and positive guidance techniques for teachers and parents.

The ECE degree programs prepare individuals to work with young children (birth through age eight) as employees in child care centers, child care homes, cooperative and private nursery schools or preschools, Head Start centers, Early Childhood Education Assistance Programs, and in programs for children with special needs.

The curriculum may also be applicable as an endorsement in Early Childhood Education to students seeking a Bachelor of Arts in Education degree in Elementary Education (kindergarten-third grade). Other related fields with four-year transfer potential are special education, child studies, social work, parent education, child and family counseling, child psychology, and lifespan psychology.

An I-BEST program is offered in a two-quarter day or night cohort with intensive academic support for Levels 5 and 6 English as a Second Language (ESL) student and Levels 3-6 Adult Basic Education (ABE) and GED students to successfully complete the Certificate in Early Childhood Education. The training is part of a longer pathway leading to completion of an associate degree in Early Childhood Education.

See Degree Outcomes on page 45.

Professional/technical program competencies can be found on the Pierce College website at www.pierce.ctc.edu/proftech/.

■ ASSOCIATE IN EARLY CHILDHOOD EDUCATION

GENERAL EDUCATION REQUIREMENTS

COMMUNICATIONS (10 CREDITS)

* ENGL& 101	English Composition I	5
Select one:		*5*
* ENGL 103	Composition – Argumentation and Research	
* ENGL 107	Composition – Writing about Literature	

*COMPUTATION/QUANTITATIVE/SYMBOLIC REASONING SKILLS (5 CREDITS)
Recommend:

ECE 161	Mathematics for Early Childhood Education	5

or any course that satisfies the quantitative/symbolic reasoning requirement for the AA-DTA degree

HUMANITIES (5 CREDITS)
Select one: 5

* CMST& 101	Intro to Communication
* CMST& 220	Public Speaking

SOCIAL SCIENCE (15 CREDITS)

* PSYC& 100	General Psychology	5
* PSYC& 200	Lifespan Psychology	5
* Choose from: ANTH& 106 or 206 or SOC& 101 or SOC 211		5

NATURAL SCIENCE (5 CREDITS)
Select from core Natural Science list (GER-NS) 5
ECE REQUIREMENTS (58 CREDITS)

ECE 111	Intro to Early Childhood Education	5
ECE 112	Planning the Young Child's Learning Environment	5
ECE 202	Math/Science for Children	5
ECE 205	Music for Children	5
ECE 210	Curriculum Development and Application	3
ECE 212	Survey of Special Ed/Early Intervention	5
ECE 213	Literature for Young Children	5
ECE 215	Art for Children	5
ECE 220	Nursery School Practicum	5
ECE 222	Child Care Work-Based Learning	2
ECE 223	Special Education Work-Based Learning	2
ECE 224	Headstart/ECEAP Work-Based Learning	2
ECE 230	Parent-School Partnerships	5
ECE 240	Nutrition, Health and Safety for Children	3
ECE 280	Early Childhood Education Professional Portfolio	1
	Total Credits Required	**99**

**Meets related instruction requirements for professional/technical programs.*

■ ASSOCIATE OF ARTS (AA-DTA) WITH ELECTIVES IN EARLY CHILDHOOD EDUCATION

Please Note: Students must fulfill all Associate of Arts (AA-DTA) degree requirements.

GENERAL EDUCATION REQUIREMENTS (60 CREDITS)

COMMUNICATIONS (10 CREDITS)

* ENGL& 101	English Composition I	5
Select one:		5
* ENGL 103	Composition – Argumentation and Research	
* ENGL 107	Composition – Writing About Literature	

QUANTITATIVE/SYMBOLIC REASONING SKILLS (5 CREDITS)
*See GER-QS Distribution List 5
MATH& 171 recommended
HUMANITIES (15 CREDITS)
Select from at least three disciplines; no more than five credits from performance skills or foreign language.

Recommended:		5
* CMST& 101	Intro to Communication or	
* CMST& 220	Public Speaking	
* Other GER Humanities Courses		10

SOCIAL SCIENCE (15 CREDITS)
Select from at least three disciplines.
Recommended:

* ECE 111	Intro to Early Childhood Education	5
* PSYC& 100	General Psychology	5
* ANTH& 106 or 220 or SOC& 101 or 211		5

NATURAL SCIENCE (15 CREDITS) 15
Select from at least three disciplines; include at least one laboratory course. See GER Distribution List.
GTE ELECTIVES (15 CREDITS)
Select from the following ECE courses:

ECE 202	Math/Science for Children	5
ECE 210	Curriculum Development and Application	5
ECE 212	Survey of Special Education/Early Intervention	5
ECE 213	Literature for Young Children	5

GENERAL ELECTIVES (5 CREDITS)
Courses numbered 100 or above. A maximum of five physical activity education credits (numbered 100-259) may be applied to this area.

ECE 112	Planning the Young Child's Learning Environ.	5
ECE 161	Mathematics for Early Chilhood Education	5
ECE 205	Music for Young Children	5
ECE 215	Art for Children	5

ECE 220	Nursery School Practicum	5
ECE 222	Child Care Work-Based Learning	2
ECE 223	Special Education Work-Based Learning	2
ECE 224	Head Start/ECEAP Work-Based Learning	2
ECE 230	Parent-School Partnerships	5
ECE 240	Nutrition, Health and Safety for Children	3
	Total Credits Required	**90**

**Courses which satisfy general education requirements for AA degree.*

■ ASSOCIATE OF ARTS (AA-DTA) AND ASSOCIATE IN EARLY CHILDHOOD EDUCATION

Please note: Students must fulfill all Associate of Arts (AA-DTA) degree requirements.

GENERAL EDUCATION REQUIREMENTS (60 CREDITS)

COMMUNICATIONS (10 CREDITS)

* ENGL& 101	English Composition I	5
Select one:		5
* ENGL 103	Composition – Argumentation and Research	
* ENGL 107	Composition – Writing About Literature	

QUANTITATIVE/SYMBOLIC REASONING SKILLS (5 CREDITS)

*See GER-QS Distribution List		5
MATH & 171 recommended		

HUMANITIES (15 CREDITS)

Select from at least three disciplines; no more than five credits from performance skills. No more than five credits are allowed in world (foreign) language to satisfy the humanities requirements.

Select one:		5
* CMST& 101	Intro to Communication	
* CMST& 220	Public Speaking	
* Other GER Humanities Courses		10

SOCIAL SCIENCE (15 CREDITS)

Select from at least three disciplines; ECE 111 satisfies one discipline requirement.

* PSYC& 100	General Psychology	5
* PSYC& 200	Lifespan Psychology	5
* Choose from:		
ANTH& 106 or SOC& 101 or 211		5

NATURAL SCIENCE (15 CREDITS)

Select from at least three disciplines; must include at least one lab course. See GER-NS distribution list.

EARLY CHILDHOOD EDUCATION REQUIREMENTS (58 CREDITS)

* ECE 111	Intro to Early Childhood Education	5
ECE 112	Planning the Young Child's Learning Environ.	5
ECE 202	Math/Science for Children	5
ECE 205	Music for Children	5
ECE 210	Curriculum Development and Application	3
ECE 212	Survey of Special Ed/Early Intervention	5
ECE 213	Literature for Young Children	5
ECE 215	Art for Children	5
ECE 220	Nursery School Practicum	5
ECE 222	Child Care Work-Based Learning	2
ECE 223	Special Education Work-Based Learning	2
ECE 224	Headstart/ECEAP Work-Based Learning	2
ECE 230	Parent-School Partnerships	5
ECE 240	Nutrition, Health and Safety for Children	3
ECE 280	Early Childhood Education Professional Portfolio	1
	Total Credits Required	**118**

** Courses which satisfy general education requirements for AA-DTA degree.*

■ CERTIFICATE IN EARLY CHILDHOOD EDUCATION

EARLY CHILDHOOD EDUCATION REQUIREMENTS (17 CREDITS)

ECE 111	Intro to Early Childhood Education	5
ECE 240	Nutrition, Health and Safety for Children	3
Select one:		5
ECE 112	Planning the Young Child's Learning Environment	
ECE 205	Music for Children	
ECE 215	Art for Children	
Select two:		4
ECE 222	Child Care Work-Based Learning (2)	
ECE 223	Special Education Work-Based Learning (2)	
ECE 224	Headstart/ECEAP Work-Based Learning (2)	

ELECTIVE REQUIREMENTS (8 CREDITS)

Elective	(course numbered 100 or above)	8
	Total Credits Required	**25**

Economics

Faculty: Tom Phelps, Blake Sorem (FS); Stephen Jones (PY)

Degree: Associate of Arts (AA-DTA)

Generally speaking, economics is the science of choice. Microeconomics is the science of individual choice; macroeconomics is the science of aggregate (collective) choice. More specifically, economics is the study of how people establish social arrangements for producing and distributing goods and services to sustain and enhance human life. Its main objective is to determine a wise use of limited economic resources so that people receive the maximum benefit at the lowest cost.

The economics discipline embraces a body of techniques and conceptual tools that are useful for understanding and analyzing any social arrangement, in particular a variety of complex economic systems. Career avenues for graduates are numerous, since their understanding of the economy and their problem-solving and critical thinking skills are applicable to a wide range of activities in business and/or government.

Education UNIVERSITY TRANSFER

Also see Early Childhood Education and Paraeducation.

Faculty: Greg Brazell, Judy DeJardin, Krissy Kim (FS)

Degree: Associate in Elementary Education (DTA/MRP)
Associate in Biology Education (AS-T)
Associate in Chemistry Education (AS-T)
Associate in Earth and Space Science (AS-T)
Associate in General Science Education (AS-T)
Associate in Math Education – DTA
Associate in Physics Education (AS-T)

By providing an introduction to teaching, as well as a variety of classroom experiences, the Education department offers students a unique perspective into various educational pathways. This blend of academic and classroom experiences — from preschool to post-secondary — is designed to give future educators a firm foundation to begin a career in education. Career preparation focus areas include the following:

Elementary and secondary education: Courses offered within this focus meet the lower division requirements of Washington state four-year institutions to which the student plans to transfer. Courses offered within this department meet the Associate of Arts (AA-DTA) or Associate of Science (AS-T) degree requirements. Students are encouraged to work closely with a faculty advisor in selecting, planning and completing educational goals. It is also highly recommended that students coordinate with the institution to which they intend to transfer.

Early Childhood Education: The Early Childhood Education program offers an associate degree in early childhood education and an Associate of Arts (AA-DTA) with electives in early childhood education, which is transferable to four-year state and private institutions. Graduates may transfer into a variety of disciplines including elementary education, special education, early childhood education, child psychology, speech pathology, family and consumer science education, and social services.

Paraeducation: This professional-technical program offers an associate degree in paraeducation, preparing students for employment as valuable members of instructional teams contributing meaningfully to learner-centered activities. Positions include education assistant, guidance specialist, instructional aide, transitional specialist, playground assistant, special education assistant, teacher aide, and tutor. Coursework covers the Washington State Competencies and Skill Standards for Paraeducators.

See Degree Outcomes on page 45.

■ ASSOCIATE IN ELEMENTARY EDUCATION (DTA/MRP)

GENERAL DEGREE REQUIREMENTS

- Minimum of 90 quarter hours of transferable credit
- College cumulative grade point average of at least 2.0
- ENGL& 101 - English Composition I
- Minimum of 25 of last 45 credits must be earned at Pierce College

- 2.0 (C) grade or better for all requirements (unless prerequisites state otherwise)
- "Pass" (P) grades may be used for General Elective credits only.
- Independent Study may be used only for General Elective credits.
- Cooperative work experience/work-based learning credits may be applied to the General Elective or Other area only.
- Once a course has been successfully completed, credits obtained may be used only once, even if a course is listed in more than one category.

COURSE REQUIREMENTS

COMMUNICATION SKILLS (10 CREDITS)

ENGL& 101	English Composition I (required)	5
Select one:		5
ENGL 103	Composition – Argumentation and Research	
ENGL 107	Composition – Writing about Literature	

QUANTITATIVE/SYMBOLIC REASONING SKILLS (15 CREDITS)

Prereq. of MATH 095 or 098 with 2.0 required, or placement out of MATH 098. Math courses must have focus on development of math concepts related to elementary education curriculum.

MATH & 171-173	Math for Elementary Educ I-III	15

HUMANITIES (15 CREDITS)

Must include three to five credits of public speaking. Additional credit in art, music, literature and theatre.

ART& 100	Art Appreciation	5
ART 101	Design	5
ART 105	Intro to Art	5
ART 145	History of Art (Contemporary)	5
CMST& 220	Public Speaking	5
DRMA& 101	Intro to Theatre	5
* DRMA 260	Acting for Stage and Digital Film	5
ENGL& 111	Intro to Literature	5
ENGL& 112	Intro to Fiction	5
ENGL& 113	Intro to Dramatic Literature	5
ENGL& 114	Intro to Poetry	5
ENGL 204	The Bible as Literature	5
ENGL 205	Intro to Mythology	5
ENGL 210	Intro to American Literature	5
ENGL& 220	Intro to Shakespeare	5
ENGL& 226-228	British Literature I-III	5
ENGL& 236-238	Creative Writing I-III	5
ENGL 239	World Literature	5
ENGL& 244-246	American Literature I-III	5
ENGL 264	Literature of U.S. Slavery and Abolition	5
ENGL 266	Women Writers: Voices International Mosaic	5
MUSC 100	Intro to Rock and Roll	5
MUSC 102	American Popular Music	5
MUSC 103	Intro to Jazz	5
MUSC& 105	Music Appreciation	5
MUSC& 141	Music Theory I	5

**GER/HM-Performance.*

SOCIAL SCIENCE (25 CREDITS)

Must include at least three different disciplines. Five credits of US history, five credits of worldcivilization or non-western history, and five credits of PSYC& 100 are required.

ECON 110	Survey of Economics	5
ECON& 201	Micro Economics	5
ECON& 202	Macro Economics	5
GEOG 100	Intro to Geography	5
GEOG 150	Europe, Americas, Australia, New Zealand	5
GEOG 160	Africa, Middle East, and Asia	5
GEOG 200	Cultural Geography	5
GEOG 205	Intro to the Physical Environment	5
HIST& 126-128	World Civilizations I-III (required)	5
HIST& 156-158	History of United States I-III (required)	5
HIST 260	History of Russia and Soviet Union	5
HIST 270	Intro to the Far East	5
HIST 272	Survey of Middle East History	5
HIST 280	Intro to Chinese Civilization	5
HIST 284	Intro to the Balkans	5
POLS& 101	Intro to Political Science	5
POLS& 202	American Government	5
POLS& 203	International Relations	5
PSYC& 100	General Psychology (required)	5

NATURAL SCIENCE (15 CREDITS)

Must include five credits of biological sciences, five credits geology or Earth science, and five credits of physical sciences, i.e. chemistry, physics. Choose at least two laboratory science.

ASTR 100	Survey of Astronomy	5
ASTR& 101	Intro to Astronomy	5
ASTR& 110	The Solar System	5
ATMOS 101	Intro to Weather	5
BIOL& 100	Survey of Biology	5
BIOL& 170	Human Biology	5
BIOL& 175	Human Biology w/lab	5
BIOL& 160	General Biology w/lab	5
CHEM& 100	Preparatory Chemistry (non-lab)	5
CHEM& 110	Chemistry for Non-Scientists	5
CHEM& 121	Intro to Chemistry	5
CHEM& 131	Intro to Organic and Biochemistry	6
CHEM& 161	General Chemistry w/lab I	5
ENVS& 100	Survey of Environmental Science	5
GEOG 210	Physical Geography	5
GEOL& 101	Intro to Physical Geology	5
GEOL 107	Earth Systems Science	5
GEOL& 110	Environmental Geology	5
GEOL 220	Earth Resources and the Environment	5
NSCI 150	Nature	5
NSCI 160	Environmental Biology	5
OCEA& 101	Intro to Oceanography	5
OCEA 170	Marine Biology	5
PHYS& 100	Physics for Non-Science Majors	5
PHYS& 121	General Physics I	5
PS 101	Intro to Physical Science	5

OTHER (18-20 CREDITS)

EDUC 190	Education Practicum	3-5
EDUC& 202	Intro to Education	5
PSYC& 200	Lifespan Psychology	5

GENERAL ELECTIVES (5 CREDITS)

Recommend – ANTH& 106, 206, 210, 240, ENGL 266, HUM 106, SOC 220 or computer class to meet cultural/gender and computer literacy requirements.

Total Credits Required 98-100

Notes

1. Students completing this degree will receive the same priority consideration for admission to the baccalaureate institution as they would for completing the direct transfer associate's degree and will be given junior status by the receiving institution.

2. Courses in humanities/social science must come from the current ICRC distribution list in order to count as General Education or General University Requirements (GERs/GURs) at the receiving institution. Additional general educational, cultural diversity, and foreign language requirements, as required by the transfer institution, must be met prior to the completion of a baccalaureate degree.

3. Students are responsible for checking specific major requirements of baccalaureate institutions in the year prior to transferring.

4. Students must take the WEST-B exam in order to apply to teacher prep programs.

■ ASSOCIATE IN BIOLOGY EDUCATION (AS-T)

(AS-T degree for future secondary biology teachers)

GENERAL DEGREE REQUIREMENTS

- Minimum of 90 quarter hours of transferable credit
- College cumulative GPA of at least 2.0
- ENGL& 101 - English Composition I
- Minimum of 25 of last 45 credits must be earned at Pierce College.
- 1.5 grade (C-) or better for all requirements (unless prerequisites state otherwise)
- "Pass" (P) grades may be used for General Elective credits only.
- Independent Study may be used only for General Elective credits.
- Cooperative work experience/work-based learning credits may be applied to the General Elective area only.
- Once a course has been successfully completed, credits obtained may be used only once, even if a course is listed in more than one category.

COURSE REQUIREMENTS

COMMUNICATION SKILLS (10 CREDITS)

ENGL& 101	English Composition I (required)	5
Select one:		5
ENGL 103	Composition – Argumentation and Research	
ENGL 107	Composition – Writing about Literature	

QUANTITATIVE/SYMBOLIC REASONING SKILLS (10 CREDITS)

MATH& 151	Analytical Geometry and Calculus I	5
MATH& 152	Analytical Geometry and Calculus II	5

HUMANITIES AND SOCIAL SCIENCE (15 CREDITS)

CMST& 220	Public Speaking	5
PSYC& 100	General Psychology	5
Multicultural elective by advisement		5

SPECIFIC PRE-MAJOR REQUIREMENTS (68-71 CREDITS)

BIOL& 211-213	Majors: Cellular/Animal/Plant	15
CHEM& 161-163	General Chemistry w/Lab I-III	15
CHEM& 261-263	Organic Chemistry w/Lab I-III	18
MATH& 146	Intro to Statistics	5
Select one:		15-18
* PHYS& 121-123	General Physics I-III	
* PHYS& 221-223	Engineering Physics I-III	

EDUCATION REQUIREMENTS (8-10 CREDITS)

EDUC 190	Education Practicum	3-5
EDUC& 202	Intro to Education	5

GENERAL ELECTIVES (0-5 CREDITS)

PSYC& 200 strongly recommended

Additional college-level courses so that total earned is at least 90 credits. May include prerequisites for major courses (e.g., precalculus), additional major coursework, or specific general education or other university requirements, as approved by the advisor.

Total Credits Required 116-121

**Optional. Some baccalaureate institutions require physics. Students should check major requirements with the four-year institution prior to program planning.*

Notes

1. Students completing this degree will receive the same priority consideration for admission to the baccalaureate institution as they would for completing the direct transfer associate degree and will be given junior status by the receiving institution.

2. Courses in humanities/social science must come from the current ICRC distribution list in order to count as General Education or General University Requirements (GERs/GURs) at the receiving institution. Additional general educational, cultural diversity, and foreign language requirements, as required by the transfer institution, must be met prior to the completion of a baccalaureate degree.

3. Students should be advised that some baccalaureate institutions require physics with calculus to meet specific pre-major science category.

4. Precalculus cannot be used to satisfy the mathematics requirement (2 above).

5. Students are responsible for checking specific major requirements of baccalaureate institutions in the year prior to transferring.

■ ASSOCIATE IN CHEMISTRY EDUCATION (AS-T)

(AS-T degree for future secondary chemistry teachers)

GENERAL DEGREE REQUIREMENTS

- Minimum of 90 quarter hours of transferable credit
- College cumulative GPA of at least 2.0
- ENGL& 101 - English Composition I
- Minimum of 25 of last 45 credits must be earned at Pierce College.
- 1.5 grade (C-) or better for all requirements is required (unless prerequisites state otherwise.)
- "Pass" (P) grades may be used for General Elective credits only.
- Independent Study may be used only for General Elective credits.
- Cooperative work experience/work-based learning credits may be applied to the General Elective area only.
- Once a course has been successfully completed, credits obtained may be used only once, even if a course is listed in more than one category.

COURSE REQUIREMENTS

COMMUNICATION SKILLS (10 CREDITS)

ENGL& 101	English Composition I (required)	5
Select one:		5
ENGL 103	Composition – Argumentation and Research	
ENGL 107	Composition – Writing about Literature	

QUANTITATIVE/SYMBOLIC REASONING SKILLS (10 CREDITS)

MATH& 151	Calculus I	5
MATH& 152	Calculus II	5

HUMANITIES AND SOCIAL SCIENCE (15 CREDITS)

CMST& 220	Public Speaking	5
PSYC& 100	General Psychology	5
Multicultural elective by advisement		5

SPECIFIC PRE-MAJOR REQUIREMENTS (53-56 CREDITS)

CHEM& 161-163	General Chemistry w/Lab I-III	15
CHEM& 261-263	Organic Chemistry w/Lab I-III	18
MATH& 146	Intro to Statistics (or MATH& 153)	5
Select one:		15-18
PHYS& 121 -123	General Physics I-III	
PHYS& 221-223	Engineering Physics I-III	

EDUCATION REQUIREMENTS (8-10 CREDITS)

EDUC 190	Education Practicum	3-5
EDUC& 202	Intro to Education	5

GENERAL ELECTIVES (0-5 CREDITS)

PSYC& 200 strongly recommended.

Additional college-level courses so that total earned is at least 90 credits. May include prerequisites for major courses (e.g., precalculus), additional major coursework, or specific general education or other university requirements, as approved by the advisor.

Total Credits Required 96-106

Notes

1. Students completing this degree will receive the same priority consideration for admission to the baccalaureate institution as they would for completing the direct transfer associate degree and will be given junior status by the receiving institution.

2. Courses in humanities/social science must come from the current ICRC distribution list in order to count as General Education or General University Requirements (GERs/GURs) at the receiving institution. Additional general educational, cultural diversity, and foreign language requirements, as required by the transfer institution, must be met prior to the completion of a baccalaureate degree.

3. Students should be advised that some baccalaureate institutions require physics with calculus to meet specific pre-major science category.

4. Precalculus cannot be used to satisfy the mathematics requirement (2 above).

5. Students are responsible for checking specific major requirements of baccalaureate institutions in the year prior to transferring.

■ ASSOCIATE IN EARTH AND SPACE SCIENCE EDUCATION (AS-T)

(AS-T degree for future secondary earth and space science teachers)

GENERAL DEGREE REQUIREMENTS

- Minimum of 90 quarter hours of transferable credit
- College cumulative GPA of at least 2.0
- ENGL& 101 - English Composition I
- Minimum of 25 of last 45 credits must be earned at Pierce College.
- 1.5 grade (C-) or better for all requirements (unless prerequisites state otherwise)
- "Pass" (P) grades may be used for General Elective credits only.
- Independent Study may be used only for General Elective credits.
- Cooperative work experience/work-based learning credits may be applied to the General Elective area only.
- Once a course has been successfully completed, credits obtained may be used only once, even if a course is listed in more than one category.

COURSE REQUIREMENTS

COMMUNICATION SKILLS (10 CREDITS)

ENGL& 101	English Composition I (required)	5
Select one:		5
ENGL 103	Composition – Argumentation and Research	
ENGL 107	Composition – Writing about Literature	

Note: WSU requires for admission to the BS in General Science that students complete a 200 or higer level writing class which can be met at the CTC (if a 200 level course is offered to meet this DTA basic requirement) or taken after transfer.

QUANTITATIVE/SYMBOLIC REASONING SKILLS (5 CREDITS)

MATH& 142	Precalculus II	5

Or a higher level math class

HUMANITIES (15 CREDITS) 15

Selected from at least two disciplines. No more than 10 credits allowed from any one discipline. No more than five credits in world language. No more than five credits in performance/skills courses are allowed. Suggested disciplines include: art, music, history, philosophy, world language, American drama/theater, sign language, and speech.

Note: EWU requires 5 quarter credits of speech equivalent to CMST& 101 or CMST& 220.

SOCIAL SCIENCE (15 CREDITS)

PSYC& 100	General Psychology	5
Social Science electives		10

At least one course in an area other than psychology

NATURAL SCIENCE (40-48 CREDITS)

MATH& 146	Intro to Statistics	5
GEOL& 101	Intro to Physical Geology	5
GEOL& 103	Historical Geology	5
CHEM& 161-163		10-15
Select one:		15-18
PHYS& 121-123	General Physics I-III	
PHYS& 221-223	Engineering Physics I-III	

Note: CWU, EWU, WWU and PLU require 35 credits. WSU requires 45 credits due to the requirements of a full year sequence in both General Chemistry and Physics (15 credits each, not 10 credits). Students plannin to attend WSU should complete full year sequences rather than transfer in the middle of the sequences.

ELECTIVES (10 CREDITS)

Recommended additional courses in astronomy, ocenography or meterology, related to endorsement competency requirements. The baccalaureate institutions will accept five quarter credits of education-specific professional introduction (a course equivalent to EDUC& 202). A maximum of five credits in college-level courses typical not regarded as transferable is allowed in the elective category. All other electives must be fully transferable as defined by the receiving institution.

Additional college-level courses so that total earned is at least 90 credits. May include prerequisites for major courses (e.g., precalculus), additional major coursework, or specific general education or other university requirements, as approved by the advisor

Total Credits Required 95-103

Notes

1. Students completing this degree will receive the same priority consideration for admission to the baccalaureate institution as they would for completing the direct transfer associate degree and will be given junior status by the receiving institution.

2. Courses in humanities/social science must come from the current ICRC distribution list in order to count as General Education or General University Requirements (GERs/GURs) at the receiving institution. Additional general educational, cultural diversity, and foreign language requirements, as required by the transfer institution, must be met prior to the completion of a baccalaureate degree.

3. Students are responsible for checking specific major requirements of baccalaureate institutions in the year prior to transferring.

■ ASSOCIATE IN GENERAL SCIENCE EDUCATION (AS-T)

(AS-T degree for future secondary general science teachers)

GENERAL DEGREE REQUIREMENTS

- Minimum of 90 quarter hours of transferable credit
- College cumulative GPA of at least 2.0
- ENGL& 101 - English Composition I
- Minimum of 25 of last 45 credits must be earned at Pierce College.
- 1.5 grade (C-) or better for all requirements (unless prerequisites state otherwise)
- "Pass" (P) grades may be used for General Elective credits only.
- Independent Study may be used only for General Elective credits.
- Cooperative work experience/work-based learning credits may be applied to the General Elective area only.
- Once a course has been successfully completed, credits obtained may be used only once, even if a course is listed in more than one category.

COURSE REQUIREMENTS

COMMUNICATION SKILLS (10 CREDITS)

ENGL& 101	English Composition I (required)	5
Select one:		5
ENGL 103	Composition – Argumentation and Research	
ENGL 107	Composition – Writing about Literature	

QUANTITATIVE/SYMBOLIC REASONING SKILLS (10 CREDITS)

MATH& 151	Calculus I	5
MATH& 152	Calculus II	5

HUMANITIES AND SOCIAL SCIENCE (15 CREDITS)

CMST& 220	Public Speaking	5
PSYC& 100	General Psychology	5
Multicultural elective by advisement		5

SPECIFIC PRE-MAJOR REQUIREMENTS (45-53 CREDITS)

MATH& 146	Intro to Statistics (or MATH& 153)	5
And three out of the four sequence areas listed below:		
BIOL& 211-213	Majors: Cellular/Animal/Plant	15
CHEM& 161-163	General Chemistry w/ Lab I-III	15
GEOL& 101 & 103	Intro to Physical Geology and Hist Geology	10
PHYS& 121 -123	General Physics I-III (or PHYS& 221-223)	15-18

EDUCATION REQUIREMENTS (8-10 CREDITS)

EDUC 190	Education Practicum	3-5
EDUC& 202	Intro to Education	5

GENERAL ELECTIVES (0-5 CREDITS)

PSYC& 200 strongly recommended

Additional college-level courses so that total earned is at least 90 credits. May include prerequisites for major courses (e.g., precalculus), additional major coursework, or specific general education or other university requirements, as approved by the advisor.

Total Credits Required 93-103

Notes

1. Students completing this degree will receive the same priority consideration for admission to the baccalaureate institution as they would for completing the direct transfer associate' degree and will be given junior status by the receiving institution.

2. Courses in humanities/social science must come from the current ICRC distribution list in order to count as General Education or General University Requirements (GERs/GURs) at the receiving institution. Additional general educational, cultural diversity, and foreign language requirements, as required by the transfer institution, must be met prior to the completion of a baccalaureate degree.

3. Students should be advised that some baccalaureate institutions require physics with calculus to meet specific pre-major science category.

4. Biology majors should select organic chemistry or physics for specific pre-major requirements.

5. Precalculus cannot be used to satisfy the mathematics requirement (2 above).

6. Students are responsible for checking specific major requirements of baccalaureate institutions in the year prior to transferring.

■ ASSOCIATE IN MATH EDUCATION – DTA

(AS-T degree for future secondary math teachers)

GENERAL DEGREE REQUIREMENTS

- Minimum of 90 quarter hours of transferable credit
- College cumulative GPA of at least 2.0
- ENGL& 101 - English Composition I
- Minimum of 25 of last 45 credits must be earned at Pierce College.
- 1.5 grade (C-) or better for all requirements (unless prerequisites state otherwise)
- "Pass" (P) grades may be used for General Elective credits only.
- Independent Study may be used only for General Elective credits.
- Cooperative work experience/work-based learning credits may be applied to the General Elective area only.
- Once a course has been successfully completed, credits obtained may be used only once, even if a course is listed in more than one category.

COURSE REQUIREMENTS

COMMUNICATION SKILLS (10 CREDITS)

ENGL& 101	English Composition I (required)	5
Select one:		5
ENGL 103	Composition – Argumentation and Research	
ENGL 107	Composition – Writing about Literature	

QUANTITATIVE/SYMBOLIC REASONING SKILLS (5 CREDITS)

MATH& 151	Calculus I	5

HUMANITIES (15 CREDITS)

CMST& 220	Public Speaking	5
Humanities (GER-HM) electives†		10

†At least two disciplines with no more than 10 credits allowed from any one discipline required. No more than five credits in foreign language and no more than five credits in performance/skills courses are allowed.

SOCIAL SCIENCES (15 CREDITS)

PSYC& 100	General Psychology	5
Multicultural elective by advisement		5
Social Science (GER-SS) electives†		5

†Credits selected must be from at least two disciplines and no more than 10 credits allowed from any one discipline. PSYC& 200 strongly recommended.

NATURAL SCIENCES (15 CREDITS)

MATH& 152	Calculus II	5
Natural Science (GER-NS) elective with lab†		5
Natural Science (GER-NS) elective†		5

†No more than 10 credits allowed from any one discipline. At least 10 credits in physical, biological and/or earth sciences (i.e., physics, chemistry, geology or biology).

ADDITIONAL MATH REQUIREMENTS (15-20 CREDITS)

MATH& 153	Calculus III	5
MATH 205	Linear Algebra	5
MATH 224	Multivariate Calculus	5
MATH 238	Differential Equations (recommended)	5

EDUCATION REQUIREMENTS (8-10 CREDITS)

EDUC 190	Education Practicum	3-5
EDUC& 202	Intro to Education	5

GENERAL ELECTIVES (10 CREDITS)

Additional college-level courses so that total earned is at least 90 credits. May include prerequisites for major courses (e.g., precalculus), additional major coursework, or specific general education or other university requirements, as approved by the advisor.

Total Credits Required 93-100

Notes

1. Students completing this degree will receive the same priority consideration for admission to the baccalaureate institution as they would for completing the direct transfer associate degree and will be given junior status by the receiving institution.

2. Courses in humanities/social science must come from the current ICRC distribution list in order to count as General Education or General University Requirements (GERs/GURs) at the receiving institution. Additional general educational, cultural diversity, and foreign language requirements, as required by the transfer institution, must be met prior to the completion of a baccalaureate degree.

3. Students should be advised that some baccalaureate institutions require physics with calculus to meet specific pre-major science category.

4. Biology majors should select organic chemistry or physics for specific pre-major requirements.

5. Precalculus cannot be used to satisfy the mathematics requirement (2 above).

6. Students are responsible for checking specific major requirements of baccalaureate institutions in the year prior to transferring.

■ ASSOCIATE IN PHYSICS EDUCATION (AS-T)

(AS-T degree for future secondary physics teachers)

GENERAL DEGREE REQUIREMENTS

- Minimum of 90 quarter hours of transferable credit
- College cumulative GPA of at least 2.0
- ENGL& 101 - English Composition I
- Minimum of 25 of last 45 credits must be earned at Pierce College.
- 1.5 grade (C-) or better for all requirements (unless prerequisites state otherwise)
- "Pass" (P) grades may be used for General Elective credits only.
- Independent Study may be used only for General Elective credits.
- Cooperative work experience/work-based learning credits may be applied to the General Elective area only.
- Once a course has been successfully completed, credits obtained may be used only once, even if a course is listed in more than one category.

COURSE REQUIREMENTS

COMMUNICATION SKILLS (10 CREDITS)

ENGL& 101	English Composition I (required)	5
Select one:		5
ENGL 103	Composition – Argumentation and Research	
ENGL 107	Composition – Writing about Literature	

QUANTITATIVE/SYMBOLIC REASONING SKILLS (10 CREDITS)

MATH& 151	Calculus I	5
MATH& 152	Calculus II	5

HUMANITIES AND SOCIAL SCIENCE (15 CREDITS)

CMST& 220	Public Speaking	5
PSYC& 100	General Psychology	5
Multicultural elective by advisement		5

SPECIFIC PRE-MAJOR REQUIREMENTS (53 CREDITS)

CHEM& 161/162	General Chemistry w/Lab I-II	10
CS& 131/141	Computer Science I – C+/JAVA	5
MATH& 153	Analytical Geometry and Calculus III	5
MATH 205	Linear Algebra	5
MATH 224	Multivariate Calculus	5
MATH 238	Differential Equations	5
PHYS& 221-223	Engineering Physics I-III	18

EDUCATION REQUIREMENTS (8-10 CREDITS)

EDUC 190	Education Practicum	3-5
EDUC& 202	Intro to Education	5

GENERAL ELECTIVES (0-5 CREDITS)

PSYC& 200 strongly recommended

Engineering disciplines should include a design component consistent with ABET accreditation standards. Additional college-level courses so that total earned is at least 90 credits. May include prerequisites for major courses (e.g., precalculus), additional major coursework, or specific general education or other university requirements, as approved by the advisor.

Total Credits Required 94-103

Notes

1. Students completing this degree will receive the same priority consideration for admission to the baccalaureate institution as they would for completing the direct transfer associate degree and will be given junior status by the receiving institution.

2. Courses in humanities/social science must come from the current ICRC distribution list in order to count as General Education or General University Requirements (GERs/GURs) at the receiving institution. Additional general educational, cultural diversity, and foreign language requirements, as required by the transfer institution, must be met prior to the completion of a baccalaureate degree.

3. Students should be advised that some baccalaureate institutions require physics with calculus to meet specific pre-major science category.

4. Precalculus cannot be used to satisfy the mathematics requirement (2 above).

5. Students are responsible for checking specific major requirements of baccalaureate institutions in the year prior to transferring.

Emergency Medical Technician *— See Health Professions.*

Engineering

Faculty: Kenneth Schroeder (PY)

Degree: Associate of Arts (AA-DTA); AA –Option B
Associate of Science (AS-T) – Track II

The Engineering program is primarily an engineering transfer program intended to meet requirements for entry into a four-year institution with junior standing. Students planning to transfer are encouraged to complete AS-T or AA-DTA degree requirements and should check with the transfer institution regarding specific course needs and transferable credits. The time needed to complete the program at Pierce may vary according to the requirements of the transfer institution and on the student's level of prior academic preparation. Students should work carefully with the faculty advisor to plan a program that will ensure successful completion and transfer of credits.

Students interested in exploring a possibility of majoring in engineering and examining different types of engineering are encouraged to take ENGR 101: Intro to Engineering.

■ ENGINEERING MAJOR

The following courses are recommended as being of special interest to engineering students. For AA-DTA and AS-T degree students, as many of these courses as possible should be taken, in addition to other degree requirements. Check with the advisor.

CHEM& 161	General Chemistry w/Lab I	5
CHEM& 162	General Chemistry w/Lab II	5
ENGL& 235	Technical Writing	5
ENGR 101	Intro to Engineering	5
ENGR&114	Engineering Graphics (CAD)	5
ENGR 142	Computer Programming C++ for Engineers	5
ENGR& 214	Statics	5
ENGR& 215	Dynamics	5
ENGR& 224	Thermodynamics	5

ENGR& 225	Mechanics of Materials	5
MATH& 151	Calculus I	5
MATH& 152	Calculus II	5
MATH& 153	Calculus III	5
MATH 205	Linear Algebra	5
MATH 224	Multivariate Calculus	5
MATH 238	Differential Equations	5
PHYS& 221	Engineering Physics I	6
PHYS& 222	Engineering Physics II	6
PHYS& 223	Engineering Physics III	6

English

Faculty: Kristin Brunnemer, Michael Darcher, Denise Hartley, Steve Jaech, Leslie Michael, Sharon Russell, Vicki Scannell, (FS); Jamie Fitzgerald, Duncan McClinton, Ann Salak, Elizabeth Stevens, Corinna Wycoff (PY)
Degree: Associate of Arts (AA-DTA)

The English Department provides a variety of courses which build essential skills for virtually every career or profession while offering the basic transfer requirements for most colleges and universities in the country. Pierce College's English courses expose students to the skills, ideas, and literary works that are the foundation of a liberal arts education.

Students planning to transfer as English majors should complete AA-DTA degree requirements and must check with transfer institutions regarding specific requirements. English majors may find dozens of special emphasis programs at four-year institutions and should work closely with faculty advisors at Pierce and at the transfer institution to plan an overall program of study that meets individual program needs as well as personal interests.

■ ENGLISH TRANSFER

The following courses are recommended in addition to those required for the AA-DTA degree. These courses are not intended to describe the requirements for English majors, but are offered as recommendations as schedules allow.

LITERATURE EMPHASIS

ANTH& 100	Survey of Anthropology	5
ART 105	Intro to Art	5
ENGL 204	The Bible as Literature	5
ENGL 205	Intro to Mythology	5
ENGL 210	Intro to American Literature	5
ENGL& 220	Intro to Shakespeare	5
ENGL& 226	British Literature I	5
ENGL& 227	British Literature II	5
ENGL& 228	British Literature III	5
ENGL 239	World Literature	5
ENGL& 244	American Literature I	5
ENGL& 245	American Literature II	5
ENGL& 246	American Literature III	5
ENGL 264	Literature of U.S. Slavery and Abolition	5
ENGL 265	American Literature: Humor and Satire	5
ENGL 266	Women Writers: International Mosaic	5
HIST& 126	World Civilizations I	5
HUM& 116	Humanities I	5
HUM& 117	Humanities II	5
HUM& 118	Humanities III	5
MUSC& 105	Music Appreciation	5
PHIL& 101	Intro to Philosophy	5

COMPOSITION EMPHASIS

ART 105	Intro to Art	5
DRMA& 101	Intro to Theatre	5
ENGL 103	Composition – Argumentation and Research	5
ENGL& 111	Intro to Literature	5
ENGL& 235	Technical Writing	5
ENGL& 236	Creative Writing I	5
ENGL& 237	Creative Writing II	5
ENGL& 238	Creative Writing III	5
ENGL 249	Creative Writing: Special Projects	5
HUM& 116	Humanities I	5
MUSC& 105	Music Appreciation	5
PHIL& 101	Intro to Philosophy	5
PSYC& 100	General Psychology	5

■ PIERCE COLLEGE ENDORSEMENT FOR WRITTEN COMMUNICATION

Students may earn an endorsement for written communication by completing a total of 23 credits in composition studies. The endorsement is awarded upon completion of a final capstone course, in which students generate a portfolio, showcasing what they believe is their best college writing. If interested, contact Duncan McClinton (253) 840-8373, English coordinator.

STEP 1

Core Courses: 10 credits - must be completed with a 2.0 or better

ENGL& 101 English Composition I

and - select one of the following composition studies

ENGL 103	Composition – Argumentation and Research
ENGL 107	Writing About Literature
ENGL 235	Technical Writing

STEP 2

Elective courses: 10 credits (courses must be completed with a 2.0 or better). Complete an additional 10 credits (two classes) from the remaining composition courses (courses may not be repeated for credits)

ENGL 103	Composition – Argumentation and Research
ENGL 107	Writing About Literature
ENGL 235	Technical Writing

STEP 3

Required Capstone Course: 3 credits (completion with a minimum 3.0)

ENGL 256 Portfolio Writing

■ ENGLISH LAB

Faculty: Curt Warmington (FS); Jeff Pisetzner (PY)

Offers English classes that provide both quality classroom instruction and increased one-on-one attention to the writing process. Three kinds of classes are offered:

DEVELOPMENTAL WRITING

These prepare students for college-level writing. Testing scores are used to place students in these classes.

ENGL 096	Grammar, Punctuation and Spelling
ENGL 097	Paragraph Composition
ENGL 098	Basic Writing Skills
ENGL 099	Introduction to Composition

COLLEGE-LEVEL WRITING

These are required by many college programs and degrees. They are taught with the same outcomes used in lecture classes.

ENGL& 101	English Composition I
ENGL 103	Composition – Argumentation and Research

SKILLS CLASSES

These are designed to help students with specific writing problems.

ENGL 090	Spelling
ENGL 091	Vocabulary
ENGL 093	Grammar Usage
ENGL 094	Sentence Combining
ENGL 095	Paragraph Development
ENGL 104	College Vocabulary

English as a Second Language

See International Education for ESL classes for International students (on non-immigrant visas) or Adult Basic Education.

Environmental Science

Faculty: Megan Hess, Beth Norman, Robert Sager, Ted Wood (FS)
Tom Bush (PY)

Degrees: Associate of Arts (AA-DTA)
Associate of Science (AS-T)

Career opportunities in environmental science include teaching, research, and technical support. Employment may be found in federal, state, and local government organizations, such as the Environmental Protection Agency, in industries required to monitor their effluent, and in research settings.

Pierce College offers classes for science students pursuing a degree in environmental science and to students who are fulfilling their natural science distribution requirements. The courses that are recommended depend largely on the type of work the student desires. Therefore, it is highly recommended that the student consult with his or her advisor. Courses directly related to the study of the environment are:

ATMOS 101	Introduction to Weather	5
ENVS& 100	Survey of Environmental Science	5
ENVS 140	Western Water Problems	5
ENVS 150	Environmental Issues	5
GEOL& 110	Environmental Geology	5
GEOL 220	Earth Resources and the Environment	5
NSCI 150	Nature	5
NSCI 160	Environmental Biology	5

Fire Command and Administration

PROFESSIONAL/TECHNICAL

Faculty: Pam Caldwell

Degree: Associate in Fire Command and Administration

The Fire Command and Administration degree was developed as a collaborative program between Pierce College and Bates Technical College. The degree is a two-year associate degree. Courses are shared between the two colleges and are offered exclusively online. This program requires students to be currently working or have previous experience in fire service.

The Fire Command and Administration associate degree is designed for students to fulfill some of the undergraduate general education requirements of most four-year fire degree programs and is also recommended for students who have not yet decided upon the field they will enter, or the four-year institution they will attend.

This program is designed to respond to the high-demand for trained fire service professionals. Successful students may utilize experience and knowledge gained through course study to advance to senior leadership positions leading to chief executive management positions, as well as to fulfill discipline-specific certification requirements for the International Fire Service Accreditation Congress (IFSAC).

Students must earn a minimum of a 2.0 in each FCA course to complete the Fire Command and Administration degree.

Professional/technical program competencies can be found on the Pierce College website at www.pierce.ctc.edu/proftech/.

■ ASSOCIATE IN FIRE COMMAND AND ADMINISTRATION

GENERAL EDUCATION REQUIREMENTS (25 CREDITS)

BUS 107	Business Math	5
CMST& 101	Intro to Communication	5
ENGL& 101	English Composition I	5
PS 101	Intro to Physical Science	5
PSYC& 100	General Psychology	5

TECHNICAL CORE REQUIREMENTS (51 CREDITS)

FCA 120	Basic Fire Investigation	3
FCA 132	Technical Writing for Fire Services	3
FCA 155	Fire Instructor I	3
FCA 157	Public Information Officer	2
FCA 160	Tactics I	2
FCA 180	Fire Administration	3
FCA 195	Fire Officer I	4
FCA 259	Legal Aspects of Fire Service	3
FCA 260	Basic ICS/NIMS	2
FCA 261	Hazard. Material On-Scene Incident Commander	2
FCA 262	Disaster and Fire Defense Planning	4
FCA 265	Fire Officer II	4
FCA 272	Negotiation	3
FCA 274	Occupational Safety and Health for Fire Service	4
FCA 280	Advanced Fire Administration	4
HSEM 160	Emergency Response Awareness to Terrorism	5

ELECTIVES (14 CREDITS)

FCA 137	Intro to System Design	5
FCA 152	Building Construction	2
FCA 170	Hazardous Materials Awareness	1
FCA 175	Fire Safety Officer	2
FCA 177	Wildland Urban Interface	3
FCA 205	Testing H20 Systems	3
FCA 255	Fire Instructor II	3
FCA 270	Hazardous Materials Operations	2
FCA 285	Fire and Life Safety Educator	3
FCA 295	Fire Officer III	4
HSCI 278	EMT	8
	Total Credits Required	**90**

GED Preparation — *See Adult Basic Education.*

Geography

Faculty: Tom Broxson, Chris Vanneson (PY)

Degree: Associate of Arts (AA-DTA)

Geography is an integrating and synthesizing discipline. It is a bridge uniting the social and physical sciences, focusing on the patterns of distribution.

The Geography department offers courses which introduce students to the physical and cultural systems of the environment. These courses are basic for those who are planning to major in geography, elementary and secondary education, regional and urban planning, environmental studies, government, international trade, business, transportation, law, and many other areas. Geography is a useful area of study for those who are interested in regional analysis, market analysis, resource analysis, regional development, urban growth, economic growth, and cartographic skills, as well as Geographic Information Systems.

There are no prerequisites for geography classes at Pierce College. Course options include:

GEOG 100	Intro to Geography
GEOG 150	Europe, The Americans, Australia/New Zealand
GEOG 160	Africa, Middle East and Asia
GEOG 200	Human Geography
GEOG 205	Intro to the Physical Environment
GEOG 207	Economic Geography
GEOG 210	Physical Geography – Lab

Geology

Faculty: Beth Norman, Robert Sager (FS); Tom Bush (PY)

Degrees: Associate of Arts (AA-DTA)
Associate of Science (AS-T)

Geology, the science of the Earth, is an organized body of knowledge about the world on which we live and its relationship to the rest of the universe. It is the study of the history of life; about the interaction of the mountains, plains, atmosphere, and ocean; and about the succession of physical events that accompanies the orderly development of life.

Courses in geology (101-299) include field trips and laboratory study of minerals, rocks, fossils, and maps. Courses qualify to help meet the science requirement of an associate degree and/or transfer to four-year institutions. Pierce College offers geology with a general emphasis.

Students planning to transfer should complete AS-T or AA-DTA degree requirements and must check with the transfer institution regarding specific course needs and transferable credits.

■ GEOLOGY MAJOR — GENERAL EMPHASIS

The following courses should be taken, in addition to courses required for the AA-DTA degree:

CHEM& 161-163	General Chemistry w/Lab I-III	5 ea
GEOL& 101	Intro to Physical Geology	5
GEOL& 103	Historical Geology	5
GEOL& 110	Environmental Geology	5
GEOL 220	Earth Resources and the Environment	5
MATH& 141	Precalculus I	5
MATH& 151-153	Calculus I-III	5 ea
PHYS& 221-123	Engineering Physics I-III	6 ea

Health Education/Wellness

See also Diagnostic Health and Fitness Technician/Instructor Certificate.

Faculty: Steve Crain, Lisa Murray (FS)
Degree: Associate of Arts (AA-DTA)

Health Education/Wellness is the study of the ongoing development of the mind, body, and spirit to enhance and balance the whole person so as to improve health, fitness, and quality of life. It includes topics such as adequate fitness, nutrition, stress management, disease prevention, spirituality, smoking cessation, substance abuse, and weight control.

Pierce College offers a variety of courses in health science and physical education designed to improve the quality of one's life as well as provide a program of study that will assist students' programs in wellness available nationally. The following sequence of courses will assist in meeting the requirements of most four-year institutions.

■ HEALTH EDUCATION/WELLNESS TRANSFER

BIOL& 241	Human Anatomy and Physiology 1	6
BIOL& 242	Human Anatomy and Physiology 2	6
ENGL& 101	English Composition I	5
HSCI 200	Human Stress — Its Nature and Control	5
HSCI 210	Wellness	5

ADDITIONAL RECOMMENDED COURSES

BIOL& 160	General Biology w/Lab	5
BIOL& 211	Majors: Cellular	5
CHEM& 100	Preparatory Chemistry	5
CMST& 101	Intro to Communication	5
HSCI 119	Human Health and Disease	5
NUTR& 101	Nutrition	5
PE 104-259	Physical Education Activity	2-3
HSCI 228	First Aid and CPR for Health Care Professionals	2
PSYC& 100	General Psychology	5
SOC& 101	Intro to Sociology	5

Health Professions

PROFESSIONAL/TECHNICAL

Also see Dental Hygiene, Diagnostic Health and Fitness Technician/Instructor (Personal Trainer), Nursing, and Veterinary Technology.

Faculty: Mary Bath-Balogh, Steven Crain, Robert Johnson, Ron May, Lisa Murray (FS)
Dr. Dale Blum, Joseph Cates-Carney, Dr. Scott Sweet (PY)
Degrees: Associate of Arts (AA-DTA)
Associate of Science (AS-T) — Track 1

Coursework for health professions can be incorporated within a variety of transfer degree options. These options include, but are not limited to: medical technology, physician's assistant, occupational therapy, physical therapy, or pre-professional degrees for medicine, dentistry, chiropractic, pharmacy, naturopathy, osteopathy, or veterinary medicine.

Students considering a health career program need to be aware that licensure and hiring may be affected if the graduate has engaged in substance abuse and/or child abuse behaviors, or has been convicted of a gross misdemeanor or felony.

Students planning to transfer should complete AS-T or AA-DTA requirements and MUST check with the transfer institution to clarify specific requirements and transferable credits.

■ EMERGENCY MEDICAL TECHNICIAN

Pierce College offers pre-certification for Emergency Medical Technician Basic; this is an eight credit course (HSCI 278) offered at Joint Base Lewis-McChord. This course is required for any person seeking to become a certified Emergency Medical Technician - Basic (EMT-B). This course has been developed for individuals who desire to perform emergency medical care. Successful completion of the course will allow the student to be considered eligible to take the National Certifying Exam.

Applicants must have current CPR cerficiation as either American Heart Association Health Care Provider or Red Cross Professional Rescuer. For more information, call (253) 967-2449.

A CPR course is available prior to the start of the EMT-Basic for those students who do no have the current certification.

■ OCCUPATIONAL THERAPY (PRE-)

In Washington, the University of Washington, Eastern Washington University, and the University of Puget Sound offer a Master's in Occupational Therapy (MOT). It is critical to coordinate with the transfer institution regarding its specific general degree requirements. Acceptance is very competitive (the average GPA of students accepted is 3.5+), but admission is also based on character, personality, maturity, and recommendations from work or volunteer experience in an occupational therapy practice setting (minimum 40 hours experience). Applicants must have basic computer literacy. Most schools also require taking the GRE (Graduate Record Exam). The universities require completion of a bachelor's degree prior to acceptance and coursework must include the following (taken within five years):

	BIOL& 241	Human Anatomy and Physiology I	6
	BIOL& 242	Human Anatomy and Physiology II	6
	CHEM& 161	General Chemistry w/Lab I	
	MATH& 146	Intro to Statistics (required)	5
*	PHYS& 121	General Physics I	5
	PSYC& 100	General Psychology	
	PSYC& 200	Lifespan Psychology	5
	PSYC& 220	Abnormal Psychology	
*	SOC& 101	Intro to Sociology	5
	or		
	ANTH& 206	Cultural Anthropology	5

**NOTE: These courses are required only by the program at UW; physics and chemistry both have math prerequisites. UPS also requires additional behavioral science coursework — listed in UPS Transfer Guide. Check course descriptions for prerequisites.*

■ PHYSICAL THERAPY (PRE-)

In Washington, the University of Washington, University of Puget Sound, and Eastern Washington University offer a Doctor of Physical Therapy (DPT). Acceptance is very competitive and is dependent not only on a high GPA (usually 3.5+), but also on essays describing broad volunteer and/or paid physical therapy-related work experience (usually between 200-500 hours) in a variety of physical therapy service delivery environments. A completed AA-DTA or AS – Track 1 degree is recommended before transferring to a university. Some programs combine the senior year with the first year of the Doctor of Physical Therapy (DPT). When planning courses, check with the transfer institution to clarify exact requirements. Most programs also require taking the Graduate Record Exam (GRE).

The following prerequisites are common to the programs in Washington. Out-of-state programs may differ slightly. All programs require completion of a bachelor's degree prior to acceptance and science coursework should not be more than five years old.

BIOL& 241	Human Anatomy and Physiology 1	6
BIOL& 242	Human Anatomy and Physiology 2	6
BIOL& 260	Microbiology	5
CHEM& 161	General Chemistry w/Lab I	5

CHEM& 162	General Chemistry w/Lab II	5
*† CHEM& 163	General Chemistry w/Lab III	5
CMST& 220	Public Speaking	5
MATH& 141	Precalculus I	5
MATH& 142	Precalculus II	5
MATH& 146	Intro to Statistics	5
PHYS& 121	General Physics I	5
PHYS& 122	General Physics II	5
*† PHYS& 123	General Physics III	5
PSYC& 100	General Psychology	5
† PSYC& 220	Abnormal Psychology	5

*NOTE: Courses marked with * are required by UPS; those marked with † are required for EWU. Most suggested courses have prerequisites that must be included in academic planning.*

■ PRE-PROFESSIONAL

(Chiropractic, Dentistry, Medical, Medical Technology, Naturopathy, Osteopathy, Pharmacy, Physician's Assistant/MEDEX, Veterinary Medicine)

CHIROPRACTIC (PRE-)

Although most applicants have completed a four-year degree, outstanding students are eligible to apply after three years of coursework. The closest schools of chiropractic are located in Oregon and California. Like all professional schools, admission is grade competitive. Suggested coursework is outlined under the Associate of Science – Track 1. All courses have prerequisites that must be included in academic planning.

DENTISTRY (PRE-), MEDICINE (PRE-), NATUROPATHY (PRE-), OSTEOPATHY (PRE-), VETERINARY MEDICINE (PRE-)

The majority of applicants have bachelor's degrees; this is NOT an actual major. Professional schools are looking for a broad liberal arts background. Students are advised to get current information from their school of choice early in the program and gain as much exposure to the profession as possible by working or volunteering. The Associate of Science – Track 1 outlines the courses generally required; however, an AA-DTA can also be tailored to include part of the required sciences. Check with a science advisor for exceptions or additions suggested by specific professional schools.

MEDICAL TECHNOLOGY (PRE-)

University of Washington and Central Washington University offer Bachelor of Science in Medical Technology (BSMT) degrees and have affiliated clinical internship sites. Students are advised to check to see if their chosen college requires taking the AHPAT (Allied Health Professions Admission Test) prior to applying. Students can transfer to either of these institutions with an AA-DTA, but should try to include as many of the following courses as possible. All courses have prerequisites that must be included in academic planning.

BIOL& 160	General Biology w/Lab
BIOL& 211-213	Majors: Cellular/Animal/Plant
BIOL& 260	Microbiology
CHEM& 139	General Chemistry Prep
CHEM& 161-163	General Chemistry w/Lab I-III
CHEM& 261-263	Organic Chemistry w/Lab I-III
MATH& 146	Intro to Statistics
MATH& 151	Calculus I OR
PHYS& 121	General Physics I (suggested)

PHARMACY (PRE-)

Schools of pharmacy are located at the University of Washington and Washington State University (must also include WSU General Education Requirements). Both are five-year Pharmacy Doctoral (Pharm.D.) programs. Check schools of pharmacy for application criteria and deadlines. Admissions are made on the basis of GPA and PCAT scores. Coursework to be completed should include:

BIOL& 211-213	Majors: Cellular/Animal/Plant
BIOL& 260	Microbiology
CHEM& 161-163	General Chemistry w/Lab I-III
CHEM& 261-263	Organic Chemistry w/Lab I-III
MATH& 146	Intro to Statistics
MATH& 148	Business Calculus
or	
MATH& 151	Calculus I
ENGL& 101	English Composition I
ENGL 107	Composition — Writing About Literature
Humanities Electives (10 credits)	
Social Science Electives (10 credits)	

Note: Most suggested courses have prerequisites that must be included in academic planning.

PHYSICIAN'S ASSISTANT/MEDEX (PRE-)

The only Physician's Assistant program currently available in Washington is the MEDEX program offered through the University of Washington's School of Medicine in Seattle. This is a two-year certificate-granting program (eight quarters) with an optional degree available (Bachelor of Clinical Health Services). Admission is VERY competitive since many applicants already hold degrees and have many years of experience in the health field. Minimal admission requirements are:

- Two years recent paid full-time hands-on experience in direct delivery of medical care to patients (approximately 4,000 hours) as a nurse, corpsman, or paramedic, or current professional credentials (i.e., medical technician, x-ray, pharmacy, etc.), and at least two years recent full-time experience in an allied health field*
- Two college-level English courses
- One college-level science course in chemistry, biology or microbiology
- Two college-level anatomy and physiology courses
- Minimum 2.7 GPA, but high grades and documentation of community service is encouraged

**Clinical experience during a training program does not apply.*

High School Completion

See Adult Basic Education.

History

Faculty: John Simpson (FS); Dr. John Lucas, Chris Vanneson (PY)

Degree: Associate of Arts (AA-DTA)

History is the study of the human experience. It is a holistic discipline involving political, economic, military, social, intellectual, philosophical, geographical, and cultural aspects of the development of humankind.

After developing a broad background in history, the student may specialize in regional (Western, Asian, Middle Eastern, etc.) or topical (political, social, economic, etc.) subjects. In general, the broad nature of historical studies allows the community college student to take all history classes on the community college level without history prerequisites.

A variety of courses is designed to meet the requirements of both the history major and the student who needs or desires either a social science or humanities elective. Students planning to major in history at a four-year college should consult with the senior institution to determine which courses should be taken while attending Pierce College.

■ HISTORY MAJOR

The following courses should be taken, in addition to courses required for the AA-DTA degree:

HIST& 126-128	World Civilizations I-III	5ea
HIST& 156	History of United States I	5
HIST& 157	History of United States II	5
HIST& 158	History of United States III	5

More specialized history courses, without prerequisites, include:

HIST& 159	History of United States IV	5
HIST 168	The Vietnam War as History	5
HIST 230	Concise History of Science and Technology	5
HIST 260	History of Russian and the Soviet Union	5
HIST& 214	Pacific Northwest History	5
HIST 270	Intro to the Far East	5
HIST 272	Survey of Middle East History	5
HIST 277	The Cold War	5
HIST 280	Intro to Chinese Civilization	5
HIST 284	Intro to the Balkans	5

The student who plans to transfer is encouraged to develop a broad base of historical study and sample areas of special interest before moving on to more advanced topics at a four-year institution. In addition to the above classes, more specialized courses (e.g., Pacific Northwest History) are available at Pierce.

Homeland Security

PROFESSIONAL/TECHNICAL

Contact: Linda Crerar (FS)
Degree: Associate in Technology Homeland Security Management
Associate of Arts (AA-DTA)

The Homeland Security Emergency Management (HSEM) associate degree program is designed to prepare the next generation of emergency management and policy leaders with the knowledge and skills they need to improve outcomes in disasters of all types. The 96-credit online program incorporates instruction in policy as well as planning and operational components of emergency management and homeland security, including opportunities to gain practical experience and work with current incident management technologies. The curriculum provides policy foundations and advances students through core competencies in hazard identification; risk and vulnerability assessment; planning; terrorism; mitigation, preparedness, response and recovery; and planning for diverse populations. The Associate in Technology-Homeland Security Emergency Management (HSEM) degree prepares students with the competencies to work in an all-hazards preparedness environment, including an understanding of socioeconomic and cultural diversity issues.

Professional/technical program competencies can be found on the Pierce College website at www.pierce.ctc.edu/proftech/.

■ ASSOCIATE IN TECHNOLOGY HOMELAND SECURITY EMERGENCY MANAGEMENT

Students must earn a minimum of a 2.0 in each course to earn this degree.

GENERAL EDUCATION REQUIREMENTS (40 CREDITS)

COMMUNICATIONS (10 CREDITS)

ENGL& 101	English Composition I	5
ENGL& 235	Technical Writing	5

QUANTITATIVE/SYMBOLIC REASONING SKILLS (5 CREDITS)

MATH& 146	Intro to Statistics	5

SOCIAL SCIENCES (10 CREDITS)
Select two:

HIST& 158	History of United States III	5
POLS& 101	Intro to Political Science	5
PSYC& 100	General Psychology	5

HUMANITIES (5 CREDITS)
Select one:

CMST& 101	Introduction to Communication	5
CMST& 102	Intro to Mass Media	5
CMST& 220	Public Speaking	5

NATURAL SCIENCES (10 CREDITS)
Select two:

ATMOS 101	Intro to Weather	5
ENVS& 100	Survey of Environmental Science	5
ENVS 150	Environmental Issues	5
GEOG 210	Physical Geography	5
GEOL& 110	Environmental Geology	5

HSEM CORE REQUIREMENTS (41 CREDITS)

HSEM 102	Intro to Homeland Security Emergency Mngt*	5
HSEM 120	All Hazards Emergency Planning*	2
HSEM 130	Technology in Emergency Management*	3
HSEM 157	Public Information Officer*	2
HSEM 160	Emergency Response Awareness to Terrorism*	5
HSEM 180	Public Administration*	3
HSEM 200	Emergency Operations Center	2
HSEM 210	Exercise Design and Evaluation	3
HSEM 220	Developing and Managing Volunteer Resources	2
HSEM 230	Disaster Response and Recovery	2
HSEM 240	HSEM Work-Based Learning	5
HSEM 250	Homeland Security Law and Ethics	3
OSH 190	Industrial Security*	3

HSEM ELECTIVES (15 CREDITS)

HSEM 110	Basic ICS/NIMS*	2
HSEM 190	Special Topics in HSEM	1-5
CJ 112	Criminal Justice in America	5
CJ 120	Constitutional Rights	5
CJ 140	Corrections in America	5
CJ 150	Policing in Amercia	2
CJ 226	Response to Terrorism	5
FCA 170	Haz-Mat Awaremenss	1
FCA 175	Fire Safety Officer	2
FCA 270	Haz-Mat Operations	2
FCA 261	Haz-Mat On-Scene Incident Commander	2
FCA 262	Disaster and Fire Defense Planning	4
FCA 274	Occupational Safety and Health for Fire Service	4
OSH 100	Introduction to Occupational Safety and Health	5
OSH 110	Safety Management	5
OSH 240	Handling Hazardous Materials	4

** Indicates HSEM certificate (26 credits)*

Total Credits Required 96

Note: Students should be aware that certain criminal behavior and having a criminal record may prohibit their employment opportunities in many Homeland Security and emergency management occupations. Students are encouraged to research these situations and consult with the HSEM program advsor.

■ HOMELAND SECURITY EMERGENCY MANAGEMENT CERTIFICATE

Students must earn a minimum of a 2.0 in each course to earn this degree.

The Homeland Security Emergency Management certificate is offered at Pierce College through online course work. The certificate is designed to prepare the next generation of emergency management and policy leaders with the knowledge and skills they need to improve outcomes in disasters of all types. The program addresses competencies required of emergency management professionals in careers in federal, state or local government. Students explore the complex world of emergency and disaster management issues and learn the critical thinking and decision-making skills necessary to support and supervise comprehensive, integrated, and effective management in the event of natural, system-wide, or human-induced crises.

COURSE REQUIREMENTS (25 CREDITS)

HSEM 102	Intro to Homeland Security Emergency Mngt	5
HSEM 110	Basic ICS/NIMS	2
HSEM 120	All Hazards Emergency Planning	2
HSEM 130	Technology in Emergency Management	3
HSEM 157	Public Information Officer	2
HSEM 160	Emergency Response Awareness to Terrorism	5
HSEM 180	Public Administration	3
OSH 190	Industrial Security	3

Total Credits Required 25

Humanities

Faculty: Denise Hartley (FS); Duncan McClinton (PY)

The Humanities department offers a diverse curriculum of courses investigating the arts, thought and culture, and the relationship of the humanities with other disciplines. A sequence of three classes traces the history of humanities I-III, while Ethnic Thought and Culture, Black Thought and Culture, Latin American Thought and Culture, and humanities courses explore specialized areas. Introduction to Folklore, American Popular Culture, American Cinema and Society, and World Religions complete the rich cultural course offerings.

Information Studies

Faculty: Sarah Frye, Laurie Shuster, Emily Wood (FS);
Frank Brasile, Christie Flynn, Kathy Swart, Beth Thoms (PY)

The Information Studies department offers courses designed to help students understand the nature of information, as well as how individuals gather, engage, and interact with it. Courses focus on research skills to meet the academic needs of community college students, those intending to transfer to a university, as well as for professional, lifelong learning or personal needs. Courses show students how to access, evaluate and use information and information systems and technologies, and to consider the impact of information in contemporary society through the examination of information issues and information-seeking behavior.

Integrated Basic Skills (I-BEST) *— See Adult Basic Education.*

International Education

■ INTENSIVE ENGLISH (ESL) PROGRAM

Contact: Mishelle Pasinato, Manager, Intensive English (ESL) Program

Courses in the Intensive English Program (IEP) focus on academic English and are designed to help international students acquire the English language skills necessary to enter and succeed in college-level classes and programs. (Pierce College English proficiency requirements are discussed in the Getting Started section of this catalog.)

International students enrolled in the IEP attend classes for 20 hours per week per quarter (10 weeks). IEP classes are taught at four levels of English proficiency: beginning, intermediate, high intermediate, and advanced. All language skill areas are addressed: grammar, reading, writing, listening, and speaking, with lessons on conversation skills and pronunciation included.

All IEP courses are non-credit and non-transferable, and will not be counted towards associate degree graduation requirements.

International students who complete a portion of their IEP classes may be able to register for credit-bearing academic classes in addition to their remaining IEP classes. The academic classes will be chosen with the help of an advisor. Students who are taking a mixture of IEP and academic courses will need to be in class for at least 15 hours per week.

The following courses are offered each quarter:

IE 10/20/30/40 Intensive English Reading 1-4
IE 11/21/31/41 Intensive English Writing 1-4
IE 12/22/32/42 Intensive English Grammar 1-4
IE 13/23/33/43 Intensive English Listening and Speaking 1-4

Student Learning Outcomes available at www.pierce.ctc.edu/international/iep-outcomes.

Journalism

Faculty: Michael Parks (FS)

Degree: Associate of Arts (AA-DTA)

The Journalism program is designed to prepare students for transfer as majors in various areas of communication. Pierce's basic courses in journalistic writing and mass media provide a good background for those pursuing communication careers in print journalism, broadcast journalism, advertising, and public relations. The student newspaper gives interested students the opportunity to gain practical experience in nearly all phases of producing a newspaper, using desktop publishing techniques that include computer formatting and digital imaging.

Students planning to transfer as communication or journalism majors should complete AA-DTA degree requirements and must check with transfer institutions regarding specific requirements and transferable credits. Students are strongly urged to work closely with faculty advisors to plan an overall program of study that best meets their transfer needs and career goals.

■ JOURNALISM/COMMUNICATIONS MAJOR

Communication, and especially journalism majors, should choose classes that provide a well-rounded exposure to the basic systems, issues, and concerns of American society; to the basic nature of people; and to the expanding global marketplace. The courses recommended below help provide that exposure while meeting basic AA-DTA degree requirements. Students also are encouraged to pursue courses in anthropology, geography, and environmental issues.

CMST& 102	Intro to Mass Media	5
CMST& 220	Public Speaking	5
ECON& 201	Micro Economics	5
ENGL 103	Composition — Argumentation and Research	5
HIST& 159	History of United States IV	5
HUM& 118	Humanities III	5
JOURN 102	Intro to Newswriting	5
JOURN 103	Intro to Feature Writing	1-5
JOURN 110	Publications Design	5
JOURN 111	College Newspaper: Reporting and Editing	3
JOURN 112	College Newspaper Photojournalism	3
JOURN 125	The Documentary: A Social Force	5
JOURN 210	Photojournalism	5
MNGT 275	Intro to Visual Promotion	5
PHIL& 101	Intro to Philosophy	5
POLS& 202	American Government	5
PSYC& 100	General Psychology	5
SOC& 101	Intro to Sociology	5

Language Interpreter

PROFESSIONAL/TECHNICAL

Faculty: Dr. Thérèse Mirande (FS)

Certificate: Medical Interpreting

Professional/technical program competencies can be found on the Pierce College website at www.pierce.ctc.edu/proftech/.

CERTIFICATE IN MEDICAL INTERPRETING

COURSE REQUIREMENTS (16 CREDITS)

INTP 101	Introduction to Language Interpreting	5
INTP 105	Ethics of Interpreting	3
INTP 110	Foundations of Interpreting Skills	5
Select one computer skills option (3 credits total)		
BTECH 111	Keyboarding	3
or		
BTECH 115A	Business Keyboarding	1
BTECH 116A-B	Business Keyboarding	2
or		
BTECH 200A-B	Microsoft Word	2
BTECH 210A	Microsoft Excel	1

MEDICAL INTERPRETING REQUIREMENTS (21 CREDITS)

BTECH 150	Medical Terminology I	5
BTECH 151	Medical Terminology II	5
INTP 202	Medical Interpreting Skills	4
MNGT 284	Small Business Planning	5
INTP 297M	Practicum	1
INTP 298	Seminar	1
	Total Credits Required	**37**

Mathematics

Faculty: Sharon Camner, Pete Kaslik, Rajesh Lal, Randy Leifson, David Lippman, Tom Phelps, Melonie Rasmussen, Chris Willett, Ph.D. (FS)

Deb Falcioni, Phyllis Fikar, Tony Granata, Marlene Ignacio, Tom McCollow, Roya Sabeti, Ph.D., Ken Schroeder, Larry Wiseman (PY)

Degree: Associate of Arts (AA-DTA)

Website: www.pierce.ctc.edu/math

The Mathematics department offers a sequence of introductory courses that build the basic quantitative and symbolic reasoning skills needed in almost all fields of study and professional/technical programs. Pierce College also provides a sequence of college-level math courses for students transferring to four-year colleges or pursuing technical vocational programs. These courses satisfy the math requirements for majors in mathematics and in such disciplines as business, accounting, economics, statistics, actuarial science, math education, engineering, and all of the sciences. These college-level courses include the math needed for the Associate in Science degree from Pierce College.

In many disciplines, people use mathematics to help make sense of phenomena observed in the world by analyzing data, finding patterns, and developing theories. Math also assists in the development of critical thinking and reasoning skills that can be used to solve problems in a variety of applications.

Pierce College offers a full sequence of pre-college mathematics classes to accommodate students entering the college with a variety of math backgrounds. (See below for the sequence of pre-college level courses.) These courses are offered in the Math Lab and as distance learning courses, as well as in self-contained classes.

College-level mathematics courses at Pierce College include the study of contemporary math, elementary math education, finite math, statistics, precalculus, differential and integral calculus, and more advanced courses in multivariate calculus, linear algebra, and differential equations. Each course includes examples of applications taken from many fields of study. Most of these courses require the use of graphing calculators, which may be rented for a nominal fee through the library.

Students completing MATH 095 (Interm. Algebra with Modeling) or MATH 098 (Interm. Algebra) have a wide range of choices to satisfy the quantitative skills requirement for the AA-DTA degree. Options for math classes include: MATH& 107, MATH 114, MATH& 141, MATH 156, MATH 170 and MATH& 146 (see chart below). The appropriate choice depends on a student's major and intended transfer institution. Additional math courses may be required depending on a student's program of study. Each transfer student should carefully plan a program of study with the help of a faculty advisor to ensure that transfer requirements are met.

The Academic Support Center (FS) and Tutoring Center (PY) offer free drop-in math tutoring by students and instructors. The Graphing Calculator Rental program rents TI-73, TI-82, TI-83, and TI-89 calculators for a nominal fee through the library.

MATH COURSE SEQUENCE — GETTING STARTED

Initial placement in the sequence depends on COMPASS placement test scores. The choices and the number of courses a student takes depends on field of study and other factors. See a faculty advisor.

Pre-College Level Sequence:

MATH 042 (Fractions, Decimals and Percents)
↓
MATH 051 (Arithmetic)
↓
MATH 054 (Prealgebra) [Optional; See a faculty advisor]
↓
MATH 060 (Intro to Algebra)
↓
MATH 095 (Intermediate Algebra with Modeling)
or MATH 098 (Intermediate Algebra)

College Level
The courses listed in the first column of the following table satisfy the Quantitative Reasoning Skill (QS) requirement. The prerequisite for all these QS courses can be satisfied by MATH 098 with a grade of 2.0 or higher or placement above MATH 098 on the COMPASS placement test. MATH 095 with a grade of 2.0 or higher will serve as a prerequisite to MATH 107& and MATH& 146. Students unsure of their intended major are urged to take MATH 098 to allow for more options.

College Level Quantitative Skills (QS) Math Course Options

Course	Prerequisite
MATH& 107: Contemporary Mathematics	MATH 095 or MATH 098
MATH 114: Applied Algebra, Geometry, Trig (only available at military sites)	MATH 098
MATH& 141: Precalculus I	MATH 098
MATH 156: Finite Mathematics	MATH 098
MATH& 171: Math for Elem Educ I	MATH 095 or MATH 098
MATH& 146: Intro to Statistics	MATH 095 or MATH 098

Which MATH QS courses required depends upon the student's field of study. See a faculty advisor and/or the math program Website for more information.

Sample Fields of Study Requiring Additional Math Courses

Program	Math courses
Business, Accounting	MATH 156 or MATH& 141; MATH& 148; MATH& 146
Elementary Education	MATH& 171; May require some or all of: MATH& 172, MATH& 173
Math, Engineering, Sciences, Architecture, some computer transfer programs	MATH& 141 May require some or all of: MATH& 142 MATH& 151-153,210, 224, 205, 238,

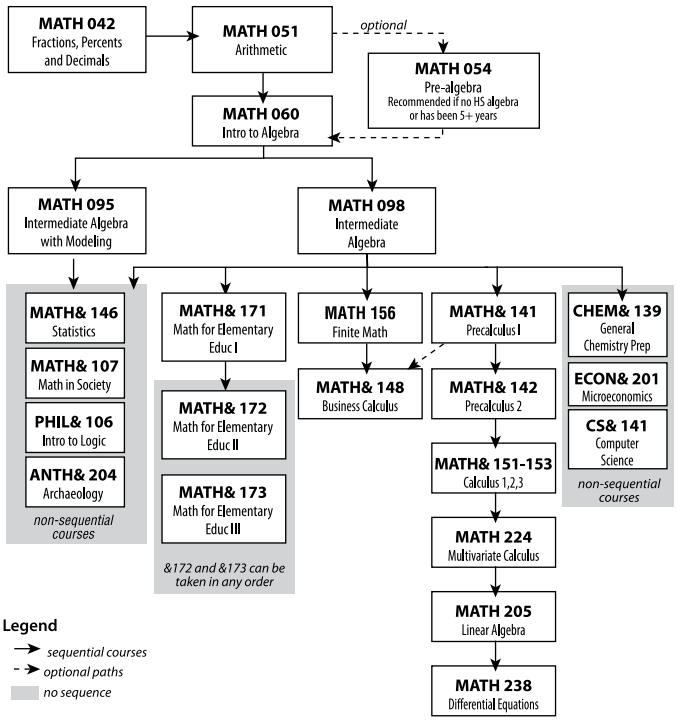
■ MATHEMATICS MAJOR

The following courses should be taken in addition to courses required for the AA-DTA degree:

MATH& 151	Calculus I	5
MATH& 152	Calculus II	5
MATH& 153	Calculus III	5
MATH 205	Linear Algebra	5
MATH 224	Multivariate Calculus	5
MATH 238	Differential Equations	5

Courses in statistics and computer science are highly recommended for math majors. Math majors should also take one of the sequences of science courses such as physics or chemistry. See an advisor for specific recommendations.

Math Course Sequence and QS Options



■ MATH LAB

Faculty: Randy Leifson (FS)

Offered only at Pierce College Fort Steilacoom, the Math Lab provides students individualized instruction in pre-college-level mathematics courses. Using one-on-one instruction, digital lectures, and computer tutors, the Math Lab tries to meet different learning styles. Though most students attend the lab on a fixed schedule, the lab offers flexible schedules when arranged with the Math Lab coordinator. The labs are open during the day and evening, Monday through Friday, and also on Saturdays (if enrollment allows) during the fall, winter, and spring quarters. Summer quarter hours are limited. Additionally, mini-lectures are offered daily for MATH 051, 060, and 098. See class schedule for hours.

For enrollment, call (253) 964-6734.

COURSES OFFERED THROUGH THE MATH LAB:

MATH 042	Fractions, Percents and Decimals
MATH 051	Fundamentals of Arithmetic
MATH 054	Pre-Algebra
MATH 058	Introduction to Algebra I
MATH 059	Introduction to Algebra II
MATH 060	Introduction to Algebra
MATH 098	Intermediate Algebra

Microbiology

Faculty: Barry Putman (FL); Mary Bath-Balogh, Robert Johnson, Ron May (FS)
Dr. Dale Blum, Joseph Cates-Carney, Scott Sweet (PY)
Degree: Associate of Arts (AA-DTA); AA – Option B
Associate of Science (AS-T)

The science of microbiology includes the study of bacteria, fungi, protozoans, and viruses causing disease, as well as beneficial yeasts, antibiotic producing organisms, and cyclic environmental bacteria. Training in microbiology can lead to positions in hospitals, research laboratories, commercial food and beverage enterprises, environmental laboratories, and pharmaceutical institutes.

BIOL& 260 is accepted for transfer to professional programs. Transfer students should complete the curriculum recommended in the Associate of Science-Track I program, which is the recommended curriculum for pre-professional programs (pre-medical, pre-dental, pre-chiropractic, pre-veterinary, microbiology, cell biology, college and high school teaching, etc.), and should check with the transfer institution regarding specific requirements and transfer credits.

■ MICROBIOLOGY MAJOR

The following courses, in addition to those required for the AS-T, AA-DTA or AA – Option B degree, should be completed for transfer to a Microbiology program. All course prerequisites must first be met.

BIOL& 160	General Biology w/Lab	5
BIOL& 211	Major: Cellular	5
BIOL& 212	Major: Zoology	5
BIOL& 213	Major: Botany	5
BIOL& 260	Microbiology	5
CHEM& 161	General Chemistry w/Lab I	5
CHEM& 162	General Chemistry w/Lab II	5
CHEM& 163	General Chemistry w/Lab III	5
CHEM& 261	Organic Chemistry w/Lab I	6
CHEM& 262	Organic Chemistry w/Lab II	6
CHEM& 263	Organic Chemistry w/Lab III	6
MATH& 151	Calculus I (or MATH& 148)	5
PHYS& 221	Engineering Physics I* (or PHYS& 121)	5/6
PHYS& 222	Engineering Physics II* (or PHYS& 122)	5/6
PHYS& 223	Engineering Physics III* (or PHYS& 123)	5/6

**Preferred*

Military Science

The Military Science Program, part of the Army Reserve Officers' Training Corps (ROTC), is one of the best leadership courses in the country.

Army ROTC is an elective program that serves in conjunction with a student's existing degree program. Students receive college credit for ROTC classes and some courses may also be used to meet degree requirements for a college major. ROTC classes teach leadership and management, values and ethics, military skills, and effective communication.

ROTC is, at its essence, an Army officer commission program; however, not all students who take ROTC classes go on to serve in the Army. Pierce encourage anyone interested in the armed forces or a career in the Army to enroll in Basic Courses, which do not have prerequisites or commitments and are designed to teach basic Army fundamentals.

The Basic Course takes place during a student's first two years at Pierce College as an elective. It involves instruction in both the classroom and lab environment, along with the requisite physical training and field training exercises. This instruction teaches basic military skills, the fundamentals of leadership, and starts the groundwork for becoming an Army leader. A military commitment is not required for Army ROTC Basic Courses.

For additional information, contact the Professor of Military Science, ROTC Program, Pacific Lutheran University, Tacoma, WA 98447; (253) 535-8740; http://www.plu.edu/~rotc/.

Music

Faculty: Dr. Jere Knudtsen (FS), Dr. Kenneth Owen (PY)
Degree: Associate of Arts (AA-DTA)

Pierce College makes music accessible to everyone with a wide range of music courses, instruction, and performance opportunities.

Music majors can build their knowledge and performance skills while earning an AA-DTA degree with an emphasis in music at Pierce College. This degree transfers to four-year colleges and universities. Courses are available in: beginning and advanced theory; music appreciation; audio production; and class piano and guitar. Private lessons are also available.

In addition to music courses, Pierce College provides students and community members the opportunity to participate in several performing groups, which give quarterly concerts and sometimes participate in local and regional festivals. Each group offers credit towards an associate's degree. However, participation is not limited to students or music majors; all students and members of the community are invited to perform.

- Concert band (MUSC150/250)
- Jazz band (MUSC157/257)
- Concert choir (MUSC144/244)
- Jazz choir (MUSC145/254)
- Orchestra (MUSC156/256)

Pierce College offers music facilities at both the Lakewood and Puyallup colleges, allowing students access to a wide range of technology and music spaces.

Music scholarships may be available. Scholarships are talent-based and require an audition. Auditions are held throughout the year and may vary depending on departmental needs.

See Degree Outcomes on page 45.

■ AA-DTA DEGREE — MUSIC MAJOR TRANSFER

The following courses should be taken, in addition to courses required for the AA-DTA degree:

MUSC& 141	Music Theory I	5
MUSC& 142	Music Theory II	5
MUSC& 143	Music Theory III	5
MUSC 181	Beginning Class Piano	1.5
MUSC 182	Intermediate Class Piano	1.5
MUSC 183	Advanced Class Piano	1.5
MUSC& 241	Music Theory IV	5
MUSC& 242	Music Theory V	5
MUSC& 243	Music Theory VI	5

RECOMMENDED COURSES

MUSC 140/240	College Choir	2
MUSC 144/244	Concert Choir	2.5
MUSC 145/245	Jazz Choir	2.5
MUSC 150/250	College Band	1
MUSC 154/254	College Orchestra	1
MUSC 157/257	Jazz Band	1-2
MUSC 160-168	Private Instruction	0.5
MUSC 260-268	Private Instruction	0.5

Nursing PROFESSIONAL/TECHNICAL & UNIVERSITY TRANSFER

Faculty: Katherine Hensley, Ilene Johnson, Gwendolyn Darks, Rebecca (Becky) Piper (PY)
Degree: Associate in Nursing
Associate in Pre-Nursing DTA/MRP
Website: www.pierce.ctc.edu/nursing

See Degree Outcomes page 45.

Professional/technical program competencies can be found on the Pierce College website at www.pierce.ctc.edu/proftech/.

Nursing is a rewarding and diverse career that involves caring for people at all ages of the lifespan, and that provides opportunities for practice in a variety of settings, including hospitals, clinics, and long-term care

facilities. Nurses may provide direct care, teach clients how to care for themselves, as well as plan care for groups and individuals. Nurses who continue their education and earn a Bachelor of Science in Nursing (BSN) degree have additional opportunities in community health, home care, care management, and teaching.

THE NURSING PROGRAM

The Pierce College Nursing Program prepares students to become Registered Nurses and provides students with the opportunity to become Certified Nursing Asistants as a part of the coursework. In addition, the program is designed to articulate with local four-year universities that offer a BSN completion program. The curriculum includes a solid base in the natural and social sciences and provides a strong foundation in basic nursing skills, from which students then advance to more complex nursing concepts in the second year.

During the course of the program, students receive experience in medical surgical, maternal-newborn, pediatric, and mental health nursing in acute care, long-term, and community settings such as clinics and schools. Graduates receive an Associate Degree in Nursing, then must pass the NCLEX-RN examination in order to be licensed as Registered Nurses in Washington state. Licensed graduates are qualified to be employed as entry-level nurses in hospitals, long-term care facilities, rehabilitation centers, clinics, health care provider's offices, and home care agencies. They are also able to plan and coordinate patient care.

The program includes classroom courses in nursing, as well as clinical nursing practice in an acute care setting, where students apply theory attained in all previous courses with a focus on the transition to the RN role. Concepts of the Roy Adaptation Model are used to guide developing nursing practice to individuals in the community, in a variety of settings during a preceptorship assignment. At the end of the course, students are expected to take a comprehensive NCLEX-RN predictive examination.

Clinical courses are taught at a variety of health care agencies in the Pierce County area and may occur days, evenings, and Saturdays. All courses are taught by master's prepared nurse educators. The program is approved by the Washington State Nursing Care Quality Assurance Commission.

Selection for the RN pathway is competitive, and the program begins annually each winter quarter. Students who are selected begin a six-quarter program leading to an associate degree in nursing. The program seeks students who are committed to the profession of nursing. Before applying to Pierce's program, applicants should explore all facets of nursing care, which may include but not be limited to infection control, practice settings, and the law as it pertains to nursing.

REQUIREMENTS FOR ADMISSION

Applicants must meet general entrance requirements for Pierce College as well as the specific pre-nursing course requirements. Prerequisite courses may take at least one year of study and possibly longer if additional coursework must be completed prior to taking the prerequisite courses. Check with the college early to plan a specific course of study.

The application deadline for admission to the Nursing Program is set annually. Check the Nursing program website for up-to-date information at www.pierce.ctc.edu/nursing. No waiting list is established. The Admission Committee selects students in October and successful candidates are then notified. Evaluation is based on each prerequisite science course and ENGL& 101 being completed with a 3.0 or higher, other college prerequisite courses completed with a 2.0 or higher, designated tests, a personal statement, two recommendations, and observation, volunteer, or work experience in a nursing care setting. There are additional courses recommended for students planning to continue their education to earn a Bachelor of Science in Nursing. It is recommended that the applicant make an appointment with an advisor to make sure the planned course of study meets the program's admission requirements. The pre-nursing advisor's number is (253) 840-8355.

Nursing students will have additional college expenses, including uniforms, supplies, and pre-licensure testing. Application packets and additional information are available online at www.pierce.ctc.edu/nursing or by contacting the nursing program office at (253) 864-3272.

TRANSFERABILITY

Graduates of the Pierce College Nursing Program who successfully pass the NCLEX examination for RN licensure may apply to the University of Washington-Tacoma to earn a bachelor of science in nursing degree. An articulation agreement is in place and students who plan to transfer should work closely with their Pierce College advisor to make sure that all requirements are met.

The pre-nursing course requirements apply to other allied health fields or to an associate degree for transfer to a four-year institution should a student change fields or not be accepted into the nursing program.

■ ASSOCIATE IN NURSING (ADN) (PY ONLY)

PREREQUISITES

Minimum qualifications

The following must be completed with a grade of 3.0 (B) or higher and completed within the last 10 years of application:

BIOL& 241	Human Anatomy and Physiology 1	6
BIOL& 242	Human Anatomy and Physiology 2	6
BIOL& 260	Microbiology	5
CHEM& 121	Introduction to Chemistry	5
ENGL& 101	English Composition I	5

Transfer-Ready Requirements

Must be completed with a grade of 2.0 (C) or higher:

MATH& 146	Introduction to Statistics	5
* World Language		10

**or two years high school foreign language or native speaker (check with pre-nursing advisor)*

Recommended Coursework

Must be completed with a grade of 2.0 (C) or higher:

CHEM& 131	Intro to Organic and Biochemistry	6
HSCI 111	Nursing Assistant Training	5
PSYC& 200	Lifespan Psychology	5

Note: All courses have prerequisites that cannot be waived. Please work closely with an advisor.

FIRST YEAR (37 CREDITS)

Quarter 1 (10 credits)

HSCI 116	Pharmacology for Allied Health	4
NURS 111	Fundamentals of Nursing Practice	3
NURS 112	Fundamentals of Nursing Clinical Practice	3

Quarter 2 (12 credits)

NURS 121	Intro to Medical-Surgical/Psychiatric Nursing	4
NURS 122	Intro to Nursing Clinical Practice	5
NURS 125	Family Nursing	3

Quarter 3 (12 credits)

NURS 130	Intermediate Medical-Surgical/Psychiatric Nursing	6
NURS 132	Intermediate Nursing Clinical Practice	6
	Total First Year ADN program credits	34

Or unencumbered Washington State LPN License 36 credits
Or completed first year from accredited, comparable ADN program

SECOND YEAR (49 CREDITS)/BRIDGE PROGRAM (45 CREDITS)

Quarter 4 (18 credits)

NURS 210	Advanced Topics in Nursing I	4
NURS 211	Advanced Nursing Clinical Practice	6
NURS 214	Adv. Concepts in Family Centered Nursing Care	3
NURS 217	Practical Nursing Preparation Seminar	1
NURS 218	ADN Articulation Seminar (Bridge only)	4

Quarter 5 (16 credits)

NURS 222	Professional Nursing Clinical Practice	5
NURS 223	Advanced Psychiatric Nursing	3
NURS 224	Professional Role Transition	3
TBD	Elective based on advisement	5

Quarter 6 (15 credits)

HSCI 235	Issues and Trends in Health Care Management	4
NURS 230	Advanced Topics in Nursing II	3
NURS 233	Acute Care Nursing Practicum	8
	Total second year ADN program credits	*49*
	Total ADN Credits Required	**83**
	Total Credits including prerequisites	**110**

Each course must be completed with a minimum 2.7 GPA and all courses must be completed in the designated quarter.

■ ASSOCIATE IN PRE-NURSING DTA/MRP

STATEWIDE MAJOR READY PATHWAY (MRP) AGREEMENT

This pathway is applicable to students planning to prepare for upper-division Bachelor of Science-Nursing (entry-to-practice/basic BSN pathway) by completing a broad selection of academic courses. Many students transfer to the BSN program after completing the Associate Degree Nursing (ADN) program (RN to BSN pathway); however, this agreement is not applicable to and does not alter those ADN to BSN articulation agreements.

This document represents an agreement between the following baccalaureate institutions offering an entry-to-practice/basic BSN program and the community and technical colleges system. Baccalaureate institutions party to this agreement include: University of Washington, Seattle; Washington State University; Northwest University; Seattle University; Seattle Pacific University; Pacific Lutheran University; and Walla Walla College. The Washington State University Intercollegiate College of Nursing (WSU-ICN) is a consortium whose members include: Eastern Washington University, Gonzaga, and Whitworth. Associate degree transfers to WSU-ICN are admitted through EWU, not through the other consortium institutions. EWU participated in the development of this agreement.

GENERAL DEGREE REQUIREMENTS

- Minimum of 90 quarter hours of transferable credit.
- College cumulative GPA of at least 2.0*
- ENGL& 101 - English Composition I
- Minimum of 25 of last 45 credits must be earned at Pierce College
- 1.5 grade (C-) or better for all requirements (unless prerequisites state otherwise)*
- "Pass" (P) grades may be used for General Elective credits only.
- Independent Study may be used only for General Elective credits.
- Cooperative work experience/work-based learning credits may be applied to the General Elective area only.
- Once a course has been successfully completed, credits obtained may be used only once, even if a course is listed in more than one category.

**Specific grade requirements vary from course to course and among transfer institutions. Students must check with the transfer institution. Note that admission to the BSN upper division nursing programs is very competitive; therefore, no particular GPA can guarantee admission to any specific nursing program.*

BASIC REQUIREMENTS

Communication Skills (10 credits)

ENGL& 101	English Composition I	5
ENGL 103	Composition – Argumentation and Research	5

Note: Northwest University and Walla Walla College require that the second English composition class be a research writing class.

Quantitative/Symbolic Reasoning Skills (5 credits)

Intermediate Algebra proficiency is required

MATH& 146	Intro to Statistics	5

Note: UW Seattle and Seattle University require 10 credits in quantitative/symbolic reasoning with an additional class in college algebra or precalculus (MATH& 141). At UW Seattle, a class in logic (PHIL 120) also serves for the additional class.

DISTRIBUTION REQUIREMENTS

HUMANITIES (15 CREDITS)

Consistent with the requirements in all DTA degrees — no more than five credits maximum in world languages or ASL. No more than five credits of performance/skills classes are allowed.

CMST& 220	Public Speaking	5
Humanities Electives (GER-HM)*		10

Note: In order to better prepare for successful transfer, students are encouraged to consult with the institution(s) to which they wish to transfer regarding the humanities courses that best support or may be required as prerequisites to their nursing curriculum.

SOCIAL SCIENCES (15 CREDITS)

PSYC& 100	General Psychology	5
PSYC& 200	Lifespan Psychology	5
Sociology Elective (GER-SS)*		5

Note: Northwest University requires cultural anthropology and does not accept a course in the sociology discipline as a substitute. Students may be admitted to the BSN without cultural anthropology if they agree to complete the course at NU in the summer prior to the junior year.

NATURAL SCIENCES (35 CREDITS WITH AT LEAST 25 CREDITS LAB-BASED)

BIOL& 160	General Biology w/Lab	5
BIOL& 241	Human Anatomy and Physiology 1	6
BIOL& 242	Human Anatomy and Physiology 2	6
BIOL& 260	Microbiology	5
CHEM& 121	Intro to Chemistry	5
CHEM& 131	Intro to Organic and Biochemistry	6
NUTR& 101	Nutrition	5

Note: Introductory survey courses or review courses do not meet the content level expectations for these natural science requirements. Northwest University requires two credits of genetics, as well. Students may be admitted to the BSN without genetics if they agree to complete the course at NU in the summer prior to the junior year. UW Seattle requires a minimum GPA of 3.0 for three out of the seven courses or 2.8 for four out of the seven.

ELECTIVES (10 CREDITS)

Five credits that meet the GER-CM, GER-QS, GER-HM, GER-NS or GER-SS designation as stated on Pierce AA degree lists. Up to five credits that are numbered 100 or above.*

**A curriculum that provides students with an understanding of and sensitivity to human diversity is encouraged (required by WSU). The elective credits in humanities, social science, quantitative/symbolic reasoning, and natural science provide one opportunity for such a curriculum. See the choices in the WSU Diversity Course Identification Guidelines for possible course selection or select courses that include minority, non-western, ethnic or other area studies.*

Total Credits Required 90

Notes

1. Admissions application deadlines vary; students must meet the deadline for the university or universities to which they plan to apply for admission to transfer.

2. For admission to nursing as a major, it is critical to note that GPA requirements vary and admission is competitive across the several programs in nursing.

3. Certain schools may have additional university-specific requirements that are not prerequisites to admission to the nursing major but will need to be completed prior to graduation or, as noted above for NU, prior to commencement of nursing courses. Contacting advisors from individual schools for institutional requirements is highly recommended since this DTA may not meet every institution-specific graduation requirement. NU, for example, requires Old Testament and New Testament in the summer prior to beginning nursing classes.

4. Certain schools may have additional university-specific requirements for admission to the institution that are not prerequisites specifically identified in the DTA requirements. UW Seattle and PLU, for example, each require 10 credits of a world language if the applicant has not completed two years of a single language in high school.

Nursing Assistant Certified (NAC)

Contact: Eustania Kasjan

This comprehensive training course provides basic awareness of the role of the nursing assistant in nursing care and development of the skills necessary to provide that care.

Nursing Assistants are qualified to work under the direction of Registered Nurses and Licensed Practical Nurses, and to assist in the care of patients and residents in hospitals, clinics, skilled nursing facilities (long-term care and rehab), and assisted living facilities. This includes, but is not limited to, maintaining a safe environment for the client, providing assistance with activities of daily living as needed, restorative care, communicating with clients, and basic concepts of care.

Students who may need additional support with basic skills (reading, writing, math, or English language) may want to consider the two-quarter I-BEST NAC program. During the first quarter, students are introduced to NAC terminology through lessons designed to improve their basic skills and increase their success in the NAC training the following quarter.

Student Learning Outcomes available at www.pierce.ctc.edu/dept/nac/outcomes.

Occupational Safety and Health PROFESSIONAL/TECHNICAL

Contact: Ron May (FS)

Degree: Occupational Safety and Health Technician Associate in Applied Science (AAS-T)

Certificate: Construction Safety Technician
(See Construction Management for certificate details.)
Safety Inspection Certificate

This unique degree was developed as a joint program between Pierce College and Edmonds Community College. Both colleges offer a two-year Occupational Safety and Health Technician Associate of Applied Science-T Degree (AAS-T). Students at both colleges participate in each course via online instruction or through ITV.

The AAS-T degree is designed to transfer to a BAS degree at Central Washington University. It can also transfer to BA programs at The Evergreen State College, City University, and University of Phoenix.

Occupational Safety and Health professionals work to prevent accidents and health hazards to workers, the community, and the environment. They are employed in every industry, including public and private companies. Safety professionals work with physicians, engineers, and management teams to eliminate work-related injuries and illness as well as respond to emergency preparedness and homeland security issues.

Professional/technical program competencies can be found on the Pierce College website at http://www.pierce.ctc.edu/proftech/.

■ OCCUPATIONAL SAFETY AND HEALTH TECHNICIAN ASSOCIATE DEGREE

GENERAL EDUCATION REQUIREMENTS (53 CREDITS)

COMMUNICATION (10 CREDITS)		
ENGL& 101	English Composition I	5
ENGL& 235	Technical Writing	5
QUANTITATIVE/SYMBOLIC REASONING SKILLS (5 CREDITS)		
MATH& 146	Intro to Statistics	5
HUMANITIES, SOCIAL SCIENCE AND SCIENCE (20 CREDITS)		
BIOL& 170	Human Biology	5
CHEM& 110	Chemical Concepts w/Lab (or CHEM& 121)	5
PSYC& 100	General Psychology	5
Select one:		5
CMST& 101	Introduction to Communication	
CMST& 220	Public Speaking	
COMPUTER REQUIREMENT (5 CREDITS)		
CIS 130	Microcomputer Applications	5
MANAGEMENT AND CAREER SKILLS (13 CREDITS)		
BUS 240	Human Relations in the Workplace	5
CONST 260	Project Management	5
MNGT 198	Work-Based Learning	3

SAFETY AND HEALTH REQUIREMENTS (42 CREDITS)

CONST 250	Safety and Accident Prevention	3
OSH 100	Intro to Occupational Health and Safety	5
OSH 110	Safety Management	5
OSH 140	Regulatory Environment	3
OSH 150	Workers Compensation and Risk Management	3
OSH 160	Incident Investigation	3
OSH 170	Training Techniques	5
OSH 190	Industrial Security	3
OSH 220	Industrial Hygiene	3
OSH 230	Ergonomics	3
OSH 240	Handling Hazardous Materials (40 hr. HAZWOPER)	4
HSCI 228	Standard First Aid and CPR for Health Care Prof	2
	Total Credits Required	**95**

SAFETY INSPECTION CERTIFICATE

Also see Construction Management

COURSE REQUIREMENTS (19 CREDITS)

OSH 140	Regulatory Environment	3
OSH 160	Incident Investigation	3
OSH 190	Industrial Security	3
OSH 240	Handling Hazardous Materials	4
OSH 255	Special Topic in OSH II	1-3
CONST 250	Safety and Accident Prevention	3
BUS 291	Internship	1
	Total Credits Required	**18-20**

Oceanography

Faculty: Ron May, Beth Norman, Robert Sager, Ted Wood (FS); Tom Bush (PY)

Degree: Associate of Arts (AA-DTA)
Associate of Science (AS-T)

Courses offered in oceanography provide an interdisciplinary scientific approach to the study of the biological, chemical, geological, and physical parameters of the ocean.

Students planning to transfer should complete AS-T or AA-DTA degree requirements and must check with the transfer institution regarding specific course needs and transferable credits. Pierce College offers an oceanography major with a general or biology emphasis.

■ OCEANOGRAPHY MAJOR — GENERAL EMPHASIS

ATMOS 101	Introduction to Weather	5
BIOL& 160	General Biology w/Lab	5
CHEM& 161-163	General Chemistry w/Lab I-III	5 ea
GEOL& 101	Intro to Physical Geology	5
MATH& 146	Intro to Statistics	5
OCEA& 101	Intro to Oceanography	5
OCEA 170	Marine Biology	5
Recommended math/physics sequence:		
MATH& 141-142	Precalculus I and II	5 ea
MATH& 151-153	Calculus I-III	5 ea
PHYS& 221-223	Engineering Physics I-III	6 ea

■ OCEANOGRAPHY MAJOR — BIOLOGY EMPHASIS

BIOL& 211-213	Majors: Cellular/Animal/Plant	5 ea
CHEM& 161-163	General Chemistry w/Lab I-III	5 ea
OCEA& 101	Intro to Oceanography	5
OCEA 170	Marine Biology	5
Recommended math/physics sequence:		
MATH& 141-142	Precalculus I-II	5 ea
MATH& 151	Calculus I	5
PHYS& 121 -123	General Physics I-III	5 ea

Paraeducation PROFESSIONAL/TECHNICAL

Faculty: Lisa Reeves, Greg Brazell (FS)

Degree: Associate in Paraeducation

Pierce College's Paraeducation program is designed for people already working as teaching assistants in school districts within the Pierce College service district. It provides the training necessary for them to achieve paraprofessional status.

This professional/technical program offers an associate degree in paraeducation, preparing students for employment as valuable members of instructional teams contributing meaningfully to learner-centered activities. Positions include: education assistant, guidance specialist, instructional aide, transitional specialist, playground assistant, special education assistant, teacher aide, and tutor. Coursework covers the Washington State Competencies and Skill Standards for Paraeducators. EDUC 130, EDUC 204, EDUC 230. PARED 110, PARED 130, and PARED 210 are offered through a contracted agreement with the Bethel School District.

Professional/technical program competencies can be found on the Pierce College website at www.pierce.ctc.edu/proftech/.

■ ASSOCIATE IN PARAEDUCATION

GENERAL REQUIREMENTS (60 CREDITS)

COMMUNICATIONS (10 CREDITS)		
ENGL& 101	English Composition I	5

ENGL 103	Composition — Argumentation and Research	5

COMPUTATION/QUANTITATIVE/SYMBOLIC REASONING SKILLS (5 CREDITS)
Any course that satisfies the quantitative/symbolic reasoning skills requirement for the AA-DTA Degree or any course which satisfies the computational requirements for an Associate in Technology Degree.

HUMANITIES (15 CREDITS)

Select one:		5
CMST& 101	Introduction to Communication	
CMST 210	New Media Presentation	
CMST& 220	Public Speaking	
Humanities course		10

NATURAL SCIENCES (15 CREDITS)
Must include at least one laboratory course

Select one:		5
HSCI 119	Human Health and Disease	
HSCI 140	Contemporary Health Science Problems	
HSCI 151	Personal and Community Health	
HSCI 210	Wellness	
NUTR& 101	Nutrition	
and		
Natural science		10

HUMAN RELATIONS (15 CREDITS)

ANTH& 206	Cultural Anthropology	5
PSYC& 100	General Psychology	5
Select one:		5
BUS 240	Human Relations in the Workplace	
SOC& 101	Intro to Sociology	

PARAEDUCATION PROFESSIONAL COURSES (25 CREDITS)

EDUC 130	Technology in Education	3
EDUC& 202	Intro to Education	5
EDUC& 204	Exceptional Child	5
EDUC 230	Curriculum and Instruction: Support Strategies	3
PARED 110	Issues, Roles, and Responsibilities of Paraeducator	2
PARED 130	Classroom and Behavior Management	3
PARED 210	Observation/Assessment/Recordkeeping	3

PRACTICUM & ELECTIVES (10 CREDITS)

EDUC 190	Education Practicum	5
PSYC& 200	Lifespan Psychology	5
	Total Credits Required	**95**

Philosophy

Faculty: Emily Kulbacki (FS)
Degree: Associate of Arts (AA-DTA)

Philosophy involves both a body of knowledge and the active, critical and speculative inquiry into such areas as the meaning of human existence, the nature of reality, human knowledge and its justifications, and the pursuit of acceptable grounds for human conduct. Philosophy courses at Pierce are designed not only for students who plan to transfer as philosophy majors to four-year institutions, but also as service courses for students in other disciplines and as personal enrichment courses for those who have an interest in philosophical questions and in the development of methods and skills for determining one's own answers.

Students interested in pursuing a major in philosophy should first consult the general distribution requirements for their chosen transfer institution and fulfill as many of the requirements as possible. Students whose philosophical interests lie in a certain area (such as philosophy of science, political philosophy, philosophy of social science, aesthetics, etc.) should acquaint themselves with those disciplines. If completing an AA-DTA degree, the student should also ensure that degree requirements are met.

All philosophy majors should take at least a representative sample of the following courses, working closely with an advisor to determine those that best meet their specific educational needs. In addition, most baccalaureate programs in philosophy require the study of at least one foreign language from among the following: French, German, Latin, or Ancient Greek.

■ PHILOSOPHY MAJOR —GENERAL EMPHASIS

The following courses should be taken, in addition to courses required for the AA-DTA degree:

CMST& 220	Public Speaking	5
ENGL 107	Composition — Writing About Literature	5
HIST& 126	World Civilizations I	5
HIST& 127	World Civilizations II	5
HIST& 128	World Civilizations III	5
PHIL& 101	Intro to Philosophy	5
PHIL& 106	Intro to Logic	5
PHIL 150	Intro to Ethics	5

■ PHILOSOPHY MAJOR — VALUES EMPHASIS (ETHICS, AESTHETICS)

The following courses should be taken, in addition to courses required for the AA-DTA degree:

ANTH& 100	Survey of Anthropology	5
ART 105	Intro to Art	5
ENGL 103	Composition — Argumentation and Research	5
ENGL& 114	Intro to Poetry	5
MUSC& 105	Music Appreciation	5
PHIL& 101	Intro to Philosophy	5
PHIL& 106	Intro to Logic	5
PHIL 110	Intro to Bioethics	5
PHIL 150	Intro to Ethics	5
PHIL 155	Ethics in Business	5
PHIL 210	Philosophy of Western Religion	5
PSYC& 100	General Psychology	5

■ PHILOSOPHY MAJOR — LINGUISTICS AND EPISTEMOLOGICAL EMPHASIS

The following courses should be taken, in addition to courses required for the AA-DTA degree:

ANTH& 206	Cultural Anthropology	5
PHIL& 101	Intro to Philosophy	5
PHIL& 106	Intro to Logic	5
PHIL 150	Intro to Ethics	5

Physical Education

See also Diagnostic Health and Fitness Technician/Instructor.

Faculty: Steve Crain, Lisa Murray (FS)
Degree: Associate of Arts (AA-DTA)

Pierce College offers a variety of activities to meet students' needs and interests in the areas of fitness, aquatics, and lifetime and team sports. Students interested in careers in teaching and/or coaching should work towards the AA-DTA degree for transfer to a four-year college or university. The following sequence of courses will assist in meeting requirements of most four-year institutions, but students must check with transfer institutions regarding specific requirements and transferable credits.

■ PHYSICAL EDUCATION TRANSFER

BIOL& 241	Human Anatomy and Physiology 1	6
BIOL& 242	Human Anatomy and Physiology 2	6
ENGL& 101	English Composition I	5

ADDITIONAL RECOMMENDED COURSES

BIOL& 160	General Biology w/Lab	5
CHEM& 100	Prepatory Chemistry	5
NUTR& 101	Nutrition	5
PE 104-259	Physical Education Activity	1 - 2
HSCI 228	First Aid and CPR for Health Care Professionals	2
PSYC& 100	General Psychology	5
SOC& 101	Intro to Sociology	5
Choose one or both:		5-10
CMST& 101	Introduction to Communication	
CMST& 220	Public Speaking	

Physical Therapist Assistant

Program Advisor Pierce College: Lisa Murray (253) 964-6482
Program Advisor Whatcom Community College:
David Knapp (360) 383-3080, dknapp@whatcom.ctc.edu

Pierce College has partnered with Whatcom Community College (WCC) to provide Pierce County students a designed pathway into the WCC online/hybrid Physical Therapist Assistant (PTA) program. Students can meet with a Pierce College advisor to develop an education plan to identify the necessary prerequisities for application to the PTA program. The program advisor will assist students with all steps of the application process. Students have the option to complete all prequisities at Pierce College. Once students have been admitted to the PTA program, they will become a student at WCC, completing all courswork online and attending labs one weekend per month in Bellingham.

Physical Therapy (Pre-)

See Health Science.

Physics

Faculty: Hillary Stephens, Les Uhrich (FS); Marlene Ignacio (PY)
Degree: Associate of Arts (AA-DTA)
Associate of Science (AS-T)

The courses in physics are concerned with the laws and properties of matter and the topics of mechanics, energy, sound, heat, light, electricity and magnetism. A major in physics would serve as a basis for work in one of these areas in industry, government or teaching. The courses in physics find applications in many related areas, among them chemistry, biological sciences, engineering, geophysics, astronomy, oceanography, meteorology, environmental sciences and mathematics.

■ PHYSICS MAJOR

Students planning to transfer as physics majors should complete AS-T or AA-DTA degree requirements and must check with transfer institutions regarding specific requirements and transferable credits.

PHYS& 221	Engineering Physics I	5
PHYS& 222	Engineering Physics II	5
PHYS& 223	Engineering Physics III	5
ENGR& 224	Thermodynamics	5
MATH& 151	Calculus I	5
MATH& 152	Calculus II	5
MATH& 153	Calculus III	5
MATH 205	Linear Algebra	5
MATH 224	Multivariate Calculus	5
CHEM& 161	General Chemistry w/Lab I AND	5
CHEM& 162	General Chemistry w/Lab II	
(or 10 credits of physical science, not physics or math)		

Political Science

Faculty: Dr. John Lucas, Chris Vanneson (PY)
Degree: Associate of Arts (AA-DTA)

Political science is the systematic study of how societies organize to decide what to do and how to do it. The analysis of group decision-making extends over time and over group size, from committees to international institutions. The courses presented at Pierce College are lower-division prerequisites for acceptance as a political science major in all of Washington's colleges and universities. Students should also complete AA-DTA degree requirements and must check with transfer institutions regarding specific requirements and transferable credits.

■ POLITICAL SCIENCE MAJOR

POLS& 101	Intro to Political Science	5
POLS& 202	American Government	5
POLS& 203	International Relations	5

Students planning to transfer as political science majors should also consider choosing among the following courses to fulfill requirements for the AA-DTA degree.

RECOMMENDED COURSES

COMMUNICATIONS SKILLS

ENGL& 101	English Composition I	5
ENGL 107	Composition – Writing About Literature	5

QUANTITATIVE/SYMBOLIC REASONING SKILLS

MATH& 146	Intro to Statistics	5

HUMANITIES

CMST& 102	Intro to Mass Media	5
CMST& 220	Public Speaking	5
HIST& 156-158	History of United States I-III	5 - 1 5
PHIL& 101	Intro to Philosophy	5

SOCIAL SCIENCE (two disciplines plus POLS)

CJ 112	Criminal Justice in America	5
POLS& 200	Introduction to Law	5
PSYC& 100	General Psychology	5
SOC& 101	Intro to Sociology	5
Select one:		5
ANTH& 206	Cultural Anthropology	
GEOG 207	Economic Geography	

NATURAL SCIENCE (three disciplines, including one lab course)

ANTH& 205	Biological Anthropology	5
GEOG 205	Intro to Physical Environment	5
OCEA& 101	Intro to Oceanography	5
Choose one:		5
GEOL& 101	Intro to Physical Geology or	
GEOL& 110	Environmental Geology	

Pre-Law

Faculty: Doug Jensen (FS)
Degree: Associate of Arts (AA-DTA)

There is no formal pre-law program or curriculum at Pierce College or at most other undergraduate institutions; thus, the pre-law designation normally is used only until the pre-law student selects a suitable major field of study. In most instances, the later study of a specialized area of law in law school is not related directly to the law student's undergraduate major field of study. However, students contemplating a career in law should emphasize the development of strong communication (especially writing) and critical thinking abilities while studying at the undergraduate level.

With few exceptions, individuals becoming lawyers earn the Juris Doctor (JD) degree by attending law school for the equivalent of three academic years of full-time study. Prior to entering law school, students must have been awarded the bachelor's degree and taken the Law School Admission Test (LSAT). Admission to law school is highly competitive, pre-law students should earn the best grades possible. The LSAT, a one-day national examination offered several times each year at numerous testing sites, is usually taken early during the senior year of undergraduate study.

The pre-law advisor can share information about law schools and provide direction, from a pre-law perspective, concerning baccalaureate institutions as well as Pierce College courses and programs of study. Students should contact the appropriate transfer institution regarding transferability of credits and specific institutional, including departmental, requirements.

Psychology

Faculty: Dr. JoAnne Geron, Dr. Thomas Link (FS); Leon Khalsa-Maulen,(PY)
Degree: Associate of Arts (AA-DTA)

Psychology is the study of human and animal behavior, which forms a basis for making inferences about mental processes. It involves the study of mental states and processes, human behavior, and human nature and society. Pierce College's psychology program prepares students for transfer to four-year institutions as psychology majors; helps prepare students for vocational certification or licensure in disciplines related to and supported by psychological training; and provides courses that contribute to the personal growth and well-being of students who seek more knowledge of themselves and the world around them.

Students planning to transfer as psychology majors should complete AA-DTA degree requirements and must check with transfer institutions regarding specific requirements and transferable credits. Up to 30 psychology credits may be accepted, depending on the transfer institution. Often, psychology majors are best served by gaining a strong background in anatomy and physiology, philosophy, sociology and anthropology, well as in psychology. Students are strongly urged to work closely with faculty advisors to plan an overall program of study that best meets their transfer needs and career goals.

■ PSYCHOLOGY MAJOR

Recommended Courses:

PSYC& 100	General Psychology	5

Two of the following:

PSYC& 180	Human Sexuality	5
PSYC& 200	Lifespan Psychology	5
PSYC 210	Social Psychology*	5
PSYC& 220	Abnormal Psychology*	5
PSYC 230	Intro to Personality*	5

*Check with the transfer institution for its preference/transferability of more than two 200 level physchology courses.

The following courses are recommended as part of the requirements for the AA-DTA degree:

Communication Skills

ENGL& 101	English Composition I	5
ENGL 103	Composition - Argumentation and Research	5

Quantitative Skills

MATH& 146	Into to Statistics**	5

Social Science (three disciplines), at least one sociology course

SOC& 101	Intro to Sociology	5
SOC 211	Family and Intimate Relationships	5

At least one anthropolgy course 5

ANTH& 100	Survey of Anthropology
ANTH& 106	American Mosaic
ANTH& 206	Cultural Anthropology

Humanities (three disciplines)

PHIL& 101	Intro to Philosophy	5
CMST& 101	Introduction to Communication	
Humanities Thought and Culture course		

Natural Science (three disciplines, including one lab course)

BIOL& 170	Human Biology	5
BIOL& 175	Human Biology w/Lab	5
BIOL& 160	General Biology w/Lab	5
HSCI 200 or HSCI 210 or NUTR& 101		5

**Statistics and calculus for UW-Seattle

Pupil Transportation Supervision PROFESSIONAL/TECHNICAL

Certificate: Pupil Transportation Supervision

The Certificate in Pupil Transportation Supervision enables public and private transportation employees to prepare for advancement to supervisory and senior management positions. The certificate is endorsed by the Washington Association of Pupil Transportation and includes up to nine credits of coursework specific to the field of pupil transportation. The remaining 25 credits are drawn from traditional college courses that can apply directly to the college's Associate in Business professional/technical degree.

Professional/technical program competencies can be found on the Pierce College website at www.pierce.ctc.edu/proftech/.

■ CERTIFICATE IN PUPIL TRANSPORTATION SUPERVISION

CORE REQUIREMENTS (34 CREDITS)

	ACCT 101	Survey of Accounting	5
*	BUS 105	Business English I	5
	BUS 240	Human Relations in the Workplace	5
	MNGT 283	Principles of Supervision and Leadership	5
	MNGT 295	Human Resource Management	5
**	Pupil Transportation Courses		9
		Total Credits Required	**34**

**Requires 2.0 GPA in lower-level English or placement recommendation at ENGL 099.*

***Courses must be specific to student transportation and approved by Pierce College NAPT. State association courses may be acceptable. Check with Pierce College.*

Reading/College Success

Faculty: Lori Griffin, Irene Brewer (FS); Jeff Pisetzner (PY)

Offered through structured classes or arranged lab format, the Reading and College Success (formerly Study Skills) programs offer students a flexible way to increase their reading comprehension and gain invaluable study skills. The Reading program offers a varied level of instruction from skill development to speed reading. The College Success program allows students to explore such topics as test- and note-taking strategies, time management, and career planning. Classes are offered both daytime and evening.

Student Learning Outcomes available at www.pierce.ctc.edu/dist/basicskills/outcomes.

COLLG 101	Listening Skills
COLLG 104	Study Techniques I
COLLG 105	Study Techniques II
COLLG 106	Study Techniques III
COLLG 107	Study Skills for Math and Science
COLLG 110	College Success
COLLG 111	TRIO College Success
COLLG 112	College Transfer Planning
READ 055	Reading Skills Improvement
READ 075	Reading Tactics
READ 101	College Reading
READ 102	Speed Reading
READ 103	Accelerated Reading

Social Service/Mental Health

PROFESSIONAL/TECHNICAL & UNIVERSITY TRANSFER

Faculty: Dr. Denise Arnold (FS)
Degrees: Associate in Social Service/Mental Health
Associate of Arts (AA-DTA) & Certificate in SS/MH
Certificate: Social Service/Mental Health

The Social Service/Mental Health Program prepares students for service and employment in the human services. Human service professionals help clients meet their diverse human and social needs. Their work routinely involves interviewing, counseling, crisis intervention, assessment, outreach, coordination and community development.

Entry-level workers, who are also known as beginning-level professionals or paraprofessionals, are employed in a variety of settings: group homes, halfway houses, community mental health centers, family and youth service agencies, correctional institutions, work release programs, congregate care facilities, and psychiatric hospitals. Clients include children, young adults, ethnic minorities, families, juvenile delinquents, senior citizens, prisoners, released criminal offenders, crime victims,

and people who are disabled, mentally ill, abused, developmentally disabled, homeless, and chemically dependent.

The program at Pierce College integrates a solid academic background with specialized coursework that familiarizes students with the knowledge, values and skills they will need to succeed with clients and in the professional community.

The AA-DTA and Certificate in Social Service/Mental Health are geared to students who wish to pursue a four-year degree in social work, social services, occupational therapy, special education, psychology, sociology, criminal justice, or other social service fields. The Associate in Social Service/Mental Health prepares graduates for immediate employment in entry-level positions.

The Certificate in Social Service/Mental Health is designed to prepare students for careers in Social Services and Mental Health. It is an excellent complement to the Pierce College AA-DTA degree for those going on in higher education. For those who already have college degrees but lack formal human service training, it provides a solid career foundation.

See Degree Outcomes on page 45.

Professional/technical program competencies can be found on the Pierce College website at www.pierce.ctc.edu/proftech/.

■ ASSOCIATE IN SOCIAL SERVICE/MENTAL HEALTH

RELATED INSTRUCTION (23-25 CREDITS)

COMMUNICATIONS (10 CREDITS)

ENGL& 101	English Composition I	5

Select one: *5*

CMST& 101	Introduction to Communication	
CMST& 220	Public Speaking	

COMPUTATION/QUANTITATIVE/SYMBOLIC REASONING SKILLS (3-5 CREDITS)

Any course meeting AA QS requirement (5)

or

BUS 103	Computational Math (3)	

or

BUS 107	Business Math (5)	

HUMAN RELATIONS (10 CREDITS)

PSYC& 100	General Psychology	5

Select one: 5

ANTH& 106	American Mosaic	
ANTH& 206	Cultural Anthropology	
SOC& 101	Intro to Sociology	

SOCIAL SERVICE FOUNDATION (31 CREDITS)

HSSA& 101	Intro to Addictive Drugs	3
HSSA 121	Psychotropic Medications	3
PSYC& 220	Abnormal Psychology	5
SSMH 202	Social Service Mental Health Field Experience 2	5
Electives approved by SSMH advisor		15

(Any psychology, sociology, multicultural course or course related to career path)

SOCIAL SERVICE/MENTAL HEALTH CORE (36 CREDITS)

Psychology courses (choose one) 5

PSYC& 180	Human Sexuality	
PSYC& 200	Lifespan Psychology	
PSYC 201	Psychology of Personal Growth	
PSYC 210	Social Psychology	
PSYC 215	Group Experience	
PSYC& 220	Abnormal Psychology	
PSYC 230	Intro to Personality	

Sociology courses (choose one) 5

SOC& 201	Social Problems	
SOC 211	Family and Intimate Relationships	
SOC 212	Death, Dying and Bereavement	
SOC 220	Gender Roles in Society	

and

SSMH 100	Intro to Human Services	5
SSMH 170	Mental Health Interviewing and Assessment	5
SSMH 201	Social Service Mental Health Field Experience 1	5
SSMH 210	Self-Care for Care Givers	3
SSMH 215	Law and Ethics in Social Services	5

Select one: 3

SSMH 185	Identity and the Family	
SSMH 230	Abuse in the Family	

Total Credits Required **90-92**

**Students must earn a minimum grade of 2.0 in all SSMH courses to earn an SSMH associate degree.*

■ ASSOCIATE OF ARTS (AA-DTA) WITH CERTIFICATE IN SOCIAL SERVICE/MENTAL HEALTH

GENERAL EDUCATION REQUIREMENTS (60 CREDITS)

All GER elective courses must be chosen from the approved lists on the AA-DTA degree requirement sheet. All other AA-DTA degree requirements also must be fulfilled.

COMMUNICATIONS (10 CREDITS)

ENGL& 101	English Composition I	5
CM GER Elective (ENGL 103 recommended)		5

QUANTITATIVE/SYMBOLIC REASONING SKILLS (5 CREDITS)

QS GER Electives (MATH& 146 recommended)		5

HUMANITIES (15 CREDITS)

Choose three disciplines:

HM GER Electives		10

Select one: 5

CMST& 101	Introduction to Communication	
CMST& 220	Public Speaking	

SOCIAL SCIENCE (15 CREDITS)

Choose three disciplines:

PSYC& 100	General Psychology	5
SOC& 101	Intro to Sociology	5

Select one: 5

ANTH& 206	Cultural Anthropology	
* ECON 110	Survey of Economics	

**ECON 110 recommended for transfer to social work at UW.*

NATURAL SCIENCE (15 CREDITS)

Choose three disciplines – lab class required:

BIOL& 170	Human Biology	5
NS GER Elective		5

Select one: 5

HSCI 119	Human Health and Disease	
HSCI 210	Wellness	
NUTR& 101	Nutrition	

SOCIAL SERVICE/MENTAL HEALTH CORE/CERTIFICATE (36 CREDITS)

Psychology courses (choose one) 5

PSYC& 180	Human Sexuality	
PSYC& 200	Lifespan Psychology	
PSYC 201	Psychology of Personal Growth	
PSYC 210	Social Psychology	
PSYC 215	Group Experience	
PSYC& 220	Abnormal Psychology	
PSYC 230	Intro to Personality	

Sociology courses (choose one) 5

SOC& 201	Social Problems	
SOC 211	Family and Intimate Relationships	
SOC 212	Death, Dying and Bereavement	
SOC 220	Gender Roles in Society	

and

SSMH 100	Intro to Human Services	5
SSMH 170	Mental Health Interviewing and Assessment	5
SSMH 201	Social Service Mental Health Field Experience 1	5
SSMH 210	Self Care for Care Givers	3
SSMH 215	Law and Ethics in Social Services	5

Select one: *3*

SSMH 185	Identity and the Family	
SSMH 230	Abuse in the Family	

Total Credits Required **96**

■ CERTIFICATE IN SOCIAL SERVICE/MENTAL HEALTH

CORE REQUIREMENTS (36 CREDITS)

Psychology courses (choose one) 5

PSYC& 100	General Psychology
PSYC& 180	Human Sexuality
PSYC& 200	Lifespan Psychology
PSYC 201	Psychology of Personal Growth
PSYC 210	Social Psychology
PSYC 215	Group Experience
PSYC& 220	Abnormal Psychology

PSYC 230	Intro to Personality	
Sociology courses (choose one)		5
SOC& 101	Intro to Sociology	
SOC& 201	Social Problems	
SOC 211	Family and Intimate Relationships	
SOC 212	Death, Dying and Bereavement	
SOC 220	Gender Roles in Society	
and		
SSMH 100	Intro to Human Services	5
SSMH 170	Mental Health Interviewing and Assessment	5
SSMH 201	Social Service Mental Health Field Experience 1	5
SSMH 210	Self Care for Care Givers	3
SSMH 215	Law and Ethics in Social Services	5
Select one:		3
SSMH 185	Identity and the Family	
SSMH 230	Abuse in the Family	
	Total Credits Required	**36**

**Students must earn a minimum grade of 2.0 in all SSMH courses to earn an SSMH certificate.*

Sociology

Faculty: Dr. Alan Kemp (FS); Leon Khalsa-Maulen (PY)

Degree: Associate of Arts (AA-DTA)

Sociology is the study of society and human interaction. It deals with human relationships, development in groups, and processes of social behavior and social institutions, such as the family, religion, and the economy. Courses in sociology are designed to stimulate critical and constructive attitudes toward society, to train persons in sociologically-related career fields, and to help students become better prepared to handle the problems of a rapidly-changing world.

Students planning to transfer as sociology majors should complete AA-DTA degree requirements and must check with transfer institutions regarding specific requirements and transferable credits. The following courses are recommended, although sociology majors should work closely with faculty advisors to plan an overall program of study.

■ SOCIOLOGY MAJOR

The following courses are recommended as part of the core AA-DTA requirements or as electives:

ANTH& 100	Survey of Anthropology (or ANTH& 104 or 106)	5
BIOL& 160	General Biology w/Lab	5
ENGL& 101	English Composition I	5
ENGL 103	Composition – Argumentation and Research	5
HIST& 126-128	World Civilizations I-III	5
MATH& 141	Precalculus I	5
MATH& 146	Intro to Statistics	5
PSYC& 100	General Psychology	5
PSYC 210	Social Psychology	5
SOC& 101	Intro to Sociology	5
SOC& 201	Social Problems	5
SOC 211	Family and Intimate Relationships	5
SOC 212	Death, Dying and Bereavement	5
SOC 220	Gender Roles in Society	5
SOC 280	Sociology of Social Work	5

Veterinary Technology

PROFESSIONAL/TECHNICAL

Faculty: Markiva Contris, LVT; Salvador Hurtado, DVM (FS)

Degree: Associate in Veterinary Technology
Web site: www.pierce.ctc.edu/vet-tech

Professional/technical program competencies can be found on the Pierce College website at www.pierce.ctc.edu/proftech/.

At this time, Pierce College is one of five colleges in Washington to offer the Associate in Veterinary Technology degree. This two-year program is designed to prepare students to assist veterinarians in all aspects of animal care, including small and large animal practices, zoos, research laboratories and industry. Following successful completion of the national and state board examinations, graduates can expect a challenging and rewarding career.

The Veterinary Technology program is a special admissions program and the number of students accepted is limited by the physical and financial resources of the college. Selection into the program is based on the satisfactory completion of admissions requirements. Candidates with the highest total scores will be notified of their acceptance status the May preceding the fall quarter for which they applied. See www. pierce.ctc.edu/vet-tech.

All candidates must have:

- College level biology (i.e. BIOL& 100, five credits)
- College level chemistry (I.e., CHEM& 100, five credits)
- College level intermediate algebra (i.e., MATH 098, five credits)
- College level English (i.e. ENGL& 101, five credits)
- College level medical terminology (i.e., BTECH 150, min. three credits)

(Above courses may require prerequisites based upon placement scores)

- Grade of 2.0 or better for each program prerequisite class
- Program test
- Recommendation/Reference Form and Discussion Topics Form
- Veterinary hospital experience

Many laboratory sessions require lifting, bending, and restraining animals. This is physically demanding and a necessary part of the curriculum. If a student has any physical limitations that would prevent them from doing this work, they are advised to make an appointment with the director of the program.

APPLY EARLY

Because the veterinary technology courses are offered in sequence, students may enter the program fall quarter only. Deadline for submitting the admissions form, the $40 non-refundable application fee, and other required documents is April 15 preceding the fall quarter in which the student plans to enter the program. The selection process is competitive; therefore, not all applicants will be accepted. Because of the special admission requirements for the program, applications for admission submitted online are not accepted. The application packet and forms can be accessed through the Veterinary Technology website at www.pierce.ctc.edu/vet-tech.

ACCREDITATION

The Veterinary Technology program at Pierce College has been approved by the Washington State Veterinary Medical Association and the Washington State Association of Veterinary Technicians, and is accredited by the American Veterinary Medical Association.

Student Learning Outcomes available at www.pierce.ctc.edu/dept/vettech/outcomes.

■ ASSOCIATE IN VETERINARY TECHNOLOGY (FS ONLY)

FIRST YEAR

Fall Quarter (17 credits)			
*	VT 100	Intro to Veterinary Technology	2
	VT 101	Animal Nursing I	4
	VT 107	Medical Dosage for VT	2
	VT 110	Ward Care Laboratory I	1
	VT 125	Animal Anatomy and Physiology I	6
	VT 160	Applied Behavior Techniques I	2
Winter Quarter (14 credits)			
	VT 104	Animal Nursing II	4
	VT 111	Ward Care Laboratory II	1
	VT 123	Large Animal Nursing	3
	VT 126	Animal Anatomy and Physiology II	3
	VT 155	Nutrition and Complementary Therapies	2
	VT 161	Applied Behavior Techniques II	1
Spring Quarter (13 credits)			
	VT 105	Animal Nursing III	3
	VT 112	Ward Care Laboratory III	1
	VT 150	Intro to Clinical Microbiology	5
	VT 162	Applied Behavior Techniques III	1
	VT 166	Hematology for Veterinary Techniques	3

SECOND YEAR

Fall Quarter (18 credits)			
	VT 215	Animal Hospital and Office Procedures	4

VT 220	Public Health and Sanitation	4
VT 222	Hematology	4
VT 230	Anesthesiology and Intensive Care	4
VT 250	Radiology for VT	2
Winter Quarter (17 credits)		
VT 223	Applied Equine Techniques	3
VT 224	Veterinary Clinical Lab Principles	4
VT 240	Animal Diseases	3
VT 251	Pharmacology for VT	3
VT 252	Special Techniques and Projects	4
Spring Quarter (14 credits)		
VT 233	Veterinary Clinical Practice (Externship)	14
	Total Credits Required	**93**

**VT 100 is open to all interested students, not just to those enrolled in the Veterinary Technology program.*

World Languages

Faculty: Dr. Thérèse Mirande (FS)
Victoria Mayorga (Spanish), Janina Starr (ASL) (PY)
Degree: Associate of Arts (AA-DTA)

Foreign language study includes learning to speak, read and write a language, and gaining exposure to the culture or cultures that use that language. It also includes the development of an understanding of how a language is structured and of problem-solving abilities using that structure.

Pierce College's World Languages department offers European and Asian languages, as well as American Sign Language. Most courses offered are three-quarter sequences at the introductory level. These courses meet the entrance and graduation requirements for foreign languages of most four-year programs. Students should verify requirements with their intended transfer institution. Intermediate level courses are available depending on demand, primarily in Spanish.

Advanced placement is available to students with prior experience in the language. Interested students should contact the department.

Students planning to transfer as foreign language majors or minors or in area studies should complete AA-DTA requirements to be admitted with junior standing and should contact the appropriate department of the transfer institution regarding specific requirements and transferable credits.

■ FOREIGN LANGUAGE — WESTERN EUROPEAN LANGUAGE OR AREA STUDY MAJORS

Students wishing to major in Western European languages or area studies may find the following courses particularly useful:

ANTH& 100	Survey of Anthropology
ART 145	History of Art — Contemporary
ENGL 140	English Grammar
HIST& 127, 128	World Civilizations II, III
HUM& 116-118	Humanities I-III
INTS 107	Intro to International Studies
INTS 140	Contemporary Issues in International Studies

■ FOREIGN LANGUAGE — ASIAN LANGUAGE OR AREA STUDY MAJORS

ANTH& 100	Survey of Anthropology
ART 145	History of Art — Contemporary
ENGL 140	English Grammar
HIST& 127, 128	World Civilizations II, III
HIST 270	Intro to the Far East
HIST 280	Intro to Chinese Civilization
INTS 107	Intro to International Studies
INTS 140	Contemporary Issues in International Studies

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COURSE DESCRIPTIONS

An alphabetical

listing of courses

offered at

Pierce College.

■ ACCOUNTING (ACCT)

ACCT 101 (5) Survey of Accounting
Fundamental theories and concepts of accounting. Emphasizes applications of accounting information to various career programs, such as management, CIS, etc.

ACCT 170 (5) Practical Accounting I
Prereq: MATH 051 or MATH 054 with a 2.0 grade or better or placement into MATH 060
Theory and practice of keeping adequate accounting records, and the use of various journals, ledgers and accounts. Offered through the accounting lab, self-paced, continuous entry.

ACCT 171 (5) Practical Accounting II
Prereq: ACCT 170 or ACCT& 201 with a 2.0 grade or better
Theory and practice of keeping adequate records, use of special journals, controlling accounts and subsidiary ledgers, periodic adjustments, closing procedures and preparation of financial statements. Offered through the accounting lab, self-paced, continuous entry.

ACCT 172 (5) Practical Accounting III
Prereq: ACCT 171 or ACCT& 201 with a grade of 2.0 or better
Corporate and Partnership accounting. Cash flow statement, financial statement analysis and accounting principles. Offered through accounting lab, self-paced, continuous entry.

ACCT 173 (3) Practical Cost Accounting
Prereq: ACCT 172 or ACCT& 201 with a grade of 2.0 or better
An introduction to job order, process cost and standard cost accounting for the occupational student. Offered through the accounting lab, self-paced, continuous entry.

ACCT 175 (2) Practical Accounting Simulations
Prereq: ACCT& 202
A course in doing accounting simulations. Course is intended for students in the Associate in Accounting degree program who elect to take Principles of Accounting classes instead of Practical Accounting. Also useful for students who want hands-on practice in doing accounting work. Offered through the accounting lab, self-paced, continuous entry.

ACCT 179 (5) Federal Income Tax Preparation
Federal income tax law and preparation with primary emphasis on individual income tax.

ACCT 180 (5) Accounting Systems
Prereq: CIS 110 or 121, and BTECH 111, and ACCT 171 or ACCT& 201, or permission of instructor
Introduction to accounting systems and computerized processing of accounting data. Students will learn about the flow of accounting data and documents in a business, the management and processing of the data in both a manual and computerized system and the preparation of output reports.

ACCT& 201 (5) Principles of Accounting I
Prereq: MATH 098 with a grade of at least 2.0
First accounting course required of students transferring to a four-year school to obtain a bachelor's degree in business administration. Introduction to basic accounting concepts and procedures. Primary emphasis on the balance sheet and income statements in a single proprietorship.

ACCT& 202 (5) Principles of Accounting II
Prereq: ACCT& 201 with a grade of at least 2.0
Second accounting course typically required of students transferring to a four-year school to obtain a bachelor's degree in Business Administration. Covers partnerships, bonds, corporations, cash flow statements and financial statement analysis.

ACCT& 203(5) Principles of Accounting III
Prereq: ACCT& 202 with a grade of at least 2.0
An introduction into the field of managerial accounting. Survey of process and job order costs, budgeting, cash planning, capital budgeting, present value and other topics.

ACCT 273 (5) Government Budget and Fund Accounting
Prereq: ACCT 171 or ACCT& 201
Accounting practices for the growing not-for-profit segment of the economy (governmental units, educational institutions, hospitals, etc.) with a comparison to accounting for profit-making organizations.

ACCT 275 (5) Payroll and Business Taxes
Prereq: ACCT 170 or equivalent
Payroll preparations, payroll tax laws, accounting procedures and supplementary records. Preparation of required returns for federal and state payroll taxes and business taxes (includes manual and computerized payroll problems).

ACCT 285 (5) Auditing and Advanced Analytical Techniques
Prereq: ACCT 180 and CIS 136
A capstone class for majors in accounting. The course will utilize auditing techniques and concepts to solve problems in verifying the accuracy of accounting records. Computerized spreadsheet and audit programs will be utilized in solving problems in a team environment.

ACCT 287 (3) Income Tax Practicum
Training in the preparation of the basic income tax forms and preparation of actual tax returns under the auspices of the AARP Tax-Aide program.

■ ADULT BASIC EDUCATION (ABE)

Non-credit basic skills courses are offered for English, Math, Computers, Transitional, etc. See listing under PROGRAMS OF STUDY for more information.

■ AMERICAN SIGN LANGUAGE (ASL)

ASL& 121 (5) American Sign Language I • GER-HM
A beginning course in American Sign Language using conversational methods. This includes vocabulary related to exchanging personal information, day to day common activities, describing family relationships, and providing basic directions. Basic grammar, finger-spelling, numbers 1-100, the fundamentals of spatial agreement, and an introduction to the deaf culture and its history are also introduced.

ASL& 122 (5) American Sign Language II • GER-HM
Prereq: ASL& 121 with grade of 2.0 or better; or one year HS equivalent or instructor permission
In ASL& 122, students will continue developing their sign skills while building on vocabulary, enhancing number skills, learning more about classifiers, increasing fluency and incorporating non-manual grammatical markers and non-manual signals with more ease. They will be introduced to basic story telling using these new skills and techniques as well as learn more about deaf culture and grammar.

ASL& 123 (5) American Sign Language III • GER-HM
Prereq: ASL& 122 with a grade of 2.0 or better; or 2 years high school equivalent or instructor permission
ASL& 123 focuses on vocabulary development, increasing expressive and receptive skills, and developing story telling techniques. This focus includes more advanced use of classifiers, expansion of detail, and introduction to deaf expressions and idioms, additional grammatical features, and a continued study of the deaf culture.

ASL& 221 (5) American Sign Language IV • GER-HM
Prereq: ASL& 123 with a grade of 2.0 or better; or 3 years HS equivalent; or instructor permission
Emphasis is placed on receptive and expressive skill development and ASL fluency. Attention is given to correct formation of signs movement, rhythm, phrasing and clarity. This course includes intensive vocabulary building, a deeper understanding of ASL expressions, and proficiency in ASL grammar.

ASL& 222 (5) American Sign Language V • GER-HM
Prereq: ASL& 221 with a grade of 2.0 or better; or 4 years HS equivalent plus placement in ENGL& 101 or instructor permission
The importance of signing with sufficient grammatical accuracy and vocabulary is emphasized. Emphasis is placed on participating effectively in formal and informal conversations on familiar and unfamiliar topics. There will be many opportunities to develop a stronger acceptance and appreciation of the diverse regional aspects of ASL and expand on personal application of the language.

ASL& 223 (5) American Sign Language VI • GER-HM
Prereq: ASL& 222 with a grade of 2.5 or better; plus placement in ENGL& 101 or instructor permission
In ASL& 223, emphasis is placed on receptive and expressive skill development including discourse structures used in discussing a variety of topics, spontaneous conversations, and story-telling. The course will encourage vocabulary review, clear articulation of the language, continued practice of grammar structures, exposure to a variety of signing styles, and a deeper cultural awareness about interacting effectively in the deaf community.

■ ANTHROPOLOGY (ANTH)

ANTH& 100 (5) Survey of Anthropology • GER-SS
A survey of biological anthropology, archaeology, cultural anthropology and linguistic anthropology.

ANTH& 104 (5) World Prehistory • GER-SS
An archaeological interpretation of the lifeways of our human ancestors from 3 million years ago to the development of written records.

ANTH& 106 (5) The American Mosaic • GER-SS
An exploration of multiculturalism in the United States examining various aspects of social identity including ethnicity, race, socioeconomic class, gender and sexuality. Current anthropological methods and approaches will be employed to enhance the understanding of diversity in U.S. American society.

ANTH 107 (5) Archaeology of Ancient Civilizations • GER-SS
A course on the archaeology of ancient civilizations. Students compare ancient civilizations of the New World and the Old World to investigate how complex societies differ, in structure and internal dynamics, from simpler societies. They address the issue of how and why complex societies arose in some areas and not in others, as well as why complex societies collapse.

ANTH 165 (2-5) Cross Cultural Studies – Participatory Research
A course designed for students who participate in experiential cross-cultural research abroad. Students examine host country's cultural values, social institutions, and significant contemporary issues facing that country. Students discuss social and cultural differences between U.S. American and host country's cultures.

ANTH 166 (2) Cross-Cultural Studies – Teaching from Experience
A course designed for International Students who participate in an international education program with K-12 instructors working in association with Pierce College. Students teach about home countries' values and customs in comparison with U.S. American culture.

ANTH 167 (2-5) Cross Cultural Studies – Life and Culture
A course designed for students who participate in study abroad programs. Students examine host country's cultural values, social institutions, and significant contemporary issues facing that country. Students discuss differences between U.S. American and host country's cultures.

ANTH& 204 (5) Archaeology • GER-SS/QS
Prereq: Completion of MATH 095 or 098 or equivalent with a grade of 2.0 or better or test recommendation at level above MATH 098
Introduction to archaeological method and theory.

ANTH& 205 (5) Biological Anthropology • GER-NS
The course examines human biological variation, taking into account the complex interaction of biology, physiology, environment and culture. Major topics include evolution, genetics, scientific classification, non-human primates, the fossil record and modern human variation.

ANTH& 206 (5) Cultural Anthropology • GER-SS
Course explores human behavior and belief across cultures. Major topics include the concept of culture, ethnographic research, and the cross-cultural examination of subsistence and economic systems, divergent social roles and identity, family systems, religious belief, and the impacts of colonialism, modernization and globalization.

ANTH& 210 (5) Indians of North America • GER-SS
Lifeways and cultures of North American Indians from prehistory until the present. The course is organized around the culture area concept, and could include the Northeast, Southeast, Southwest, Plains, Arctic, Subarctic, Plateau, Great Basin, California, and the Northwest Coast.

ANTH& 216 (5) Northwest Coast Indians • GER-SS
Exploration of the culture and lifeways of Indians of the Northwest Coast Culture Area, past and present.

ANTH& 236 (5) Forensic Anthropology • GER-NS
A course designed to familiarize students with the forensic analysis of human remains. Theoretical and hands-on analyses of human remains within a medicolegal context.

ANTH 240 (5) Women in Cross Cultural Perspectives • GER-SS
An introduction to the anthropology of gender. The course uses a global and comparative approach to explore the diversity of women's experiences and perspectives in relation to their bodies; in relation to men, children, and other women; and in relation to their culture and society.

■ ART (ART)

ART& 100 (5) Art Appreciation • GER-HM
A general introduction to a chronological look at the development of Western Art from cave painting to the end of the 20th Century. This class is for the non-art major and there are no prerequisites.

ART 101 (5) Design, Beginning • GER-HM/Performance
A studio laboratory course which presents the elements of design as sources for artistic invention. Lectures, demonstrations and studio work deal with line, edge, shape, area, texture and value as vital elements in creative design.

ART 102 (5) Design, Intermediate • GER-HM/Performance
Prereq: ART 101 or instructor permission
A studio laboratory course which presents the elements of design as sources for artistic invention. Lectures, demonstrations and studio work deal with line, edge, shape, area, texture, and value. Particular emphasis will be placed on color as an element of creative design.

ART 103 (5) Design, Advanced • GER-HM/Performance
A studio laboratory course which presents the elements of design as sources for artistic invention. Lectures, demonstrations and studio work deal with line, edge, shape, area, texture and value. Particular emphasis will be placed on color as an element of creative design.

ART 105 (5) Introduction to Art • GER-HM
A general introduction to the visual arts, designed to develop within the student an insight and comprehension of the actual work of art. Topics include perception, aesthetics, creativity, elements of design, principles of design, role of the media, and a general chronological survey of the visual arts are investigated.

ART 107 (5) Photography, Beginning • GER-HM/Performance
Prereq: Basic knowledge of computers and manually controlled digital camera required
Photography for the beginning student, covering aesthetic considerations and basic equipment operation and processing related to a digital camera.

ART 108 (5) Photography, Intermediate • GER-HM/Performance
Prereq: ART 107 or instructor permission and basic knowledge of computers and manually controlled digital camera required
Photography for the intermediate student, covering aesthetic considerations and basic equipment operation and processing related to a digital camera.

ART 109 (5) Photography, Advanced • GER-HM/Performance
Prereq: ART 108 or instructor permission and basic knowledge of computers and manually controlled digital camera required
Photography for the advanced student, covering aesthetic considerations and basic equipment operation and processing related to a digital camera.

ART 111 (5) Drawing, Beginning • GER-HM/Performance
An entry level drawing sequence course that provides a framework for addressing a variety of themes, materials, and techniques. This is an exploratory course that focuses on the observation and representation of three-dimensional form on a two-dimensional surface. Exercises and assignments will be explained through lecture, demonstration wirtten sequential instruction, and historical/contemporary examples.

ART 112 (5) Drawing, Intermediate • GER-HM/Performance
Prereq: ART 111 or instructor permission
A drawing sequence course to introduce the student to the various approaches to drawing. The investigation of a variety of concepts, media techniques and compositional considerations is employed to enable the student to gain as wide a knowledge of drawing as possible.

ART 113 (5) Drawing, Advanced • GER-HM/Performance
Prereq: ART 112 or instructor permission
This course builds upon the foundation of contemporary and classical approaches to drawing in artworks involving the figure. Students will acquire basic competence in structural studies including proportions, mass and basic surface anatomy. Curriculum will concentrate on realistically rendering specific features, mood and expression in portraiture.

ART 115 (5) 3-Dimensial Design • GER-HM/Performance
A non-computer hands on sculpture studio lab course that introduces the student to various approaches to construction three-dimensional forms.

ART 145 (5) History of Art – Contemporary • GER-HM
A concise history of contemporary painting, sculpture, drawings, printmaking, photography, and mixed media from modern foundations through post-modern styles and related issues.

ART 201 (5) Painting, Beginning • GER-HM/Performance
Prereq: ART 101, ART 111 or instructor permission
An introductory course exploring the fundamental concepts and techniques of painting with acrylic media. Assignments will be approached primarily through investigation of content, composition, color theory, paint mixing and aplication. This is a studio-laboratory course with intensive in-class experience supplemented by lectures, demonstrations, and critiques.

ART 202 (5) Painting, Intermediate • GER-HM/Performance
Prereq: ART 201 or instructor permission
An intermediate course expanding on the principles of representational painting, compositional aesthetics, and painting techniques. Students will develop heightened observational awareness and increased formal, technical and expressive skills. Emphasis will be fiven to independent problem solving and personal expression.

ART 203 (5) Painting, Advanced • GER-HM/Performance
Prereq: ART 202 or instructor permission
A studio-laboratory course designed to develop within the student the desire to explore, to experiment and to evaluate painting. Painting offers basic instruction in the use of oil and acrylic media. Emphasis will be given to individual needs and interests.

ART 204 (5) Watercolor, Beginning • GER-HM/Performance
A studio laboratory course that will explore the elements of a wide variety of watercolor techniques. Students will develop the ability to express themselves using various methods applicable to transparent and opaque watercolor approaches as sources for artistic invention. Pupils will aslo gain a historical overview of water soluble based media and explore an assortment of its applications in the visual arts.

ART 211 (5) Beginning Sculpture • GER-HM/Performance
A studio lab course that introduces students to materials, processes, and tools for the creation and consideration of sculptural design, with an emphasis on the use of non-hazardous and sustainable materials.

ART 243 (5) History of Art-Ancient World Through the Middle Ages • GER-HM
A consise chronological history of paintings, sculpture, drawings, and architecture from the dawn of recorded art to the gothic movement and related issues.

ART 244 (5) History of Art-Renaissance Through Rococo • GER-HM
A concise chronological history of paintings, sculpture, drawings, printmaking, and architecture form the early Renaissance of the 15th century to the Neoclassical style of the middle mark of the 19th century and related issues.

ART 245 (5) History of Art-The Modern World • GER-HM
A concise history of architecture, painting, sculpture, drawing, printmaking, photography, and mixed media from modern foundations through post-modern styles and related issues.

■ ASTRONOMY (ASTR)

ASTR& 100 (5) Survey of Astronomy • GER-NS
An introduction to the history of astronomy and to scientific inquiry including basic concepts in observational astronomy, the solar system, stars, galaxies, and the origin of the universe. This is a non-lab course.

ASTR& 101 (5) Introduction to Astronomy • GER-NS
The methods and goals of scientific inquiry developed within the study of the planets, stars, galaxies and the cosmos. A historical perspective with theory, laboratory exercises and direct observations. Lab included.

ASTR 105 (5) Survey of Astrobiology • GER-NS
An introductory course that examines the interdisciplinary field of astrobiology. General principles of astronomy, chemistry, biology and geology as applied toward the search for life on other planetary bodies. Special emphasis on current data acquisition from NASA and other sources. Lab included.

ASTR&110 (5) The Solar System • GER-NS
Methods and goals of scientific inquiry developed within the study of the solar system including the planets, Sun, moons, asteroids and comets. Includes historical perspective, theories, laboratory exercises and direct observations. Lab included.

ASTR& 115 (5) Stars, Galaxies and the Cosmos • GER-NS
Methods and goals of scientific inquiry developed within the study of outer space including the life and death of stars, galaxies and clusters of galaxies and cosmology including the Big Bang. Includes historical perspective, theories, laboratory exercises, and direct observations. Lab included.

■ ATMOSPHERIC SCIENCE (ATMOS)

ATMOS 101 (5) Introduction to Weather • GER-NS
A study of Earth's atmosphere including the major controls of weather and climate. Course discussions and labs will cover essential topics in meteorlogy including solar radiation, temperature, air pressure, wind, clouds, percipitation, and severe weather. Enviornmental issues including global climate chagne will aslo be discussed. Appropriate for non-scinece and science majors. Lab included.

■ BIOLOGY (BIOL)

BIOL& 100 (5) Survey of Biology • GER-NS
Emphasis on the study of cells, genetics, ecology, diversity of life and physiology in order to establish a foundation of understanding and respect of life. This course includes a laboratory.

BIOL& 160 (5) General Biology w/lab • GER-NS
Prereq: Eligible for MATH 098 and ENGL& 101. Completed CHEM& 100 with a 2.0 or CHEM& 139 or concurrently enrolled in CHEM& 121 or CHEM& 161 or beyond..
The science of life. Scientific methodology and evolution, ecological perspectives, cells, biotechnology, genetics, diversity of life, metabolism and life and reproduction. Lab included. For students preparing for allied health professions and for science majors.

BIOL& 170 (5) Human Biology • GER-NS
(formerly BIOL 118)
A comprehensive study of the human body, its structure and its function. A non-laboratory course appropriate for non-science majors or for students beginning study in life sciences.

BIOL& 175 (5) Human Biology w/Lab • GER-NS
(formerly BIOL 120)
A comprehensive study of the human body, tis structure and its function. A laboratory course appropriate for non-science majors or for students begging study in life sciences.

BIOL& 211 (6) Majors: Cellular • GER-NS
Prereq: CHEM& 139 and CHEM& 161 (which may be taken concurrently) and a grade of 3.0 or better in high school biology. BIOL& 160 with a grade of 2.0 or better is recommended.
Structure and function of living cells including metabolism, genetics, differentiation, and microevolution. For science majors. Laboratory included.

BIOL& 212 (5) Majors: Animals • GER-NS
Prereq: BIOL& 211, CHEM& 139 and CHEM& 161, which may be taken concurrently, and a grade of 3.0 in high school biology. BIOL& 160 with a grade of 2.0 or better is recommended.
Examination and comparisons of the major animal taxa with emphasis on development, physiology, anatomy, taxonomy, adaptations, and behavior. Examination and evidence for evolution. Laboratory and/or field excursions included.

BIOL& 213 (5) Majors: Plant • GER-NS
Prereq: BIOL& 212, CHEM& 139 and CHEM& 161 (which may be taken concurrently) and a grade of 3.0 or better in high school biology. BIOL& 160 with a grade of 2.0 recommended.
Examination and comparison of the major non-animal eukaryotic kingdoms and divisions with emphasis on development, physiology, anatomy, taxonomy, plant evolution and adaptations. Introduction to ecosystems, population and community ecology. Laboratory included.

BIOL& 241 (6) Human Anatomy and Physiology 1 • GER-NS
Prereq: BIOL& 160 with a grade of 2.0 or better and CHEM& 100 with a grade of 2.0 or better or instructor permission.
First course of a two-quarter study of body structure and related physiology on cellular through system levels. Includes an in-depth study of cells and tissues; integumentary, skeletal, muscular, nervous and sensory systems. Laboratory includes in-depth study of cell physiology; microscopy; histology; human bone and bone marking identification; basic dissection techniques; cat and human musculature; and nervous and sensory function tests.

BIOL& 242 (6) Human Anatomy and Physiology 2 • GER-NS
Prereq: BIOL& 241 or instructor permission
Second course of a two-quarter study of body structure and related physiology on cellular through system levels. Includes an in-depth study of body organization and physiological processes of cardiovascular lymphatic (includes immunology), respiratory, digestive (includes metabolism), excretory, reproductive and endocrine systems. Laboratory includes cardiovascular system of the cat and human, human hematology, urinalysis, immunology, respiratory, digestive (including chemistry) and reproductive systems.

BIOL& 260 (5) Microbiology • GER-NS
Prereq: BIOL& 160 and CHEM& 100 or instructor permission.
Diversity, structure, and physiology of beneficial and harmful microbes. Laboratory practice in identification of microbial species through culturing, staining and biochemical testing. Includes laboratory.

■ BUSINESS (BUS)

BUS& 101 (5) Introduction to Business • GER-SS
Basic background in general fields of business. An examination of the nature of for-profit and not-for-profit organizations in a free market economy. An overview of marketing, management, finance, production, economics, information systems and international commerce.

BUS 103 (3) Computational Mathematics
Prereq: MATH 051 or MATH 054, or placement into MATH 060
Covers fundamental math relationships, percentages, merchandising and banking procedures and the metric system. Students cannot receive credit for both BUS 103 and BUS 107.

BUS 105 (5) Business English I
Prereq: Grade of 2.0 or better in ENGL 098 or equivalent or placement recommendation of ENGL 099
A course designed to strengthen the student's writing skills through the study of grammar, sentence structure, paragraph development and punctuation. The student will enhance his/her business vocabulary while learning to compose clear and concise business documents.

BUS 106 (3) Business English II
Prereq: BUS 105 or ENGL& 101 with a grade of 2.0 or better
Further study and practice with the writing process to create effective business memoranda, letters and short reports. The student will continue to build a strong business vocabulary and fluency with punctuation rules.

BUS 107 (5) Business Mathematics
Prereq: MATH 051 or MATH 054 or placement in MATH 60.
Mathematics applications in banking, merchandising, inventory, depreciation and promissory notes. Introduction to simple statistics and the metric system. Students cannot receive credit for both BUS 107 and BUS 103.

BUS 125 (5) Introduction to Business
Offered through Extended Learning only
Prereq: GED or High School Completion
Basic background in general fields of business. An examination of the nature of for-profit and not-for-profit organizations in the free market economy. An overview of marketing, management, finance, production, economics, information systems and international commerce.

BUS 135 (5) Business, Marketing & the Internet
How organizations use Web media, including blogging, audio/video streaming, Wikis, RSS feeds, virtual worlds, and social networking to market products and services in a global economy.

BUS& 201 (5) Business Law • GER-SS
Introduction to the nature of law and the resolution of disputes in the court system, and overview of law typically relating to the operation of businesses from the perspectives of their owners, managers, employees, customers and suppliers; primary emphasis is on the law pertaining to various types of contracts.

BUS 215 (3) International Business Communication
Prereq: Grade of 2.0 or better in BUS 105 or ENGL& 101
Concentrates on widening the student's global perspective in oral and written communication. Focus is placed on the cultural aspects of communication with a wide scope of diverse groups through business letters, reports, email, and verbal communication.

BUS 240 (5) Human Relations in the Workplace
This course considers how the needs of business or other formal organizations interact with individual needs, leadership styles, formal organizational policies and procedures, and general cultural patterns to determine how human beings act in work situations.

BUS 245 (5) Global Business
Introduction and essentials for the student who is interested in pursuing the study of international trade and culture.

BUS 250 (5) Business Communications • GER-CM
Prereq: Grade of 2.0 or better in BUS 105 or ENGL& 101
Theory and practice in composing, evaluating, and analyzing written and oral business communications. Emphasizes effective writing of business letters and reports, the psychology of business writing, methods of research and oral reports.

BUS 279 (5) Personal Finance and Money Management
Offered through Military sites only
A practical course In managing personal finances. Course includes budgeting, home ownership, income tax, Investments, Insurance, wills and trusts.

■ BUSINESS INFORMATION TECHNOLOGY (BTECH)

BTECH 085 (2) Keyboarding for the Computer
Offered through Extended Learning only
Designed to teach the alphabet, symbol and number keys by touch to improve keyboarding speed and application.

BTECH 104 (3) Dvorak Keyboarding
Preq: Instructor permission only
Students will learn to key the alphabet and common punctuation by touch using one-handed keyboarding. Speed and accuracy will be developed through proper keyboarding technique and practice. These keyboarding skills will then be applied to create memorandums, business letters, and reports. Recommended for students with any physical disability that requires one-handed typing.

BTECH 111 (3) Keyboarding
Students work with a computer keyboard learning to key the alphabet by touch. Optimum speed and accuracy are encouraged through proper keyboarding technique and practice. These keyboarding skills are applied to create basic letters, memos and reports using word processing software.

BTECH 112 (2) Keyboard Skillbuilding I
Prereq: BTECH 111 with grade of 2.0 or better, or type by touch at 20 wpm or instructor permission
First of two courses emphasizing improved keyboarding technique in order to increase speed and accuracy through planned drill and practice exercises.

BTECH 113 (2) Keyboard Skillbuilding II
Prereq: BTECH 112 with grade of 2.0 or better
Second of two courses emphasizing improved keyboarding technique to continue building speed and accuracy through drill and practice.

BTECH 115 A-B (1) Business Keyboarding
Prereq: None for BTECH 115A. For BTECH 115B, BTECH 115A with grade of at least 2.0, or touch typing at 15 wmp, or instructor permission
Students use a computer keyboarding program to learn to keyboard by touch: (A) Key the Alphabet by Touch; (B) Key Number and Symbols by Touch.

BTECH 116 A-D (1) Keyboard Skill Development
Prereq: For BTECH 116A-BTECH 115A with grade of at least 2.0, or touch typing at 15 wpm, or instructor permission. For BTECH 116B-D – BTECH 116A with grade of at least 2.0 or touch typing at 20 wpm, or instructor permission
Four one-credit courses that assist students with continuous development of keyboard speed, accuracy and technique: (A) Alphabet and technique improvement; (B) Alphanumeric and technique improvement; (C) Alphanumeric improvement; and (D) Further alphanumeric improvement.

BTECH 117 A-B (1) Business Document Formatting
Prereq: For BTECH 117A, BTECH 115A with grade of at least 2.0 or touch typing at 20 wpm, or instructor permission. For BTECH 117B, BTECH 117A or instructor permission.
Use word processing software to create basic and advanced business documents: (A) Format Basic Business Documents; (B) Format Advanced Business Documents.

BTECH 118 A-C (1) PC Operating System
Prereq: BTECH 115 A and B with a grade of 2.0 or better or type by touch at 15 wpm or instructor permission
Operating system fundamentals for the PC. Topics include the following: (A) Navigating and Customizing the Operating System; (B) Managing Files and Using Help; and (C) Using the Internet and Basic Applications.

BTECH 120 (3) Introduction to Windows
Prereq: BTECH 111 or BTECH 115A & B with a grade of 2.0 or type by touch at 15 wpm or instructor permission
Fundamentals of using the Windows operating system. Topics include management of files, documents, and folders and use of the control panel to customize the computer and the Windows desktop.

BTECH 135 (3) Electronic 10-Key Calculator
BUS 107 or BUS 103 recommended.
Students learn to use the 10-key calculator to solve basic to more advanced business math problems. Students also use the computer's numeric keypad with an emphasis on speed and accuracy.

BTECH 145 (5) Records and Database Management
Prereq: BTECH 120, type by touch at 20 wpm or instructor permission
Principles and procedures for records management including storage and retrieval using manual and computer database systems. Includes alphabetic, subject, numeric and geographic storage methods and control of records.

BTECH 146 (2) Filing Review
Principles and procedures for manual storage and retrieval of records in business offices are reviewed in this course. Included are alphabetic, subject, numeric, and geographic filing systems.

BTECH 149 (2) Introduction to the Medical Office
An interpersonal networking course for medical office students including discussion, guest speakers, and assignments related to topics such as the medical environment, medical staff, medical ethics and law, and the healthcare-related job market.

BTECH 150 (5) Medical Terminology I
Fundamentals of medical terminology, including prefixes, suffixes, root words, and basic rules, upon which the student will build a medical vocabulary. Includes basic anatomy and physiology for the medical office worker.

BTECH 151 (5) Medical Terminology II
Prereq: Grade of 2.0 or better in BTECH 150
A continuation of BTECH 150 to build on the student's medical vocabulary by learning advanced terminology and body systems. Includes basic anatomy and physiology for the medical office worker.

BTECH 156 (3) Records Management
Prereq: BTECH 146 or instructor permission
Principles and practices for effective records management including storage, retrieval, the life cycle of a record, and overall control of records. Emphasis is placed on changes in the volume of information, the need for compliance to government regulations, and advances in technology.

BTECH 200 A-E (1) Microsoft Word
Prereq: For BTECH 200A -- BTECH 118A and B with grade of at least 2.0, touch typing at 25 wpm, instructor permission. For BTECH 200B-E – BTECH 200A or instructor permission.
Students can work through all levels of Microsoft Word features: (A) Prepare and Edit Documents; (B) Enhance and Customize Documents; (C) Create Tables and Merge Documents; (D) Use Macros and Styles; and (E) Prepare and Protect Shared Documents.

BTECH 201 (5) Professional Office Applications I
Prereq: Grade of 2.0 in BTECH 120, touch typing at 30 wpm, or instructor permission
Introduces student to essential features of word processing, spreadsheets and personal information management software. Word processing features include document and paragraph editing, text formatting, tabs and tables, use of graphics and insertion of headers/footers. Spreadsheet features include manipulation of worksheets, use of formulas, charts and enhanced formatting. Personal information management features may include e-mail, task, calendar and contact management.

BTECH 202 (5) Professional Office Applications II
Prereq: Grade of 2.0 in BTECH 120 , touch typing at 30 wpm or instructor permission
Introduces student to major features of database management and presentation software. Database program features. Includes the creation of tables, relationships, forms, queries and reports. The student will also build creative presentations with graphics and sound.

BTECH 203 (5) Professional Office Applications III
Prereq: Grade of 2.0 in BTECH 120, touch typing at 30 wpm or instructor permission
Enhances student's skill with advanced features of word processing, spreadsheet, database, and presentation software. Student will work with the integration of these applications in an online environment.

BTECH 205 (3) Office Procedures
Prereq: BTECH 200A, BTECH 210A and BTECH 111 or BTECH 115A, 115B and 117A or instructor permission
A course designed for students who wish to learn and practice necessary skills for employment in today's office. Students receive instruction in telephone communications, use of electronic information software, processing travel and meeting documents, time management, and use of personal productivity software.

BTECH 210 A-E (1) Microsoft Excel
Prereq: For BTECH 210A: BTECH 200A with at least a 2.0 or instructor permission. For BTECH 210B-E: BTECH 210A with at least a 2.0 or instructor permission.
Students can choose to work through one or more of these Excel features: (A) Prepare and Format Basic Worksheets; (B) Insert Formulas and Enhancements; (C) Create Charts and Diagrams; (D) Advanced Formatting and Functions; and (E) Interpret and Integrate Data.

BTECH 220 A-E (1) Microsoft Access
Prereq: For BTECH 220A: BTECH 200A with at least a 2.0, or instructor permission. For BTECH 220B-E: BTECH 220A with at least a 2.0, or instructor permission
Students can choose to work through one or more of these Access topics: (A) Create and Modify a Database; (B) Create Queries and Forms; (C) Create Reports, Charts and Web Pages; (D) Use Advanced Tables, Forms, Queries and Reports; and (E) Secure and Integrate Databases.

BTECH 225 A-C (1) Microsoft Powerpoint
Prereq: For BTECH 225A: BTECH 200A with at least a 2.0, or instructor permission. For BTECH 225B-C: BTECH 225A with at least a 2.0, or instructor permission
Students can choose to work through one or more of these PowerPoint topics: A) Create and Modify a PowerPoint Presentation; (B) Format and Add Visual Elements; and (C) Customize and Share a Presentation.

BTECH 226 A-C (1) Microsoft Outlook
Prereq: For BTECH 226A – BTECH 118A & B with grade of at least 2.0, touch typing at 25 wpm, instructor permission . For BTECH 226B-C – BTECH 226A or instructor permission.
Students can choose to work through one or more of these Outlook topics: (A) Using E-Mail and the Calendar; (B) Managing Tasks, Calendar and the Inbox; and (C) Customizing and Integrating Outlook.

BTECH 230 (5) Machine Transcription I
Prereq: Grade of 2.0 or better in BUS 105 and a word processing course, or instructor permission
Fundamentals of transcribing dictated letters, memos, and other documents using a computer and transcription equipment. Course provides an opportunity to apply business English skills along with formatting techniques and proofreading skills to produce "mailable" documents.

BTECH 231 (5) Machine Transcription II
Prereq: BTECH 230 with a grade of 2.0 or better
Further practice of advanced transcribing techniques with an emphasis on increased speed and accuracy in the production of business documents. Students will be expected to produce finished documents applying proper business English skills and formatting techniques.

BTECH 241 (5) Accounting Fundamentals
Fundamental theories and concepts of accounting. Emphasizes applications of accounting information to various career programs such as business management, accounting, computer information systems, and office professions.

BTECH 245 (3) Cooperative Work Experience I
Prereq: Permission from a Business Information Technology Instructor

Emphasis on relating the skills and attitudes learned in college to the workplace. Students complete a 130-hour internship, working part-time in an office setting related to their chosen Business Information Technology program(s). The students regularly discuss job-related issues.

BTECH 246 (3) Cooperative Work Experience II
Prereq: Completion or concurrent enrollment in BTECH 245
Emphasis continues from BTECH 245 on relating the skills and attitudes learned in college to the workplace. Students work in an office setting related to their chosen Business Information Technology program(s). The students regularly discuss job-related issues.

BTECH 248 (2) Business Information Technology Seminar 1
Prereq: Enrollment in a Business Information Technology program
Provides student with job search strategies, including preparation of resumes, cover letters, interviewing strategies, professional appearance, and telehone techniques.

BTECH 249 (2) Business Information Technology Seminar II
Prereq: Enrollment in a Business Information Technology program
A seminar course for students in the Business Information Technology program emphasizing human relations skills to include leadership, assertiveness, handling criticism, conflict resolution, office politics and diversity in the workplace.

BTECH 250 (5) Medical Forms and Referral Management
Prereq: Grade of 2.0 or better in BTECH 150, or instructor permission
Emphasis on the production of the many forms required for insurance billing, including: CMS-1500, UB-92, referrals and referral requests. Includes documentation guidelines and completion of medical claim forms for (including, but not limited to): Medicare, Medicaid, private insurance, Worker's Compensation, Labor and Industries.

BTECH 251 (5) Medical Transcription I
Prereq: Grades of 2.0 or better in BTECH 150 or instructor permission
This is a sequential course involving skills in word processing/machine transcription of medical records for health care facilities, including transcription of various types of medical reports, formatting of medical reports and use of medical references.

BTECH 252 (5) Medical Transcription II
Prereq: BTECH 251 with grade of 2.0 or better
A continuation of BTECH 251, this course will give students intensive practice in transcribing medical diction while encouraging students to meet progressively more demanding accuracy and productivity standards.

BTECH 253 (5) Medical Office Procedures
Prereq: Grade of 2.0 or better in BTECH 150, or instructor permission
Basic procedures in the medical office with emphasis on the role of the administrative medical office professional including records management, bookkeeping, billing, collection procedures, and health insurance billing.

BTECH 254 (5) CPT Coding (Current Procedural Terminology)
Prereq: Grade of 2.0 in BTECH 151
Basic procedural coding for medical office and hospital billing. Students will learn the American Medical Association's Current Procedural Terminology (CPT) coding system and how to legally and ethically apply the system to various healthcare settings.

BTECH 255 (5) ICD-9-CM Coding
Prereq: Grade of 2.0 in BTECH 151
Basic procedural coding for medical office and hospital billing. Students will learn entry-level ICD-9-CM International Classification of Diseases, 9th Revision, Clinical Modification coding for healthcare facilities.

BTECH 260 (5) Computer Applications for the Law Office
Prereq: BTECH 120, BTECH 201,or BTECH 200 A & B, or instructor permission
Tips and techniques for using software typically found in the law office. Students will learn to use templates, macros, and word processing features that are particularly applicable to the preparation of legal documents. Internet strategies, spreadsheets, litigation support, and time and billing computer applications are also taught.

BTECH 261 (5) Legal Theory I
Prereq: BTECH 201 or BTECH 200A, 200B, 210A, 210B, and 225A with a grade of 2.0 or instructor permission
Legal theory, vocabulary and forms used in preparation of estate planning documents, probate, adoption and guardianship pleadings.

BTECH 262 (5) Legal Theory II
Prereq: BTECH 261
A second course in a sequence focusing on terminology, procedures, theory and specialized document preparation relating to histroy of law and the America Judcial System, sources of law, court systems and pleadings in civil and criminal cases.

■ BUSINESS MANAGEMENT (MNGT)

MNGT 130 (5) Customer Relationship Management
Introduction to customer relationship management. Topics Include customer behavior, customer assessment, effective communication, serving the customer in a diverse environment, and developing and maintaining a relationship with customers.

MNGT 182 (5) Creative Sales
Survey of the multiple aspects of selling including understanding characteristics of the customer, buying motives, prospecting, approaching the customer, presenting/demonstrating the product, handling objections, closing the sale, and developing and maintaining a relationship with the customer.

MNGT 186 (5) Professional Development
Provided practical skills and techniques for entering the world of professional employment. Students will experience strategies for ongoing career planning as well as strategies to increase workplace effectiveness.

MNGT 187 (5) Career Communication Skills
Students will learn the essentials for professional communication through career skills strategies, oral presentations, individual projects and group exercises.

MNGT 188 (2) Career Success Skills for Leaders
Prereq: MNGT 186 & MNGT 187
Participants problem-solve workplace challenges while implementing individual and group success strategies.

MNGT 194 (5) Supervisory Training & Leadership Development
Principles and techniques of supervision, training and development of personnel. Topics include motivation, leadership, planning, organization and communication.

MNGT 198 (3) Work Based Learning
Students will pursue an organized career path plan by obtaining work experience in their chosen career field.

MNGT 275 (5) Introduction to Visual Promotion
Provides the student with a working knowledge of planning, creating and implementing visual promotion including advertising, print media, visual display and special promotions.

MNGT 276 (5) Employment Law
Overview of major common employment-related laws, workplace legal issues, statutory, and regulatory concepts governing the employment relationship, and development of skills supporting legal actions pertaining to that relationship.

MNGT 282 (5) Principles of Marketing
A study of the business activities concerned with the flow of goods and services from producers to consumers.

MNGT 283 (5) Principles of Supervision and Leadership
Principles and practices of management, supervision and leadership as applied to for-profit and not-for-profit organizations. Realistic case problems in business are used to help the student apply principles to contemporary management problems.

MNGT 284 (5) Small Business Planning
Planning and organizing a small business to include developing a preliminary business plan.

MNGT 293 (5) Retailing and Merchandising
Fundamentals of retail buying and the management of retail inventories. Topics are important for the contemporary store-level merchant who is responsible for space productivity, inventory turnover and profitability.

MNGT 295 (5) Human Resource Management
Principles, methods and procedures in human resource management including job analysis, description and classification, employee morale and motivation, labor turnover, selection and placement, rating and promotion and compensation in conjunction with current government regulations.

MNGT 296 (5) Current Trends in Human Resources
Prereq: MNGT 295
Explores current human resource issues including local, state and federal labor laws; effective recruitment and selection techniques using behaviorally-anchored structured interview format; training and development strategies using competency-based individual development plans; 360 – degree performance review; and how to write employee policy manuals and job descriptions.

■ CHEMISTRY (CHEM)

CHEM& 100 (5) Preparatory Chemistry • GER-NS
Introductory course in chemistry for students intending to take CHEM& 121 and 131. Discussion of basic chemical concepts including atomic structure, periodic properties, chemical bonding, and chemical nomenclature.

CHEM& 110 (5) Chemical Concepts with lab • GER-NS
The relationship of basic chemical concepts to issues in modern society will be discussed. Intended for non-science majors.

CHEM& 121 (5) Introduction to Chemistry • GER-NS
Prereq: CHEM& 100, high school chemistry or instructor permission. MATH 095 or 098 or concurrent enrollment and recommended for ENGL& 101 on placement tests.
An introduction to general chemistry for health professionals or as chemical background for further studies in chemistry. Topics covered include unit conversions, atomic structures, periodic properties, chemical bonds, basic stoichiometry, states of matter, solutions, equilibrium, acid/base chemistry and oxidation/reduction. Lab included.

CHEM& 131 (6) Introduction to Organic/Biochemistry • GER-NS
Prereq: CHEM& 121
Continuation of CHEM& 121. The course includes an introduction to organize functional groups and a study of carbohydrates, opitcal isomerism, lipids, proteins, enzymes, nucleic acids, and metabolism. Lab included.

CHEM& 139 (5) General Chemistry Prep• GER-NS,QS
Prereq: MATH 098 or equivalent with grade of 2.0 or better or placement test score above MATH 098.
Designed to introduce the science major student to mathematical and chemical principles needed for a successful experience in their science studies. Includes problem solving, graphs, calculator use, atomic structure, periodic properties, inorganic nomenclature, the mole, balancing equations and stoichiometry. Non-lab course.

CHEM& 161 (5) General Chemistry with lab I • GER-NS
Prereq: CHEM& 139 and MATH& 141 (which may be taken concurrently) or instructor permission
The first quarter of a three quarter sequence in general chemistry for science and engineering majors. The course covers measurements, significant figures, dimensional analysis, fundamentals of atomic structure, stoichiometry, reactions, gas laws, themochemistry, and an introduction to solutions. Lab included.

CHEM& 162 (5) General Chemistry with lab II • GER-NS
Prereq: CHEM& 161 or instructor permission
The second quarter of a three quarter sequence in general chemistry for science and engineering majors. The course covers bonding theory, molecular structures, states of matter, quantum theory, periodic properties, atomic structure, intermolecular forces and an introduction to the second law of thermodynamics. Lab included.

CHEM& 163 (5) General Chemistry with lab III • GER-NS
Prereq: CHEM& 162 or instructor permission
The last quarter of a three quarter sequence in general chemistry for science and engineering majors. The

course covers kinetics, equilibrium, oxidation/reduction reactions, acids and bases, slightly soluble salts, entropy and free energy and electrochemistry. Lab included.

CHEM& 261 (6) Organic Chemistry with lab I
Prereq: CHEM& 163 or equivalent with a grade of 2.0 or better or instructor permission
The first quarter of a three-quarter sequence in organic chemistry for university transfer, designed for science majors, pre-medical, pre-dental and other pre-professional curricula. Structure, nomenclature, physical properties, reactions and synthesis of the main types of organic compounds. Lab included.

CHEM& 262 (6) Organic Chemistry with lab II
Prereq: CHEM& 261 with a grade of 2.0 or better or instructor permission
The second quarter of a three-quarter sequence in organic chemistry for university transfer, designed for science majors, pre-medical, pre-dental and other pre-professional curricula. Further discussion of the properties and transformations of organic molecules. Lab included.

CHEM& 263 (6) Organic Chemistry with lab III
Prereq: CHEM& 262 with a grade of 2.0 or better or instructor permission
The third quarter of a three quarter sequence in organic chemistry for university transfer, science majors, pre-medical, pre-dental and other pre-professional curricula. Further discussion of the properties and transformations of organic molecules, including bio-molecules. Lab included.

■ COLLEGE SUCCESS (COLLG)

COLLG 101 (2) Listening Skills
Prereq: Completion of READ 075 or placement into READ 101 on compass test
Covers important listening skills for academic, business, and personal situations. Provides opportunities to improve listening skills through practice.

COLLG 104 (2) Study Techniques I
Prereq: Completion of READ 075 or placement into READ 101 on compass test
Designed to teach methods and processes for success in college and the workplace. Topics include learning style application, memory reading techniques and time management skills.

COLLG 105 (2) Study Techniques II
Prereq: Completion of READ 075 or placement into READ 101 on compass test
Introduces methods and processes for success in college and the workplace. Topics include note-taking, test-taking, communication, and thinking.

COLLG 106 (3) Study Techniques III
Prereq: Completion of READ 075 or placement into READ 101 on compass test
Teaches methods and processes for success in college and the workplace. Topics include diversity, finances, health, and career planning.

COLLG 107 (2) Study Skills for Math and Science
Interactive class designed to support development of personal and academic skills for success in math and science classes. Topics include dealing with math and science anxiety, self-awareness of preferred learning styles, confronting word problems, and making one's own study sessions more productive. Some sections may be program specific.

COLLG 110 (3) College Success
This course is designed to enhance student success and transition into college. It emphasizes self-assessment, goal-setting, effective study habits, campus resources and education planning. Additional topics include diversity, team building, academic honesty, career development and the use of online tools to aid in academic success.

COLLG 111 (5) TRIO College Success
Prereq: Permission of TRIO staff
Designed to introduce TRIO program students to the skills and tools needed to become a successful college student. Topics include team building and problem solving, study skills, understanding the higher education system, career exploration, budget and time management, and online learning styles, communication skills (oral, written, electronic), and self awareness. Student cannot receive credit for both COLLG 110 and 111 toward degree requirements.

COLLG 112 (2) College Transfer Planning
Prereq: COLLG 110 or COLLG 111
Interactive capstone course designed for students who have already taken COLLG 110 or COLLG 111, to support development of personal and academic skills required for success at a four-year school. Topics include networking, mentoring, overcoming personal life challenges, expanding and expounding on a previous exploration in self awareness and values clarification, and personal preparation for transition to a four-year college.

COLLG 120 (2) Overcoming Math Anxiety
Designed to teach methods and processes for success in college. Topics include how the brain learns, learning styles, development of an awareness of math abilities and math anxieties and how to deal with those, self-care, and study techniques.

■ COMMUNICATION STUDIES (CMST)

CMST& 101 (5) Introduction to Communication • GER-HM
An investigation into communication theory including verbal and non-verbal communication. Communication barriers and processes will be studied. The student will also make presentations before the class.

CMST& 102 (5) Introduction to Mass Media • GER-HM
An analysis of structure, trends and the technology of American mass media industries, including print media, and how they impact individuals, shape society and influence culture.

CMST 105 (5) Intercultural Communication • GER-HM
The examination of the effects of culture upon the process of communication. Using theory and skill development, students are prepared to communicate effectively both within and across cultures. The course gives students the opportunity to analyze their own, and others – intercultural communication through experiential and interviewing formats. The course emphasis includes the influence of culture on non-verbal communication, language, perception, intercultural relationship development and conflict management.

CMST& 220 (5) Public Speaking • GER-HM
A beginning course in public speaking that emphasizes speech organization, audience analysis, organization and delivery. Frequent presentations will be made before the class in which the student will be given the opportunity to explore his/her speaking capabilities.

CMST& 230 (5) Small Group Communication • GER-HM
Understanding the principles and processes of oral communication within groups. The course uses theory with practice in participating in group presentations and meetings. The course will examine group presentation skills, group problem solving, listening, leadership, conflict management, group role and group development. The focus is to prepare the student for effective group communications at work, socially and in the community.

■ COMPUTER (CMPTR)

CMPTR 104 (1) Beginning Keyboarding
Course only offered through the PierceWorks program.
Develop touch control of the alphabetic keyboard and demonstrate proper keyboarding techniques.

CMPTR 108 (1) PowerPoint, Beginning
Create and enhance professional presentations, including slide layouts, formatting, graphics, transitions and animation.

CMPTR 111 (1) Microsoft Excel, Beginning
Learn to create, modify, save and print worksheets; create formulas; move and copy data; format cells, columns and the worksheet appearance.

CMPTR 112 (1) Microsoft Excel, Intermediate
Prereq: Microsoft Excel Beginning or instructor permission.
Learn to create, modify charts and graphs, use outlining and subtotals, add graphics and use drawing tools, sort information, use documenting and auditing features.

CMPTR 115 (1) Microsoft Word, Beginning
Create, edit, save and print documents using Microsoft Word; apply character, paragraph and page formatting; set and modify tabs; create tables; use proofing tools.

CMPTR 116 (1) Microsoft Word, Intermediate
Prereq: Microsoft Word Beginning or instructor permission.
Create columns, sections, and tables; merge documents and data sources; use styles and templates.

CMPTR 131 (1) Introduction to Personal Computers
Introduction to personal computer terminology, hardware components and software; hands-on practice using the Windows operating system; word processing; spreadsheets; Internet browser software.

CMPTR 137 (1) Introduction to Windows
Learn to navigate within the Windows environment; customize the desktop; locate, create, and save files and file folders; share data between applications; use control panel to change properties and settings.

■ COMPUTER INFORMATION SYSTEMS (CIS)

CIS 103 (2) Online Learning: Getting Started
Prereq: Regular access to the Internet; familiarity with Web and E-mail
Through an introductory online experience, the student will learn about how online courses work and the personal preparation required for successful learning online. Topics covered include technical preparation, navigating the online course environment, online relationships, and how online learning differs from face-to-face instruction. The class will help students identify when and how online learning is best incorporated in to their educational activities.

CIS 110 (3) Introduction to Microcomputer Business Applications
An abbreviated version of CIS 121 designed specifically for non-CIS/DDSGN majors. Introduction to the fundamentals of a computer, including the information processing cycle. Survey of computer technology, computer nomenclature, and the use of computers as productivity tools. Lab assignments using current microcomputer-based application programs allow the student to interact with computer technology, hardware and Internet.

CIS 121 (5) Introduction to Computer Information Systems
Introduction to the fundamentals of a computer, including the information processing cycle. Survey of computer technology, computer nomenclature, and the use of computers as productivity tools. Students will develop an understanding of personal computers and emphasize their use as both stand-alone and networked systems. Current microcomputer-based application programs and higher-level programming language exercises and lab assignments allow each student to interact with computer technology, hardware, Internet and concepts of common application programs.

CIS 122 (5) Structured Program Design
Prereq: CIS 121and MATH 098 with a 2.0 or above or instructor permission
Introduction to the concepts of computer program analysis, design, and development using modern structured programming methodologies and techniques. Involves structure charts, pseudocode, and flowcharts. Common computer program techniques of documentation, testing and validation, and implementation using the systems development life cycle (SDLC) model, and lab assignments to allow the student to interact with computer technology, hardware and concepts.

CIS 123 (5) Introduction to Object Oriented Programming (OOP)
Prereq: CIS 122 or instructor permission
Introduction to Object Oriented Programming (OOP). Application of the concepts of inheritance, polymorphism, interfaces and abstract classes. Addresses classes, objects and methods utilizing top down design, model-view-controller, and other maintainability/modularization/and reusability techniques. Techniques for effective program coding; testing and establishing error handling techniques.

CIS 130 (5) Microcomputer Applications
Prereq: CIS 110 or 121 each with a grade of at least 2.0 or instructor permission
Learn four of the most popular software applications used for word processing, spreadsheet, database management and presentation purposes.

CIS 134 (5) Computer Operating Systems
Prereq: CIS 121 with a 2.0 grade or better or instructor permission
Introduction to the function and use of command line and graphical user interface (GUI)-based computer operating systems. A combination of classroom discussion and hands-on lab exercises provides practical knowledge and experience in various operating system features.

CIS 136 (3) Spreadsheet Applications
The fundamental concepts of spreadsheets (electronic worksheets). Topics will include creation and manipulation of spreadsheets, conversion to charts and graphs, and creation of macros.

CIS 140 (5) Help Desk Practices and Procedures
Prereq: CIS 130, CIS 134 and CIS 150 all with a grade of at least 2.0 or instructor permission
Introduction to technical support practices and procedures. Discussion of the difference in the levels and roles of technical support, technical support organization and structure, user support services including individual and group training, and liability of support services. Learn escalation and forwarding of customer support requests for services, report processing, and automated help desk tools. Addresses implementation of hardware and software accommodations and accommodation strategies. Includes practices with technical support laboratory.

CIS 150 (5) Computer Installation and Troubleshooting
Prereq: Instructor permission only
An introduction to the installation and interfacing of computer hardware and software including a variety of computer components. Troubleshooting and correction of problems encountered in computer operation of both hardware and software.

CIS 155 (3 or 5) Special Topics in Information Systems Technology
Prereq: Instructor permission only
Detailed coverage of a selected computer topic of current interest. Sample topics may include computer languages, hardware and software development strategies.

CIS 185 (5) Visual Basic Programming
Prereq: CIS 122 with a grade of at least a 2.0 or instructor permission
Addresses Dot Net objects using unified modeling language; classes and applying objects within an assembly; web services concepts and Active Server Pages; complex window forms to interface within desktop applications using controls and events including menu and keyboard handling; Window Forms that access data from various back end databases and program threads.

CIS 230 (5) Network Operating Systems
Prereq: CIS 265 with a 2.0 grade or better or instructor permission
Implementation of the network operating system environment. Analysis of protocols and sub protocols in workgroup and server-based topologies with emphasis on features, advantages, disadvantages and security. Addresses architecture, implementation, installation and maintenance of network operating system using UNIX/Linux. Practical application in a network laboratory.

CIS 265 (5) Data Communications and Networks
Prereq: CIS 134 with a grade of at least 2.0 or instructor permission
An introduction to data communication and network terminology, operating concepts, network design, hardware and software. Reviews the Open System Interconnection (OSI) model as well as other major data communication models and the various specifications and standards for data communications hardware and software. Addresses the advantages and disadvantages of various network systems and their availability, flexibility and performance. Participate in the design of a data communications network.

CIS 266 (5) Local Area Networks
Prereq: CIS 265 with a grade of at least 2.0 or instructor permission
Implementation of workgroup-based hardware and software components of Local Area Networks (LAN) systems. Covers installation and configuration of workstation, client operating system software and network hardware including media, topologies, access methods, and protocols. Reviews present and future LAN trends, alternatives, security, and planning strategies and LAN management considerations. Includes examination of LAN interconnection using bridges, routers, switches, and gateways as well as LAN segmentation, VLAN, and subnetting. Practical application in a network laboratory.

CIS 267 (5) Network Administration Practices and Procedures
Prereq: CIS 230 and CIS 266, each with a grade of at least 2.0 or instructor permission
Practices and procedures for installing and administering a network operating system software for a server-based centrally administered Local Area Network (LAN). Script generation, user/group security configuration/privileges, back-up and recovery operations, network resource allocation and control, troubleshooting, failure recovery, fault tolerance covered. Practical application in a tolerance covered. Practical application in a network laboratory.

CIS 269 (5) Advanced SQL Programming and Tuning
Prereq; CIS 260 , may be taken concurrently or instructor permission
An advanced course in Structure Query Language (SQL). Develop script files, stored procedures, and PL/SQL units. Diagnose and tune for performance problems.

CIS 270 (5) C Programming Language
Prereq: CIS 122 with a grade of at least 2.0 of rinstructor permission
An introduction to C Programming Language including its development history and philosophy. Emphasis on programming.

CIS 271 (5) Introduction to C++
Prereq; CIS 122 and 270, MATH 098 with grade of 2.0 or better, or instructor permission.
An introduction to the C++ programming language; problem-solving and programming techniques; syntax and semantics through arrays, text files; and programming projects to include its development history and philosophy. Emphasis on programming.

CIS 272 (5) Advanced C++ Programming
Prereq; CIS 271 and MATH 098 with grade of 2.0 or better, or instructor permission.
Advanced C++ programming language, problem-solving and programming techniques; syntax and semantics through arrays, text files; and programming projects to include its development history and philosophy. Emphasis on programming.

CIS 285 (5) Advanced Visual Basic
Prereq: CIS 122 and CIS 185
An advanced course In the Visual Basic programming language. Develop Windows software within the systems development life cycle (SDLC) methodology. Covers arrays and controls, SQL, ActiveX controls, DLLs, data validation, animation, error-trapping, reporting, and security Issues.

CIS 290 (5) Supervised Internship
Prereq: CNE majors only
Capstone course allows the student to gain relevant experience working in a local business environment. Requires 250 hours of supervised work including associated resume preparation, job interviews, and internship documentation.

■ COMPUTER NETWORK ENGINEERING (CNE)

CNE 231 (5) Implementing Windows Client Operating System
This course is to provide individuals who are new to Microsoft Windows client operating system with the knowledge necessary to understand and identify the tasks involved in supporting Windows server products. This is an introductory course designed to provide an overview of networking concepts and how they are implemented in a Windows-based environment.

CNE 232 (5) Managing and Maintaining a Microsoft Windows Server
Prereq; CNE 231 with a grade of at least 2.0 or instructor permission
Install and configure Windows on stand-alone and client computers in a workgroup or domain. Install and configure Windows Server to create File, Print, Web and Terminal servers.

CNE 233 (5) Maintaining a Microsoft Windows Server Environment
Prereq: CNE 232 with a 2.0 grade or better
Performance-based course designed around the job-related tasks a support professional must perform in order to be proficient in a Microsoft networked server environment. Emphasis is based on remote connectivity and client-based services.

CNE 234 (5) Implementing a Microsoft Windows Server Network Infrastructure
Prereq: CNE 233 with a 2.0 grade or better
Professional support class for installation, configuration, management and support of a network infrastructure using Microsoft Windows Server products.

CNE 235 (5) Implementing and Maintaining Microsoft Windows Server Network Infrastructure: Network Services
Prereq: CNE 232 with a grade of at least 2.0 or instructor permission
Professional support class for installation, configuration, management and support of a network services using Microsoft Windows Server products.

CNE 236 (5) Planning and Maintaining a Windows Server Network Infrastructure
Prereq: CNE 233 with a 2.0 grade or better
Design a Microsoft Windows Server network infrastructure that supports required network applications. Solutions based on Dynamic Host Configuration Protocol (DHCP), Open Shortest Path First (OSPF), Routing Information Protocol (RIP), and Internet Group Management Protocol (IGMP) will be contrasted and evaluated for applicability.

CNE 237 (5) Planning, Implementing and Maintaining a Microsoft Server Active Directory Infrastructure
Prereq: CNE 232 with a grade of 2.0 or better or instructor permission
Install, configure, and administer Windows Active Directory services. Course also focuses on implementing Group Policy and performing those

Group Policy-related tasks that are required to centrally manage users and computers.

CNE 238 (5) Designing Security for a Windows Network
Prereq: CNE 232with a 2.0 grade or better or instructor permission
Design a security framework for small, medium, and enterprise networks by using Microsoft Windows technologies. Secure the specific areas of: Local Network Users; Remote Users and Offices; Private and Public Networks; and Partner Organizations.

CNE 240 (5) Computer Hardware Troubleshooting
Prereq: CIS 150 recommended with a grade of 2.0 or better
An introduction to the installation and interfacing of hardware including storage, and peripheral devices including multimedia, memory, and video. Troubleshooting and conflict resolution/correction of problems in computer operation relating to hardware components will be included.

CNE 245 (5) Computer Software Troubleshooting
Prereq: CNE 230 with a grade of at least 2.0; CIS 150 recommended
Training in the installation and interfacing of software including operating systems, application programs, diagnostics, memory, and computer environmental controls. Software troubleshooting and conflict resolution/correction of problems in computer operation relating to software components will be included.

CNE 246 (5) Windows Server Applications Infrastructure
This course teaches the student the skills and knowledge necessary to design, plan and configure Windows Server Applications.

CNE 247 (5) Windows Server Enterprise Administration
Prereq: CNE 232 with a 2.0 grade or better or instructor permission
This course teaches the student the skills and knowledge necessary to design, plan and administer an enterprise-wide Microsoft Windows Server Infrasturcture.

CNE 251 (5) Unix Administration
Prereq: CIS 265 with a 2.0 grade or better or instructor permission
Training in management and administration of networks to address the issues of security, procedures and documentation, user support, printing and file server organization. Includes administrative tools necessary to setup, manage and use basic network services including security and E-mail.

CNE 253 (5) Deploying and Managing Microsoft Internet Security and Acceleration Server
Prereq: CNE 232 with a 2.0 grade or better or instructor permission
Provides Information Technology students with the knowledge and skills to deploy and manage Microsoft Internet Security and Acceleration (ISA) Server in an enterprise environment.

CNE 254 (5) Fundamentals of Network Security
Provides students with the knowledge and skills to begin supporting network security within an organization. Students who complete this course will be able to identify security threats and vulnerabilities, and help respond to and recover from security incidents.

CNE 256 (5) Unix Advanced Administration
Prereq: CNE 251 with a 2.0 grade or better or instructor permission
Training in advanced administration skills such as tuning the network and server for better performance and managing complex tree structures. Instruction on how to oversee a complex Unix networking environment, including Unix File System partitiong and replication, time synchronization strategies and integrating with prior NOS versions.

CNE 261 (5) Unix Installation and Configuration
Prereq: CNE 256 with a 2.0 grade or better or instructor permission
Install and configure a Unix network, focusing on Unix File System (UFS) configuration. Includes scenarios for upgrading, migrating, and installing to implement a different design of the NFS tree structure.

CNE 266 (3) UFS Design and Implementation
Prereq: CNE 261 with a 2.0 grade or better or instructor permission
Create and complete a Unix File System (UFS) design strategy and implementation schedule using templates which can be transferred to the workplace. Course will identify critical factors and expectations for designing a Unix network; to include determining pre-optimization and clean-up strategies for implementation.

CNE 284 (5) Unix Service and Support
Prereq: CNE 266 with a 2.0 grade or better or instructor permission
Focus on the prevention, diagnosis, and resolution of hardware-related problems which are common to computer networks utilizing the Unix network operating system. Teaches practical skills to allow optimization of hardware resources in relation to Unix networking products.

CNE 290 (5) Supervised Internship
Prereq: CNE majors only
Supervised work experience of 25 hours per week in a network support environment (250 hours).

■ COMPUTER SCIENCE (CS)

CS& 131(5) Computer Science I – C++ • GER-QS, NS
Prereq: CIS 122 and MATH 098 or equivalent with a grade of 2.0 or better (or placement test score above Math 098) or instructor permission
An introduction to computer science using a high level language; problem solving and programming techniques; syntax and semantics through arrays, text files; programming projects (ACM CSI).

CS& 141 (5) Computer Science I – JAVA • GER-QS, NS
Prereq: CIS 122 and MATH 098 or equivalent with a grade of 2.0 or better (or placement test score above Math 098) or instructor permission
An introduction to computer science using a high level language; problem solving and programming techniques; syntax and semantics through arrays, text files; programming projects (ACM CSI).

■ CONSTRUCTION MANAGEMENT (CONST)

CONST 101 (5) Introduction to Construction Industry
Pre-req: minimum (concurrent enrollment is allowed) ENGL 099 with a grade of 2.0 or better or placement into ENGL& 101, MATH 060 with a grade of 2.0 or better or placement into MATH 098, Computer Skills - Microsoft Word and Excel Skills or completion of BTECH 200A, B and BTECH 210A, B and D. Preferred pre-req: ENGL& 101 with a grade of 2.0 or better and MATH 098 with a grade of 2.0 or better or instrutor permission.
Construction processes are introduced, including industry terminology, business practices, estimating/bidding, scheduling, project management, field operations, and career pathways.

CONST 140 (5) Blue Print Reading
Pre-req: minimum (concurrent enrollment is allowed) ENGL 099 with a grade of 2.0 or better or placement into ENGL& 101, MATH 060 with a grade of 2.0 or better or placement into MATH 098, Computer Skills - Microsoft Word and Excel Skills or completion of BTECH 200A, B and BTECH 210A, B and D. Preferred pre-req: ENGL& 101 with a grade of 2.0 or better and MATH 098 with a grade of 2.0 or better.
Introduction to construction drawings with emphasis on reading, interpreting and communicating the content of the documents.

CONST 150 (5) Construction Documents
Pre-req: CONST 101 and CONST 140 with a grade of 2.0 or better or instructor permission
Construction documents and their use as a tool to manage the construction process.

CONST 160 (5) Materials and Methods
Pre-req: CONST 101 and CONST 140 with a grade of 2.0 or better or instructor permission
The technical aspects of construction systems, including the procedures and methods for masonry, steel, wood and concrete construction. Recent trends in construction materials are also covered.

CONST 180 (5) Building Codes
A study of the application and administration of electrical, plumbing and mechanical codes in the construction industry.

CONST 198 (3) Work-Based Learning
Prereq: enrollment in the Construction Management program and instructor permission
Participants will pursue an organized career path plan by obtaining construction management work experience in their chosen area of interest.

CONST 200 (5) Estimating
Prereq: CONST 101, CONST 140, CONST 150, CONST 160, CONST 180 with a 2.0 or better or instructor permission
A comprehensive introduction to construction estimating and bidding, including basic concepts, procedures, terminology and pricing techniques. Covers work issues and costs connected with the major components of a construction projects.

CONST 230 (5) Scheduling
Prereq: CONST 200
Principles of scheduling to control and manage a construction project. Critical path planning techniques by determining durations of individual project activities and their sequence relationships to each other. Resource and cash flow analysis schedule loading. Use of scheduling software.

CONST 250 (3) Safety and Accident Prevention
Construction industry standards for accident prevention, hazard identification, and compliance responsibility are emphasized in conjunction with an overview of Occupational Safety and Health Act and other related federal and state legislative requirements.

CONST 260 (5) Project Management Start to Finish
Prereq: CONST 230
Project organization, documentation, and control methods utilized to manage all facets of a project from start to completion.

■ COOPERATIVE EDUCATION (COOP)

COOP 150-153 (1-8) Cooperative Education
Prereq: Currently employed and concurrent enrollment In COOP 160-163
A work based learning experience incorporating an educational component as it relates to the individual student work experience.

COOP 160-163 (1) Seminar: Cooperative Education
Prereq: Currently employed and concurrent enrollment In COOP 150-153
A work based learning seminar that enhances the work experience by presenting appropriate solutions to job related issues.

■ CRIMINAL JUSTICE (CJ)

CJ 102 (5) Introduction to Criminal Law
Basic introduction to the elements of criminal law and justice in the United States.

CJ 103 (1) Criminal Justice: Introduction to ACJ
Pre-req: Criminal Justice Program student
An introduction to the elements needed to be successful in the two year and certificate(s) programs at Pierce College. This course will prepare students for the intricacies of Pierce College and prepare them for their culminating portfolio project.

CJ 112 (5) Criminal Justice in America • GER-SS
An examination of the Criminal Justice system with specific emphasis to the theories and principles of criminoloy; programs, issues, trends relating to criminal justice system; structures, functions, actors of the U.S. state and federal cours; and the impact of state and federal legislation.

CJ 115 (5) Juvenile Justice
A critical examination of the agencies and decision-makers responsible for controlling juvenile crime and delinquency; the decisions they make and their impact upon crime, juveniles and the community.

CJ 120 (5) Constitutional Rights
An examination of the evolution and current judical interpretation of the first, second, fourth, fifth, sixth, eight, and fourteenth Amendments to the United States Constitution. Compare and contrast the basic principles and theoretical foundations of Constitutional Law versus Restorative Justice.

CJ 126 (2) Community Partnership Program
This course provides an opportunity for a local criminal justice agency to provide specific information about the historical background of the agency and employment practices to include mock or specific employment exams. This course will assist students in understanding specific practices and determine if this type of work in the Criminal Justice System reflects their needs.

CJ 129 (1) Applied Correctional Wellness
Prereq: Must be enrolled in the Correction/ Protections Officer Careers in Corrections Program
An introductory course designed to build the physical requirements for work in correctional facilities through the application of personal wellness plans.

CJ 130 (5) Criminal Justice Operational Skills
Prereq: CJ 112 or instructor permission
Identification of practical applications for solutions to frequently criminal justice tasks and problems. Emphasizes use of information gathering, communications, problem solving, and decision-making skills.

CJ 140 (5) Corrections in America
A study of the theories and practices in the correctional field in the United States. Surveys programs, issues, trends relating to the corrections field, including state and federal legislation and employment prospects.

CJ 144 (5) Corrections Special Population and Case Management
An examination of specific correctional populations, their impact on the correctional systems, and current correctional case management practices, theories, public policies, strategies and techniques.

CJ 150 (5) Policing in America
An examination of the history and roles of the police and the social, political, organizational, and legal environment within which the police perform those roles in modern United States of America.

CJ 200 (5) Crime and Justice in America: Issues
Prereq: ENGL& 101
A seminar approach to contemporary issues and theories relating to society's response to crime and criminals (the Criminal Justice System) through discussion of major issues in crinimal and constitutional law, criminal justice policy, societal values, and legal procedure.

CJ 202 (5) Concepts of Criminal Law
An analysis of the fundamental concepts of both the English Common Law and modern statutory criminal law and defenses. Scope and nature of law; classification of offense; act and intent; and elements of major criminal statutes.

CJ 205 (5) Investigative Technology
The use of technical equipment and scientific methods to assist in crime detection.

CJ 215 (5) Drugs and Society
An examination of drug use in the United States and drug traffic and their impact(s) upon the individuals and society.

CJ 220-223 (2-5) Special Topics in Criminal Justice
A critical examination of the written materials and practical applications relevant to current/critical issues in Criminal Justice and their impact on the criminal justice system and society. The specific topic(s) vary from quarter to quarter.

CJ 224 (5) Victimology and Advocacy
An overview of current victim issues, laws, resources, treatments, recovery and advocacy for victims of crime and other social problems

CJ 226 (5) CJ Response to Terrorism
A course designed to familiarize students with the basics of terrorism, the history, laws and recent issues and criminal justice responses to terrorism in the 21st Century.

CJ 227 (5) Funding & Program Development for Crime Prevention
A course designed to familiarize students with the basics of the grant funding process for social programs (state & federal), and how to develop a prevention idea into a program that can be funded and measured.

CJ 245 (5) Introduction to Investigation and Evidence
Prereq: CJ 112
A survey of basic investigative methods and the rules controlling the admissibility of evidence in the criminal courts.

CJ 250-255 (3-8) Criminal Justice Work Based Learning
Prereq: Program Coordinator/Instructor Approval Required
On the job experience in a criminal justice agency that allows students to apply first hand criminal justice theories to practice.

CJ 260 (5) Law Enforcement Operational Skills: Explorer Cadet
Prereq: Must be sponsored by an accredited Law Enforcement Agency and approved by the Criminal Justice Program Coordinator. NCIC/WASIC checks required.
A course designed to familiarize students with operational procedures, expectations and competencies of local law enforcement agencies through participation in an approved Law Enforcement Explorer/Cadet program.

CJ 261(10) Law Enforcement Operational Skills: Reserve
Prereq: Must be sponsored by an accredited Law Enforcement Agency and approved by the Criminal Justice Program Coordinator. NCIC/WASIC checks required.
A course designed to familiarize students with operational procedures, expectations and competencies needed to obtain "Reserve" status through participation and successful completion participation of an approved Law Enforcement Reserve academy/program.

CJ 262(10) Law Enforcement Operational Skills: Officer
Prereq: Must be sponsored by an accredited Law Enforcement Agency and approved by the Criminal Justice Program Coordinator. NCIC/WASIC checks required.
Practical application of knowledge skills, and abilities necessary to serve effectively as an entry level "Law Enforcement Officer. "Law Enforcement Agency sponsorship and Criminal Justice.

CJ 280 (1) Criminal Justice Culminating Project
Prereq: Must have taken or currently completing all core CJ courses prior to this course. Successful completion of BTECH 225a or proficiency in PowerPoint demonstrated prior to registration. Instructor permission is required.
Students will complete and deliver to college and industry personnel their culminating portfolio project which demonstrates student learning of all outcomes (FAK, PTO and COA) for all specified Criminal Justice Degree(s) or Certificate(s).

■ DENTAL HYGIENE (DHYG)

DHYG 102 (3) Dental Imaging I
Prereq: Enrollment in Dental Hygiene Program
A basic course in dental radiology which includes the production and processing of x-rays, the study of biological effects, and the application of clinical radiographic techniques.

DHYG 103 (2) Preventive Dentistry I
Prereq: Enrollment in Dental Hygiene Program
Study of the basic principles of dental deposits, dental diseases, prevention, plaque control, and motivation techniques.

DHYG 104 (3) Biological Structures I
Prereq: Enrollment in Dental Hygiene Program
This course provides a comprehensive study of the anatomy, embryology, and histology of the tissues and structures on the head and neck relevant to the practice of dental hygiene.

DHYG 106 (1) Medical Emergencies in Dental Practice
Prereq: Enrollment in Dental Hygiene Program
The prevention, diagnosis and treatment of medical emergencies in the dental office setting.

DHYG 107 (2) Fundamentals of Restorative Dentistry I
Prereq: Enrollment in Dental Hygiene Program
First in a series of seven courses, Fundamentals of Restorative Dentistry I, II, III, IV, V, VI and VII, facilitating the growth of introductory dental assisting skills and addressing the basic physical and mechanical properties of dental materials.

DHYG 108 (3) Fundamentals of Dental Hygiene I
Prereq: Enrollment in Dental Hygiene Program
First in a series of seven courses, Fundamentals of Dental Hygiene I, II, III, IV, V, VI, and VII, to develop knowledge and comprehension of introductory or beginning dental hygiene theory and practice.

DHYG 109 (4) Dental Hygiene Practice I
Prereq: Enrollment in Dental Hygiene Program and successful completion of DHYG 108
First in a series of seven courses, Dental Hygiene Practice I, II, III, IV, V, VI, and VII, facilitating the growth of introductory clinical skills required for the safe and effective practice of dental hygiene. This course links with the content and skills in DHYG 108.

DHYG 112 (2) Dental Imaging II
Prereq: Enrollment in Dental Hygiene Program and successful completion of DHYG 102
Emphasis is placed on extraoral radiographs, extraoral and intraoral digital photography, and digital radiography and radiographic interpretation with clinical applications.

DHYG 113 (1) Preventive Dentistry II
Prereq: Enrollment in Dental Hygiene Program and successful completion of DHYG 103
Study in the basic principles of dental deposits, dental diseases and their prevention, basics of plaque control, and motivation techniques.

DHYG 114 (2) Biological Structures II
Prereq: Enrollment in Dental Hygiene Program and successful completion of DHYG 104
Builds on the foundation of DHYG 104 by expanding the knowledge base in the anatomy, embryology, and histology of the head and neck. Focus will be on fetal development relevant to dentally related structures and the tissues of the dentition.

DHYG 115 (2) General Pathology
Prereq: Enrollment in Dental Hygiene Program
An introduction to the mechanisms of diseases and the recognition of characteristics of diseases encountered in the practice of dental hygiene.

DHYG 117 (2) Fundamentals of Restorative Dentistry II
Prereq: Enrollment in Dental Hygiene Program and successful completion of DHYG 107
Second in a series of seven courses, Fundamentals of Restorative Dentistry I-VII, facilitating the growth of developing dental assisting skills and beginning skills in the manipulation and placement of dental amalgam restorations on the adult dentition in a pre-clinical setting.

DHYG 118 (2) Fundamentals of Dental Hygiene II
Prereq: Enrollment in Dental Hygiene Program and successful completion of DHYG 108
Second in a series of seven courses, Fundamentals of Dental Hygiene I - VII, to further develop knowledge and comprehension of introductory dental hygiene theory and practice and for application to patients in a clinical setting.

DHYG 119 (6) Dental Hygiene Practice II
Prereq: Enrollment in Dental Hygiene Program and successful completion of DHYG 109
Second in a series of seven courses, Dental Hygiene Practice I - VII, facilitating the further growth of introductory clinical skills required for the safe and effective practice of dental hygiene. This course links with the content and skills in DHYG 118.

DHYG 121 (3) Introduction to Periodontology I
Prereq: Enrollment in Dental Hygiene Program and successful completion of DHYG 111
First in a series of three courses, DHYG 121, 161 and 231, introducing the dental hygienist to the basic science and introductory components for assessing and evaluating the periodontal health of individuals. Content includes an introduction to non-surgical periodontal therapy, root morphology, and periodontal instrumentation.

DHYG 122 (3) Pharmacology for Dental Hygienists
Prereq: Enrollment in Dental Hygiene Program
The general pharmacology and therapeutic actions of drugs used and encountered in dental and dental hygiene practice.

DHYG 123 (1) Preventive Dentistry III
Prereq: Enrollment in Dental Hygiene Program and successful completion of DHYG 103 and 113.
Emphasis on effective communication with patients as well as co-workers. Students will be given the opportunity to develop their own style of presenting patient education while learning motivation techniques.

DHYG 125 (2) Oral Pathology
Prereq: Enrollment in Dental Hygiene Program
An introduction to oral pathologic processes, the recognition of oral diseases and oral manifestations of commonly encountered systemic diseases, and their considerations to the practice of dental hygiene.

DHYG 127 (2) Fundamentals of Restorative Dentistry III
Prereq: Enrollment in Dental Hygiene Program and successful completion of DHYG 117
Third in a series of seven course. Fundamentals of Restorative Dentistry I-VII, facilitating the grouw of beginning to developing skills in the placement and finishing of dental amalgam restorations and an introduction to the knowledge and skills needed to place and finish composite restorations on the adult dentition in a pre-clinical setting.

DHYG 128 (2) Fundamentals of Dental Hygiene III
Prereq: Enrollment in Dental Hygiene Program and successful completion of DHYG 108 and DHYG 118
Third in a series of seven courses, Fundamentals of Dental Hygiene I - VII, to further develop knowledge and comprehension of dental hygiene theory and practice and for application to patients in a clinical setting.

DHYG 129 (6) Dental Hygiene Practice III
Prereq: Enrollment in Dental Hygiene Program and successful completion of DHYG 109 and DHYG 119
Third in a series of seven courses, Dental Hygiene Practice I - VII, facilitating the further growth of introductory to developing clinical skills required for the safe and effective practice of dental hygiene. This course links with the content and skills in DHYG 128.

DHYG 161 (2) Introduction to Periodontology II
Prereq: Enrollment in Dental Hygiene Program and successful completion of DHYG 121
Second in a series of three periodontology courses, DHYG 121, 161 and 231, providing the dental hygienist information on recognition and therapy of periodontal diseases. Content includes non-surgical periodontal therapy and the associated complications and variations to treatment.

DHYG 162 (1)Dental Imaging III
Prereq: Enrollment In Dental Hygiene Program and successful completion of DHYG 112
This course is a continuation of Dental Imaging I and II and is designed to familiarize students with the advancing technology in dental imaging, specifically the utilization of intraoral video imaging and oral cancer screening systems in dental and dental hygiene care.

DHYG 164 (2) Oral Health Profession Dynamics
Prereq: Enrollment in Dental Hygiene Program
This course introduces skills in professional behaviors, group interaction and communication, and personal wellness associated with effectiveness in the dental hygienist's workplace.

DHYG 166 (3) Local Anesthesia I
Prereq: Enrollment in Dental Hygiene Program, successful completion of DHYG 104, DHYG 114 and DHYG 122
This course provides the fundamentals of dental local anesthesia delivery. Students will be introduced to the physiology and pharmacology of dental local anesthesia, elements of pre-anesthesia patient assessment, and devices and injection techniques commonly used in dentistry. Students will practice common injection techniques and experience the effects of a variety of local drugs in lab situations.

DHYG 167 (1) Fundamentals of Restorative Dentistry IV
Prereq: Enrollment in Dental Hygiene program and successful completion of DHYG 127
Fourth in a series of seven courses, Fundamentals of Restorative Dentistry I-VII, facilitating the growth of developing skills in the placement, carving and polishing of dental amalgam restorations on the adult dentition, the placement, finishing and polishing of composite restorations on the adult dentition in a pre-clinical setting

DHYG 168 (1) Fundamentals of Dental Hygiene IV
Prereq: Enrollment in Dental Hygiene Program and successful completion of DHYG 128
This is the fourth of a series of seven courses, Fundamentals of Dental Hygiene I-VII. The intent of this course is to expand the student's knowledge of personal, professional and community issues related to HIV disease as outlined in the core curriculum of the Washington State AIDS Omnibus ACT. This course is specifically designed to satisfy state mandated HIV/AIDS curriculum as outlined in WAC 246-12-270 for dental hygiene licensure.

DHYG 169 (6) Dental Hygiene Practice IV
Prereq: Enrollment in Dental Hygiene Program and successful completion of DHYG 109, 119 and 129
Fourth in a series of seven courses Dental Hygiene Practice I - VII, facilitates the further growth of developing clinical skills required for the safe and effective practice of dental hygiene.

DHYG 207 (2) Fundamentals of Restorative Dentistry V
Prereq: Enrollment in the Dental Hygiene Program and successful completion of DHYG 167
Fifth in a series of seven courses, Fundamentals of Restorative Dentistry I-VII, facilitating the growth of developing to competent skills in the placement, carving and polishing of dental amalgam restorations on the adult dentition and introductory skills for the primary dentition and the placement, finishing and polishing of composite restorations on the adult dentition in a pre-clinical setting, as well as an introductory exploration of advanced techniques and procedures of modern dental materials, endodontic, and pedodontic dentistry.

DHYG 217 (1) Fundamentals of Restorative Dentistry VI
Prereq: Enrollment in the Dental Hygiene Program and successful completion of DHYG 207
Sixth in a series of seven courses, Fundamentals of Restorative Dentistry I-VII, facilitating the growth of competent skills in the placement, carving and polishing of dental amalgam restorations on the adult dentition and primary dentition and the placement, finishing and polishing of composite restorations on the adult dentition in a pre-clinical setting, as well as treatment planning for the restorative patient.

DHYG 227 (1) Fundamentals of Restorative Dentistry VII
Prereq: Enrollment in the Dental Hygiene Program and successful completion of DHYG 217
Seventh in a series of seven courses, Fundamentals of Restorative Dentistry I-VII, facilitating the growth of competent skills in the role of a restorative dental hygienist, including utilization of the dental hygienist in dental specialty fields and restorative case treatment planning.

DHYG 231 (2) Advanced Periodontology
Prereq: Enrollment in the Dental Hygiene Program and successful completion of DHYG 121 and DHYG 161
A continuation of DHYG 121 and 161, focused on advanced, scientific methods and technology used in dental hygiene examination, diagnosis and treatment of patients with periodontal diseases

DHYG 232 (1) Nutrition for Dental Hygienists
Prereq: Enrollment in Dental Hygiene Program
Scientific effects of food in the human organism plus the role of nutrients in preventive dentistry, nutritional education, and counseling for dental hygienists.

DHYG 233 (2) Gerodontology/ Special Needs
Prereq: Enrollment in Dental Hygiene Program and successful completion of DHYG 103 and 113.
Acquaints the student with the psychosocial and physical changes in the aging process and of special needs patients, and how these changes relate to oral health care treatment and maintenance.

DHYG 236 (1) Nitrous Oxide Sedation
Prereq: Enrollment in Dental Hygiene Program
This course provides a comprehensive study of the proper diagnosis and use of nitrous oxide sedation for the dental office.

DHYG 237 (2) Clinical Restorative Dentistry I
Prereq: Enrollment in Dental Hygiene Program and successful completion of DHYG 167
First in a series of three courses, Clinical Restorative Dentistry I, II, III providing a culmination of the information and skills learned in didactic and laboratory settings of Fundamentals of Restorative Dentistry I-IV transferred to beginning clinical restorative skills on patients in the placement, carving and polishing of amalgam restorations and the placement and finishing of composite restorations.

DHYG 238 (3) Fundamental of Dental Hygiene V
Prereq: Enrollment in Dental Hygiene Program and successful completion of DHYG 168
Fifth in a series of seven courses, Fundamentals of Dental Hygiene I - VII, to further develop knowledge and comprehension of dental hygiene theory and practice for application to patients in a clinical setting.

DHYG 239 (7) Dental Hygiene Practice V
Prereq: Enrollment in Dental Hygiene Program and successful completion of DHYG 169
Fifth in a series of seven courses, Dental Hygiene Practice I - VII, facilitating the further growth of developing to competent clinical skills required for the safe and effective practice of dental hygiene. This course links with the content and skills in DHYG 238 and DHYG 231.

DHYG 243 (3) Community Dental Health
Prereq: Enrollment in Dental Hygiene Program
Principles of dental public health theory and practice, including epidemiology, biostatistics, prevention and control of dental disease, and community oral health education.

DHYG 246 (2) Extramural Dental Hygiene Practice I
Prereq: Enrollment in Dental Hygiene Program and successful completion of DHYG 239
Clinical dental hygiene in extramural clinic and community facilities.

DHYG 247 (2) Clinical Restorative Dentistry II
Prereq: Enrollment in Dental Hygiene Program and successful completion of DHYG 207 and DHYG 237
Second in a series of three courses, Clinical Restorative Dentistry I-III, with further growth to developing clinical restorative skills on patients in the placement, carving and polishing of amalgam restorations and the placement and finishing of composite restorations.

DHYG 248 (2) Fundamentals of Dental Hygiene VI
Prereq: Enrollment in Dental Hygiene Program and successful completion of DHYG 238
Sixth in a series of seven courses, Fundamentals of Dental Hygine I-VII, to further develop knowledge and com-

prehension of dental hygine theory and practice for application to patients in a clinical setting. Introductory leadership skills to further develop competence as an integral dental team member.

DHYG 249 (7) Dental Hygiene Practice VI
Prereq: Enrollment in Dental Hygiene Program and successful completion of DHYG 239
Sixth in a series of seven courses, Dental Hygiene Practice I-VII, facilitating the further growth of developing to competent clinical skills requried for the safe and effective practice of dental hygiene.

DHYG 253 (1) Community Dental Hygiene Practice
Prereq: Enrollment in Dental Hygiene Program
A course incorporating dental public health field experiences and the development and implementation of community oral health services.

DHYG 256 (2) Extramural Dental Hygiene Practice II
Prereq: Enrollment in Dental Hygiene Program and successful completion of DHYG 249
Clinical dental hygiene in extramural clinic and community facilities with increasingly complex treatment plans.

DHYG 257 (2) Clinical Restorative Dentistry III
Prereq: Enrollment in Dental Hygiene Program and successful completion of DHYG 217 and 247
Third in a series of three courses, Clinical Restorative Dentistry I-III, with further growth to competent clinical restorative skills on patients in the placement, carving and polishing of amalgam restorations and the place ment and finishing of composite restorations.

DHYG 258 (3) Fundamentals of Dental Hygiene VII
Prereq: Enrollment in Dental Hygiene Program and successfu completion of DHYG 248
Seventh in a series of seven courses, Fundamentals of Dental Hygiene I-VII, to further develop knowledge and conprehension of dental hygiene theory and practice for application to patients in a clinical setting. Development of introductory career strategies, practice management skills and further development of leadership skills.

DHYG 259 (7) Dental Hygiene Practice VII
Prereq: Enrollment in the Dental Hygiene Program and successful completion of DHYG 249
Seventh in a series of seven course, Dental Hygiene Practice I-VII, facilitates the further growth of competent clinical skills required for the safe and effective practice of dental hygiene.

DHYG 266 (1) Local Anesthesia II
Prereq: Enrollment in the Dental Hygiene Program and successful completion of DHYG 166
This course builds on the foundations of Local Anesthesia I. Students will be introduced to supplemental and alternative injection techniques, computerized and specialized injection devices, and new drugs and other technologies for use in dentistry. Students will practice new injection techniques and experience a variety of specialty dental injection devices in lab situations.

DEVELOPMENTAL DISABILITIES TECHNOLOGY (DD)

Courses are offered through Extended Learning only.

DD 110 (3) Working with People with Developmental Disabilities
An introduction to instruction in working with people with developmental disabilities. Areas of focus include teaching techniques; non-aversive behavioral intervention; communication (Signing Exact English); dignity issues; lifting techniques; and working with people who are blind and/or deaf.

DD 115 (3) Systematic Guidelines for Teaching People with Developmental Disabilities
The application of teaching techniques and data recording systems when assisting adolescents or adults with developmental disabilities.

DD 184 (3) Teaching Language for the DD
Expressive and receptive language including speech, sign language and use of identification cards for all levels of developmentally disabled.

DD 250 (2) Effective Supervision
Principles and techniques of supervising people who are developmentally disabled. This course includes communication, personal growth, stress management, and providing a safe work environment.

DIGITAL DESIGN (DDSGN)

DDSGN 110 (5) Introduction to Graphic Design and Rich Media
Prereq: CIS 121 or Instructor permission
Overview of the Graphic Design and Interactive Media field. Introduction to terminology, changes, and trends, in the business and industry. Discussion of various media, such as image manipulation, computer Illustration, web design, digital video, animation, and ethics.

DDSGN 120 (3) Production Management
This course will trace the production flow from creation to implementation for design projects. Specific content will include stages of analysis and development, principles of task management and contract writing.

DDSGN 121 (3) Layout Design and Publishing
Prereq: CIS 121 or instructor permission
Class explores and implements layout theory and design processes to create production projects using publishing production techniques.

DDSGN 130 (5) Graphic Design II
Prereq: DDSGN 110 or instructor permission
Concept development in visual communication problem solving involving letter forms, illustrative material and typography. Basic principles of selection, organization and production techniques are introduced.

DDSGN 131 (5) Techniques in Adobe Illustrator
Prereq: DDSGN 110 or instructor permission
Production techniques in Adobe Illustrator. Class explores and implements vector imaging theory using fundamental concepts and processes to create works of art for print and the Web. A graphic tablet is recommended.

DDSGN 140 (5) Fundamentals of 3D Modeling and Animation
Prereq: CIS 121or instructor permission
Introduction to the resources and applied procedures necessary to produce high quality 3D products and animation for publication through print and electronic media.

DDSGN 141 (5) Advanced 3D Modeling and Animation
Prereq: DDSGN 140
Advanced exposure to resources and applied procedures necessary to produce high quality 3D products and animation for publication through electronic media.

DDSGN 150 (5) Web Design and CSS
Prereq: CIS 121 or Instructor permission
Develop skills necessary for effective delivery of content via the Internet. Students develop web sites using digital design programming, interactive techniques and associated tools. Students are also introduced to basic principles of site management, business strategies and information architecture.

DDSGN 160 (5) Fundamentals of Digital Photography and Adobe Photoshop
Prereq: CIS 121 or instructor permission
Introduction to visual concepts, image capture and functions of digital cameras. Explores the techniques and applications of correcting, manipulating and outputting digitized photographic images and digital artwork utilizing Adobe Photoshop.

DDSGN 161 (5) Advanced Adobe Photoshop
Prereq: DDSGN 160 or instructor permission
Advanced production techniques in Adobe Photoshop. Class explores and implements digital imaging theory and processes to enhance and retouch photographs and create new works of art.

DDSGN 170 (5) Fundamentals of Video Production and DVD Authoring
Prereq: CIS 121 or instructor permission
Production techniques to integrate video, still images, sound, and music into various digital formats. Class explores and implements interface theory and authoring techniques for video DVDs.

DDSGN 210 (5) Fundamentals of Interactive Media
Prereq: DDSGN 110-170
Projects in basic design of interactive media. Use of software to integrate still images, 2D animation, music, sound and video into interactive presentations.

DDSGN 211 (5) Animation for the Web with Adobe Flash
Prereq: CIS 121 or instructor permission
Development of a variety of techniques to create Web animations using Adobe Flash. Student will create Web banners, interactive photo galleries and character animation. Course explores different animation theories and techniques and analyzes their impact on an audience.

DDSGN 220 (5) Integrated Digital Design I
Prereq: DDSGN 110-210 or instructor permission
First course in a sequence integrating all aspects of digital design into an individual print-based and interactive portfolio project from concept to final production.

DDSGN 230 (5) Integrated Digital Design II
Prereq: DDSGN 110-220 or concurrently with DDSGN 220.
Second course in a sequence integrating all aspects of digital design into an individual print-based and interactive portfolio project from concept to final production. The course will also provide a forum for occupation-related topics.

DDSGN 290 (5) Supervised Internship
Prereq: Digital Design Majors
Capstone course allows the student to gain relevant experience working in a local business environment. Requires 250 hours of supervised work including associated resume preparation, job interviews, and experience documentation.

DRAMA (DRMA)

DRMA& 101 (5) Introduction to the Theatre • GER-HM

This course provides an overview of theatre including dramatic literature, theatre history, scene design, stage lighting, styles of acting & directing and plays discussions.

DRMA 160 (5) Introduction to Film and Video • GER-HM
Introduction to and exploration of the world of movies, film, history, film-making, techniques and film direction. The social and economic influences of the American film will also be addressed.

DRMA 165 (5) Digital Movie Making I
This is an introduction class in making movies using the digital format. Story telling, filming, editing, and presentation will be covered.

DRMA 166 (5) Digital Movie Making II
Prereq: DRMA 165 with a grade of 2.0 or better
This is an intermediate class in making movies using the digital format. Story telling, filming, editing, and presentation will be covered.

DRMA 167 (5) Digital Movie Making III
Prereq: DRMA 166 with a grade of 2.0 or better
This is an advanced class in making movies using the digital format. Story telling, filming, editing, and presentation will be covered.

DRMA 170 (5) Technical Film and Theatre I • GER-HM/ Performance
Introduction to behind the scenes activities of stagecraft/digital film:

stage/digital film terminology, stage/digital film organization, tool familiarity, safety and scenery construction.

DRMA 171 (5) Technical Film and Theatre II
• GER-HM/Performance
An intermediate course in behind-the-scenes training for stage and ditigal film with emphasis on stage and digital film design.

DRMA 172 (5) Technical Film and Theatre III
• GER-HM/Performance
Behind-the-scenes training for stage and ditigal film with emphasis on stage and digital film design.

DRMA 255 (10) Shakespeare Festival (same as ENGL 250)
To familiarize the student with Shakespearean drama, elements of drama, and elements of the theater. Student must attend the Oregon Shakespeare Festival in Oregon.

DRMA 260 (5) Acting for Stage and Digital Film I • GER-HM/ Performance
Introduction to the methods employed in acting for the contemporary stage and digital film.

DRMA 261 (5) Acting for Stage and Digital Film II
• GER-HM/Performance
Acting for the stage and digital film with emphasis on movement and character development.

DRMA 262 (5) Acting for Stage and Digital Film III
• GER-HM/Performance
Acting for the stage and digital film with emphasis on styles of acting.

DRMA 280-285 (1-3) Production Practicum I – VI
• GER-HM/Performance
Prereq: Instructor permission required for 2 and 3 credit hours
Provides students involved in the creative/performance aspect of a Pierce College theatre/film production with credit for their effort. The class offers flexibility for students to participate in several different areas of a Pierce College theatre/film production.

■ EARLY CHILDHOOD EDUCATION (ECE)

ECE 111 (5) Intro to Early Childhood Education • GER-SS
A study of the theories and principles in the growth and development of young children. Surveys programs, issues, trends relating to the care and education of young children, including state and federal legislation.

ECE 112 (5) Planning the Young Child's Learning Environment
A study of developmentally appropriate equipment, materials and practices for the indoor and outdoor learning environments. Methods and procedures for implementing curriculum, guidance, discipline and evaluation for young children.

ECE 131-139 (1) Parent and Child
Prereq: Parent participates with child. Department permission.
Participation of parents with children three through five years of age in a child-study laboratory for the purpose of parent education in child growth and development. Course components include observation, lecture and discussion sessions and leadership development opportunities.

ECE 140a-f (1) Parent and Child
Prereq: Child is enrolled in campus Child Development Center, Department permission
Participation of parents with children from infancy through five years of age in a campus Child Development Center for the purpose of forming collaborative relationships between the center and the family to support and understand the growth and development of individual children. Course components include supported explorations, dialogue sessions and collaborative classroom interactions. Pass/No Pass grading system used.

ECE 141-149 (2) Parent and Child
Prereq: Parent participates with child. Department Permission.
Participation of parents with children 18-36 months of age in a child-study laboratory for the purpose of parent education in two year old growth and development. Course components include observation, lecture and discussion sessions.

ECE 161 (5) Mathematics for Early Childhood Education
Prereq: MATH 051 with a grade of at least 2.0 or placement test score above MATH 051 or instructor permission
A course for early childhood educators focusing on math concepts essential for teachers of young children. Topics include patterns, sequencing, classifying, number systems and computation, functions, geometry, measurement, and basic concepts from statistics and probability. Interactive, activity-based methods are used guided by national mathematics education standards. Emphasizes conceptual understanding, connections among topics, and communication of mathematical thinking.

ECE 202 (5) Math/Science for Children
Prereq: ECE 111 AND one of the following: ECE 205, 213, 215
A study of the cognitive development of young children and its application to mathematics and science conceptual development. Research, planning, and assessment of math and science curriculum and its application to the young child's learning environment.

ECE 205 (5) Music for Young Children
A general introduction to music as applied to the physical development of young children. Explores theories, techniques, cultural influences, and curriculum design.

ECE 210 (3) Curriculum Development and Application
Prereq: ECE 111, 112, 202, 205, 213, and 215 with minimum grades of 2.0 and department permission. Must be taken concurrently with ECE 220.
The development and evaluation of appropriate practices, learning materials, and experiences for the individual and group needs of children within the laboratory setting. Current teaching theories/theorists (Piaget, Vygotsky, Gardner, Bloom) are planned for application in the laboratory. Current observation and assessment models evaluated and synthesized into a usable tool for a young child's learning environment.

ECE 212 (5) Survey of Special Education/Early Intervention
An introductory course in understanding educational programs and state and federal laws regarding the education of children with special needs. Studies early intervention and its life long value to physical, cognitive, social, and emotional growth and development.

ECE 213 (5) Literature for Young Children
A study of the historical background and types of literature available for young children. Includes methods and materials for sharing diverse literature and developmentally appropriate selections with children based upon cognitive and psychosocial theories.

ECE 215 (5) Art for Children
A general introduction to the arts as applied to the development of young children. Explores developmental theories, techniques and curriculum design in offering a wide variety developmentally appropriate art media to children.

ECE 220 (5) Nursery School Practicum
Prereq: ECE 111, 112, 202, 205, 213, and 215 with minimum grades of 2.0 and department permission. Must be taken concurrently with ECE 210.
Designed for the student's participation in planning and implementing a developmentally appropriate classroom under qualified supervision in the Pierce College nursery school laboratory facility. Includes experiences in lead teaching, team building, and application of curriculum with young children.

ECE 222 (2) Child Care Work Based Learning
Prereq: ECE 111, 112, department permission and one of the following: ECE 205, 213, 215
Designed for students to observe and participate under qualified supervision in childcare centers throughout the community.

ECE 223 (2) Special Education Work Based Learning
Prereq: ECE 111, 112, department permission and one of the following: ECE 205, 213, 215
Designed for students to observe and participate under qualified supervision in special education programs throughout the community.

ECE 224 (2) Head Start / ECEAP Work Based Learning
Prereq: ECE 111, 112, department permission and one of the following: ECE 205, 213, 215
Designed for students to observe and participate under qualified supervision in Head Start or Early Childhood Education and Assistance Programs throughout the community.

ECE 230 (5) Parent-School Partnerships
Prereq: ECE 111 or department permission
Methods of building parent education and involvement partnerships. Provides exploration of personal identity and values in relationship to teacher-parent communication, team building, conferencing and social service referrals.

ECE 240 (3) Nutrition, Health and Safety for Young Children
Nutrition, health, and safety practices and procedures appropriate for use when teaching young children. Includes state and local regulations concerning abuse and neglect, emergencies, disease-poison prevention, healthy classroom environments, and self-care.

ECE 256-260 (1-5) Early Childhood Field Experience
Prereq: ECE 111, department permission, and criminal background check required.
Supervised field experience in early childhood and/or elementary educational programs.

ECE 280 (1) Early Childhood Education Professional Portfolio
Prereq: must take or currently completing all core ECE courses prior to this course. Instructor permission is required.
This course is a culmination of the student's ECE curriculum resulting in the creation of an individualized professional portfolio.

■ ECONOMICS (ECON)

ECON 110 (5) Survey of Economics • GER-SS
An overview of both microeconomics and macroeconomics. Topics include: (1) organization and operation of the U.S. economy including unemployment, inflation, and GDP issues; fiscal and monetary policies; (2) supply and demand; production; market structures; determination of prices in a market economy; and income distribution.

ECON& 201 (5) Micro Economics
• GER-SS, QS
Prereq: MATH 098 or equivalent with a grade of 2.0 or better or placement test score above MATH 098.
Study of scarcity; the allocation of resources; supply and demand; production; market structures; determination of output and prices with emphasis on a market economy; labor and capital markets; role of government in a market economy; comparative advantage; international trade; and distribution of income.

ECON& 202 (5) Macro Economics
• GER-SS
Prereq: MATH 098 or equivalent with a grade of 2.0 or better or placement in MATH 098 or higher
Study of the organization and operation of the U.S. economy including unemployment, inflation, and GDP issues; the business cycle and long run growth; national income accounting; aggregate supply and aggregate demand; government spending, taxation, and the budget deficit/surplus; fiscal policy; the monetary system, the Federal Reserve Banking System; monetary policy; interest rates; and international trade.

■ EDUCATION (EDUC)

EDUC 130 (3) Technology in Education
Expose students to traditional classroom teaching aids, computer-assist-

ed instructional methods, and assistive technology equipment designed to support students with disabilities.

EDUC 190 (3-5) Education Practicum
An introduction to field experience in education that includes classroom observations and seminar discussions.

EDUC& 202 (5) Introduction to Education
An introduction to teaching: historical, organizational, legal, ethical, philosophical and social foundations of public education.

EDUC& 204 (5) Exceptional Child
Introduction to programs for exceptional students. Includes federal guidelines, assessment requirements and procedures, and models of service delivery.

EDUC 230 (3) Curriculum and Instruction: Support Strategies
Students will learn strategies to accelerate student learning of reading, writing and mathematics. Special attention will be given to the development of effective communication, multicultural education and the delineation of the paraeducator role and responsibilities in curriculum design and instruction.

■ ELECTRICAL APPRENTICE (APEL)

Courses are offered through Extended Learning/Contracted programs only.

APEL 101 (10) Construtions Electrician I
Prereq: Approval by Southwest Washington Electrical Joint Apprenticeship Training Committee
Lecture instruction to provide a theoretical background for the on-the-job training of first-year construction electrician apprentices.

APEL 102 (10) Construction Electrician I
Prereq: APEL 101 and approval of S.W.W.A.E.J.A.T.C.
Lecture instruction to provide a theoretical background for on-the-job training of first-year construction electrician apprentices.

APEL 103 (7) Construction Electrician I
Prereq: Successful completion of APEL 102 and approval of S.W.E.J.A.T.C.
Lecture instruction for first-year construction electrician apprentices.

APEL 104 (6) Low Energy/Sound and Communications I
Lecture instruction to provide a theoretical background for the on-the-job training of first-year low energy electrical apprenticeship.

APEL 105 (6) Low Energy/Sound and Communications I
Prereq: APEL 104 and approval of S.W.E.J.A.T.C.
Lecture instruction on basic electronics for first-year low voltage electrical apprentices.

APEL 106 (4) Basic Electronics for Low Voltage Systems
Prereq: APEL 105 and approval of S.W.E.J.A.T.C.
Lecture instruction to provide a theoretical background for the on-the-job training of first-year low voltage electrical apprenticeship.

APEL 107 (6) Low Energy/Sound and Communication II
Prereq: Successful completion of APEL 106 and approval of S.W.E.J.A.T.C.
Instruction for second-year low voltage electrical apprentices.

APEL 108 (6) Low Energy/Sound and Communication II
Prereq: APEL 107 and approval of S.W.E.J.A.T.C.
Lecture instruction on basic electronics for second-year low voltage electrical apprentices.

APEL 109 (4) Low Energy/Sound and Communications II
Prereq: Successful completion of APEL 108 and approval of S.W.E.J.A.T.C.
Instruction for second-year low voltage electrical apprentices.

APEL 111 (5) Residential Wireman I
Prereq: Approval by Southwest Washington Electrical Joint Apprenticeship Training Committee
Classroom instruction for first-year residential wireman apprentices.

APEL 112 (5) Residential Wireman I
Prereq: APEL 111 and approval of S.W.E.J.A.T.C.
Lecture instruction for first-year residential wireman apprentices.

APEL 113 (4) Residential Wireman I
Prereq: Successful completion of APEL 112 and approval by S.W.E.J.A.T.C.
Lecture instruction for first-year residential wireman apprentices.

APEL 114 (5) Residential Wireman II
Prereq: Successful completion of APEL 113 and approval by S.W.E.J.A.T.C.
Classroom instruction for second-year residential wireman apprentices.

APEL 115 (5) Residential Wireman II
Prereq: Successful completion of APEL 114 and approval of S.W.E.J.A.T.C.
Classroom instruction for second-year residential wireman apprentices.

APEL 116 (4) Residential Wireman II
Prereq: Successful completion of APEL 115 and approval of S.W.E.J.A.T.C.
Lecture instruction for second-year residential wireman apprentices.

APEL 117 (6) Low Energy/Sound and Communications III
Prereq: APEL 109 and approval of S.W.E.J.A.T.C.
Lecture instruction to provide a theoretical background for the on-the-job training of third year low energy electrical apprenticeship.

APEL 118 (6) Low Energy/Sound and Communications III
Prereq: APEL 117 and approval of S.W.E.J.A.T.C.
Lecture instruction to provide a theoretical background for the on-the-job training of third year low energy electrical apprenticeship.

APEL 119 (6) Low Energy/Sound and Communications III
Prereq: APEL 118 and approval of S.W.E.J.A.T.C.
Lecture instruction to provide a theoretical background for the on-the-job training of third year low energy electrical apprenticeship.

APEL 121 (10) Construction Electrician II
Prereq: APEL 102 and approval of S.W.W.A.E.J.A.T.C.
Lecture instruction to provide a theoretical background for the on-the-job training of second-year construction electrician apprentices.

APEL 122 (10) Construction Electrician II
Prereq: APEL 121 and approval of S.W.W.A.E.J.A.T.C.
Lecture instruction to provide a theoretical background for the on-the-job training of second-year construction electrician apprentices.

APEL 123 (6) Construction Electrician II
Prereq: APEL 122 and approval of S.W.E.J.A.T.C.
Lecture instruction for second-year construction electrician apprentices.

APEL 131 (10) Construction Electrician III
Prereq: APEL 123 and approval of S.W.E.J.A.T.C.
Lecture instruction to provide a theoretical background for the on-the-job training of third-year construction electrician apprentices.

APEL 132 (10) Construction Electrician III
Prereq: APEL 131 and approval of S.W.E.J.A.T.C.
Lecture instruction to provide a theoretical background for the on-the-job training of third-year construction electrician apprentices.

APEL 133 (6) Construction Electrician III
Prereq: APEL 132 and approval of S.W.E.J.A.T.C.
Lecture instruction to provide a theoretical background for the on-the-job training of third-year construction electrician apprentices.

APEL 141 (10) Construction Electrician IV
Prereq: APEL 132 and approval of S.W.E.J.A.T.C.
Lecture instruction to provide a theoretical background for the on-the-job training of fourth-year construction electrical apprentices.

APEL 142 (10) Construction Electrician IV
Prereq: APEL 141 and approval of S.W.E.J.A.T.C.
Lecture instruction for fourth-year construction electrical apprentices.

APEL 143 (6) Construction Electrician IV
Prereq: APEL 142 and approval of S.W.E.J.A.T.C.
Lecture instruction for fourth-year construction electrical apprentices.

APEL 151 (10) Construction Electrician V
Prereq: APEL 142and approval of S.W.E.J.A.T.C.
Lecture Instruction to provide a theoretical base for on the job training of fifth-year construction apprentices.

APEL 152 (10) Construction Electrician V
Prereq: APEL 151 and approval of S.W.E.J.A.T.C.
Lecture instruction to provide a theoretical background for on-the-job training of fifth-year construction electrician apprentices.

APEL 153 (10) Construction Electrician V
Prereq: APEL 152 and approval by S.W.E.J.A.T.C.
Lecture instruction to provide a theoretical background for the on-the-job training of fifth-year construction electrician apprentices.

■ ENGINEERING (ENGR)

ENGR 101 (5) Introduction to Engineering • GER-NS
Prereq: MATH 060 or instructor permission
Introduction to the engineering profession and the design process. Introduction to graphical communication, engineering materials, structures, problem solving, and computer applications. Includes lab activities, teamwork, field trips and a design project.

ENGR& 114 (5) Engineering Graphics
Prereq: CIS 121 or instructor permission
An introduction to Computer Aided Design (CAD) using AutoCad. Students create engineering drawings using various projections and views, and manage the associated computer files,. Includes engineering graphics topics of sketching, dimensioning, and projection methods. Includes a design project.

ENGR 142 (5) Computer Programming (C++) for Engineers
Prereq: MATH& 141 with grade of 2.0 or better
Fundamentals of computer programming with emphasis on solving engineering problems. C/C++ language implementation. Syntax, variables, statements, control structures, loops, functions, data structures, files, pointers, memory use. Procedural and object-oriented programming. Objects, inheritance, polymorphism.

ENGR& 214 (5) Statics
Prereq: MATH& 152 and PHYS& 221 or instructor permission
Introduction to the principles of Statics. Analysis of two and three dimensional force systems; free-body diagrams and equilibrium equations; analysis of trusses, frames, and machines; centroids and distributed forces; friction application. Vector methods used throughout the course.

ENGR& 215 (5) Dynamics
Prereq: ENGR& 214, MATH& 152 and PHYS& 221 or instructor permission
Introduction to the principles of Dynamics. Kinematics of particles and rigid bodies. Kinetics of particles and rigid bodies using equilibrium, work-energy, and impulse-momentum methods. Vector methods used throughout the course.

ENGR& 224 (5) Thermodynamics
Prereq: PHYS& 221, CHEM& 161 and MATH& 152 or instructor permission
Introduction to the principles of Thermodynamics, properties, processes and equations of state. First law analysis of closed and open systems; energy interactions, work and heat, steady flow devices. Second law analysis of closed systems; heat engines, refrigeration, Carnot cycle, entropy and work potential. Introduction to power cycles.

ENGR& 225 (5) Mechanics of Materials
Prereq: ENGR& 214, MATH& 152 and PHYS& 221, or instructor permission
Introduction to the principles of Mechanics of Materials. Analysis of stress, strain, and deformation in solid ma-

terials. Development of the relationships between load, stress, and deformation in columns, shafts, and beams. Analysis and design of members under tension, compression, shear, torsion and bending.

■ ENGLISH (ENGL)

ENGL 080 (5) Introduction to Applied Communication
Extended Learning Only
Prereq: Open to all with high school level coursework
Prepares the student to write unified, coherent, grammatically correct paragraphs and essays.

ENGL 090 (1-3) Spelling
The improvement of spelling skills. Students will learn how to spell a variety of challenging words while learning tactics to improve their spelling skills with future vocabulary as well.

ENGL 091 (1-3) Vocabulary
A variable credit course designed for the pre-college level reader and writer. It can be taken for 1, 2, or 3 credits depending on the time the student wants to commit toward improving vocabulary and vocabulary skills and the number of words and word parts that the student wishes to learn.

ENGL 093 (1-3) Grammar Usage
Focuses on grammar and punctuation concepts; students will practice proofreading to improve their skills.

ENGL 094 (1) Sentence Combining
This is a one-credit course designed to improve knowledge of sentence construction. Students are asked to identify the parts of sentences and to classify sentences by clause structure. Particular attention is paid to the improvement of writing style through sentence combining exercises.

ENGL 095 (2-3) Paragraph Development
Prereq: Intended for below college-level writer.
This is a variable (2 or 3) credit course designed to improve a student's ability to organize and write paragraph-length compositions. The course focuses on the parts of the standard paragraph and on the organization patterns, which can be used to develop paragraphs.

ENGL 096 (2) Grammar, Punctuation and Spelling
Focuses on sentence structure, grammar, spelling, and punctuation; when taken in conjuction with ENGL 097 (normally over two consecutive quarters), and passed with a 2.0 or higher, will fulfull the same requirements as ENGL 098, the prerequiste for ENGL 099.

ENGL 097 (3) Paragraph Composition
Prereq: ENGL 096 with a grade of 2.0 or better or instructor permission
Developing the writing process: emphasis on sentences and paragraphs. When taken in conjunction with ENGL 096 (normally over two consecutive quarters), and passed with a 2.0 or higher, will fulfill the same requirements as ENGL 098, the prerequisite for ENGL 099.

ENGL 098 (5) Basic Writing Skills
Prereq: Satisfactory placement test score.
The writing process: note taking, outlining, grammar, sentence construction, classifying and expressing information in the form of sentences and paragraphs.

ENGL 099 (5) Introduction to Composition
Prereq: Satisfactory placement test score or ENGL 096 and 097 or ENGL 098 with a grade of 2.0 or better .
Writing skills emphasizing unity, coherence, and adequate development of the paragraph, grammar and the control of serious sentence faults.

ENGL& 101 (5) English Composition I • GER-CM
Prereq: Satisfactory placement test score or 2.0 or higher in ENGL 099
Writing and analyzing unified, coherent expository essays that support and develop a thesis; using the modes of development (the rhetorical devices) appropriately in compositions; to recognize writing as a process; and incorporating secondary sources in essays using the MLA style of documentation.

ENGL 103 (5) Composition – Argumentation and Research • GER-CM
Prereq: ENGL& 101 with 2.0 grade or better
Writing and analyzing argumentative essays that logically support and develop a claim (thesis); writing a research paper using the MLA or APA style of documentation; researching data using the latest research tools available, including electronic data bases and the Internet; becoming information competent.

ENGL 104 (1-3) College Vocabulary
A variable credit course designed for the college-level or upper-level pre-college reader and writer. It can be taken for 1, 2, or 3 credits depending on the time the student wants to commit toward improving vocabulary and vocabulary skills and the number of words and word parts that the student wishes to learn.

ENGL 107 (5) Composition – Writing About Literature • GER-CM
Prereq: ENGL& 101 with grade of 2.0 or better
Writing expository and argumentative essays based upon literary readings and studies.

ENGL& 111 (5) Intro to Literature • GER-HM
Literary works and techniques through analyses of representative fiction, drama and poetry emphasizing the relationship of content and expression through form.

ENGL& 112 (5) Intro to Fiction • GER-HM
Introduction to the literary genre of fiction, including short stories and novels.

ENGL& 113 (5) Intro to Poetry • GER-HM
Course designed to familiarize students with form, content and expression in poetry from ancient to contemporary times.

ENGL& 114(5) Intro to Dramatic Literature • GER-HM
Form and expression of great works of the theater from Ancient Greece to the present.

ENGL 125 (5) Applied Communications
Offered through Extended Learning
Use the computer to write at least five essays about real-life problems and situations; develop information competency; learn various critical thinking skills, including perceiving, analyzing, and expressing a problem, seeking solutions; work in groups wherein students will have the opportunity to consider diverse points of view and gain experience articulating their own though processes.

ENGL 140 (5) English Grammar • GER-HM
A study of traditional grammar for students who have demonstrated proficiency in writing but who want to examine the theory, history and analysis of English syntax.

ENGL 145 (5) Research for the 21st Century
Prereq: Eligibility for ENGL& 101
This course develops a framework for research in the online environment and helps students to build skills and techniques for success as an online learner. Through a quarter-long research project on a global issue, participants will examine various strategies for locating, evaluating and applying information resources in the research process with attention to information issues like intellectual property, censorship and freedom of information.

ENGL 204 (5) The Bible as Literature • GER-HM
A course designed to show the themes, structures and literary merits of the Bible.

ENGL 205 (5) Introduction to Mythology • GER-HM
A survey of mythologies from two or more cultures with some study of what myth is and how it informs literature. Topics may vary.

ENGL 207 (5) Native American Literature • GER-HM
Native American Literature: its themes, issues, symbols, application to personal, family, and regional cultures.

ENGL 210 (5) Introduction to American Literature • GER-HM
Celebrating the rich diversity of American voices, ENGL 210 focuses on the literary contributions of African Americans, Asian Americans, European Americans, Latinas/Latinos and Native Americans and introduces the literary genres of poetry, fiction, drama and essay as it explores the dominant themes that have shaped the American literary tradition.

ENGL& 220 (5) Intro to Shakespeare • GER-HM
To familiarize the student with Elizabethan England and the three major types of Shakespearean drama: comedy, history and tragedy.

ENGL& 226 (5) British Literature I • GER-HM
To familiarize the student with the main types of literature written during a specified period in England: 800 to 1660.

ENGL& 227 (5) British Literature II • GER-HM
To familiarize the student with the main types of literature written during a specified period in England: 1660 to 1832.

ENGL& 228 (5) British Literature III • GER-HM
A study of representative works of literature, tracing ideas and trends in literary art from the late Romantic period through Victorian, Modern, Postmodern and Postcolonial literature.

ENGL& 235 (5) Technical Writing • GER-CM
Prereq: ENGL& 101 with grade of 2.0 or better
Learn the principles of organizing, developing and expressing technical information. Study rhetorical patterns common to scientific and technical disciplines. Also understand technical writing conventions as they apply to students during their academic careers.

ENGL& 236 (5) Creative Writing I • GER-HM
A creative writing course which instructs in structure, form, and content of fiction, poetry and plays.

ENGL& 237 (5) Creative Writing II • GER-HM
Writing short stories.

ENGL&238 (5) Creative Writing III • GER-HM
Writing poetry.

ENGL 239 (5) World Literature • GER-HM
Explores the rich diversity of world cultures through fiction, poetry and drama.

ENGL& 244 (5) American Literature I • GER-HM
Survey of American literature from its early origins to the Civil War.

ENGL& 245 (5) American Literature II • GER-HM
Survey of American literature from mid-nineteenth century to World War I.

ENGL& 246 (5) American Literature III • GER-HM
Survey of twentieth century literature to the present.

ENGL 249 (5) Creative Writing: Special Projects • GER-HM
Concentrates on producing original writings in a specific genre. Each quarter will focus on a particular genre such as screenwriting, science fiction, mystery, play writing or autobiography.

ENGL 250 (10) Shakespeare Festival
Familiarizes students with Shakespearean drama, elements of drama and elements of the theater. Students must attend the Ashland, Oregon Festival.

ENGL 256 (3) Advanced Composition - Portfolio
Prereq: ENGL& 101, 103, 107, and 235 with a 2.0 or better
Advanced study in rhetoric concentrating on the revision process in writing and editing. Required capstone

course for student completion of Pierce College's Written Communication Endorsement

ENGL 264 (5) Literature of U.S. Slavery and Abolition • GER-HM
Study and analysis of slave narrative and other works written about and/or during the era of slavery in the United States, to provide a better understanding of the surrounding conditions and issues.

ENGL 265 (5) American Literature: Comedy, Humor and Satire • GER-HM
Theory and practice of comedy, humor and satire. Concentration on American humor, its distinctive characteristics and importance in American Literature.

ENGL 266 (5) Women Writers: Voices from the International Mosaic • GER-HM
Emphasis on twentieth century women writers across the international spectrum.

ENGLISH AS A SECOND LANGUAGE (ESL)

Six levels of non-credit ESL courses are offered in Literacy, Reading, Writing, Speaking, Listening/Observing, Literacy Technology & Job Readiness. CASAS tests are given for placement in appropriate course. Contact Basic Skills office under the Transition Education Division for individual course offerings. See ESL listing under "Adult Basic Education" in the PROGRAMS OF STUDY section for more information.

ENVIRONMENTAL SCIENCE (ENVS)

ENVS& 100 (5) Survey of Environmental Science • GER-NS
An introductory non-lab natural science course designed to develop the ability to critically analyze environmental concepts and issues. The course will cover essential topics in scientific analysis, ecosystems, pollution, population, urbanization, natural resources, and other environmental issues. Field trip required.

ENVS 140 (5) Western Water Problems • GER-NS
Historical and contemporary exploration of the water resource and issues in the Western United States.

ENVS 150 (5) Environmental Issues • GER-NS
An interdisciplinary investigation of topics of environmental concern covering a wide range of local, national, and international case studies.

ENVS 155 (5) Applied Environmental Methods • GER-NS
Environmental scienc course involving field work in regional parks and natrual areas as well as field trips to area restoration sites. Topics will cover Pacific Northwest ecosystems, restoration ecology, native and invasive species of plants and animals - including adaptations to their environment, water quality, ecology, and biogeography, Appropriate for non-science and science majors. Field trips required. Lab included.

FASHION MERCHANDISING (FASH)

FASH 160 (5) Introduction to Fashion Merchandising
Survey of the fashion industry from early development to present. Students will analyze the interrelationships of the many different industries involved in the design, production, and distribution of all types of apparel and accessories.

FASH 162 (5) Fashion Design and Clothing Construction Analysis
Provides working knowledge of the design and construction skills valued in today's fashion marketplace. Students will develop the skills necessary to analyze, evaluate, and specify the quality of apparel design and production relative to consumer value.

FASH 163 (5) Consumer Textiles
Designed for those whose career direction will require knowledge of textiles as part of the professional prerequisites of the industry. Specific career fields include, but are not limited to, fashion merchandising, retailing, interior design, and fashion design. This study of textiles will provide in-depth information in the areas of fiber properties, yarn and fabric production, coloring, printing, finishing, and care/renovation of textiles.

FIRE COMMAND (FCA)

Courses offered through Extended Learning programs only

FCA 120 (3) Basic Fire Investigation
Explores a basic study of fire scene investigation procedures and techniques used to determine the origin and cause of fire. Included are reasons for accurately determining the origin and cause of fire, the systematic approach to fire scene examination, the chemistry of fire, determining the origin, major accidental and incendiary fire causes, scene sketching, scene photography and note taking. Other topics that will be covered are: basic scene security, major fire scene control, report writing, interviewing, and courtroom demeanor for the firefighter and investigator.

FCA 132 (3) Technical Writing for Fire Service
This course is an introduction to developing the skills for clear writing, grammar, spelling and punctuation effective in any written work. Students will complete practical applications that will be used in fire service report writing.

FCA 137 (5) Introduction to System Design
This course provides an overview of the types of building hazard categories, specific hazards, and methods used to choose the appropriate types and degrees of detection and suppression. Industry standards and variations will be discussed using National Fire Protection Association (NFPA) codes. In addition, students will match environment to occupancy hazard classification and demonstrate knowledge of special hazard classification and systems

FCA 152 (2) Building Construction
This course provides an overview of the engineering principles of building construction, characteristics of building classifications, fire and life safety devices and assemblies, fire loading, fire resistance and flame spread ratings. Special attention will focus on construction techniques and utilization of building construction knowledge for pre-planning fire potential, meeting competency standards defined by the National Fire Protection Association (NFPA).

FCA 155 (3) Fire Instructor I
This course is an introduction to a fire instructor's duties as written by the requirements of the National Fire Protection Association (NFPA) 1041, *Standard for Fire Service Instructor Qualifications (2002)*. Students examine a basic study of elements that influence teaching and learning. Special attention is given to the Fire Service Training Instructor's relationship to student safety as well as the legal liabilities involved. Instruction will include discussion of techniques for preparing effective lessons using the psychology of learning. Other topics include: training aids, copyright law, learning theories, purposes and principles of testing and evaluation.

FCA 157 (2) Public Information Officer
The course is designed to train participants for coordinating and disseminating information released during emergency operations and for assisting in the scheduling and coordination of news conferences and similar media events. After completing this course the student will have met the sections required for Public Information Officer as outlined by National Fire Protection Association (NFPA) 1035.

FCA 160 (2) Tactics I
This course is a review and study of basic principles and methods utilizing fire department personnel, equipment and apparatus. Instruction will include knowledge of fire behavior factors common to fire incidents as well as tactical and operational considerations. Students will examine what incident managers must know to minimize or negate the effects of fire, heat, and smoke including identifying the Incident Management System (IMS), its basic components and explain how it can be used as a scene management tool.

FCA 170 (1) Hazardous Materials Awareness
This course is a detailed look at the skills necessary to respond safely to hazardous materials emergencies. Derived from National Fire Protection Association (NFPA) 472, *Standard for Professional Competence of Responders to Hazardous Materials Incidents, 2002 Edition.* This course will assist students with the proper techniques vital to managing all hazardous materials incidents that include: recognizing the presence of hazardous materials, protecting themselves, securing the area and calling for trained personnel.

FCA 175 (2) Fire Safety Officer
This course is an introduction to the duties as written by the requirements of the National Fire Protection Association (NFPA) 1521, Standard for Fire Department Safety Officer, 2002 edition. Course elements are designed to enable the student to identify and analyze health and safety aspects relating to their role as Incident Safety Officer in both emergency and non-emergency situations.

FCA 177 (3) Wildland Urban Interface
This course is designed to assist structure and wildland firefighters who will be making tactical decisions when confronting wildland fire that threatens life, property, and improvements, in the wildland/urban interface. Instructional units include: interface awareness, size-up, initial strategy and incident action plan, structure triage, structure protection tactics, incident action plan assessment and update, follow-up and public relations, and firefighter safety in the interface

FCA 180 (3) Fire Administration
This course is an introduction into relationships and issues in personnel administration within the context of fire-related organizations. Topics include human resource management, financial management, customer service, training and education, health and safety, laws and ethics.

FCA 195 (4) Fire Officer I
Prereq: FCA 270
This course is an introduction to a fire officer's duties as written by the requirements of the National Fire Protection Association (NFPA) 1021, *Standard for Fire Officer Professional Qualifications.* Content includes leadership, supervisory and decision making practices, legal responsibilities, communication practices, report writing, workplace safety, quality assurance and pre-incident planning.

FCA 205 (3) Testing H2O Systems
This course is an introduction to testing of water-based suppression systems principles. Performance outcomes will include, I&T of water-based fire protection systems, hydrant flow test, fire pump test and forward flow test of backflow preventers.

FCA 255 (3) Fire Instructor II
Prereq: FCA 155
Builds and expands on the skills learned in Fire Instructor I. This course is designed to provide the Fire Instructor with the next level of understanding for the training of personnel. This course is designed to train the participants to perform job and task analysis, develop goals and objectives, and develop a lesson plan along with the coordinating of training aids and student test and evaluation. Prepares the student for the requirements as written by the National Fire Protection Association, (NFPA) 1041, *Standard for Fire Service Instructor Qualifications (2002).*

FCA 259 (3) Legal Aspects of Fire Service
This course introduces the federal, state and local laws that regulate emergency services, national standards influencing emergency services, standard of care, tort, liability and a review of relevant court cases.

FCA 260 (2) Basic Incident Command System/National Incident Management System
Prereq: FCA 160
This course introduces the Incident Command System (ICS) and provides the foundation for higher-level ICS training. This course describes the history, features, and principles and organization structure of the Incident Command System. It also explains the relationship between ICS and the National Incident Management System (NIMS). (Course will meet ICS 100/200 requirements).

FCA 261 (2) Hazardous Material On-Scene Incident Commander
Prereq: FCA 270
Examines regulatory issues, hazard analysis, multi-agency contingency planning, response personnel, multi-agency response resources, agency policies, procedures and implementation, public education and emergency information systems, health and safety, command post dynamics, strategic and tactical considerations, recovery and termination procedures, and program evaluation.

FCA 262 (4) Disaster and Fire Defense Planning
This course examines concepts and principles of community risk assessment, planning and response to fires and natural disasters, including Incident Command System (ICS), mutual aid and automatic response, training and preparedness, communications, civil disasters, earthquake preparedness, and disaster recovery.

FCA 265 (4) Fire Officer II
Prereq: FCA 155 and FCA 195
This course is an introduction to a fire officer's duties as written by the requirements of the National Fire Protection Association (NFPA) 1021, *Standard for Fire Officer Professional Qualifications*. Content includes interaction with government agencies, report writing, managing human resource, RMS, budgets, performance appraisal and exposure reports.

FCA 270 (2) Hazardous Materials Operations
Prereq: FCA 170
This course meets National Fire Protection Association (NFPA) 472, *Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents, 2002 edition* requirements and expands on the awareness level to an operational ability to control, contain and confine hazardous materials. Course elements include basic skills needed to evaluate and work defensively at an incident involving the release of a hazardous material for the purpose of protecting persons, property and the environment from the effects of the release.

FCA 272 (3) Negotiation
This course introduces a critical skill needed for effective management. Negotiation explores the major concepts and theories of the psychology of bargaining and negotiation, and the dynamics of interpersonal and intergroup conflict and its resolution. Content includes basic elements of conflict and negotiation, the processes of communication, persuasion, and ethical judgment, external influences on negotiations and breakdowns in the negotiation process.

FCA 274 (4) Occupational Safety and Health for Fire Service
This course introduces the basic concepts of occupational health and safety as it relates to emergency service organizations. Topics include risk evaluation and control procedures for fire stations, training sites, emergency vehicles, emergency situations involving fire, EMS, hazardous materials and technical rescue.

FCA 280 (4) Advanced Fire Administration
Prereq: FCA 180
This course introduces the student to the organization and management of fire departments preparing fire officers to be fire administrators. Instruction will include various components of the fire service organization, cultural differences, line and staff functions including personnel management, recruitment and hiring practices, legal aspects, disciplinary actions, communication skills, safety practices, budgetary practices and ethics.

FCA 285 (3) Fire and Life Safety Educator
This course prepares students in comprehensive community fire and injury prevention programs designed to eliminate or mitigate situations that endanger lives, health, property, or the environment. Course elements include: documenting, scheduling, selecting, presenting, developing, implementing and evaluating within a framework of instructional methodology and concepts. This course is an introduction to a public fire and life safety educator's duties as written by the requirements of the National Fire Protection Association (NFPA) 1035, *Standard for Professional Qualifications for Public Fire and Life Safety Educator (2005)*.

FCA 295 (4) Fire Officer III
Prereq: FCA 255 and FCA 265
This course provides the basic tools for analyzing and evaluating budgets, programs, policies, personnel and management systems within the fire service organization. Data interpretation and planning are major elements addressed in this course. Enhancement of fire service leadership decision-making capabilities is the primary focus of this course. Prepares the student for the requirements as written by the National Fire Protection Association, (NFPA) 1021, *Standard for Fire Officer Professional Qualifications, 2003 edition*.

■ FOOD SERVICE MANAGEMENT (FSM)

Courses offered through Extended Learning programs only.

FSM 102 (5) Equipment, Facilities and Maintenance
Creative planning for a merchandisable atmosphere at optimum cost.

FSM 103 (5) Nutrition and Menu Planning
Restaurant menu planning and nutritional considerations, with special emphasis on menu types and specializations.

FSM 105 (3) Quantity Food Preparation: Entrees
Prereq: FSM 116
This course introduces basic terminology, principles, and methods for preparation of meat/meat alternatives and entrees. Participants will practice their skills and techniques of quantity cooking in a kitchen facility.

FSM 106 (5) Supervision and Management of Quantity Food Preparation II
Prereq: FSM 102 , 103 or 105
A study of food service supervision and management techniques with emphasis on advanced procedures in culinary arts.

FSM 109 (5) Personnel and Human Relations
Develop a knowledge of restaurant organizations, effective management techniques, employee motivation and training.

FSM 110 (5) Food & Beverage Cost Analysis
Prereq: FSM 103
Techniques of controlling foods, beverages, supplies and equipment in a food service establishment.

FSM 112 (1) Introduction to Child Nutrition Program Management
Provides an introduction to child nutrition program management, including the history and evolution of child nutrition programs, legislation, state and federal regulations, program requirements, funding, and the benchmarks of a quality program.

FSM 114 (3) Marketing Child Nutrition
This course provides participants with a step-by-step process to help them develop a customized marketing plan for child nutrition programs. Emphasis will be on strategies for merchandising, promotion, public relations, and customer service.

FSM 115 (1) Basic Nutrition
For school food service workers and potential supervisors. Includes nutrition as related to meeting dietary goals, preschool through Grade 12, modifying recipes, promoting nutrition through school lunches.

FSM 116 (1) Safety and Sanitation
Basic food safety and sanitation practices for school personnel. Microbiology as it relates to foodborne illness and prevention, agar plates, accident prevention, proper use of thermometer, housekeeping and personal hygiene, transporting and serving techniques, and being prepared for health inspector.

FSM 117 (1) Nutrition – Team Teaching
Provides methodology and techniques for team teaching nutrition for school food service workers. Topics emphasized are: review of nutrition, definition, needs, and goals of Child Nutrition Programs, resources and teaching aids, integration into curriculum.

FSM 118 (1) Healthy Edge
This course provides child nutrition services personnel with the basic knowledge and skills to implement the Dietary Guidelines for Americans successfully and effectively in child nutrition programs, using a total team approach.

FSM 121 (3) Quantity Food Production: Salads, Snacks and Sandwiches
Prereq: FSM 116 or instructor permission
Provides the basic techniques for the ordering, preparing, handling, and storing of fresh produce and vegetables. Includes salad and sandwich preparation and presentation.

FSM 122 (3) Quality Food Preparation: Bakeshop
This course provides an in-depth study and practical application of basic bakeshop production techniques. Emphasis will be on the preparation methods of doughs, batters, and yeast products.

FSM 130 (3) Child Nutritional Needs for Diverse Populations
This course identifies special nutritional needs that must be considered when serving a diverse student population, including cultural, medical, physical, and developmental needs.

■ FRENCH (FRCH)

FRCH &121 (5) French I
• GER-HM
The first quarter of a sequential beginning course in spoken and written French language.

FRCH&122 (5) French II
• GER-HM
Prereq: FRCH& 121 with a grade of 2.0 or better, or 1 year high school French plus placement in ENGL& 101or instructor permission.
Continuation of FRCH& 121 stressing speaking, reading, writing, and understanding the French language.

FRCH& 123 (5) French III
• GER-HM
Prereq: FRCH& 122 with a grade of 2.0 or better, or 2 years high school French plus placement in ENGL& 101; or instructor permission.
Continuation of FRCH& 122 stressing speaking, reading, writing and understanding the French language.

■ GENERAL EDUCATIONAL DEVELOPMENT (GED)

Non-credit GED courses are offered under Basic Skills through the Transitional Education Division. Courses offered are comprehensive Basic GED, Advanced GED, Educational Interview and individual subject areas, i.e. Math, English, Social Studies, English, Literature and Arts, and Science. See GED listing under "Adult Basic Education" in the PROGRAMS OF STUDY section for more information.

GEOGRAPHY (GEOG)

GEOG 100 (5) Introduction to Geography • GER-SS
Introduction to Geography introduces the student to the basic principles, concepts, and methods used in geography. The course introduces students to the principles and practices of the science of geography. Students will study the basic concepts of the following sub-fields of geography. The Earth Science Tradition: Cartography, Physical Geography and the Geography of Natural Resources. Culture-Environment Tradition: Population Geography, Cultural Geography and the Geography of Spatial Behavior. The Locational Tradition: Economic Geography, Urban Geography and the Human Impact on the Environment.

GEOG 150 (5) The Americas, Australia/New Zealand • GER-SS
An introduction to the rich variety of peoples, traditions, and landscapes in the geographic realms of Europe, Russia, North America, Middle America, South America and Australia/ New Zealand. Emphasis is on the origins and evolution of the diverse cultural heritages of these regions, their interactions with the world as a whole, and on present interaction between these peoples and their environments.

GEOG 160 (5) Africa, Middle East and Asia • GER-SS
An introduction to the rich variety of peoples, traditions, and landscapes in the geographic realms of Sub-Saharan Africa, North Africa, South West Asia, South Asia, East Asia, and South East Asia. Emphasis is on the origins and evolution of the diverse cultural heritages of these regions, their interactions with the world as a whole, and on present interaction between these peoples and their environments.

GEOG 200 (5) Human Geography • GER-SS
An examination of the relationships between humans and their environments. Introduces basic concepts in human geography relating to economic activities, landscapes, languages, migrations, nations, regions, and religions. Serves as the basis for further course work in cultural, economic, political, population and urban geography.

GEOG 205 (5) Physical Geography • GER-NS
The student will learn about the processes that produce natural physical landscapes and weather phenomena. The course should result in an enhanced appreciation of the landscapes of the world. Physical Geography will introduce you to climatology, the science that deals with the study of the earth's weather systems and weather patterns; geomorphology, the science that deals with the study of landforms, their formation and change over time; and biogeography, natural vegetation types and their distribution, as well as soils. Non-lab course.

GEOG 207 (5) Economic Geography • GER-SS
The changing locations and spatial patterns of economic activity, including: production in agriculture, manufacturing, and services; spatial economic principles of trade, transportation, communications, and corporate organization; regional economic development, and the diffusion of technological innovation. Topics include international trade, colonialism, industrial capitalism, advanced capitalism and the globalization of labor markets.

GEOG 210 (5) Physical Geography • GER-NS
The student will learn about the processes that produce natural physical landscapes and weather phenomena. The course should result in an enhanced appreciation of the landscapes of the world. Physical Geography will introduce you to climatology, the science that deals with the study of the earth's weather systems and weather patterns; geomorphology, the science that deals with the study of landforms, their formation and change over time; and biogeography, natural vegetation types and their distribution, as well as soils. Lab included.

GEOLOGY (GEOL)

GEOL& 101 (5) Introduction to Physical Geology • GER-NS
A study of minerals, rocks and te dynamic processes that shape the Earth's surface over time., such as Earth's tectonics, volcanism, earthquakes, landslides, streams, and coastlines. Special topics such as resources or climate change may be included. Appropriate for non-science and science majors. Field trip required. Labs included.

GEOL& 103 (5) Historical Geology • GER-NS
A study of the development and interactions of the Earth's crust, life, oceans, and atmosphere through geologic time, in order to provide perspective on present-day global environmental concerns. Includes studies of the formation and break-up of supercontinents, global climate change, fossil, dinosaur and other mass extinctions, meteor. Appropriate for non-science and science majors. Field trip required. Lab included.

GEOL 107 (5) Earth Systems Science • GER-NS
An introductory Earth Science course that covers essential topics in geology, meteorology, oceanograph, and astronomy, The focus is on the system connections, connections and interrelationships between the four Earth science disciplines. Special emphasis will be placed on examples from the Pacific Northwest. Appropriate for non-science and science majors. Field trip required. Lab included.

GEOL& 110 (5) Environmental Geology • GER-NS
A study of the interaction of humans and the Earth, with emphasis on geologic hazards such as earthquakes, volcanic activity, landslides, and flooding; resources such as energy, water, and minerals; disposal of wastes and pollution. Appropriate for non-science and science majors. Field trip required. Labs included.

GEOL& 115 (5) Geology of National Parks • GER-NS
Introduces the student to basic geologic processes and history, using the variety of features preserved in our National Park and Monument system. Appropriate for non-science and science majors. Lab included. Field trips required.

GEOL& 120 (5) Volcanoes • GER-NS
A study of volcanos, volcanic processes and volcanic hazards. Appropriate for non-science and science majors. Field trips required. Lab included.

GEOL 140 (5) Principles of Field Mapping • GER-NS
Prereq: GEOL& 101 or instructor permission
Interpretation of topographic, geologic and aerial photo maps with applications in constructing geologic and base maps from field data. Lab included.

GEOL& 208 (5) Geology of the Pacific Northwest • GER-NS
Prereq: GEOL& 101 or GEOL& 103 or instructor permission
A study of the development of the Pacific Northwest, including pertinent rock formations, structures, mineral resources, environmental issues, and fossils. Appropriate for non-science and science majors. Field trips required. Labs included.

GEOL 220 (5) Earth Resources and the Environment • GER-NS
Prereq: GEOL& 101 or instructor permission
The study of Earth's resources, including geologic origin, environmental issues, mineral law, economics, and uses. Appropriate for non-science and science majors. Field trips required. Lab included.

GEOL 283 (5) Regional Geology • GER-NS
Study of the geologic formations, structures, and geologic history that create the landscapes of a selected region. Appropriate for non-science and science majors.

GERMAN (GERM)

GERM& 121 (5) German I • GER-HM
The first quarter of a first-year sequential course to give the student the ability to speak, read, write and understand the German language and culture.

GERM& 122 (5) German II • GER-HM
Prereq: GERM& 121 with a grade of 2.0 or better; or 1 year H.S. German plus placement in ENGL& 101; or instructor permission
Continuation of GERM& 121 stressing speaking, reading, writing and understanding German.

GERM& 123 (5) German III • GER-HM
Prereq: GERM& 122, 2 years high school German plus placement in ENGL& 101 or GERM& 122, or instructor permission.
Continuation of GERM& 122 stressing speaking, reading, writing and understanding German.

HEALTH SCIENCE (HSCI)

HSCI 101 (3) Foundations of Allied Health
Introductory course for students considering careers in allied health. Covers the basics of allied health care roles and responsibilities. Course includes state required AIDS/HIV curriculum, HIPPA training, customer service, medical terminology and documentation.

HSCI 105 (5) School Health Care
Offered through Extended Learning
Course will include infection control and safety, infectious diseases, common school health problems, and health issues specific to K-12 for school health care providers.

HSCI 106 (5) School Health Care II
Offered through Extended Learning
Prereq: Successful completion of HSCI 105
Examination of staff roles in a school health care setting; identification of symptoms of common childhood illnesses and procedures for handling these illnesses and other health-related issues.

HSCI 111 (6.5) Nursing Assistant Training
Prereq: Reading placement test with a minimum score of READ 075
Essentials of patient care in an extended care facility primarily designed for nursing assistants who must meet state certification requirements. Includes a minimum of seven hours of AIDS education.

HSCI 114 (3) Therapeutic Communication in Healthcare Settings
Prereq: Placement for ENGL& 101
The study of communicating with a diverse client population across the lifespan. Includes information management, interpersonal relationships, group process and effective techniques to work with clients and coworkers in a variety of settings.

HSCI 116 (4) Pharmacology for Allied Health
Prereq: CHEM& 121, BIOL& 241, BIOL& 242 and BIOL& 260
Administration of medication, types of drugs, routes of administration and related laws. Computation skills in dosage calculation are emphasized. Includes laboratory practice of computation, medication administration and the use of related technology.

HSCI 119 (5) Human Health and Disease • GER-NS
A systematic overview of human anatomy, physiology and pathology. Intended for anyone interested in understanding health and disease interrelationships. A laboratory course for non-science majors.

HSCI 140 (5) Contemporary Health Science Problems • GER-NS
Introduction to contemporary issues related to the impact of technology on human health, including reproductive manipulation, birth defects, nutrition, organ research, immunity to disease, inheritance, genes, eugenics, and euthenics. Laboratory course for non-science majors.

HSCI 151 (5) Personal and Community Health • GER-NS
Contemporary issues and trends in modern human health.

HSCI 155 (5) Applied Anatomy and Physiology for the Health & Fitness Professional
An introductory course with lab designed to foster in the health and fitness professional student the knowledge, skills and capabilities necessary for advanced coursework in the Diagnostic Health & Fitness Technician Program. Course covers basic anatomy and physiology with an emphasis on its relationship to exercise, performance and health. Laboratory course required for DHFT Certificate and Degree candidates.

HSCI 200 (5) Human Stress – Its Nature & Control • GER-NS
Examines human stress, its causes, consequences and benefits, while exploring specific strategies and techniques to control stress and use it for growth.

HSCI 210 (5) Wellness • GER-NS
A comprehensive study of human wellness including adequate fitness, nutrition, stress management, disease prevention, sexual wellness, spirituality, smoking cessation, substance abuse, weight control, cardiovascular endurance assessment, and metabolic pathways and systems. Lab Included.

HSCI 228 (2) CPR for the Professional Rescuer, with First Aid and Blood Borne Pathogens
Course designed to teach those with a duty to act the skills needed to response appropriately to breathing and cardiac emergencies. National American Red Cross sponsored course: CPR for the Professional Rescuer including (Adult/Child CPR/AED and Infant CPR, First Aid, and Blood Borne Pathogens meeting the Occupational Safety and Health Administration (OSHA) standard with American Red Cross Certification. Meets the Health Care Provider level of certification.

HSCI 235 (4) Issues and Trends in Healthcare Management
Prereq: HSCI 114 and HSCI 116
Management and leadership theories as applied to allied health settings. Explores challenges, issues and trends in healthcare to include skill building for managing care, leading groups, and resolving conflict within organizations. At the end of the quarter, the student will be expected to complete a professional healthcare management portfolio.

HSCI 250 (3) Kinesiology
Prereq: HSCI 155
An introductory course providing a basic understanding of the mechanical principles of human movement and how these mechanical principles relate to human health and performance.

HSCI 252 (3) Nutrition and Exercise
A course designed to familiarize the health and fitness professional with the fundamentals of exercise and nutrition for health assessment and health prescription.

HSCI 253 (2) Essentials of Weight Management
A course designed to familiarize the health and fitness professional with the fundamentals of weight management, exercise and nutrition.

HSCI 254 (5) Essentials of Fitness Training
A course designed to familiarize the health and fitness professional with the fundamentals fitness training and health prescription.

HSCI 256 (5) Exercise Physiology for the Health and Fitness Professional
Prereq: HSCI 155, 252 and 253 or instructor permission
A course designed to equip the health and fitness professional with the proper application of physiologic principles as they relate to exercise. Examines principles related to bioenergetics, nutrition, hormones, and the pulmonary, cardiovascular, hormone and neuromuscular systems.

HSCI 257 (3) Client Care and Marketing for the Health and Fitness Professional
A course designed to familiarize the health and fitness professional with the Personal Trainer/Client relationship and concepts in the fitness industry business and marketing.

HSCI 258 (2) Athletic Training and Acute Injury Management
Prereq: HSCI 155 or instructor permission
A course designed to familiarize the health and fitness professional with guidelines and recommendations for preventing injuries, recognizing injuries and learning how to correctly manage a specific injury.

HSCI 259 (3) Special Populations Care for the Health and Fitness Professional
Prereq: HSCI 155, 250, 254, 256 and 258 or instructor permission
A course designed to familiarize the health and fitness professional with the knowledge to identify, and manage the health and fitness needs for chronic disease and special needs populations.

HSCI 260 (5) Health Assessment and Fitness Testing
Prereq: HSCI 155, 250, 252, 253, 254 and 256 or instructor permission
The course is designed to equip the health and fitness professional with health assessment and fitness testing techniques necessary for laboratory assessment and health prescription.

HSCI 261 (2) Principles of Coaching
An introductory course designed to equip the health and fitness professional with the knowledge, skills and capabilities necessary for a career in coaching.

HSCI 262 (5) DHFT Internship
Prereq: HSCI 155, 250, 252, 253, 254, 256, 257, 258, 259 and 260 or instructor permission.
A course designed to provide the health and fitness professional with practical field experience.

HSCI 263 (5) Applied Sport Psychology
A course designed to equip the health and fitness professional with the knowledge and skills in applied sport psychology necessary for a career in coaching.

HSCI 264 (3) Drugs in Sports
An introductory course designed to equip the coaching professional with the knowledge, skills and capabilities necessary for dealing with various drugs and purported ergogenic aids associated with a career in coaching.

HSCI 265 (5) PCCC Practicum
Prereq: HSCI 155, 250, 252, 253, 256, 258, 260, 261, 263 and 264 or instructor permission
A course designed to provide the health and fitness professional with practical coaching experience in educational or athletic settings.

HSCI 278 (8) Emergency Medical Technician – Basic
Offered at military sites through Extended Learning. This is a pre-certification for Emergency Medical Technican Basic.
Prereq: CPR Certification as AHA "Healthcare Provider" or Red Cross " Professional Rescuer"
Learn and develop skills necessary to provide emergency medical care at a basic life support level with an ambulance service or other specialized service. The student will be capable of recognizing and assessing the nature and seriousness of a patient's condition or injuries.

■ HISTORY (HIST)

HIST& 126 (5) World Civilizations I • GER-SS
Examines the growth and development of various civilizations from the Stone Age to 1100. Emphasis is on political, economic, religious and cultural similarities and differences among these civilizations.

HIST& 127 (5) World Civilizations II • GER-SS
Examines the growth and development of various civilizations from the Renaissance to 1815. Emphasis is on the ideas which spawned religious, economic, political, and scientific revolutions and their impact on various civilizations.

HIST& 128 (5) World Civilizations III • GER-SS
Examines the growth and development of the modern nation state from 1815 to the present. Emphasis is centered on political, economic, religious, and social developments in major civilizations and their impact on a regional and global scale.

HIST& 156 (5) History of U. S. I • GER-SS
A survey of the economic, social, political and diplomatic history of the United States from the period of European expansion to 1840.

HIST& 157 (5) History of U. S. II • GER-SS
A survey of the economic, social, political and diplomatic history of the United States from 1840 to 1900.

HIST& 158 (5) History of U. S. III • GER-SS
A survey of the economic, social, political and diplomatic history of the United States from 1900 to the present.

HIST& 159 (5) History of U.S. IV • GER-SS
A survey of the economic, social, political and diplomatic history of the United States from 1939 to the present.

HIST 168 (5) Vietnam War as History • GER-SS
An in-depth look at the issues leading up to and sustaining American involvement in Vietnam. This examination involves historical, economic, political, religious and social issues from a number of different cultural perspectives.

HIST 207 (5) Historical Study Abroad
A historical overview of the economic, religious, social, legal, educational and artistic make up of a city, culture or country other than the United States.

HIST& 214 (5) Pacific Northwest History • GER-SS
History of Washington and the Pacific Northwest: exploration, settlement, economic development, growth of government and social institutions.

HIST 230 (5) Concise History of Science and Technology • GER-SS
A survey course emphasizing salient aspects of the evolution of science and technology and their impacts on society from prehistoric to modern times.

HIST 260 (5) History of Russia and the Soviet Union • GER-SS
Explore the development of the Russian State from 700 AD to the present. Emphasis is on the political, economic and religious ideas which shaped the Russian outlook and eventually culminated in the rise and fall of the Soviet Union.

HIST 265 (5) History of Latin American Since 1810 • GER-SS
The course will examine the historical development, cultural milieu, and elements of the geography of all nations in Mesoamerica, the Caribbean, and South America. The regional and chronological approaches will be used when dwelling on issues, such as revolutions, guerrilla movements, political strife, social inequality, ethnic diversity, environmental degradation, globalization, etc.

HIST 266 (5) History of Europe Since 1870 • GER-SS
The course will examine the development, cultural milieu, and elements of the geography of all nations in Europe. The regional and chronological approaches will be used when dwelling on Issues, such as wars, revolutions, guerrilla movements, political strife, social inequality, ethnic diversity, environmental degradation, globalization, etc.

HIST 267 (5) History of Africa Since 1800 • GER-SS
The course will examine the development, cultural milieu, and elements of the geography of all nations in Africa. The regional and chronological approaches will be used when dwelling on issues, such as revolutions, guerrilla movements, political strife, social

inequality, ethnic diversity, environmental degradation, globalization, etc.

HIST 268 (5) History of Warfare • GER-SS
This course will cover the most significant developments in warfare since antiquity. The regional and chronological approaches will be used, as well as the showing of relevant documentaries and presentations by local veterans of our military services.

HIST 269 (5) U.S. Foreign Policy Since 1776 • GER-SS
This course will examine the U.S. role on the international arena since its inception as a sovereign nation. It will include an analysis of the formulation of our foreign policy, its different approaches, its implementation, and the views of a variety of critics - both domestic and foreign.

HIST 270 (5) Introduction to the Far East • GER-SS
A survey of the major social, political, and economic trends in the Far East with emphasis on developments since the early 1800's.

HIST 272 (5) Survey of Middle East History • GER-SS
A survey of Middle East history from the 5th Century A.D. to the present, including the development of the modern states after World War II.

HIST 277 (5) The Cold War • GER-SS
An in-depth look of the post-Second World War era from 1945 to 1989. Emphasis is on the political, economic, and religious aspects of the Cold War and its impact on emerging Third World nations.

HIST 280 (5) Introduction to Chinese Civilization • GER-SS
A survey of the major aspects in the development of Chinese civilization from antiquity to the present day.

HIST 284 (5) Introduction to the Balkans • GER-SS
A survey course in the history of the Balkans, a region that cradles some of the world's oldest civilizations and forms a crossroads between Europe and Asia. Emphasis placed on post-1800 political, socioeconomic and cultural developments.

HIST 287 (5) History of Japan Since Antiquity • GER-SS
This course is an introduction to the history, geography, culture, and present position of Japan in the international community. Cardinal developments in a broad range of human activities will be covered in a chronological order.

■ HOMELAND SECURITY (HSEM)

HSEM 102 (5) Introduction to Emergency Management
Prereq: This is a required first course to enter the HSEM degree program. Must earn a 2.0 or better before taking other HSEM courses
Provides groundwork on which emergency services can build a strong foundation for disaster and emergency management for homeland security in the 21st century. Addresses issues, policies, questions, best practices, and lessons learned through recent years; requirements of NFPA® 1600, Standard on Emergency Management and exposure to new and developing theories, practices and technology in emergency management.

HSEM 110 (2) Basic Incident Command System/National Incident Management System
This course introduces the Incident Command System (ICS) and provides the foundation for higher-level ICS training. This course describes the history, features, and principles and organization structure of the Incident Command System. It also explains the relationship between ICS and the National Incident Management System (NIMS). (Course will meet ICS 100/200 requirements.)

HSEM 120 (3) All Hazards Emergency Planning
Prereq: HSEM 102
This course is designed to introduce students in developing an effective emergency planning system. This course offers training in the fundamentals of the emergency planning process, including the rationale behind planning. Emphasis will be placed on hazard/risk analysis and planning team development. Other topics, such as Continuity of Operations (COOP), Emergency Support Functions, National Response Plan, Washington State Comprehensive Emergency Management Plan and contingency planning for areas such as Special Needs (Vulnerable Populations) or Animal Sheltering are included.

HSEM 130 (3) Technology in Emergency Management
Prereq: HSEM 102
This class provides a detailed overview of the technology used, and also clearly explains how the technology is applied in the field of emergency management. Students will learn how to utilize technology in emergency planning; response, recovery and mitigation efforts and they'll uncover the key elements that must be in place for technology to enhance the emergency management process. Course overviews include: Web Emergency Operations Center (EOC), using technology with training and exercises, reverse 911 notification systems, video conferencing/downlinks and Geographic Information System (GIS)/Global Positioning System (GPS) capabilities.

HSEM 157 (2) Public Information Officer
The course is designed to train participants for coordinating and disseminating information released during emergency operations and of assisting in the scheduling and coordination of news conferences and similar media events. After completing this course the student will have met the sections required for Public Information Officer as outlined by NFPA 1035.

HSEM 160 (5) Emergency Response Awareness to Terrorism
Provides current and relevant information about terrorism, terrorist behavior, homeland security policies and dilemmas, and how to deal effectively with threats and the consequences of attacks. Student will gain Insight into the key players involved in emergency management, local and state issues, particularly as they need to interact and work with FEMA and other federal agencies. Course components include identifying terrorism, causes of terrorism, preventing terrorist attacks, responding to terrorism attacks and avoidance in communication and leadership collapse.

HSEM 180 (3) Public Administration
This course provides an overview in the structure and issues of public service. Course participants will examine the context of public administration: the political system, the role of federalism, bureaucratic politics and power, and the various theories of administration that guide public managers today. Course components include public administration, personnel, budgeting, decision-making, organizational behavior, leadership, and policy implementation. Lessons will be drawn from the most current applications of public administration today, such as Hurricane Katrina efforts and Homeland Security.

HSEM 190 (1-5) Homeland Security Emergency Management Special Topics
Prereq: HSEM 102, must have completed 12 HSEM credits or HSEM Program Coordinator approval
Special topics will be developd for areas outside the usual course offerings in Homeland Security Emergency Management degree. Topics developd will focus on a specific current issue of concept in the areas of homeland security or emergency management. NOTE: A maximum of five (5) credits hours of HSEM 190 may be used as elective credit toward the HSEM degree.

HSEM 200 (2) Emergency Operations Center
Prereq: HSEM 102 and HSEM 1110
This course provides the student with skills and knowledge to manage an Emergency Operations Center (EOC), acquire and control resources, and interface with on-scene responders within Incident Management Systems. Topics include EOC design, preparing, staffring and operating, jurisdictional setting, and the critical link between Incident Management Systems and emergency management operations.

HSEM 210 (3) Exercise Design and Evaluation
Prereq: HSEM 102 & HSEM 120 or program coordinator approval
This course provides participants with the knowledge and skills to develop, conduct, evaluate and report effective exercises that test a community's operations plan and operational response capability. Throughout the course, participants will learn about topics including exercise program management, design and development, evaluation, and improvement planning. It also builds a foundation for subsequent exercise courses, which provide the specifics of the Homeland Security Exercise and Evaluation Program (HSEEP) and the National Standard Exercise Curriculum (NSEC).

HSEM 220 (2) Developing and Managing Volunteer Resources
Prereq: HSEM 102
This course will focus on methods and procedures for involving private-sector organizations and volunteers in emergency management programs in ways which benefit both parties. The focus of the course is on maximizing the effectiveness of volunteer resources by implementing a people-oriented system that addresses defining volunteer roles, designing a plan of action, recruiting volunteers, training individuals who volunteer and motivation and maintenance of a successful program. Participants will acquire skills and knowledge to make appropriate volunteer assignments that enhance the effectiveness of an integrated emergency management system.

HSEM 230 (2) Disaster Recovery and Response
Prereq: HSEM 102 and HSEM 120 or program coordinator approval
The purpose of this course is to enable students to understand and think critically about response and recovery operations in the profession of emergency management. Students will utilize problem based learning by analyzing actual disaster events and applying the theories, principals, and practice of response and recovery. In addition, students will learn about the issues faced by special populations and how to address these special needs in natural disaster response and recovery.

HSEM 240 (5) Homeland Security Emergency Management Work-Based Learning
Prereq: HSEM 102 and requires HSEM program coordinator approval
Provides students "real world experiences" in homeland security and emergency management. Students learn to work within time constraints and are exposed to appropriate workplace behaviors. Students will have opportunities to refine the core skills they have learned from the courses or curriculum.

HSEM 250 (3) Homeland Security Law and Ethics
Prereq: HSEM 102
This course is designed to give the student an overview of various statutes, regulations, constitutional law, and common law associated with Homeland Security. This course examines emergency response, weapons of mass destruction, local government powers, Federal Emergency Management Agency (FEMA), Department of Homeland Security, civil rights, international anti-terrorism efforts, Homeland Security Act of 2002, and the Patriot Act. Students will be introduced to the legalities and ethics relevant to organizing for conterterrorism, investigating terrorism and other national security threats, crises and consequence management.

■ HUMAN DEVELOPMENT (HUMDV)

HUMDV 100 (1) Effective Relationships
This course provides students with group experiences emphasizing the

affective domain of human growth. It focuses oh the varied aspects of people's emotions, feelings, values, and the relationship of these to intellectual pursuit and making life more meaningful.

HUMDV 101 (2) Personal Effectiveness Seminar
Addresses issues of personal development for adults, including defining stress and anger, identifying personal triggers and responses, understanding change, and designing and implementing healthy coping strategies.

HUMDV 102 (2) Human Potential Seminar
Provides a set of experiences through which students learn to identify their potentialities, and to put these potentialities to work in their lives. It is designed to increase self-esteem, intra-personal awareness and interpersonal affectivity. The seminar takes place in a small group setting and involves structured group activities.

HUMDV 103 (5-15) PierceWorks! Career Transition
A 6-week career transition course to assist individuals with career development and human relations. This course empowers students to explore careers and career clusters and make informed educational and career decisions. Students analyze their own interests, skills, personality, and attributes and use this information in the career selection process. Students use interest inventories and computer software to explore career opportunities available to them and link personal interests with related career fields. Activities enable students to increase self-awareness and develop the skills necessary to successfully plan for postsecondary education and the workplace. Basic job search skills include contacting employers, writing, and practicing interview skills. An emphasis is placed on developing skills necessary for success in the workforce. These employability skills include such areas as: teamwork, dependability, punctuality, attitude and interpersonal relationship skills.

HUMDV 106 (3) Life Skills for the Twenty-First Century
Students explore ideas and applications related to living and working in the twenty-first century.

HUMDV 120 (3) Human Relations
Prereq: GED or High School Diploma
Survey of workplace skills, including communication, team building, problem solving and leadership. Emphasis on concepts of attitudes, perception, motivation and ethics.

HUMDV 125 (2) Choosing a Major
Course involves learning new techniques that help bridge personal transitions in life and in college, including the research of careers best suited for the individual which result in personal decision-making.

HUMDV 126 (2) Life Skills: Stress Management
Course involves learning new techniques that help bridge personal transitions in life and in college, including learning to manage stress to remain balanced and healthy.

HUMDV 127 (2) Life Skills: Assertiveness Training
Course involves learning new techniques that help bridge personal transitions in life and in college. Including the practice of techniques that build personal strength and character within interactions with others.

HUMANITIES (HUM)

HUM& 101 (5) Introduction to Humanities • GER-HM
Prereq: Eligibility for ENGL& 101
Exposes students to works in the literary, performing, and visual arts. Students identify common themes in the arts, analyze works representing diverse perspectives, and investigate the political, social, and historical contexts of works. A broader understanding is encouraged through the exploration and synthesis of outside sources using research methods.

HUM 105 (5) Black Thought and Culture • GER-HM
Beginning with African traditions and closing with a look at contemporary issues, this course will examine the cultural heritage of African Americans in relation to their language, literature, fine arts, music, religion and philosophy.

HUM 106 (5) Ethnic Thought and Culture • GER-HM
A comparative study of art, literature, and music representing various ethnic groups in America, and investigation of various issues surrounding ethnic identities.

HUM 107 (5) Latin American Thought and Culture • GER-HM
Examines Latin America through the lens of the humanities. Students will explore the literature, film, music and art of Latin America and how it has been shaped by cultural and geographical diversity, domestic and international politics, religion, social structure and economics. Team work and research skills will be developed.

HUM 108 (2) Asian Thought and Culture
A general study of Asian culture and society, past and present.

HUM 109 (5) American Thought and Culture: The Harlem Renaissance • GER-HM
A study of the Black American cultural movement of the late 1920's and 1930's known as the Harlem Renaissance through examination of the history, politics, philosophy, literature, music, visual arts, dance and theatre of the movement with the American context.

HUM& 116 (5) Humanities I • GER-HM
A survey of Western cultural ideas and expression from ancient times through the Middle Ages. Topics include art, architecture, music, literature, philosophy and religions.

HUM& 117 (5) Humanities II • GER-HM
A survey of Western cultural ideas and expression from the Early Renaissance through the 17th Century. Topics include art, architecture, music, literature, philosophy and religions.

HUM& 118 (5) Humanities III • GER-HM
A survey of Western cultural ideas and expression from the 18th Century through modern times. Topics include art, architecture, music, literature, philosophy and religions.

HUM 120 (5) Introduction to Folklore • GER-HM
Offers an overview of folklore as a discipline of academic study. The class focuses in depth on a few genres of folkloric materials to provide an understanding of how folklorists approach the study of folklore. The course utilizes a variety of learning activities including small group work, class seminars, lectures, quizzes and independent research.

HUM 161 (5) Western Thought and Culture I: The Classical World • GER-HM
A survey of Western cultural ideas and expressions from early Aegean civilization to the 5th century C.E. Topics include history, geography, culture, philosophy, religion, art, architecture, and literature of the Greco-Roman world.

HUM 162 (5) Western Thought and Culture II: The Middle Ages • GER-HM
A survey of Western cultural ideas and expressions from the fall of the Western Roman Empire to the early Florentine Renaissance. Topics include history, geography, culture, philosophy, religion, art, architecture, literature, and music of the Middle Ages.

HUM 163 (5) Western Thought and Culture III: Birth of the Modern World • GER-HM
A survey of Western cultural ideas and expressions from the Italian Renaissance to the 18th century. Topics include history, geography, culture, philosophy, religion, science, art, architecture, literature, and music from the 15th-18th centuries.

HUM 164 (5) Western Thought and Culture IV: The Modern World • GER-HM
A survey of Western cultural ideas and expressions from the 18th century through postmodernism. Topics include history, geography, culture, philosophy, religion, science and technology, art, architecture, literature, and music from the French Revolution to the postmodern era.

HUM 204 (5) American Popular Culture • GER-HM
This course examines various theories of popular culture and applies these theories to various aspects of American culture, such as mass media, sports, fashion and cultural stereotypes.

HUM 210 (5) American Cinema and Society • GER-HM
Explores the relationship between the themes, major genres, and production of Hollywood cinema, and American social, political, and economic history from the early 1900s to the present.

HUM 212 (5) Great Directors and Auteurs • GER-HM
Examines the role of the director as "author" (auteur) of the film and the several competing theories about what film authorship entails. This class also explores the works, stylistic expressions and filmic choices of major world directors such as Alfred Hitchcock, Francis Ford Coppola, Steven Speilberg, Ousmane Sembene, Stanley Kubrick, Ingmar Bergman, and Francois Truffaut. An additional emphasis is placed on analyzing the changing role of the director from Hollywood's studio system heyday to today's independent filmmaking practices.

HUM 215 (5) World Cinema • GER-HM
Examines the films and film-making practices of countries around the world. This class explores such topics as the impact of technical changes and production standards on filmmaking. A additional emphasis will be placed on analyzing cinematic choices in many world cinema movements such as German Expressionism, Italian Neo-Realism, British Social Realism, The French New Wave, and the phases of Third World Cinema.

HUM 240 (5) World Religions GER-HM
Survey of the world's five major religions: Hinduism, Buddhism, Islam, Judaism, and Christianity. Exploration of the basic tenets, origins and evolution of each religion; reflection on the influence they have had on history, culture and the arts.

INFORMATION STUDIES (INFO)

INFO 100 (1) Online Research Skills
Introduction to Internet research using online library resources and the free web. Students will learn how search engines work, how to develop search strategies, how to use criteria to evaluate sources, and the impact of emerging web technologies on society.

INFO 101 (2) Research Essentials
Prereq: Eligibility for ENGL& 101
Introduction to the essential skills, concepts and strategies for college-level research. Students will learn how to effectively access, use and evaluate information resources, including books, periodicals, databases and the Internet. Information strategies will be examined through the lens of information seeking behavior. Students will also explore Information issues and theories such as information flow, censorship, intellectual freedom and bias and perspective.

INFO 102 (2) Problem Based Research Methods in Professional/Technical Programs
Introduction to the essential skills, concepts and strategies for academic and professional research. Using problems and topics encountered by professionals, students will learn how to effectively access, use and evaluate information resources. This course is intended for majors in professional/technical programs.

INTERDISCIPLINARY STUDIES (INTS)

INTS 107 (5) Introduction to International Studies • GER-SS
An introduction to global issues emphasizing the integrated and increasingly interdependent nature of the world, including: historical, political, economical, environmental and philosophical issues.

INTS 140 (5) Contemporary Issues in International Studies • GER-SS
Contemporary issues facing a visiting foreign professor's homeland, including but not limited to: historical, geographical, demographic, political, economic, environmental and social/ cultural issues.

INTS 150 (5) Contemporary Rebel, Secessionist, and Terrorist Organizations • GER-SS
This course will cover major rebel, separatist, guerrilla, and terrorist movements and organizations in the modern world. The emphasis will be not only on their origins and current status but also on efforts that are undertaken to bring about a peaceful resolution to the conflicts that have caused them.

INTS 164 (5) Border and Genocidal Conflicts in the Modern World • GER SS
This course will examine the origins and evolution of many devastating conflicts in recent history. The teaching methodology will be based on combining the regional and chronological approaches and the intensive use of current articles in periodicals from all over the world.

INTERNATIONAL EDUCATION (IE)

Non-credit and/or below-college level Intensive English and TOEFL Prep courses are offered through our International Education program. See "International Education" in PROGRAMS OF STUDY section for information.

INTERPRETER LANGUAGE TRAINING (INTP)

INTP 101 (5) Introduction to Language Interpreting
Introduction to interpreting as a career. Outlines the role and responsibilities of interpreters, the various interpreting environments, and the significance of cultural factors in the field.

INTP 105 (3) Ethics of Interpreting
An exploration of the ethics, protocols, and legal aspects of interpreting, including certification requirements. Intended for those pursuing a career in interpreting.

INTP 110 (5) Foundations of Interpreting Skills
Pre-req: INTP 101, may be taken concurrently
Introduction to interpreting skills. Students develop intralingual skills and explore linguistic structures that support the complex process of interpretation.

INTP 201 (4) Social Service Interpreting Skills
Prereq: INTP 110, SSMH 110 and instructor permission.
Specialized bilingual skills and vocabulary for social service interpreting.

INTP 202 (4) Medical Interpreting Skills
Prereq: INTP 110, BTECH 150 and BTECH 151. BTECH 151 may be taken concurrently and instructor permission.
Specialized bilingual skills and vocabulary for health care interpreting.

INTP 203 (5) Legal Interpreting Skills
Prereq: INTP 110, BTECH 261 and BTECH 262. BTECH 262 may be taken concurrently and instructor permission.
Specialized bilingual skills and vocabulary for legal interpreting.

INTP 297 (1) Practicum in Language Interpreting
Prereq: Instructor permission and concurrent registration in INTP 298.
Capstone work experience in language interpreting. Options based on particular area of interest.

INTP 298 (1) Seminar in Language Interpreting
Prereq: Instructor permission
Capstone course which supports and develops the practicum experience for students completing a certificate in interpreting.

JAPANESE (JAPN)

JAPN& 121 (5) Japanese I • GER-HM
The first course of a first-year sequential course providing the student the ability to speak, read, write, and understand Japanese.

JAPN& 122 (5) Japanese II • GER-HM
Prereq: JAPN& 121, one year H.S. Japanese, or instructor permission
The second course of a first-year sequential course providing the student with the ability to speak, read, write, and understand Japanese.

JAPN& 123 (5) Japanese III • GER-HM
Prereq: JAPN& 122, two years of H. S. Japanese, or instructor permission
The third course of a first-year sequential course providing the student with the ability to speak, read, write, and understand Japanese.

JAPN 130 (3) Conversational Japanese
An exposure to the Japanese language through listening, speaking and autography recognition. Students will learn how to handle basic life skills in Japanese.

JAPN 135 (2) Japanese Vocabulary
This course is designed to build basic vocabulary for students traveling to Japan.

JOURNALISM (JOURN)

Introduction to Mass Media
– See Communication Studies

JOURN 102 (5) Introduction to News Writing • GER-CM
Prereq: ENGL& 101 with grade of 2.0 or better
A study of the basic forms and styles of various newswriting techniques and mechanics. Writing exercises in basic newswriting, as well as work in news gathering, interview techniques, copy assimilation, copy editing, headline writing and other roles of the reporter.

JOURN 103 (1-5) Introduction to Feature Writing • GER-HM
Prereq: Instructor permission and JOURN 102 with a 2.0 or better
A study and practice of the form and style of writing feature stories for the college newspaper. Students will serve as staff writers for The Pioneer and generate and/or receive feature story assignments for publication. This course is a sequel to JOURN 102, Intro to News Writing.

JOURN 105 (5) Student Newspaper Leadership
A study and practice of production and leadership skills needed to edit and produce a student newspaper, including but not limited to design concepts, desktop publishing via Adobe InDesign; website publishing vis WordPress; AP style; policy and process; the basics of news, news sytle and the news market and elements of libel and news ethics..

JOURN 110 (5) Publications Design
Prereq: Basic computer literacy and Microsoft Word recommended
An introduction to the basics of designing and producing documents for such publications as newsletters, magazines, and tabloid newspaper pages through the use of basic desktop publishing and digital imaging software.

JOURN 111/211abc (1-5) College Newspaper: Reporting and Editing
Prereq: instructor permission required
Practical experience in producing the college newspaper. Students may pursue specialty areas of interest such as writing, copyediting, desktop publishing, market research, advertising.

JOURN 112/212abc (1-5) College Newspaper Photojournalism
Practical experience in shooting, developing photos for the school newspaper. Students should already have a basic working knowledge of photography.

JOURN 120 (5) Introduction to Broadcasting
Prereq: ENGL& 101 with grade of 2.0 or better
A study of the styles and techniques of internet broadcasting with an emphasis on webcasts and podcasts wit h various delivery platforms. Techniques include but are not limited to video production (shooting, editing, microphone, lighting); motion graphics (such as titles and animated mapes); and audio editing.

JOURN 125 (5) The Documentary: A Social Force • GER-HM
Throughout history, the documentary film has been a major social force that has moved us, amused us, manipulated us and inspired us. Using viewings and group discussions, this class examines the history and genres of the non-fiction film and the social impact of modern documentaries.

JOURN 210 (5) Photojournalism
Prereq: 35 mm. camera or digital equivalent
A study of news photos and great photojournalists. Students will evaluate photos, including their own, develop photo essays, and learn how to present the photos in an attractive layout. Access to a camera is required.

KOREAN (KREA)

KREA& 121 (5) Korean I • GER-HM
The first quarter of a first-year sequential course to give the student the ability to speak, read, write, and understand Korean.

KREA& 122 (5) Korean II • GER-HM
Prereq: KREA& 121 or instructor permission
Continuation of KREA& 121 stressing speaking, reading, writing, and understanding the Korean language.

KREA& 123 (5) Korean III • GER-HM
Prereq: KREA& 122 or instructor permission
Continuation of KREA& 122 stressing speaking, reading, writing, and understanding the Korean language.

MATHEMATICS (MATH)

MATH 042 (3) Fractions, Decimals & Percents
Basic operations with fractions, decimals and precents.

MATH 051 (5) Fundamentals of Arithmetic
Prereq: Satisfactory placement test score or Instructor permission
Fundamental operations with whole numbers, fractions and decimals. Solve problems including percent, ratio and proportion, measurement and geometric figures. Introduction to signed numbers, measures of center, and interpretation of basic data graphs.

MATH 052 (5) Applied Arithmetic
Offered through Extended Learning only
Fundamental operations with whole numbers, fractions and decimals. Solve problems including percent, ratio, and proportion, measurement and geometric figures.

MATH 054 (5) Prealgebra
Prereq: Satisfactory placement test score or MATH 051 with a grade of at least 2.0 or instructor permission.
Review operations with fractions, decimals and percents; operations with signed numbers. Simplify algebraic expressions. Solve linear equations. Solve a variety of application problems. Introduce square roots, exponents, and coordinate graphing. Determine area, perimeter, and volume. Calculate statistical measures of center; interpret graphs.

MATH 058 (3) Introduction to Algebra I
Prereq: Satisfactory placement test score or MATH 051 or MATH 054 with a grade of at least 2.0 or instructor permission
Basic operation with numeric polynomials expressions; solving linear equations, linear inequalities; applications.

MATH 059 (2) Introduction to Algebra II
Prereq: MATH 058 with a grade of at least 2.0 or instructor permission
Linear graphs, system of linear equations; applications.

MATH 060 (5) Introduction to Algebra
Prereq: Satisfactory placement test score or MATH 051 with a grade of at least 3.0 or MATH 054 with a grade of 2.0 or instructor permission
Basic operations with numeric and polynomial expressions; solving linear equations, linear inequalities, systems of linear equations and quadratic equations; linear graphs; applications.

MATH 069 (5) Applied Algebra
Offered through Extended Learning only
Prereq: Satisfactory completion of MATH 052 or instructor permission
Perform basic operations with polynomials, rational, and radical expressions. Solve linear and quadratic equations and graph linear equations.

MATH 095 (5) Intermediate Algebra with Modeling
Prereq: Satisfactory placement test score or MATH 059 or MATH 060 with a grade of at least 2.0 or instructor permission
Intermediate algebra taught in context, focusing on the use of linear, quadratic, power, and exponential functions to model and help solve problems encountered in the real world. Applications may be drawn from the social sciences, biology, ecology, economics, or other disciplines. Technology is used to enhance understanding of algebraic concepts. This course serves as an alternative to MATH 098 (Intermediate Algebra) for students who need only MATH& 107, MATH& 146, or selected other quantitative skills courses.

MATH 098 (5) Intermediate Algebra
Prereq: Satisfactory placement test score or MATH 059 or MATH 060 with a grade of at least 2.0 or instructor permission
Function concepts and graphs; rational and radical expressions; solving quadratic, rational, radical, absolute value and exponential equations; applications.

MATH 100 (3) Mathematics for the Trades
Offered through Extended Learning
College mathematics including basic algebra, plane geometry, triangle trigonometry, linear and quadratic equations, logarithms, functions, and graphing with emphasis on solving real-world problems faced by workers in the trades.

MATH& 107 (5) Math in Society • GER-NS, QS
Prereq: MATH 095 or 098 or equivalent, with a grade of at least 2.0 or placement test score above MATH 098
Contemporary mathematics applied to a variety of fields. Instructor chosen topics will focus on graphical and formula derived solutions, statistics, applied problems, and communicating solutions. Topics may include management science, statistics, social choice, patterns and financial applications.

MATH 114 (5) Applied Algebra, Geometry and Trigonometry • GER-NS, QS
Prereq: MATH 098 or equivalent with at least a 2.0 or placement test scores above MATH 098
Linear, quadratic, logarithmic, exponential, and trigonometric functions and their applications. Interpretation and display of information using rectangular, polar, and logarithmic coordinate systems. Right triangle and unit circle trigonometry. Vector operations using real and complex numbers. Solutions to systems of linear equations.

MATH& 141 (5) Precalculus I • GER-NS, QS
Prereq: MATH 098 or equivalent with a grade of at least 2.0 or placement test scores above MATH 098
Families of functions, their properties, graphs and applications. Functions include: polynomial, rational, exponential, logarithmic functions and combinations of these. Solve related equations and inequalities. Data analysis, introductory mathematical modeling. Develop competency with a graphing calculator.

MATH& 142 (5) Precalculus II • GER-NS, QS
Prereq: MATH& 141 with a grade of at least 2.0 or instructor permission
Families of trigonometric functions, their inverses, properties, graphs and applications. Trigonometric equations and identities. Laws of sines and cosines. Systems of equations. Polar coordinates and graphs. Elementary vector operations.

MATH& 146 (5) Introduction to Statistics • GER-NS, QS
Prereq: MATH 095 or 098 or equivalent with a grade of at least 2.0 or placement test score above MATH 098
Introduction to the analysis of data using descriptive statistics, probability, and inferential statistics. Topics include: data collection methods; measures of center and variation; graphical presentation of data; probability; binomial and normal distributions; confidence intervals; hypothesis tests of one and two parameters, using the normal, Student-t, and chi-square distributions; linear correlation and regression.

MATH& 148 (5) Business Calculus • GER-NS, QS
Prereq: MATH& 141 or 156 with a grade of at least 2.0 or instructor permission.
Concise course in calculus. Differential and integral calculus of non-trigonometric functions with an emphasis in social science, business, and economics applications.

MATH& 151 (5) Calculus I • GER-NS, QS
Prereq: MATH& 142 with a grade of at least 2.0 or instructor permission
Families of algebraic and transcendental functions and their derivatives. Limits, including indeterminate forms. Applications of differential calculus. Anti-derivatives.

MATH& 152 (5) Calculus II • GER-NS, QS
Prereq: MATH& 151 with a grade of at least 2.0 or instructor permission.
Fundamental Theorem of Calculus. Definite and indefinite integrals. Methods of integration. Applications of integration. Improper integrals. Introduction to first order differential equations.

MATH& 153 (5) Calculus III • GER-NS, QS
Prereq: Completion of MATH& 152 with a grade of 2.0 or higher or instructor permission
Sequences and series. Vectors and geometry of space. The calculus of vector functions and parametric surfaces. Polar, cylindrical and spherical coordinates.

MATH 156 (5) Finite Mathematics • GER-NS, QS
Prereq: MATH 098 or equivalent with a grade of at least 2.0 or placement test score above MATH 098
Linear, polynomial and rational function models. Exponential and logarithmic functions. Mathematics of finance, matrices, linear programming, set operations, and probability.

MATH &171 (5) Math for Elem Educ I: Number Systems • GER-QS
Prereq: MATH 095 or MATH 098 or equivalent with a grade of at least 2.0 or placement test score above MATH 098 and eligible for ENGL& 101 and READ 101
The first of three courses for prospective elementary teachers focusing on the mathematics underlying modern elementary school math. Topics Include: number systems, models for operations, problem-solving techniques, and a variety of Instructional approaches. Emphasizes deep conceptual understanding of content, connections among topics, and communication of mathematical Ideas. Appropriate technology is incorporated.

MATH& 172 (5) Math for Elem Educ II: Geometry and Measurement • GER-QS
Prereq: MATH &171 with a grade of at least 2.0 or instructor permission
This is the second of three courses for prospective elementary teachers focusing on the foundation underlying modern elementary school math. Topics include geometry, measurement, and numeric and algebraic concepts. A variety of applications are included. This course emphasizes deep conceptual understanding of content, connections among topics, and communication of mathematical ideas. Appropriate technology is incorporated.

MATH& 173 (5) Math for Elem Educ III: Statistics and Probability • GER-QS
Prereq: MATH& 171 with a grade of at least 2.0 or instructor permission
This is the last of three courses for prospective elementary teachers focusing on the foundation underlying modern elementary school math. Topics include algebraic and numeric topics, functions, and graphs; collection, display, analysis, and interpretation of data; probability of simple and compound events; and making and testing conjectures using statistics and probability. This course emphasizes deep conceptual understanding of content, connections among topics, and communication of mathematical ideas. Appropriate technology is incorporated.

MATH 205 (5) Linear Algebra • GER-NS, QS
Prereq: MATH & 153 with a grade of 2.0 or higher or instructor permission. MATH 224 recommended,
Applications and techniques of Linear Algebra, including solving systems of equations, vector spaces, matrix operations, linear transformations, eigenvalues, eigenvectors, and characteristic polynomials. Introduction to appropriate technology and elementary proofs.

MATH 210 (5) Discrete Math • GER-NS, QS
Prereq: MATH& 142 with a grade of 2.0 or higher or instructor permission or placement test score above MATH& 142
Discrete mathematical structures centered around elementary logic, methods of proof, set theory, basic counting, mathematical induction, recursion, and their applications in computer science.

MATH 224 (5) Multivariate Calculus • GER-NS, QS
Prereq: MATH& 153 with a grade of 2.0 or better or instructor permission
Functions of several variables. Partial derivatives, multiple integrals, and their applications. Vector analysis including vector fields, line and surface integrals, Green's theorem, Stokes' theorem, and the Divergence theorem.

MATH 238 (5) Differential Equations • GER-NS, QS
Prereq: MATH 205 and 224 with a grade of 2.0 or higher instructor permission
First and second order differential equations with applications to the sciences and engineering. An introduction to higher order equations. Laplace Transform. Systems of linear differential equations. Topics at the discretion of the instructor include numerical methods, phase plane analysis, and series solutions to differential equations.

■ MILITARY SCIENCE (MSCI)

Army ROTC courses held in conjunction with Pacific Lutheran University.

MSCI 111 (2) Basic Officership I
Prereq: Instructor permission
An introduction to the officership environment. Includes an introduction to military science; influential legislation and ROTC, roles of the Army, and special programs associated with ROTC.

MSCI 112 (2) Military Communication Skills
Prereq: Instructor Permission
Development of written and oral communication skills for the military leader. Practical application through student participation, presentations, and writing projects.

MSCI 113 (5) Introduction to Military Operations
Prereq: Instructor permission
Highlights management and control of lower-echelon units, tactical movement/deployment and communications.

MSCI 211 (2) Introduction to Leadership
Prereq: Instructor permission
An introduction to Army values and leadership dimensions and basic fundamentals of Army map reading for second-year military science students. Two labs included.

MSCI 212 (2) Leadership and Teamwork I
Prereq: Instructor permission
Through a series of films, books, essays and discussions, the student is introduced to troop-leading procedures and planning, and explores military value sets and ethics practiced within the profession of arms. Includes Leadership and Field Training Exercises.

MSCI 213 (2) Leadership and Teamwork II
Prereq: Instructor permission
Through a series of classroom simulations, participants are evaluated on their potential as leaders and managers. Includes organizational behavior, leadership theories, management competencies, communication skills and physical fitness. Includes three (3) Leadership Labs and one (1) Field Training Exercise (Spring).

MSCI 217 (1) Army Conditioning
Prereq: Instructor permission
A fitness program for students to assist them in achieving the Army standard of physical fitness. Required prior to attendance at camps, air assault or airborne schools.

■ MUSIC (MUSC)

MUSC 100 (5) Introduction to Rock & Roll • GER-HM
Focuses on Rock and Roll as a language of music from a listener's perspective. Listening skills are exercised and become the vehicle through which specific rock music concepts are examined. Some social, biographical, and historical data covered. No previous musical experience necessary.

MUSC 102 (5) American Popular Music • GER-HM
Discover the roots of American popular music through a survey of popular song, blues, jazz, country and rock and roll styles, and the historical and social elements that impacted their development. Current popular music trends will be studied as extensions of or responses to past styles.

MUSC 103 (5) Introduction to Jazz • GER-HM
A general survey course designed to introduce students to jazz music from the following periods: ragtime, the blues, New Orleans Dixieland, Chicago Dixieland, stride piano, boogie-woogie, swing, bebop, cool, hard bop, funky, third stream, free jazz, fusion, neoclassicism, Latin jazz. Relevant cultural, biographical, and historical data is covered that pertains to jazz music and its performance. Listening skills are exercised and become the vehicle through which specific jazz music concepts are examined. No previous music experience is necessary or expected.

MUSC& 105 (5) Music Appreciation • GER-HM
A general survey course designed to introduce students to art music from the following periods: Medieval, Renaissance, Baroque, Classical, Romantic, and Twentieth Century. Relevant cultural, biographical, and historical data are covered that pertains to art music and its performance. Listening skills are exercised and become the vehicle through which specific classical art music concepts are examined. No previous music experience necessary or expected.

MUSC 106 (5) World Music • GER-HM
Examines select cultures from different areas around the world. Exercises listening skills and explores music concepts as well as engaging with issues such as diversity, cultural differences and the many societal motivations for writing, performing and preserving music. No musical experience necessary.

MUSC 107 (2.5) Audio Production I: Beginning
An introductory, hands-on course that covers the basics of midi sequencing, sound reinforcement, microphone construction and application, signal processing equipment, and analog multi-track recording.

MUSC 108 (2.5) Audio Production II: Intermediate
Prereq: MUSC 107
An intermediate, hands-on course that covers midi sequencing, sound reinforcement, microphone construction and application, signal processing equipment, and analog multitrack recording.

MUSC 109 (2.5) Audio Production III: Advanced
Prereq: MUSC 107 and 108
An advanced, hands-on course that covers midi sequencing, code synchronization, sound reinforcement, microphone construction and application, signal processing equipment, analog multi-track recording and digital multi-track recording.

MUSC 126 (1) Beginning Class Guitar • GER-HM/Performance
A performance course designed for the beginning guitarist. No prior experience expected. Students must furnish their own guitar.

MUSC 127 (1) Intermediate Class Guitar
• GER-HM/Performance
Prereq: MUSC 126 or equivalent
A performance course designed for the intermediate guitarist. Students must furnish their own guitar.

MUSC 140/240 ABC (1-2) College Choir
• GER-HM/Performance
A non-auditioned vocal performance group that provides an opportunity to rehearse and perform choral literature. Quarterly concerts required. Non-music major participation encouraged.

MUSC& 141(5) Music Theory I • GER-HM
A music theory course intended to facilitate the acquisition of music literacy and related ear-training skills. In addition, it covers the fundamentals of theory such as key and time signatures, intervals, simple chord construction, and the basics of four-part writing. This is the first course in the traditional college-level music theory sequence. No previous musical experience or knowledge is required. Concurrent enrollment in MUSC 181 is strongly recommended.

MUSC& 142 (5) Music Theory II • GER-HM
Prereq: MUSC& 141 or the equivalent
A music theory course designed to strengthen music literacy skills and to facilitate an understanding of intermediate principles regarding chords, chord progressions, figured bass, four-part writing skills, melody, and related ear-training skills. It is the second course in the traditional college-level music theory course. Concurrent enrollment in MUSC 182 or the equivalent is strongly recommended.

MUSC& 143 (5) Music Theory III • GER-HM
Prereq: MUSC& 142 or the equivalent
Strengthens music literacy skills and facilitates an understanding of more advanced principles regarding chords, chord progressions, figured-bass, melody, part-writing, and related ear-training skills. This is the third course in the traditional college-level music theory sequence. Concurrent enrollment in MUSC 183 or the equivalent is strongly recommended.

MUSC 144/244 ABCD (2.5) Concert Choir
• GER-HM/Performance
Prereq: audition may be required
An non-auditioned vocal performance group geared towards providing the experienced singer with an opportunity to rehearse and perform choral literature. Quarterly concerts a requirement. Non-music major participation encouraged.

MUSC 145/245 ABCD (2.5) Jazz Choir • GER-HM/Performance
Prereq: Department permission required
Performance, selection and evaluation of vocal jazz/pop music. Performances required.

MUSC 150/250 ABCD (1) College Band • GER-HM/Performance
A large performance group open to all students with experience in reading and performing instrumental band literature. Non-music major participation encouraged

MUSC 154/254 ABCD (1) College Orchestra
• GER-HM/Performance
A large performance group open to all students with experience reading and performing orchestra literature. Non-music major participation encouraged.

MUSC 157/257 ABCD (1, 1.5, or 2) Jazz Band
• GER-HM/Performance
A jazz instrumental performing group established to provide the experienced instrumentalist an opportunity to rehearse and perform selected jazz literature. Non-music major participation encouraged.

MUSC 160-168/260-268 ABCD (0.5) Private Instruction: Arranging, Improvisation, Brass, Woodwind, Percussion, Voice, Orchestral Strings, Keyboard and Plectrum Strings
• GER-HM/Performance
Prereq: For Priviate Instruction: Arranging, MUSC& 143 and department permission required all other Priviate Instruction, department permission required
An individual instruction course geared towards advancing all levels of student music performance in arranging, improvisation, brass, woodwind, percussion, voice, orchestral strings, keyboard, and plectrum strings.

MUSC 170/270 ABCD (1) Brass Ensemble
• GER-HM/Performance
Prereq: Department permission required
A small performance group open to all students with experience in reading and performing brass ensemble literature (I.E. Brass Quartets). Outside performances required. Outside performances required. Student self-initiative is a vital component of success in this class.

MUSC 171/271 ABCD (1) Woodwind Ensemble
• GER-HM/Performance
Prereq: Department permission required
A small performance group open to all students with experience in reading and performing woodwind ensemble literature (I.E. Flute Trios, Woodwind Quintets). Outside performances required. Student self-initiative is a vital component of success in this class.

MUSC 172/272 ABCD (1) Percussion Ensemble
• GER-HM/Performance
Prereq: Department permission required
A small performance group open to all students with experience in reading and performing percussion ensemble literature. Outside performances required. Student self-initiative is a vital component of success in this class.

MUSC 173/273 ABCD (1) String Ensemble
• GER-HM/Performance
Prereq: Department permission required
A small performance group open to all students with experience in reading and performing string ensemble literature (i.e., String Quartet). Outside performances required. Student self-initiative is a vital component of success in this class.

MUSC 174/274 ABCD (1) Vocal Ensemble
• GER-HM/Performance
Prereq: Department permission required
A small performance group open to all students with experience in reading and performing vocal ensemble literature (i.e.. Madrigals). Outside performances required. Student self-initiative is a vital component of success in this class.

MUSC 180 (2) Careers in Music
An examination of the music business system that includes songwriting, publishing, copyright, business affairs, the record industry, music in broadcasting and film, and career planning and development.

MUSC 181 (1) Beginning Class Piano • GER-HM/Performance
Basic introduction to playing the pia-

no by establishing good reading habits and rhythmic orientation. Building a strong technical background and learning basic fundamentals of music theory.

MUSC 182 (1) Intermediate Class Piano
• GER-HM/Performance
Prereq: MUSC 181 or instructor permission
A continuation of MUSIC 181 by establishing better reading habits and rhythmic orientation. Building a stronger technical background and learning more fundamentals of music theory.

MUSC 183 (1) Advanced Class Piano • GER-HM/Performance
Prereq: MUSC 182 or instructor permission
To increase music reading ability and keyboard technical skills. Prepare students for the piano proficiency test required for a music degree in a four year institution.

MUSC& 241 (5) Music Theory IV
• GER-HM
Prereq: MUSC& 143 or equivalent
The purpose of this course is to enable students to acquire music literacy, theory, and related ear-training skills. MUSC& 241 is the fourth of six courses in the traditional music theory sequence at the college level. Piano skills equal to or above the intermediate level (MUSC 182) are highly recommended.

MUSC& 242 (5) Music Theory V
• GER-HM
Prereq: MUSC& 241
To strengthen music literacy skills, to facilitate an understanding of more advanced principles regarding chords, chord progressions, melody, and related ear-training skills. Fifth course in the traditional college-level music theory sequence. Designed for, but not limited to, the student intending to transfer to a four-year college or university as a music major. Piano skills equal to or above the intermediate level (MUSC 182) are highly recommended.

MUSC& 243 (5) Music Theory VI
• GER-HM
Prereq: MUSC& 242
The sixth of six in a series of courses designed to explore, both aurally and visually, advanced harmonic and related practices in classical music. Typically, this course is taken by students intending to transfer to a four-year institution as a music major or minor.

■ NATURAL SCIENCE (NSCI)

NSCI 150 (5) Nature • GER-NS
The emphasis of the course is to identify the major life forms found in a specific area or region including native and introduced species, and their adptations to the environment. The course focuses on the observation of nature for both scientific and recational purposes. Includes lab and field studies.

NSCI 160 (5) Environmental Biology • GER-NS
Interrelationship of humans, animals, plants, soil, water and air. Application to contemporary environmental problems. Field trips with lab.

■ NURSING (NURS)

NURS 111 (3) Fundamentals of Nursing Practice
Prereq: Admission to the Associate Degree Nursing program.
Introduces basic concepts in nursing practice according to the Roy Adaptation Model. Students will practice and demonstrate use of the nursing process, assessment skills, and use of health care equipment. Upon completion, students will be able to demonstrate beginning competence in caring for individuals with common alterations in health.

NURS 112 (3) Fundamentals of Nursing Clinical Practice
Prereq: Admission to the Associate Degree Nursing program, Co-req: NURS 111
Application of basic nursing skills, in the classroom laboratory and clinical setting, while assuming responsibility for adult clients with common alterations in health. Includes roles and responsibilities of the nurse, nursing theory, critical thinking, the nursing process, and introduction to related technology. Concepts of the Roy Adaptation Model are used to guide developing nursing practice.

NURS 121 (4) Introduction to Medical-Surgical/Psychiatric Nursing
Prereq: HSCI 114, HSCI 116 and NURS 112
Introduction to basic medical concepts in nursing practice, according to the Roy Adaptation Model Physiological Mode. Students will practice and demonstrate use of the nursing process in order to care for individuals experiencing disorders of the musculoskeletal, integumentary, sensory, and gastrointestinal systems. Roy's Role Function Mode will be explored in order to understand introductory concepts in Psychiatric Nursing.

NURS 122 (5) Introduction to Nursing Clinical Practice
Prereq: HSCI 114, HSCI 116, NURS 111 and NURS 112
Application of basic nursing skills, in the classroom laboratory and clinical setting, while assuming responsibility for clients throughout the lifespan. Includes roles and responsibilities of the nurse, nursing theory, critical thinking, the nursing process, and introduction to related technology. The introduction to medication administration will also be covered. Concepts of the Roy Adaptation Model are used to guide developing nursing practice to individuals in the community.

NURS 125 (3) Family Nursing
Introduction to basic medical concepts in family-centered nursing care, according to the Roy Adaptation Model Physiological and Role Function Modes. The principles necessary for the care of clients in a variety of settings throughout the lifespan is explored, focusing on care of the well mother and child and pediatric clients. Course also includes death and dying at different life stages and caring for geriatric clients within the community.

NURS 130 (6) Intermediate Medical-Surgical/Psychiatric Nursing
Prereq: HSCI 114, HSCI 116, NURS 111, NURS 112, NURS 121, NURS 122, NURS 125
Intermediate medical concepts in medical-surgical/psychiatric nursing practice, according to the Roy Adaptation Model. Students will practice and demonstrate use of the nursing process in order to care for individuals experiencing disorders of the hematologic, urinary, and endocrine systems, with special attention to the peri-operative client. Roy's Self-Concept Mode will be explored.

NURS 132 (6) Intermediate Nursing Clinical Practice
Prereq: HSCI 114, HSCI 116, NURS 111, NURS 121, NURS 122, NURS 125
Application of intermediate nursing skills, in the classroom laboratory and clinical setting, while assuming responsibility for adult clients with common alterations in health. Includes roles and responsibilities of the nurse, nursing theory, critical thinking, the nursing process, and introduction to related technology. Methods of safe medication administration will be practiced. Concepts of the Roy Adaptation Model are used to guide developing nursing practice to individuals in the community in a variety of settings.

NURS 210 (4) Advanced Topics in Nursing
Prereq: Year one of nursing program, or Current LPN License
Advanced medical concepts in medical-surgical/psychiatric nursing practice, according to the Roy Adaptation Model Physiological Mode. Students will practice and demonstrate use of the nursing process in order to care for individuals experiencing disorders of the respiratory, cardiovascular, and neurological systems, with special attention to fluid and electrolyte/acid-base balance. Roy's Interdependence Mode will be explored.

NURS 211 (6) Advanced Nursing Clinical Practice
Prereq: Year one of nursing program, or Current LPN License
Application of advanced nursing skills, in the classroom laboratory and clinical setting, while assuming responsibility for adult clients with common alterations in health. Students will also provide care for obstetric clients in a variety of birthing environments. Includes roles and responsibilities of the nurse (including methods of safe medication administration), nursing theory, critical thinking, the nursing process, and understanding related technology. Concepts of the Roy Adaptation Model are used to guide developing nursing practice to individuals in the community, in a variety of settings.

NURS 214 (3) Advanced Concepts in Family Centered Nursing Care
Prereq: Year one of nursing program, or current LPN License
Advanced medical concepts in nursing practice, according to the Roy Adaptation Model Physiological and Psychosocial Modes. The principles necessary for the care of clients in a variety of settings throughout the lifespan will be explored, focusing on care of the complex pediatric and obstetric client, to include reproductive health.

NURS 217 (1) Practical Nurse Preparation Seminar
Prereq: Year one of nursing program
The study of nursing law, ethics and the practical nurse role. Employment-seeking strategies and guidance on NCLEX-PN (national licensure exam for practical nursing) preparation are included. Required for the student desiring to take the NCLEX-PN exam to become a licensed practical nurse.

NURS 218 (4) ADN Articulation Seminar
Prereq: Admission as a Bridge student in the 4th quarter of the nursing program
Articulation course for Licensed Practical Nurse (LPN) Bridge students. Examine essential components of the nursing process and review nursing concepts taught in the first year of the nursing program with a focus on performance of nursing skills in simulated skills lab.

NURS 222 (5) Professional Nursing Clinical Practice
Prereq: NURS 210, NURS 211 and NURS 214
Application of advanced nursing skills, in the classroom laboratory and a variety of clinical settings, while assuming responsibility for adult clients with common alterations in health. Includes roles and responsibilities of the nurse, including methods of safe medication administration, nursing theory, critical thinking, the nursing process, and understanding related technology. Concepts of the Roy Adaptation Model are used to guide nursing practice in a variety of community settings.

NURS 223 (3) Advanced Psychiatric Nursing
Prereq: NURS 210, NURS 211, and NURS 214
Nursing theory and professional care for clients diagnosed with a mental illness. Explore legal, ethical and cultural issues pertaining to caring for this special population, utilizing the Roy Adaptation Model as a guide.

NURS 224 (3) Professional Role Transition
Prereq: NURS 210, NURS 211, and NURS 214
Synthesis of advanced nursing concepts in nursing practice, according to the Roy Adaptation Model Physiological and Psychosocial Modes. Nursing law, ethical responsibilities and cultural awareness will be explored. Basic leadership skills in working with groups and critical thinking strategies are emphasized, with a focus on self-care to optimize professional performance. The service-connected learning project will culminate in a student teaching project at the end of the quarter.

NURS 230 (3) Advanced Topics in Nursing II
Prereq: NURS 210, NURS 211, NURS 214, NURS 222, NURS 223, and NURS 224
Advanced medical concepts in medical-surgical/psychiatric nursing practice, according to the Roy Adaptation Model Physiological Mode. Students will practice and demonstrate use of the nursing process in order to care for individuals experiencing advanced medical and psychological disorders in the acute care setting. Special focus is on nursing in critical care, telemetry, oncology, neonatal intensive care unit, and emergency

departments as well as other specialized settings. Nursing during a catastrophic event is also discussed.

NURS 233 (8) Acute Care Nursing Practicum
Prereq: NURS 210, NURS 211, NURS 214, NURS 222, NURS 223, NURS 224 and NURS 230
Clinical nursing practice in an acute care setting where students apply theory attained in all previous courses. Focus is on transition to the Registered Nurse (RN) role. Concepts of the Roy Adaptation Model are used to guide nursing practice development in a variety of health care settings during a preceptorship assignment. At the end of the course, students will also be expected to complete the National Council on State Boards of Nursing Licensing Examination (NCLEX) preparation classes and take an NCLEX-RN predictor test.

■ NUTRITION (NUTR)

NUTR& 101 (5) Nutrition • GER-NS
Introduction to the role of nutrition in human health with respect to essential nutrients, factors that affect eating habits, food advertising, nutrition and disease and establishing a healthy lifestyle.

■ OCCUPATIONAL SAFETY AND HEALTH (OSH)

OSH 100 (5) Introduction to Occupational Safety and Health
Overview of occupational safety and health, including introduction to regulatory agencies, financial and human impact of occupational injuries/illnesses, and workers compensation. Covers basic safety terminology and how to access safety information and resources. Focuses on the role of responsibility of the Safety and Health employee.

OSH 110 ((5) Safety Management
Concepts and measurements of reactive versus proactive safety practices. Students will learn the major on-the-job hazards in the workplace, and how to collect and evaluate data to identify safety and health trends. Students will also learn how to respond to safety data gathered, by developing site-specific programs, policies, and procedures.

OSH 140 (3) Regulatory Environmement
Introduction to regulatory bodies and overview to Occupation Safety and Health Agency (OSHA), Washington Industrial Safety and Health Act (WISHA), Environmental Protection Agency (EPA), Department of Transportation (DOT,) Mine Safety and Health Administration (MSHA) regulations. History and political evolution of the regulatory environment; how violations are penalized, and how a regulatory agency performs a formal inspection.

OSH 150 (3) Workers Compensation & Risk Management
Overview of risk manager role and current analysis methods. History and evolution of the workers compensation system, the Access and Disabilities Act (ADA), Family and Medical Leave Act (FMLA), and Washing-ton State Disability Act will be explored. Covers business insurance and claims process, transfer/assumption/assessment of risk, and lines of insurance.

OSH 155 (2) Special Topics in OSH - I
Topics covered will vary/rotate depending on current events and changes in the field of OSH, sample topics include: workplace violence, transportation safety, medical surveillance, health epidemics, agriculture safety, etc.

OSH 160 (3) Incident Investigation
This course covers methods and documentation required for incident investigation. Overview of supervisor role in incident investigation, methods of review, action, and follow up to prevent recurrence. Includes overview of record-keeping system.

OSH 170 (5) Training Techniques
Overview of different learning styles, and effective methods for providing training to employees. Advantages and disadvantages of different training medias and associated costs. Opportunities to provide training to other class members on selected safety topics and use different training methodologies.

OSH 190 (3) Industrial Security
Overview of the All Hazards Approach to industrial security. Site-specific vulnerability assessments, development of Emergency Action Plans, loss prevention, industrial security, history of terrorism/terrorist threats, workplace violence the National Incident Management System (NIMS) will be introduced.

OSH 220 (3) Industrial Hygiene
Basics of industrial hygiene programs and relationship to company safety plan. Addresses chemical absorption into the body, physical/airborne hazards; sampling techniques; how to identify/apply hazard control techniques; and using Material Safety Data Sheet (MSDS).

OSH 230 (3) Ergonomics
Overview of the history and evolution of ergonomics in the workplace. Ergonomic risk factors, terminology, engineering solutions, applications of the principles of body mechanics, and communication of basic ergonomic concepts and solutions.

OSH 240 (4) Handling Hazardous Materials
Overview of regulations on hazard recognition, protective equipment, biological/radiological toxicology, monitoring decontamination. Includes 40 hours of OSHA required safety training/certification for workers/supervisors. This "hands-on" course covers all regulations. Site simulations are conducted.

OSH 255 (1-3) Special Topics in OSH II
Topics covered will vary/rotate depending on current events and changes in the field of OSH, sample topics include: workplace violence, transportation safety, medical surveillance, health epidemics, agriculture safety, etc.

■ OCEANOGRAPHY (OCEA)

OCEA& 101 (5) Introduction to Oceanography • GER-NS
Oceanography is the exploration and investigation of all aspects of the marine environment. Topics include the geology of the sea floor and coastlines, the dynamics of waves, currents, and tides, the diversity of life in the ocean, salinity, and human impacts on the marine environment. Appropriate for non-science and science majors. Field trips required. Labs included.

OCEA 170 (5) Marine Biology • GER-NS
Prereq: BIOL& 160 or OCEA& 101
An introduction to the plant and animal life found in estuarine and marine ecosystems and invironments. Topics include lifestyles, adaptation, habitats, diseases and effects of pollution, interrelationships , and taxonomic identitication of marine organisms. Field trip required. Labs included.

OCEA 286 (5) Dynamics of Coral Reefs • GER-NS
Prereq: OCEA& 101
The study of coral reefs including oceanic, biologic, and environmental processes, as well as the ecological importance of coral reefs and the human distrubance of tropical marine ecosystems. Field trips required. Labs included.

■ PARAEDUCATION (PARED)

Courses offered through Extended Learning at off-campus sites.

PARED 101 (3) Conflict Resolution in a K-12 School System
Methods of resolving conflicts will be presented, including active listening skills.

PARED 110 (2) Issues, Roles and Responsibilities of the Paraeducator
Address the roles and responsibilities of paraeducators in the instructional setting. Current issues, including supervision, guidelines, role clarification, federal and state legislation, job responsibilities, ethics, professionalism, and confidentiality will be covered with special attention given to federal mandates.

PARED 115 (1) Orientation to Paraeducation Apprenticeship
This course will serve as an introduction to the purpose and responsibilities of the participants in the apprenticeship program.

PARED 116 (1) Student Records and the Law
This course provides an overview of school district policies and procedures for student records, student attendance, and record retention requirements.

PARED 117 (1) Test Administration and Scoring
Course is designed to provide instructional assistants with proper testing administration skills for standardized testing.

PARED 130 (3) Classroom and Behavior Management
An introduction to the management of children's behavior in the classroom. Explores a variety of approaches used to maintain order in the classroom.

PARED 140 (3) Legal, Health and Safety Issues
Overview of legal, health, and safety issues in public schools, including Public Law 504, HIV/AIDS privacy issues, and documentation.

PARED 210 (3) Observation, Assessment and Record Keeping
Techniques in observation, test administration, and record keeping in the public school. Ethical consideration and legal responsibilities included.

■ PHILOSOPHY (PHIL)

PHIL& 101 (5) Introduction to Philosophy • GER-HM
An introduction to the important problems and figures of philosophy. Students will examine concepts related to knowledge, reality and value. Questions posed may include: Do we have free will? What can we know? Is the mind distinct from the body?

PHIL& 106 (5) Introduction to Logic • GER-QS, NS
Prereq: MATH 095 or 098 or equivalent with a 2.0 or higher or placement test score above MATH 098. College level reading and writing recommended
An elementary symbolic course designed to help students construct sound arguments and to evaluate the arguments of others, through the language of logic. Students will use natural deduction and a variety of other methods to show validity and consistency of arguments and the truth value of statements contained in these arguments.

PHIL 110 (5) Introduction to Bioethics • GER-HM
An introduction to the major ethical issues concerning genetics, biotechnology and modern medicine, including stem cells, cloning, designer babies, genetically modified plants and foods, gene patents, genetic tests and gene therapy.

PHIL 115 (5) Introduction to Critical Thinking • GER-HM
An introductory survey of the primary elements of reasoning. Helps students develop their thoughts in a clear, logical fashion in order to analyze and evaluate their own reasoning and that of others, and to make decisions and solve problems rationally. Students learn these skills by applying them to real-life situations and a variety of media, such as conversations, television presentations, political speeches, editorials, and other writings on various topics.

PHIL 130 (2) Introduction to Systems Thinking
First in a series of courses on systems thinking. The world contains a multitude of systems such as biological, educational, governmental, economic, and cultural. Learn the fundamentals of these systems, their behaviors, and impacts.

PHIL 131 (3) Integrated Systems Thinking
Prereq: PHIL 130
Integrated Systems Thinking examines a particular system, issue, or ideological construct from a variety of disciplines. Key interdisciplinary fields include arts, humanities, math, sciences, and social sciences.

PHIL 150 (5) Introduction to Ethics • GER-HM
An introduction to the study of morality. Helps students understand and anlyze competing ethical claims based on happiness, duty, human nature and custom. QUestions include: What maked right actions right? Why should I care about the welfare of others? Are morals a product of culture or could there be universal moral values?

PHIL 155 (5) Ethics in Business • GER-HM
This course examines ethical issues that arise in the business world including professional and organizational issues. Helps students identify and solve these issues using traditional and contemporary ethical theory and the case study method. Some issues covered in this course: sexual harassment, corporations as moral entities, rights of employees and ethics in a global economy.

PHIL 210 (5) Philosophy of Western Religion • GER-HM
An introduction to the central concepts, basic problems and classical arguments of ethical monotheism (Christianity, Judaism and Islam). Explores such issues as God, faith, reason, the problem of evil and the possibility of immorality and miracles.

PHIL 220 (5) Introduction to Eastern Philosophy • GER-HM
An introductory survey of the main philosophies in India, China and Japan. Helps students understand the philosophical similarities between these systems, especially as the relate to self, reality, value, knowledge and religion.

PHIL 230 (5) Contemporary Moral Problems • GER-HM
This course introduces students to the most urgent moral problems of our day. It will provide students with an introduction to ethical theories and their application to contemporary moral problems. Topics covered may include: just war, privacy rights, capital punishment, animal rights, cloning, environmental issues including sustainability, abortion and euthansia.

PHIL 238 (5) Philosophy of Human Rights • GER-HM
Introduces students to the major issues concerning human rights. Are there human rights? Are human rights universal or are they culturally determined? Do future people have rights? Are minority rights exceptions to or different from human rights?

■ PHYSICAL EDUCATION (PE)

PE 104 (1) Beginning Golf
Instruction and practice in the fundamentals of grip, stance, swing, use of the various clubs, rules, scoring, and the etiquette of the game of golf. Some class sessions held at the driving range in addition to actual course play.

PE 105 (1) Intermediate Golf
A sequence course designed to develop more advanced golf skills learned primarily through actual play on the golf course.

PE 108 (1) Beginning Tennis
Service, forehand ground strokes, backhand ground strokes, beginning net play, singles strategy.

PE 109 (1) Intermediate Tennis
A sequence course designed to develop intermediate tennis skills involving ground stroke vs. volley techniques, intermediate serves, doubles play and intra-class competition.

PE 119 (1) Cycling
An introduction to cycling, (both road & mountain bike), designed to improve cardiovascular endurance, muscular strength, muscular endurance, flexibility and body composition.

PE 121 (1) Spin
Spin is a high energy stationary bike workout that enhances cardiovascular endurance and muscular strength. Participants select personal intensity levels during the workout through body position and bike tension. Class features include 45 minute cardio ride, including warm-up and cool-down, followed by stretching.

PE 125 (1) Lifestyle Fitness
An exercise class designed to improve cardiovascular endurance, muscular strength, muscular endurance, flexibility and body composition. Students achieve this goal by utilizing the varied fitness resources available in the fitness facility as well as walking, running, inline skating and cycling in and around the natural environment of Pierce College.

PE 126 (1) Hard Core
This is a challenging core fitness workout using balance, coordination, stability and control. Stability balls, free weights, bands, Bosu and Pilates techniques used.

PE 127 (1) Power Step
High-energy music combined with non-stop fun choreography and interval training makes this the perfect way to rev-up your cardio training and improve your power and endurance. This class provides a moderate to high intensity workout and will daily give you a challenge while burning calories!

PE 128 (1) Power Pump and Toning
A whole body exercise program that includes working with hand weights, barbells, exercise balls, Bosu balls and floor mats, all choreographed to music.

PE 129 (1) Cardio Pump
"Cardio Pump" combines a high energy cardio workout with creative choreography using hand weights, bands and floor work designed to enhance the muscular tone of all major muscle groups of the body while burning fat.

PE 131 (1) Body Conditioning
A self-paced and independent fitness program designed and monitored during class seminars that improves cardiovascular endurance, muscular strength, muscular endurance, flexibility, and body composition using both aerobic and anaerobic exercises.

PE 132 (1) Jogging
Progressive running program to improve cardio-vascular endurance and to build stamina important in performing every day skills and activities, as well as fat percentage and improve overall health.

PE 133 (1) Beginning Aerobics
An introduction to step aerobic exercise designed to improve cardiovascular endurance, muscular strength, muscular endurance, flexibility and body composition.

PE 134 (1) Intermediate Aerobics
An intermediate class in step aerobic exercise designed to improve cardiovascular endurance, muscular strength, muscular endurance, flexibility and body composition.

PE 135 (1) Advanced Aerobics
An advanced class in step aerobic exercise designed to improve cardiovascular endurance, muscular strength, muscular endurance, flexibility and body composition.

PE 137 (1) Aqua Aerobics
Exercise in the pool using the resistance of the water to improve cardiovascular endurance, muscular strength, muscular endurance, flexibility and body composition.

PE 138 (1) Intermediate Aqua Aerobics
Intermediate level exercise in the pool using the resistance of the water to improve cardiovascular endurance, muscular strength, muscular endurance, flexibility and body composition.

PE 150 (1) Swing Dance
Beginning swing dance skills designed to improve cardiovascular endurance, self esteem, social confidence and motor skills.

PE 153 (1) Beginning Salsa
Beginning Salsa dance skills designed to improve cardiovascular endurance, self esteem, social confidence and motor skills.

PE 154 (1) Intermediate Salsa
Prereq: PE 153 or instructor permission
Intermediate Salsa dance skills designed to introduce more challenging dance combinations, individual footwork technique, and the foundational elements Latin styling while improving cardiovascular endurance, self esteem, social confidence and motor skills.

PE 156 (1) Latin Dance Styling and Choreography for the Follow
Styling and choreography skills for the Latin dance "follow." This course is designed to improve the dancer's presentation, footwork and general style while performing various Latin dances as well as improving cardiovascular endurance, self esteem, social confidence and motor skills.

PE 157 (1) Hip Hop
Hip Hop combines a high energy cardio workout with creative urban dance choreography using isolation of shoulders, ribs and hips to create both solo and group dance activity and performance.

PE 158 (1) Zumba
Zumba combines a high energy cardio workout with creative dance choreography using the Latin rhythms found in cumbia, salsa, samba and merengue music.

PE 159 (1) Yoga-Pilates
An exercise practice that takes you through a series of poses in coordination with the breath designed to improve one's flexibility, balance, muscular strength and endurance as well as awareness of the mind and body connection.

PE 164 (1) Basic Basketball Skills
Instruction and practice in the basic performance skills of shooting, passing, dribbling, footwork, rebounding, defense, and the coordination of individual offensive and defensive techniques into play patterns.

PE 165 (1) Advanced Basketball Skills
Instruction and practice in the application of individual offensive and defensive skills into team basketball. Emphasis on man defense and attack including fast break. Course progresses from two-vs-two and three-vs-three to the five man game.

PE 166 (2) Advanced Baseball Skills
Develop greater skills in all aspects of playing baseball including strategy, fundamentals and improved fitness.

PE 167 (1) Court Sports
A fun introduction to volleyball, pickle ball and badminton.

PE 168 (1) Indoor Soccer
Indoor soccer skills.

PE 169 (1) Volleyball
A fun introduction to volleyball

PE 170 (1) Introduction to Weight Training
An introduction to weight training to build muscular strength and endurance.

PE 171 (1) Soccer
An introduction to soccer skills utilizing both indoor and outdoor facilities.

PE 175 (1) Mixed Martial Arts for Fitness
An introduction to mixed martial arts for fitness focusing on the fundamentals of grappling, striking and submission skills.

PE 190-192 (1) Independent Fitness Activities
An independent physical activity course for students who are unable to participate in physical education courses located at Pierce College. This course meets once every four weeks for a course seminar to assess the student's progress in an "off-campus" physical activity course the student has arranged for and paid for and which also has a certified instructor that is supervision said activities. Students must attaned all three course seminars and complete the "off-campus" activities to be successful in PE 190-192.

PE 232 (1) Intermediate Jogging-Walking
Intermediate jogging/walking is a class designed to build upon and improve basic running/walking skills and further improve cardio-vascular endurance and to build stamina important in performing every day skills and activities, as well as lower fat percentage and improve overall health.

PE 259 (1) Intermediate Yoga-Pilates
Intermediate Yoga-Pilates builds on the basic concepts of Yoga-Pilates in order to build upon the benefits of both yoga and Pilates in one workout to improve strength and flexibility and to help reduce stress.

■ PHYSICAL SCIENCE (PS)

PS 101 (5) Introduction to Physical Science • GER-NS
Prereq; High School algebra or MATH 060 with grade of at least 2.0 or instructor permission.
An introductory course for non-science majors covering the concepts of physics, chemistry, earth science, and astronomy. Lab included.

■ PHYSICS (PHYS)

PHYS& 100 (5) Physics for Non-Science Majors • GER-NS
Prereq: High school algebra or MATH 060 with grade of at least 2.0 or instructor permission.
A survey course for non-science majors that develops an awareness and appreciation of the physical environment by looking at everyday experiences and relating them to the principles and laws in physics. Lab included.

PHYS 111 (4) Preparation for General Physics
Prereq: MATH 098 with a grade of 3.0 or better or MATH& 141 with a grade of 2.0 or better or instructor permission.
An introductory course to prepare students for General Physics including: scientific notation, unit conversions, solving linear, quadratic, systems of equations, exponential and logarithmic equations, solving inequalities, graphing, trigonometry, vectors, and error analysis.

PHYS 120 (3) Data and Error Analysis in the Science Laboratory
Prereq: MATH& 141 with a grade of at least 2.0 or instructor permission
Graphical and analytical techniques in data processing and error analysis for beginning students in science laboratories. Useful for students in any science dealing with exact methods of measurements such as chemistry, physics and geology.

PHYS& 121 (5) General Physics I • GER-NS
Prereq: MATH& 142 or PHYS 111 with a grade of 2.0 or better or instructor permission.
The first quarter of a three-quarter algebra-based sequence in physics. The course covers topics in mechanics, including kinematics of motion, force, work, energy, momentum, kinematics and dynamics of rotation, and static equillbrium. Lab included.

PHYS&122 (5) General Physics II • GER-NS
Prereq: PHYS& 121 with a grade of at least 2.0
The second quarter of a three-quarter sequence in algebra-based physics dealing with the topics of properties of solids, fluid mechanics, heat, thermodynamics, vibrations, waves, sound and optics. Lab included.

PHYS&123 (5) General Physics III • GER-NS
Prereq: PHYS& 121 with a grade of at least 2.0
The third quarter of a three-quarter sequence in algera-based physics dealing with the topics of electric forces and fields, electric potential, capacitance, current, resistance, electrical power, direct current circuits, magetism, electromagnetic induction, and alternating current circuits. Lab included.

PHYS& 221 (6) Engineering Physics I • GER-NS
Prereq: High School Physics or PHYS& 121 with a grade of at least 2.0 and concurrent enrollment in or previous completion of MATH& 152 or instructor permission
The first quarter of a three-quarter sequence in calculus-based physics for science and engineering students. The course covers topics in mechanics, including kinematics of motion, force, work, energy, momentum, and kinematics and dynamics of rotation. Lab included.

PHYS& 222 (6) Engineering Physics II • GER-NS
Prereq: PHYS& 221 and MATH& 152 with grades of at least 2.0 in both
The second quarter of a three-quarter sequence in calculus-based physics for science and engineering students dealing with the topics of equilibrium of rigid bodies, properties of solids, gravity, fluid mechanics, heat, thermodynamics, waves, sound and light. Lab included.

PHYS& 223 (6) Engineering Physics III • GER-NS
Prereq: PHYS& 221 and MATH& 152 with grades of at least 2.0 in both
The third quarter of a three-quarter sequence in calculus-based physics for science and engineering students dealing with the topics of electric fields, Gauss's Law, electric potential, capacitance, current, resistance, direct current circuits, magnetic fields, electromagnetic induction, and alternating currenct circuits. Lab included.

■ POLITICAL SCIENCE (POLS)

POLS& 101 (5) Introduction to Political Science • GER-SS
A comparative analysis of the various forms of government and politics in the world together with an introduction to the terms and concepts of political science.

POLS& 200 (5) Introduction to Law • GER-SS
Introduction to the nature of law and the operation of the legal system; includes discussion of representative substantive law and analysis of the interaction between legal institutions and interest groups.

POLS& 202 (5) American Government • GER-SS
A description and analysis of the institutions, processes, and ideas that make up the American political and governmental systems.

POLS& 203 (5) International Relations • GER-SS
Designed to develop the ability to identify the terms and concepts common to international relations, analyze the problems inherent in a multipolar, interdependent nation-state political system; and evaluate the ways in which the various global actors attempt to deal with these problems.

POLS 208 (5) U.S. Campaigns and Elections • GER-SS
This course will explore various features of political campaigns and elections in America. Topics include: voter behavior, public opinion, the role of money, media and interest groups in campaigns, and the relationship of elections to policy outcomes.

POLS 230 (5) State and Local Government • GER-SS
This course looks at the different levels of government in the United States system, with emphasis on the state and local level, including their power, structure and how they interact. The constitution and politics of the government in Washington state will receive particular attention.

■ PSYCHOLOGY (PSYC)

PSYC& 100 (5) General Psychology • GER-SS
Scientific study of animal behavior and experience. Both biological and social basics of behavior are covered with emphasis on heredity, neurology, motivation, emotion, perception, cognition, learning and intelligence.

PSYC 102 (4) Career and Life Skills
Provides students with appropriate social, workplace, and decision making skills necessary to research, discern and identify career and/or vocational paths that match their personal and professional goas. Includes formal personality, values and interest assessments, career research methods, job search strategies/tools and networking techniques.

PSYC 105 (1) Human Relations/ Human Values Seminar
Group experience designed to emphasize the affective domain of human growth. Focuses on varied aspects of people's emotions, feelings, values, and the relationship of these to intellectual pursuits and making life more meaningful.

PSYC 119 (2) Disabilities in Society
Prereq: Instructor permission
Examines the rights and responsibilities of individuals with disabilities as guided by the Americans with Disabilities Act. Provides opportunities for leadership, self-advocacy, team-building and community maintenance skills.

PSYC 140 (3) Job Search Strategy
Tools and techniques to prepare the student to obtain employment. Includes goal setting, vocational planning, job search information, completing labor market surveys, and interview techniques.

PSYC 163 (3) Behavioral Psychology I
Offered through Extended Learning
A study of behavioral techniques. Focus is on the techniques of increasing wanted behavior and decreasing unwanted behavior.

PSYC 164 (3) Behavioral Psychology II
Offered through Extended Learning
Prereq: PSYC 163 or instructor permission
A study of behavioral techniques. Focus is on stimulus response chains and the process of natural consequences.

PSYC& 180 (5) Human Sexuality • GER-SS
Human sexual behavior covering the psychological, biological and sociological aspects of human sexuality.

PSYC& 200 (5) Lifespan Psychology • GER-SS
Prereq: PSYC& 100
A lifespan study of human growth and development, providing a broad understanding of the human life cycle through contributions of psychology, anthropology, sociology, biology, and medicine.

PSYC 201 (5) Psychology of Personal Growth • GER-SS
The study of personality, adjustment, love and relationships, selv-actualization and the application of psychological principles to problems met by normal people in everyday life.

PSYC 210 (5) Social Psychology • GER-SS
Prereq: PSYC& 100
Social psychology surveys how a person is affected by the world around them. Social influence includes obediency, conformity, and sales/negotiation strategies. Social relations includes sterotyping, love and liking. Social thinking includes identity, how we think about ourselves, and how we explain the world.

PSYC 215 (5) Group Experience
Prereq: PSYC& 100 or SSMH 100 or SSMH 170 or instructor permission
Small group theory and practice applicable to working with both in-patient and out-patient agency settings. Designed to further develop the student's ability to lead counseling groups in the social service/mental health professions. Active listening, group dynamics and group theory in phychology.

PSYC& 220 (5) Abnormal

Psychology • GER-SS
Prereq: PSYC& 100
A study of the history, etiology, diagnosis and treatment of abnormal behavior.

PSYC 230 (5) Intro to Personality • GER-SS
Prereq: PSYC& 100
A survey of contemporary personality theory, assessment and change

■ READING (READ)

READ 055 (1-4) Reading Tactics
Prereq: Compass placement
Designed to prepare students for college level reading through vocabulary development, recognizing ideas both stated and implied, and other strategies for comprehension.

READ 075 (1-5) Reading Tactics
Prereq: Compass Test, completion of previous level with at least a 2.0 or instructor assessment
Reading tactics focus on improving and refining reading comprehension methods, expanding vocabulary, and learning the skills necessary for success in college level courses, programs of study, and workforce.

READ 101 (1-3) College Reading
Prereq: Compass test, completion of READ 075 with a 2.0 or better or instructor permission
Designed to improve a student's critical reading skills, comprehension, vocabulary, and speed needed for success in college courses, programs of study and the workplace.

READ 102 (2) Speed Reading
Prereq: Completion of READ 101 or compass placement into College Reading
Designed to improve reading speed through the use of multiple techniques while building vocabulary and maintaining comprehension.

READ 103 (2) Accelerated Reading
Prereq: Completion of READ 102 with a 2.0 or better.
Designed to continue to improve reading speed through the use of multiple techniques while building vocabulary and maintaing comprehension.

■ RUSSIAN (RUSS)

RUSS& 121 (5) Russian I • GER-HM
The first quarter of a first year sequential course to give the student the ability to speak, read, write and understanding Russian.

RUSS& 122 (5) Russian II • GER-HM
Prereq: RUSS& 121 or 1 year high school Russian or instructor permission
Continuation of RUSS& 121 stressing speaking, reading, writing and understanding Russian.

RUSS& 123 (5) Russian III • GER-HM
Prereq: RUSS& 122 or 2 years high school Russian or instructor permission
The third quarter of a first year sequential course to give the student the ability to speak, read, write and understand the Russian language and culture.

■ SOCIAL SCIENCE (SOCS)

SOCS 210 (3) Student Leadership Development
Prereq: Instructor permission
Experiences for campus student leaders, encompassing practice and leadership style.

■ SOCIAL SERVICE/ MENTAL HEALTH (SSMH)

SSMH 100 (5) Introduction to Human Services
An introduction to the social service field. To include ethics, job requirements, case management, referral systems, and current theories and issues in the field.

SSMH 120 (5) Introduction to Correctional Mental Health
Prereq: Instructor permission
Introduction to correctional mental health including characteristics of mentally ill offenders; techniques for system/behavior management, impact of MIO's on staff and prison setting, and basic treatment planning.

SSMH 121 (2) Basic Psychopharmocology in Mental Health
An introductory course designed to help human service workers understand the psychiatric uses of psychotropic medications in mental health. Includes discussion of side effects and interactions.

SSMH 125 (4) Observation and Intervention Skills
(same as DD 125)
Offered through Extended Learning
Behavioral observation and recording techniques, report formats, interview styles, basic behavior management and referral techniques.

SSMH 145 (3) Social Service Team Building
This course explores the range of organizations and institutions that interface within the social service network, and the relationships within that network. Methods to foster cooperation, collaboration, and teamwork among each of the players in the system is explored.

SSMH 155 (3) Family Disruption
Exploration of the impact of disruption in the family when a child experiences losses, with emphasis on disruptions when a child is placed in foster care, residential treatment, or other alternative living or treatment arrangements. The dynamics of attachment, separation, loss, and grief are examined.

SSMH 170 (5) Mental Health Interviewing and Assessment
Prereq: SSMH 100 or instructor permission; SSMH 215 recommended
Introduction to helping skills and interpersonal communication, specifically, basic communications, interviewing and assessment skills, as used in community mental health settings.

SSMH 185 (3) Identity and Values in the Family
Exploration of the formation of identity, values, and self-concept in a family context including exploration of personal family history, cultural, and attitudinal factors.

SSMH 190 (3) Behavior Management in the Family
Explores theories of behavior management in the family. Emphasis is on learning to foster and create a positive climate, to prevent behavior problems and manage their impact when problems occur.

SSMH 201 (5) Social Service-Mental Health Field Experience 1
Prereq: Instructor permission and SSMH 100, 101, 170 or 215
A career-related work experience, under qualified supervison, introducing the studetn in application of professional/technical knowledge, values, and skills as perparation for employment in the social service-mental health field.

SSMH 202 (5) Social Service-Mental Health Field Experience 2
Prereq: Instructor permission and SSMH 100, 101, 170, or SSMH 215
A career-related work experience, under qualified supervision, developing the student's skills in applying professional/technical knowledge, values, and skills as preparation for employment in the social service-mental health field.

SSMH 203 (5) Social Service-Mental Health Field Experience 3
Prereq: Instructor permission and SSMH 100, 101, 170 or SSMH 215
A career-related work experience, under qualified supervision, further developing the student to apply competent entry-level professional/technical knowledge, values, and skills as prepartaion for employment in the social service-mental health field.

SSMH 210 (3) Self-Care for Care Givers
This course helps the professional care provider master personal self-care techniques. The student will learn to identify and plan strategies to cope with the multiple stresses inherent when giving care.

SSMH 215 (5) Law and Ethics in Social Services
This course explores the legal and ethical issues in social services. Includes: counselor regulation, confidentiality, client rights, involuntary commitment, rights and responsibilities of mental health professionals, mandatory reporting, child welfare, case law, and standards of conduct.

SSMH 220-222 (1-3) Issues in Social Service-Mental Health
Prereq: Instructor Permission
The study of variable issues within the context of the Social Service-Mental Health service environment.

SSMH 230 (3) Abuse in the Family
A course designed to familiarize students with problems of abuse in the family. Examines types of abuse, definitions, frequency, views of causation, as well as approaches to intervention and prevention.

■ SOCIOLOGY (SOC)

SOC& 101 (5) Introduction to Sociology • GER-SS
An introduction to sociology - the study of society and human interaction. Includes, but is not limited to, the systematic, or scientific, study of social phenomena, developing one's "sociological imagination," and exploring human relationships within the context of today's rapidly changing world.

SOC& 201 (5) Social Problems • GER-SS
A critical exporation of social problems using key sociological perspectives and research strategies. Includes exploration of cross-cultural and historical dimensions. Also looks into the influence of societies on the creation of social problems as well as the effects of social problems on these same societies and their social institutuions.

SOC 211 (5) Family and Intimate Relationships • GER-SS
A sociological exploration of family, marriage and intimate relationships. The family is explored as a social institution shaped by cultural and historical factors. Topics surveyed include attraction, dating, love, commitment choices, parenting, communication, conflict, and divorce. Students will learn about diverse forms of modern families and research findings on how to enhance family relationships.

SOC 212 (5) Death, Dying and Bereavement • GER-SS
A sociological exploration of death, dying, and bereavement. Includes, but is not limited to, the study of our "death system;" practices of the funeral service industry; the role of the healthcare system; traumatic death; facing death; care of the dying; bereavement, grief, and mourning; legal and ethical issues; practical matters; and belief in life after life.

SOC 220 (5) Gender Roles in Society • GER-SS
A sociological exploration of sex and gender in contemporary society, including an examination of the influences of biology and socialization. Also includes an exploration of the influence of sex and gender on self-concept and social opportunities. Explores historical and cross-cultural dimensions. Examines the influence of gender identity and sexual orientation on the lived experience of individuals.

SOC 284 (3) Supervised Field Study
Prereq: 10 credits in Sociology including SOC& 101 and instructor permission
A continuing experience designed to supplement the learning of theoretical material through participation in the activities of a service oriented organization in the community. 12 hours field work per week.

SOC 285 (5) Supervised Field Study
Prereq: SOC 284
A continuing experience designed to supplement the learning of theoretical material through participation in the activities of a service oriented organization in the community. 12 hours field work per week.

SPANISH (SPAN)

SPAN& 121 (5) Spanish I
• GER-HM
A first-year sequential course to give the student the ability to speak, read, write and understandSpanish.

SPAN& 122 (5) Spanish II
• GER-HM
Prereq: SPAN& 121 grade of 2.0 or better, 1 year of H.S. Spanish plus placement in ENGL& 101; or instructor permission
Second quarter of first-year Spanish stressing speaking, reading, writing and understanding Spanish.

SPAN& 123 (5) Spanish III
• GER-HM
Prereq: SPAN& 122 with a grade of 2.0 or better; or 2 years of H.S. Spanish plus placement in ENGL& 101; or instructor permission
A continuation of first-year Spanish stressing speaking, writing, reading and understanding Spanish.

SPAN& 221 (5) Spanish IV
• GER-HM
Prereq: SPAN& 123 or 3 years high school Spanish or instructor permission
Provides vocabulary building, grammar development, and practice in oral and written communication through the study of various aspects of the Spanish-speaking world. Specific cultural topics will vary at instructor's discretion.

SPAN& 222 (5) Spanish V
• GER-HM
Prereq: SPAN& 221, 4 years H.S. Spanish or instructor permission
Provides vocabulary building, grammar development, and practice in oral and written communication through the study of various aspects of the Spanish-speaking world. Specific cultural topics will vary at instructor's discretion.

SPAN& 223 (5) Spanish VI
• GER-HM
Prereq: SPAN& 222, 5 yrs. H.S. Spanish or instructor permission
Provides vocabulary building, grammar development, and practice in oral and written communication through the study of various aspects of the Spanish-speaking world. Specific cultural topics will vary at instructor's discretion.

STUDY SKILLS

See COLLEGE SUCCESS (COLLG).

VETERINARY TECHNOLOGY (VT)

VT 100 (2) Introduction to Veterinary Technology
Prereq: First-year standing in the VT program
Survey of the veterinary medical profession and the role of the technician within the profession. Outlines job opportunities, ethics and husbandry terms for various species including breed identification.

VT 101 (4) Animal Nursing I
Prereq: First year standing in the VT program
The handling and restraint of small animals in medical nursing. Administration of medication and sample collection as related to nursing care of the hospitalized animal.

VT 104 (5) Animal Nursing II
Prereq: First year standing in the VT program
Introduction to the preparation of the surgical patient, assisting the doctor in sterile surgery, pre and post-operative care of the patient, performing basic dental prophylaxis.

VT 105 (3) Animal Nursing III
Prereq: First year standing in the VT program
Basic care and treatment of exotic pet species with an overview of common medical problems and their management.

107 (2) Medical Dosage for Veterinary Technicians
Prereq: First year standing in the VT program
A course designed to help the Veterinary Technology student determine accurate veterinary medicine dosage calculations and conversions.

VT 110-112 (1) Ward Care Laboratory I-III
Prereq: First year standing in the VT program
Practical experience in daily animal care for professional, stable and ward facilities. Procedures include cleaning and sanitizing of holding facilities, supplying proper nutrition, maintaining patient medical records and administering treatments.

VT 123 (4) Large Animal Nursing
Prereq: First year standing in the VT program
Large animal husbandry techniques and procedures for basic restraint and treatment of horses and food animals.

VT 125 (6) Animal Anatomy and Physiology I
Prereq: First year standing in VT program
Study of animal body structure and function beginning with cellular components and including selected major body systems.

VT 126 (3) Animal Anatomy and Physiology II
Prereq: First year standing in VT program
Continuation of VT 125 to study animal body structure and function by including additional major body systems.

VT 150 (6) Clinical Microbiology and Public Health
Prereq: First year standing in the Veterinary Technology program
Veterinary Technology course that introduces the student to microorganisms of clinical importance in veterinary medicine. Emphasis will be placed on zoonoses and public health as it applies to veterinary medicine and the veterinary technician.

VT 155 (2) Nutrition and Complementary Therapies
Prereq: First year standing in VT program
Overview of small animal nutrition with emphasis placed on therapeutic diets, age related dietary needs, and sound nutritional recommendations. Survey of common complementary therapies used in veterinary medicine with emphasis placed on different cultures and traditions, discerning fact from fiction, and the veterinary technician's role in complementary therapy practice.

VT 160 (2) Applied Behavior Techniques I
Prereq: First year standing in VT program
Introductory course in a series of three courses on canine and feline behavior. The student will work to socialize and train program dogs and cats while learning about common behavioral problems/solutions seen in the veterinary field.

VT 161 (1) Applied Behavior Techniques II
Prereq: First year standing in VT program
Continuing practical experience in canine and feline behavior. This is a second course in a three course series. The student will apply techniques learned in VT 160 on topics such as common behavioral problems/solutions seen in the veterinary field. The student will work independently and In small groups to socialize and train program dogs and cats.

VT 162 (1) Applied Behavior Techniques III
Prereq: First year standing in VT program
Culminating course in practical experience in canine and feline behavior. This is the third course in a three course series. The student will apply techniques learned in VT 160 and VT 161 on topics such as common behavioral problems/solutions seen in the veterinary field. The student will work independently and in small groups to socialize and train program dogs and cats.

VT 166 (3) Hematology for Veterinary Technicians
Prereq: First year standing in VT program
Study of blood formation, including recognition of normal and abnormal blood cells from domestic and exotic animals, and accurate performance of Complete Blood Counts (CBC).

VT 215 (2) Animal Hospital Office Procedures
Prereq: Second year standing in VT program
Veterinary Technology course offering a broad view of typical vet clinic office procedures. Emphasis placed on the role of a veterinary technician in various professional settings.

VT 224 (2) Veterinary Clinical Laboratory Principles
Prereq: Second year standing in VT program
Lecture course covering advanced laboratory principles and techniques in hematology, urinalysis, cytology, bacteriology and parasitology.

VT 230 (4) Anesthesiology
Prereq: Second year standing in VT program
Small animal anesthesia techniques focusing on agents, administration, and management of the anesthetized patient.

VT 233 (14) Veterinary Clinical Practice
Prereq: Second year standing in VT program
Practical field experience with weekly seminar.

VT 240 (3) Animal Diseases
Prereq: Second year standing in VT program
Lecture course which covers the fundamentals of animal disease including etiology, nursing care and laboratory procedures which apply to the particular disease syndrome.

VT 250 (3) Radiology for Veterinary Technicians
Prereq: Second year standing in VT program
A course emphasizing radiography focusing on basic macinge structure, fundamental radiographic techniques, correct animal patient restraint and handling, and achievement of technical quality. Includes a discussion of small animal, large animal, and exotic animal techniques, plus an overview of alternative imaging technologies.

VT 251 (3) Pharmacology for Veterinary Technicians
Prereq: Second year standing in VT program
Introduction to the pharmacology of commonly used drugs in veterinary medicine. Drugs are grouped by category based on their target organ systems. The indication, mechanism of action, pharmacokinetics and adverse effects of each drug are discussed.

VT 260 (3) Emergency and Critical Care
Prereq: Second year standing in VT program
Overview of common small animal emergencies and the role the veterinary technician plays in the management of these patients.

VT 265 (6) Clinical Techniques Laboratory
Prereq: Second year standing in VT program
Advanced laboratory principles and techniques for veterinary technicians.

VT 266 (5) Veterinary Clinical Pathology and Parasitology
Prereq: Second year standing in VT program
Clinical laboratory course covering the most common diagnostic laboratory tests conducted in veterinary hospitals. Procedures discussed include fecal examination, urinalysis, blood chemistry test, cytology, infectious disease test and necropsy. Common animal parasites and their life cycles are covered in detail.

THE PIERCE ADVANTAGE

An A to Z guide to

learning resources,

campus services

and student life opportunities

available at the colleges

Access and Disability Services

FS: (253) 964-6526 (voice) • (253) 964-6228 (TTY)
PY: (253) 840-8335 (voice) • (253) 840-8474 (TTY)

Alternative format of college publications available upon request

Pierce College seeks to provide a fully integrated learning experience for students with disabilities by addressing physical and attitudinal barriers and promoting a campus climate that is conducive to full participation of students with disabilities.

Services and academic adjustments are designed to ensure that students with a disability have equal access to all college activities and programs. These adjustments include, but are not limited to: accessible facilities, guidelines for use of service animals, alternate formats of educational materials and testing procedures, sign language interpreters, readers and scribes. Assistive equipment offerings range from voice recognition systems to assistive learning devices.

The Americans with Disabilities Act and Section 504 of the Rehabilitation Act mandate that students with disabilities have equal access to all student services and educational programs. However, essential requirements of courses may not be modified.

Contacts with Access and Disability Services are confidential. Policies and procedures for services to students with disabilities are available at www.pierce.ctc.edu or may be requested from the Access and Disability Services office or the Office of the Vice President for Learning and Student Success at each college.

Assistance and Information

FS: (253) 964-6501
PY: (253) 840-8400

The admissions office at Fort Steilacoom or the registration office at Puyallup is the place to go for information on admission, classes, instructors, advisors, college services and events, or for referral to a specific person or department for further assistance.

Another valuable information resource is the advising center, where students can get information on programs and courses offered through the college, degree and transfer program requirements, access to catalogs from other Washington colleges, help in selecting classes and referral to other sources as needed. Refer to the advising section in the Getting Started section of this catalog for more information.

EMERGENCY CAMPUS CLOSINGS

Pierce College classes may be canceled in case of snow, extreme cold or other emergency. For information about campus closures, check for announcements on the following television and radio stations, or on the Internet:

- TV stations: KING TV 5, KIRO-TV 7, KOMO TV 4, KCPQ 13.
- AM radio: KIRO (710), KBSG (1210), KCIS (630), KGY (1240), KIXI (880), KLAY (1180), KNWX (770), KOMO (1000), KRPM (1090).
- FM radio: KBKS (106.1), KBSG (97.3), KCMS (105.3), KGY (96.9), KIRO (100.7), KJR (95.7), KLSY (92.5), KMPS (94.1), KMTT (103.7), KPLU (88.5), KPLZ (101.5), KUBE (93.3), KUOW (94.9), KVTI (90.9), KXXO (96.1), KYCW (96.5), KZOK (102.5).
- Public Schools Emergency Closure System website: www.schoolreport.org

VOTER REGISTRATION INFORMATION

FS: (253) 964-6614, PY: (253) 840-8472
www.pierce.ctc.edu/go/vote

Voter registration information and forms are available in the student programs office at either college.

Athletics

FS: (253) 964-6613
www.pierce.ctc.edu/athletics

Raider Athletics at Pierce College provide the opportunity for students to participate in intercollegiate athletics in the highly competitive Northwest Athletic Association of Community Colleges (NWAACC), composed of 35 regional members.

The Raiders field teams for women in volleyball, basketball and fastpitch softball and for men in soccer, basketball and baseball. Students interested in trying out for one of these teams can contact the athletics department at Fort Steilacoom.

Admission to Raider athletic events is free with a student I.D. card. Schedule information may be obtained in the athletics department at Fort Steilacoom.

Bookstore

FS: (253) 964-6508
PY: (253) 840-8411

Owned and operated by Pierce College, the bookstores at Pierce College Fort Steilacoom and Pierce College Puyallup carry all required textbooks and a full line of school supplies for classroom needs. The bookstores also have a selection of calculators, study aids, best-selling books, software, imprinted clothing, gift items, confections and cards for all occasions.

A mini-bookstore facility at Joint Base Lewis-McChord serves students at that site.

Campus Safety

FS: (253) 964-6751
PY: 253) 840-8481
www.pierce.ctc.edu/safety

Pierce College does not tolerate criminal activities in its facilities or on its grounds. The college encourages staff, students and visitors to immediately report any such activities — including threats, harassment or family violence — to campus safety. Other services provided include lost and found, escort service, disabled vehicle service and building access with proper authorization.

Assistance with sudden illness, injury or other emergency while attending Pierce College is available through the campus safety office at either college.

Child Care Assistance

CHILD DEVELOPMENT CENTERS

Milgard Child Development Center (FS): (253) 912-3680
Garnero Child Development Center (PY): (253) 864-3302

The Pierce College Child Development Centers provide a place where the needs of the child come first. The centers provide a high-quality early childhood program that nurtures the growth, development and education of children, students and their families while creating a model of quality early childhood education. The centers

provide affordable, accessible child care in a quality early childhood environment that recognizes children, parents and staff as part of a campus-based learning community.

For more information about the centers and the application process, go to www.pierce.ctc.edu, e-mail children@pierce.ctc.edu, or call the appropriate number listed above.

EVENING CHILD CARE PROGRAM

FS: (253) 964-6691

The Evening Child Care Program provides quality care to meet the needs of children whose parents are taking evening classes at Pierce College Fort Steilacoom. The program is designed to meet the physical, emotional, social and cognitive development of the children enrolled.

For a nominal fee, parents may enroll their children aged three years (toilet-trained) to eight years old. The program is available Monday through Thursday from 5 to 8:30 p.m. during fall, winter and spring quarters. The program is closed during breaks and all holidays observed by the college. Children must be registered for the quarter. No drop-in care is available. Enrollment packets are available for download (www.pierce.ctc.edu/dept/ece/site/evening), in the Welcome Center, or in room OLY 163, Olympic Building.

Clubs and Organizations

FS: (253) 964-6614
PY: (253) 840-8415

www.pierce.ctc.edu/studentlife/studentprograms/

Many opportunities are available to students seeking involvement in co-curricular and extracurricular activities. A wide variety of clubs and organizations address the needs of students with similar social, cultural, recreational, professional, and academic interests. Officially recognized clubs are eligible for funding from the Associated Students and may use college facilities for meetings and special events. For information about joining a club or chartering a new club, contact the clubs coordinator in the student programs office at either college or visit the students programs websites.

Computer Centers

Computer labs at both colleges provide exceptional quality, service and cutting-edge computing resources to fulfill the academic needs of the Pierce College community.

FORT STEILACOOM COMPUTER LABS

(253) 964-6310

The computer labs enable students to work on projects and accomplish computer-related academic assignments through software applications, the Internet and e-mail. The labs are located in the Olympic, Cascade and Sunrise buildings. All computers are connected to the Internet and to high-speed laser printers.

The primary computer lab is located in the Olympic Building, room OLY 301. Special-needs computers are located in the Cascade Building, room CAS 526. Students who prefer the use of Macintosh computers will find three available in OLY 302.

DIGITAL DESIGN LAB – FORT STEILACOOM

The digital design lab is a state-of-the-art facility offering full digital design capabilities for hands-on experience. The lab has 27 PC and Macintosh computers with single and dual 19-inch flat panel monitors. A wide variety of digital design software and peripheral equipment is available, such as digital cameras, photo negative scanners and camcorders.

PUYALLUP COMPUTER LABS

(253) 840-8437

The Computer Resource Center at Puyallup provides the combination of a large, open lab (CTR 272) with two integrated computer classrooms (CTR 270/CTR 274) supporting all instructional programs. These facilities are open for the use of students, faculty and staff. Qualified personnel are always available to provide assistance. The computer classrooms are also used as open labs when available.

Equipment consists primarily of IBM-compatible microcomputers. Color and laser printing are standard throughout the computer labs. Complete scanning services include optical character recognition. Some computer stations provide CD and DVD burning capabilities. A wide variety of software, including word processing, database, spreadsheet and presentation programs, is always available. In addition, various programming languages are installed as needed for coursework. All the facilities have unlimited access to the Internet and free e-mail.

Counseling Services

FS: (253) 964-6525, Welcome Desk (253) 964-6705
PY: (253) 840-8443
www.pierce.ctc.edu/dist/counseling

Life happens inside and outside the classroom. Sometimes this can cause problems for students in either or both spheres. Counseling can help studetns sort thorugh their difficulities and figure out what they can do to improve their situations. This might be learning about resources on - or off-campus; identifying how one's strengths can be put to use; or just having someone to talk to.

In an effort to address the variety of student needs, including personal, emotional, and academic needs, Pierce College provides mental health services to enrolled students at each college and at off-site locations. Faculty counselors at the Fort Steilacoom and Puyallup colleges are licensed mental health counselors for the State of Washington. Counseling services are free to enrolled students.

Dental Hygiene Clinic

FS: (253) 964-6694

The Pierce College Dental Hygiene Clinic, located at the Fort Steilacoom college, provides low-cost preventive and restorative dental procedures to Pierce College students, families and the community.

Dental hygiene students perform oral health assessments, x-rays, teeth cleanings, periodontal therapy, sealants, limited restorative procedures (tooth-colored and silver fillings) and fluoride treatments under the expert instruction and guidance of the Dental Hygiene faculty comprised of licensed dental hygienists and dentists.

To determine eligibility for services at the dental hygiene clinic, a preliminary examination must occur first that verifies a prospective patient's dental needs align with the learning needs of Pierce students. For a preliminary examination appointment, please call (253) 964-6694.

Note that procedures typically take longer than in a private dental office due to the instructional and evaluative time required to ensure that the patient's treatment by the clinic is satisfactorily met.

Employment/Career/Job Search Services

Job Connections (FS): (253) 964-6651
Job Connections (PY): (253) 864-3385

http://www.pierce.ctc.edu/dist/workforce/connections

The goal of Job Connections is to provide opportunities for students to explore career options and to make connections with:

EMPLOYMENT

- Job Board — Job search for students seeking employment with area employers.
- MyInterfase — A free job-matching service linking registered users to a database of approved internship, work study, and job opportunities in the region. Students and community job seekers may apply for jobs online, manage multiple résumés and other documents, and access a calendar of regional job fairs.

http://www.myinterfase.com/pierce_ctc/student

SELF-DIRECTED ASSESSMENT

- WOIS (Washington Occupation Information System) — Self-directed career and labor market information utilizing computer software and printed materials, includes information regarding job duties, work settings, wages, employment outlook, training required and school information.
- Workforce Explorer: Provides Washington labor market and job information, as well as economic, occupational, industry and regional reports. Go to www.workforceexplorer.com.

OTHER SERVICES

- Résumé writing assistance, review and feedback.
- Informational handouts on how to complete résumés, interview tips and employment applications.
- Career library books and other printed material to provide career and labor market information.

Fine Arts Gallery

FS: (253) 964-6535
PY: (253) 732-8165
www.pierce.ctc.edu/art

At Pierce College Fort Steilacoom, the Fine Arts Gallery is located on the fifth level of the Olympic building. It presents monthly exhibits (October through May) of works by Pierce College art faculty, professional artists and area high school art students. The year concludes with the annual Pierce College student art competition and exhibit in May.

At Pierce College Puyallup, the gallery is located in the lobby of the Arts and Allied Health Building. It features rotating exhibits of various media and themes from both student and professional artists.

Admission to both galleries is always free.

Fitness Facilities/Recreation

FS: (253) 964-6626
PY: (253) 864-3280
www.pierce.ctc.edu/studentlife/hec/

FORT STEILACOOM FACILITIES

The Fort Steilacoom Health Education Center offers physical education classes, continuing education fitness classes, Raider Intercollegiate Athletics and intramurals. The facility houses an exercise area containing a variety of weight and cardio training machines, as well as a gymnasium for intercollegiate volleyball and basketball and for intramural sports. Adjacent to the Health Education Center is Fort Steilacoom Park, which offers an excellent area for jogging and walking.

PUYALLUP FACILITIES

Various opportunities for fitness and recreational activities exist at Pierce College Puyallup. The College Center, adjacent to an outdoor multipurpose sports court, houses a pool table, air-hockey, foosball, ping-pong and many other games. Sports and game equipment may be checked out from the Student Programs office with a student ID card. Stop by room C210 in the College Center or call the number above for information.

The Health and Education Center at Puyallup focuses on student health and wellness. The facility includes state-of-the-art equipment that targets strength, functional, and cardio exercise. It also includes an exercise room, where a variety of physical education classes are offered, lockers, showers and a multipurpose classroom. Audio and visual gear offer students opportunities for music and television showings. Wireless technology is provided. Equipment for free check- out includes: medicine, stability and bosu balls; exercise and yoga mats; jump ropes; agility hurdles and ladders; and much more. Towels for day use are included in the $15 consumable fee. The center is fully funded by student recreation and fitness center fees.

Food Service

FS: (253) 964-6546
PY: (253) 840-8456

The cafeterias at Pierce College Fort Steilacoom and Pierce College Puyallup include a professional food service company that provides a full line of hot foods, grill and deli specialties, snack items and beverages. An espresso bar and snack and beverage vending machines are also available at various locations throughout the campuses.

Health Insurance/Education

FS: (253) 964-6614
PY: (253) 840-8416

STUDENT HEALTH AND DENTAL INSURANCE

Student Programs offices at Fort Steilacoom and Puyallup have information on health and dental insurance for uninsured students.

HEALTH AND WELLNESS INFORMATION

Health and wellness information and activities are offered through various credit and non-credit classes and through programs sponsored by Student Programs.

AIDS AWARENESS AND EDUCATION
Pierce College is committed to providing a safe and healthy educational environment and to providing education and information about the transmission and prevention of chronic, communicable diseases, such as Acquired Immune Deficiency Syndrome (AIDS). Consistent with existing law and in the interest of all concerned, the college takes appropriate measures to ensure a safe environment through educational services. AIDS education information is available in the Student Programs offices (CAS 418 at Fort Steilacoom and C210 at Puyallup).

Human Relations Instruction

FS: (253) 964-6705
PY: (253) 840-8431

A variety of two- and three-credit human relations/personal development/business management courses are offered every quarter throughout the school year to help students with self-awareness, interpersonal and self-development skills. Some of the topics include assertiveness training, choosing a major, job search strategies, career planning, career skills development, stress management, coping with life's challenges, disabilities in society, goal setting and the masculine mystique.

In addition, free non-credit group workshops and seminars are offered every quarter through the Student Success series. General topics include time management, note-taking, test-taking strategies, test/math anxiety, transfer process and developing effective study habits.

Library

FS: (253) 964-6547
PY: (253) 840-8300
www.pierce.ctc.edu/library

The Pierce College Library was named the Community College Library of the Year for 2005 from the National Association of College and Research Libraries. The libraries at both colleges encourage individual research and the exploration of ideas by connecting students, staff, faculty and the community with the information needed for teaching and learning, and by providing high-quality instruction to enhance information access and understanding. Resources are available in a variety of formats, including 95,000 books in print, 18,000 e-books online, 400 current periodicals in print, 14,000 periodicals in online databases, as well as newspapers, maps, DVDs and videos, and much more.

Library faculty members are available for individual assistance and instruction from the reference desk during most hours the library is open. Library faculty members are available through online chat 24/7, or via e-mail. Access to these services is available from the icons and information on the library's homepage. Classroom instructional sessions on library research also may be arranged. HUM 101, INFOR100, INFO 101 and INFO 102 are research-related courses that are offered on a regular basis.

The library's online catalog provides access to the collection at both college libraries, and students can access materials from both libraries through the district's courier service. Materials may also be borrowed from other libraries through interlibrary loan.

The library website at www. pierce.ctc.edu/library is a great starting point. The library provides access to online databases useful for student research, including popular and academic periodicals, online e-books, national and local newspapers, statistics and encyclopedias. Access to the library's catalog and most databases are available 24/7 through the library's website.

Individual carrels, group study rooms, casual lounge furniture and study tables accommodate a variety of learning styles and research needs, including a "flex" zone where students can create their own study space. A Kurzweil reader that voices printed material and a Visual-Tek text enlarger are also available to help students with visual impairments.

Multimedia workstations in the libraries assist students in enhancing papers or projects with audio and video production. Instructional sessions can be provided on request.

Multicultural Student Services

FS: (253) 964-6592
PY: (253) 840-8314
www.pierce.ctc.edu/dist/supportservices/multicultural/

Pierce College promotes the recruitment, retention, and successful completion of educational programs for students of color through its retention offices. Staff work to facilitate and implement success strategies for students of color to include:

- Promoting access and student success
- Providing academic advising, educational planning, career exploration and student programs that support students of color
- Assisting with financial aid and scholarships
- Sponsoring leadership development activities

Music Performance Groups

District: (253) 964-6572

Pierce College makes music accessible to everyone with a wide range of music courses, instruction, and performance opportunities.

Music majors can build their knowledge and performance skills while earning an associate of arts degree with an emphasis in music at Pierce College. This degree transfers to four-year colleges and universities. Courses are available in: beginning and advanced theory; music appreciation; audio production; and class piano and guitar. Private lessons are also available.

In addition to music courses, Pierce College provides students and community members the opportunity to participate in several performing groups, which give quarterly concerts and sometimes participate in local and regional festivals. Each group offers credit towards an associate degree. Participation however, is not limited to students or music majors; all students and members of the community are invited to perform.

- Concert band (MUSC150/250)
- Jazz band (MUSC157/257)
- Concert choir (MUSC144/244)
- Jazz choir (MUSC145/254)
- Orchestra (MUSC156/256)

Pierce College offers music facilities at both the Lakewood and Puyallup colleges, allowing students access to a wide range of technology and music spaces.

Music scholarships may be available. Scholarships are talent-based and require an audition. Auditions are held throughout the year and may vary depending on departmental needs.

Parking

FS: (253) 964-6751
PY: (253) 840-8481
www.pierce.ctc.edu/parking

Parking is available at both colleges. Special areas are reserved for employee, disabled, visitor, guest and carpool parking. Parking in unauthorized areas will result in a fine.

General parking for students is included in the comprehensive fee paid at the time of registration. Parking permits are required and may be obtained at the campus safety office at either college.

Only persons with state disabled license plates or hanging permits are allowed to park in parking areas for the disabled. Those with temporary disabilities may obtain permits to park in Access and Disability Services parking spaces. Contact the Access and Disability Services office at either college.

Students, employees and visitors must abide by all motor vehicle codes and other traffic laws of the State of Washington, Pierce County and Pierce College. Fines will be levied for violations. Traffic/parking citations may be appealed to the Parking Appeals Committee.

College maps with parking areas delineated are located in the Appendix. Additional information about parking is available from the campus safety office at either college.

Peer Mentoring "Peers to Peers"

PY: (253) 840-8472

Who better to help a student through the college experience than a fellow student? The Peers to Peers mentoring program facilitates this relationship by uniting students looking to build their college experience with second- and third-year students with similar interests, backgrounds, or study areas. Peer mentors regulary connect with students over lunch, work one-on-one, and help identify and access resources. Mentors also bring together groups of students for social, academic, and civic networking.

Public Transportation

Pierce Transit: (253) 581-8000
www.piercetransit.org

Both colleges are conveniently served by Pierce Transit bus lines. Brochures with routes and schedules are available at the registration counters at either college. For additional information on special rate passes, carpools and vanpools, regional reduced fare permits and other route and schedule information, call Pierce Transit at the number shown above or visit its website.

SLAM (Student Literary and Arts Magazine)

FS: (253) 964-6408
PY: (253) 840-8396
www.pierce.ctc.edu/studentlife/slam

SLAM, the Student Literary and Arts Magazine, is an annual publication dedicated to showcasing the creative abilities of Pierce College students through stories, poems, dramas, essays and works of art. Students also help determine the layout and design of the publication. The annual release for *SLAM* occurs in May. Copies are available free of charge in a variety of college locations.

Students wishing to submit works for consideration or participate in the publication's production should contact one of the numbers above.

Student Activities

FS: (253) 964-6614
PY: (253) 840-8487
www.pierce.ctc.edu/studentlife/studentprograms/

Student activities are coordinated by a student team at each college. These boards plan educational, cultural, social and entertainment, health and wellness, and recreational events, and facilitate clubs and organiztions for the students of Pierce College. The calendar of activities and events includes speakers, musicians, comedians, dances, films, outings and tournaments at both colleges.

In addition, Student Programs helps support campus clubs and organizations, theatre productions, musical performances held by the college's vocal and instrumental music groups, and athletics.

Students who serve on the activities boards gain experience in event planning, promotion, budget management and public relations. They also gain skills in communication, leadership, interpersonal relationships and teamwork. Students interested in participating in student activities can contact the Student Programs office at either college or visit the Student Life website.

Student Ambassadors

FS: (253) 912-3650

Student Ambassadors are student leaders who are dedicated to serving the students of Pierce College Fort Steilacoom. Student Ambassadors help students navigate the college sysem and use Student Online Services. The Ambassadors provide assistance to students by leading campus tours, and giving general information, directions, and referrals to campus resources. They plan and coordinate activities to improve student success, communicate important information related to advising and registration, and provide general peer mentoring and peer guidance.

Student Government

FS: (253) 964-6614
PY: (253) 840-8487
www.pierce.ctc.edu/studentlife/studentprograms/

Student government serves as the representative voice of the students of Pierce College. All Pierce College students may express opinions, interests and concerns regarding their educational experience through their representatives in student government.

Student government leaders develop and implement procedures and policies dealing with student affairs and work closely with faculty, staff and administrators to represent the students' perspective in the college governance process. Each college has an approved student constitution that governs the activity of student government and its programs and organizations. A copy of the constitution and bylaws is available in the Student Programs office of either college.

At Fort Steilacoom, student government officers are elected from the student body each spring. Members include a president, vice-president and five senators-at-large.

Puyallup student government includes a president, vice president for government concerns, vice-president of activities, two representatives, and a secretary/treasurer. Elections for representatives are held every fall. The president, vice presidents and secretary/treasurer are selected each spring by a selection committee.

Students are encouraged to take part in the leadership opportunities offered by student government. Contact Student Programs for more information, or visit the Student Life website.

Student Newspapers

***THE PIONEER,* FS: (253) 964-6604**
***THE PUYALLUP POST,* PY: (253) 840-8496**
www.pierce.ctc.edu/studentlife/musicandarts/newspaper
www.puyalluppost.com

By joining one of the college's newspaper staff, students can earn college journalism credits while gaining practical experience in writing and reporting, editing, photography, desktop publishing and advertising sales. Both student newspapers are designated public forums.

The Pioneer, Fort Steilacoom's award-winning student newspaper, is published every two weeks during fall, winter and spring quarters. All staff positions are paid, including freelance.

The *Puyallup Post* is published at Puyallup three times a quarter during fall, winter and spring quarters. The newspaper covers issues on the growing college to keep students, staff and faculty informed. The newspaper offers numerous opportunities for students to work or volunteer on the newspaper staff.

Supplemental Instruction

FS: (253) 964-6288
PY: (253) 864-3387
www.pierce.ctc.edu/dist/basicskills/si/

Supplemental Instruction is a peer-assisted study program that targets primarily selected math and science courses. Study groups meet 2-4 times per week and attendance is free, voluntary, and open to all members of the class. The informal study sessions are facilitated by Supplemental Instruction (SI) leaders, who are proficient in the subject area and trained to empower students to earn better grades and complete their courses. The program aims to improve student study skills and improve grades from one-half to a full grade point.

Theatre/Film Productions

FS: (253) 964-6659
PY: (253) 840-8393
www.pierce.ctc.edu/dept/theatre/

Auditions for theatre productions are open to anyone who wants to benefit from an educational theatre setting. Each production offers learning experiences for students and other volunteers in set design and construction, promotion, wardrobe, makeup, props, stage management, lighting, sound and special effects and acting. Both cast and crew have the opportunity to work with talented veterans, as well as stage newcomers, under the guidance of highly trained directors and designers, with full backstage support.

Cast and crew enjoy unique training opportunities afforded by the new Black Box theatre at Fort Steilacoom and a new full-featured traditional theater at Puyallup. Both theatres offer state-of-the-art lighting and sound systems.

Pierce College Theatre prides itself on presenting plays that are artistically challenging for technicians and actors, as well as exciting for audiences. Opportunities are also available for students to explore digital film production technology and to make movies.

For more information on the theatre program, see the Programs Of Study section of this catalog.

Transitional Education Centers

FS: (253) 964-6657
PY: (253) 840-8463

The program goals are based on the Pierce College mission to provide quality education to prepare learners to live and work successfully in an ever-changing world. The goals of the centers are:

- to provide the support services necessary for retention and college success
- to develop in each learner the skills, competencies and attitudes necessary for the attainment of personal goals
- to make possible educational opportunities for all learners
- to respect the uniqueness of all and use services and teaching strategies for diverse learning styles
- to integrate the following core abilities into the curriculum to prepare learners for the 21st century: effective communication, critical thinking/problem solving, information competency, multiculturalism, responsibility

The following services and programs are offered in the centers:

ADULT BASIC EDUCATION AND GED PREPARATION

Adult Basic Education (ABE) is for students who want to brush up on their basic skills of reading, writing and math, or who want to pursue a GED but need some work on the basic foundations first. Students who are under the age of 18 need to have a high school release form in order to enroll. Students must take a placement test to determine their level. Call (253) 964-6714 at Fort Steilacoom or (253) 840-8463 at Puyallup.

All state residents 19 years of age or older are eligible to take the GED test. Applicants younger than 19 may be tested providing they have completed a Request for Approval to Test for Certificate of Educational Competency signed by their high school's representative. Questions regarding eligibility and schedule for testing may be made through the testing center at either college or on the link from the Pierce College website.

ENGLISH AS A SECOND LANGUAGE[1]

The English as a Second Language (ESL) program offers six levels of coursework in reading, writing, speaking and listening. Courses are appropriate for a range of students, ranging from those who have very little English to those who want to pursue academic degrees in the United States. Students must take a placement test to determine their level. Call (253) 964-7325 at Fort Steilacoom or (253) 840-8463 at Puyallup.

PRE-COLLEGE COURSES

Courses are offered in English, reading, math, spelling and grammar to help students succeed in subsequent college-level coursework. These courses also serve as a means to transition from preparatory work to college-level and assist in the successful attainment of academic, career and life goals.

[†]ABE and ESL programs at Pierce College cannot serve people on tourist visas (B-2) or student visas (F-1). Students on B-2 or F-1 may register for courses under Intensive English under the International Education programs.

COLLEGE-LEVEL COURSES

College-level courses are offered through the learning centers, which provide academic alternatives to the structured classroom. Reading and study skills classes offer an opportunity for better preparation in other coursework.

MATH LAB

The Math Lab at Pierce College Fort Steilacoom provides instruction in basic math and introductory and intermediate algebra in a setting which meets the needs of students' schedules and diverse learning styles. Call (253) 964-6734.

HIGH SCHOOL COMPLETION PROGRAM

The Pierce College High School Completion Program is for anyone, age 16 and up, whose high school education was interrupted. Based in the Transitional Education Center, students earn a diploma recognized by the State of Washington while working in a lab or distance learning environment. Prospective students will meet with an advisor for an evaluation of their previous high school transcripts and to create an individualized program of study. For enrollment at Fort Steilacoom, call (253) 964-7324. For enrollment at Puyallup, call (253) 840-8461.

GED TESTING AND PREPARATION

Adults who have not completed high school may earn a Certificate of Educational Competency through the State of Washington with a satisfactory score on the General Educational Development (GED) Test. Pierce College is a testing center authorized by the GED Testing Service of the American Council on Education. For current information about test fees, contact the appropriate testing center — (253) 964-6439 at Fort Steilacoom or (253) 840-8455 at Puyallup.

The college also offers GED test preparation courses each quarter. Classes focus primarily on math, writing and reading skills. For information on daytime or evening classes, contact Pierce College Fort Steilacoom at (253) 964-6657 or the Puyallup Learning Center at (253) 840-8463. There is a small tuition charge for these classes. Waivers are available for those who qualify.

TRIO Student Support Services (SSS)

FS: (253) 912-3644
E-mail: trio@pierce.ctc.edu
www.pierce.ctc.edu/dist/supportservices/trio/

TRIO Student Support Services (TRIO SSS) provides additional support to a select number of students (160) attending Pierce College Fort Steilacoom who are pursuing a transferable associate degree and intending to transfer to a four-year college upon completion. Services are free and include:

- Math review sessions for students testing into MATH 54/60-98
- College classes, such as COLLG 111: College Success
- Scholarship and financial aid application assistance along with $10,000 of TRIO scholarship funds awarded annually
- Academic and transfer advising, including visits to local four-year colleges

For additional information, including eligibility requirements, visit the program website at www.pierce.ctc.edu/dist/supportservices/trio/, stop by the Cascade Building Welcome Center, or call the number above.

Funds are provided by a grant from the U.S. Department of Education through Aug. 31, 2015. Continuing funds are dependent on grant funding.

Tutoring

FS: (253) 964-6737
PY: (253) 864-3387
www.pierce.ctc.edu/dist/tutoring/

Through its peer-tutoring program, Pierce College furnishes all enrolled students with free academic support services for most course offerings. Students have a number of tutoring options: drop-in, subject-specific study groups, exclusively matched appointments or online tutoring in conjunction with the Northwest e-Tutoring Consortium. Provided by carefully-selected, highly-skilled and dedicated individuals as a supplement to classroom instruction, academic support services such as tutoring strive to build confidence and promote independent learning by cultivating the habits and study skills essential to academic success.

Students who aspire to serve as tutor with the academic support programs must have a grade of 3.5 in the subjects he or she plans to tutor and maintain a 3.25 cumulative GPA in each subsequent quarter. Tutors are paid; work-study eligibility is not required.

Academic support services are located in the Academic Resource Center (ARC) in room C170 at the Puyallup college, or the Academic Support Center (ASC) in CAS 526 at the Fort Steilacoom college. Students can also review the respective ARC and ASC websites under the "Resources" tab on the Pierce College website (www.pierce.ctc.edu) to obtain additional information regarding the academic support services available.

THE CENTER OF EXCELLENCE FOR VETERAN STUDENT SUCCESS

FS: (253) 964-6364

The Center of Excellence for Veteran Student Success (CEVSS) at Pierce Fort Steilacoom offers comprehensive support services for veteran students to facilitate their success in higher education through the coordination of services addressing the academic, physical, and social needs of veterans to connect with other veterans, study, and find information on campus and community services and resources. Veteran students are eligible to borrow textbooks from the Veterans Lending Library and to receive additonal tutoring.

Writing Assistance

FS: (253) 964-6252
PY: (253) 864-3387
www.pierce.ctc.edu/dist/writers/

The Writers' Studio at Fort Steilacoom and the Writing Center at Puyallup assist enrolled Pierce College students as well as others in our community, with all varieties of writing tasks (class assignments, resumes and cover letters, application essays, etc.) and in any stage of the writing process. Available for drop-in appointments or one-to-one conferences during scheduled hours of operation, center consultants readily assist students in deciphering instructor expectations, generating ideas with pre-writing and brainstorming strategies, evaluating structure and organization, developing a clear thesis statement and implementing revisions. Writing services operate within the Academic Resource Center (ARC) at the Puyallup college, but function separately from the Academic Support Center (ASC) at the Fort Steilacoom college.

APPENDIX

Personnel

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Campus Guides

Directories

Personnel

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Glossary

AA: Associate of Arts (formerly AAS). *See Transfer degree.*

AAS: Associate in Arts & Sciences. *See AA.*

Academic: Pertaining to a liberal arts program of study, as opposed to a professional or technical one. Used with degree, program or course.

Academic standards: The college's policy that requires students to maintain a certain minimum grade point average.

Adding or dropping classes (courses): Making changes in your schedule by enrolling in additional courses or withdrawing from them.

Admission: Permission to enroll in classes.

Advising: The process of determining with an advisor which courses you need to take to meet your educational goals.

Advisor: The faculty member or advising center staff person who helps you in the advising process.

Application: The process of applying for admission to the college or to a specific program of study; also, the form you fill out to apply.

Articulation agreement: An agreement between the college and certain high schools or other colleges by which specific courses taken at one institution are allowed for automatic credit at the other institution.

AS: Associate of Science. *See Transfer degree.*

Associate degree: A 90-credit (or more, depending on the program) degree awarded by a community college. *See Transfer degree and Technology degree.*

Audit: Taking a class for information only and not for credit or a grade.

Bachelor's degree or Baccalaureate degree: A degree awarded by four-year colleges and universities to students who have completed a specified course of study.

Bulletin: *See Quarterly bulletin.*

Campus: The main location where a college provides its educational programs and services.

Catalog: The official document containing course descriptions, degree requirements, policies and procedures, information about student services and general information about the college.

Certificate: Awarded for the successful completion of a specific short-term program of study in a professional/technical field.

eSchedule: The web publication listing course offerings and registration information for a specific quarter, used in planning the courses you will take for that quarter.

College-level course: A course numbered 100 or above.

Common Course Numbering (CCN): A course numbering system instituted in Washington state to ensure that the same course at different Washington state community and technical colleges has the same course number and title.

Concurrent enrollment: Enrollment in more than one community college at a time.

Continuing education: Courses, seminars or workshops, usually non-credit, that are taken for personal enrichment, professional development or general knowledge.

Continuous enrollment course: A course you may enroll in and begin at any time during the quarter.

Cooperative education: A program combining a specific program of study with employment related to that field of study that allows college credit to be given for the work experience.

Core classes or requirements: Courses required by or applicable to a certain degree. *See also General education requirements.*

Course: A single subject of study taken for one quarter or other specified period of time. Sometimes called a class.

Course abbreviation: A shortened version of the name of a department; for instance, ENGL for "English" or VT for "Veterinary Technology."

Course number: The number used with the course abbreviation to refer to a specific courses; for instance, "GEOG 200."

Course title: The descriptive name of a specific course; for instance, the course title for GEOG 200 is "Human Geography."

Credit or credit hour: The unit of measurement for the amount of work and/or time required for a course. A five-credit class will usually meet five hours a week. Also known as a quarter hour.

Credit by examination: A method by which you may receive credit for a course by passing an examination on the course content.

Curriculum: The group of courses you must complete to earn a specific degree or certificate.

Day of instruction: *See Instructional day.*

Degree: Awarded for the successful completion of a specific program of courses.

Department: A specific area of study in which the college offers classes. Also, the group of faculty members who teach that subject.

Diploma: Awarded for successful completion of high school or Pierce's adult high school completion program.

Distribution requirements: *See General educational requirements and Related instruction.*

Division: A group of related departments.

Drop a course: Withdraw from a course before the quarter has ended.

DTA: Direct Transfer Agreement.

Elective: A course you choose to take which is not a core or required course for your program.

E-schedule: The web publication listing course offerings and registration information for a specific quarter, used in planning the courses you will take for that quarter.

Emphasis: Concentrated study in a specialized area within a professional/technical or academic program of study.

Evaluation for graduation: The official process of determining which of the courses you have taken to date apply to the degree or certificate you are planning to earn and which courses you still need to take for that degree or certificate.

Evaluation of transfer credits: An official determination as to what extent the courses taken at another college will be allowed for credit at Pierce. Also, the determination by a four-year college as to which of your Pierce College courses will be allowed for credit at that institution.

Fee: An extra charge, in addition to tuition, required for certain courses to cover lab supplies, equipment, computer use, etc. Also refers to the comprehensive student fee and technology fee.

Financial aid: Monetary assistance made available to students, based on financial need, from various government and private sources.

Former student: A student who has not registered for one or more quarters (excluding summer quarter) and returns to continue his or her studies.

Full-time student: A student registered for a minimum of 12 credits in any given quarter.

GED (General Educational Development): A program for adults who have not graduated from high school and want to earn a certificate of high school equivalency.

General education requirements (GER): A range of courses distributed across various academic areas, required for the AA degree, in order to develop breadth of knowledge outside the major field. Sometimes referred to as distribution requirements or core requirements.

General transferable electives (GTE): Designated courses that satisfy a portion of the AA degree requirements. Sometimes referred to as core electives.

Grade: A rating or evaluation of your achievement for a class or assignment.

Grade points: The number obtained by multiplying the numerical value of the grade you receive for a course by the number of credit hours earned in that course (e.g., if you earn a 3.3 grade in a 5-credit course, you earn 16.5 grade points).

Grade point average (GPA): The number obtained by dividing total grade points earned by total credit hours attempted in a quarter. Your cumulative grade point average is obtained by dividing total grade points on your record by total hours you have attempted.

Independent study: A course of study on a topic of interest to a student, designed with the help of an instructor and supervised by that instructor, and undertaken with departmental approval.

Inquiry Personal Identification Number (PIN): A five- or six-digit number based on a student's birth date that allows access to the Student Information Kiosk and the Touchtone Inquiry System.

Instructional day: The day on which instruction begins or ends for a particular quarter. Not necessarily the same as the first or last day a particular class meets for the quarter.

Instructional quarter: The period of time running from the first instructional day through the last instructional day of a quarter.

International student: A student who is a citizen of another country and is in the U.S. on a non-immigrant visa.

Item number: The unique number assigned to a particular section of a particular course being offered during a quarter. Used when registering for that course.

Kiosk: *See Student Information Kiosk.*

Load or credit load: The total number of credit hours you enroll in for a quarter.

Major: The subject area in which you choose to specialize.

MRP: Major Related Program.

Nonresident student: A student who has not lived in the state of Washington for at least one year before the initial quarter of study. *See also Resident student.*

Ombudsman: A person who investigates and attempts to resolve complaints and problems, as between employees and an employer or between students and a university.

Online Registration: *See Web registration.*

Orientation: A program that introduces new students to the college environment, explains various procedures, and describes the resources they can call on for help.

Part-time student: A student registered for fewer than 12 credits in any given quarter. *See also Full-time student.*

Personal Identification Number (PIN): *See Inquiry PIN and Registration PIN.*

Pre-professional program: A program designed to fulfill part of the requirements leading to study in a professional program or school.

Prerequisite: A requirement that must be met before you enroll in a particular course, usually a test score or completion of another course.

Probation: A status imposed due to low grades.

Professional/technical: Pertaining to a program of study intended to prepare you for employment in a certain field rather than for transfer to a four-year college or university. Used with a degree, program or course. Also referred to as vocational.

Program of study: A group of courses leading to a particular degree or certificate.

Quarter: The designation for a school term. At Pierce, there are four: fall, winter, spring, summer.

Quarter hour: *See credit.*

Quarterly bulletin: The publication mailed to all households in the Pierce College district each quarter announcing the beginning of class registration for the upcoming quarter and providing information on how to get started at Pierce and where to find information online. It also includes the latest news about the college.

Registration: The process of selecting, enrolling in and paying for courses.

Registration Access Personal Identification Number (PIN): A random six-digit number given to a student by an advisor each quarter that enables the student to register for classes.

Related instruction: A range of courses distributed across various areas, required for professional/technical degrees in order to develop breadth of knowledge outside the major field.

Residence requirement: The credits required to be taken at a college in order to fulfill degree requirements at that college. At Pierce, 25 of the final 45 credits must be taken in residence.

Resident student: A student who has lived in the state of Washington for at least one year immediately prior to the first day of instruction for a quarter.

Returning student: A student enrolling during consecutive quarters.

Schedule: The classes for which you are enrolled; or the days and times you are attending classes and labs. May also refer to all the course sections offered by the college during a quarter.

Section: A specific class with its own unique days, hours, location and instructor. A number of sections of a certain course may be offered during a quarter, with different days, times, locations and instructors.

SID: Student Identification Number, a number assigned to a student by Pierce College.

Student Information Kiosk: A computerized source of information that can be accessed through computer terminals located in the registration areas or the district's website.

Technology degree: Awarded for successful completion of a specified professional/technical program.

Transcript: Your permanent record of courses taken, credits earned, grades achieved and degrees awarded at an educational institution.

Transfer credits: Credits earned at one college that are accepted toward a degree at another college.

Transfer degree: A degree intended to parallel the first two years of a bachelor's degree (e.g., the Associate of Arts (AA), Associate of Science (AS) and Associate in Business (ASB)).

Tuition: The amount of money you pay the college for the courses in which you enroll, set each year by the state legislature.

University transfer degree: *See Transfer degree.*

Vocational: *See Professional/technical.*

Web registration: A system allowing students to register for classes online from any computer with Internet access.

Withdrawal from the college: Officially dropping all classes for which you are enrolled for a quarter. *See Drop a course.*

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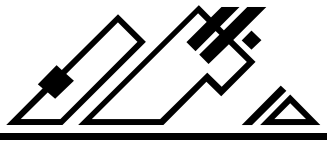

The 2010-11 Catalog was produced by Pierce College District Marketing and Communication Department in collaboration with Instructional Services in August 2010.
The information in this catalog is effective as of Fall Quarter 2010.

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Campus Guides

PIERCE COLLEGE FORT STEILACOOM

9401 Farwest Drive SW
Lakewood WA 98498-1999

DRIVING DIRECTIONS

From I-5, north or southbound, take the Gravelly Lake Drive exit (Exit 124) and turn west. Follow the directional signs to the college:

- Get in the left lane on Gravelly Lake Drive
- Turn left on Washington Boulevard (fourth light), which becomes Old Military Road
- Turn right on 112 St. SW. (second light)
- Turn left on Farwest Drive (one half-block, first left)
- Go about 1.5 miles to college on right.

BUILDING CODES*

CAS **CASCADE:** Registration, advising, financial aid, security, administration and faculty offices, cafeteria, student programs, dental hygiene

INT **INTERNATIONAL HOUSE**

OLY **OLYMPIC:** Early Childhood Education, art gallery, art and music departments, Central Washington University extension site, classrooms, computer lab

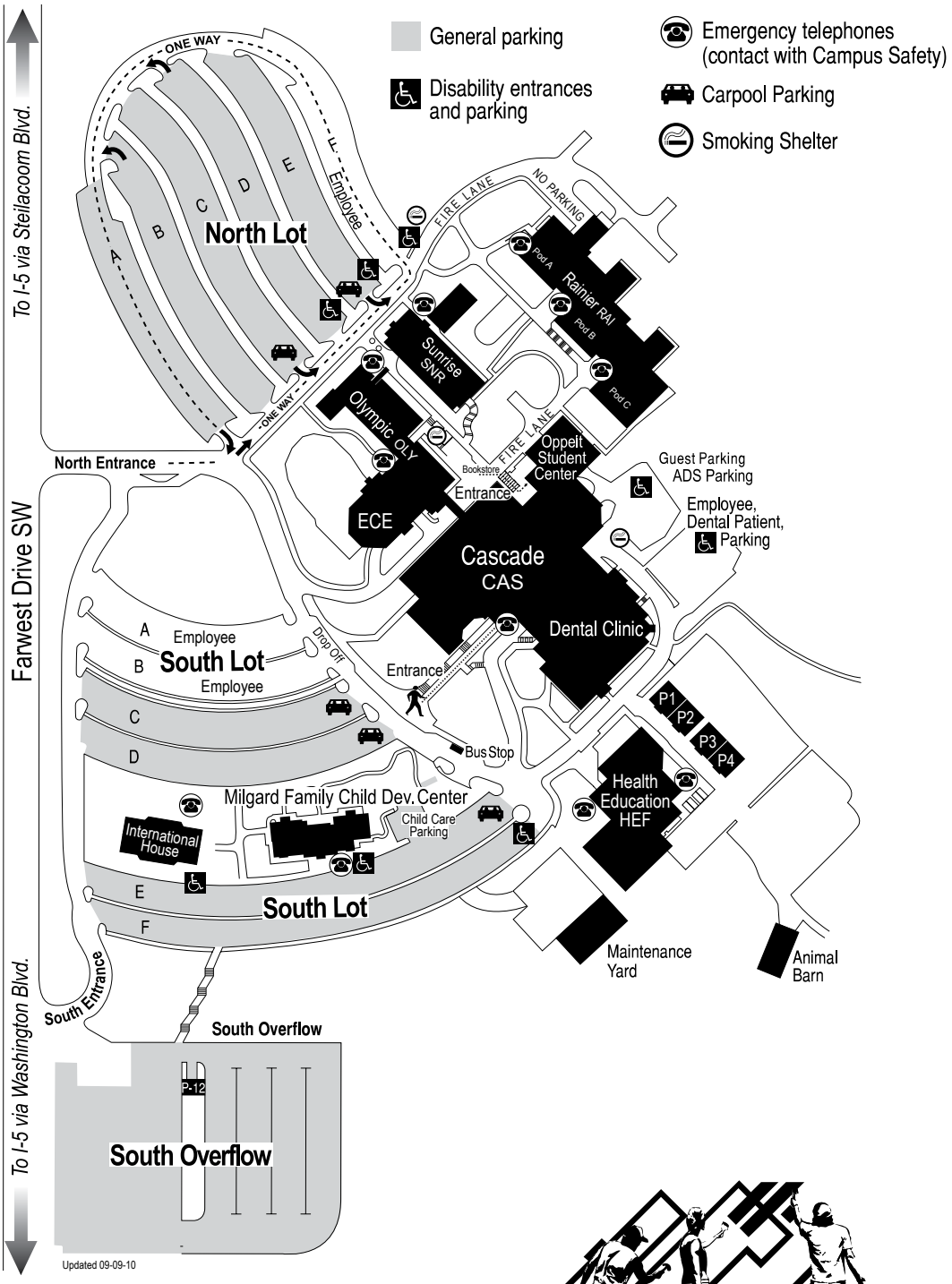
HEF **HEALTH EDUCATION CENTER:** Educational/ wellness programs and fitness and recreational space

MIL **MILGARD CHILD DEVELOPMENT CENTER**

SNR **SUNRISE:** Classrooms, digital design lab

RAI **RAINIER SCIENCE BUILDING:** Science classroom, labs

**See Construction Alert below for information on temporary relocations*



NON-SMOKING CAMPUS

Pierce College Fort Steilacoom is a non-smoking campus with smoking in designated areas only.

CONSTRUCTION ALERT

The Fort Steilacoom campus continues to improve its facilities with a significant renovation to the Cascade Building. When completed, the renovation will provide a welcoming entrance, improvements to the Student Services area, a new theatre, and expanded library — all to better serve you! We ask for your patience while we continue this exciting project.

PIERCE COLLEGE PUYALLUP

1601 39th Avenue SE
Puyallup WA 98374-2222

DRIVING DIRECTIONS

From I-5, north or southbound, take the Puyallup exit (Exit 127) onto Highway 512 and proceed eastbound:

- Take the South Hill/ Eatonville exit
- Turn right onto Meridian Street
- After the first light, merge into far left lane
- Turn left onto 37th Avenue, which becomes 39th Avenue
- Go approximately one mile to college on left

BUILDING CODES

AAH ARTS & ALLIED HEALTH BUILDING: Arts, theatre, design, health classrooms and offices

ADM GASPARD ADMINISTRATION BUILDING: Registration, advising and administrative offices

CTR COLLEGE CENTER BUILDING: Dining area with cafeteria/coffee shop, interior commons, bookstore, high-tech computer labs, Student Programs, newspaper and CNE program

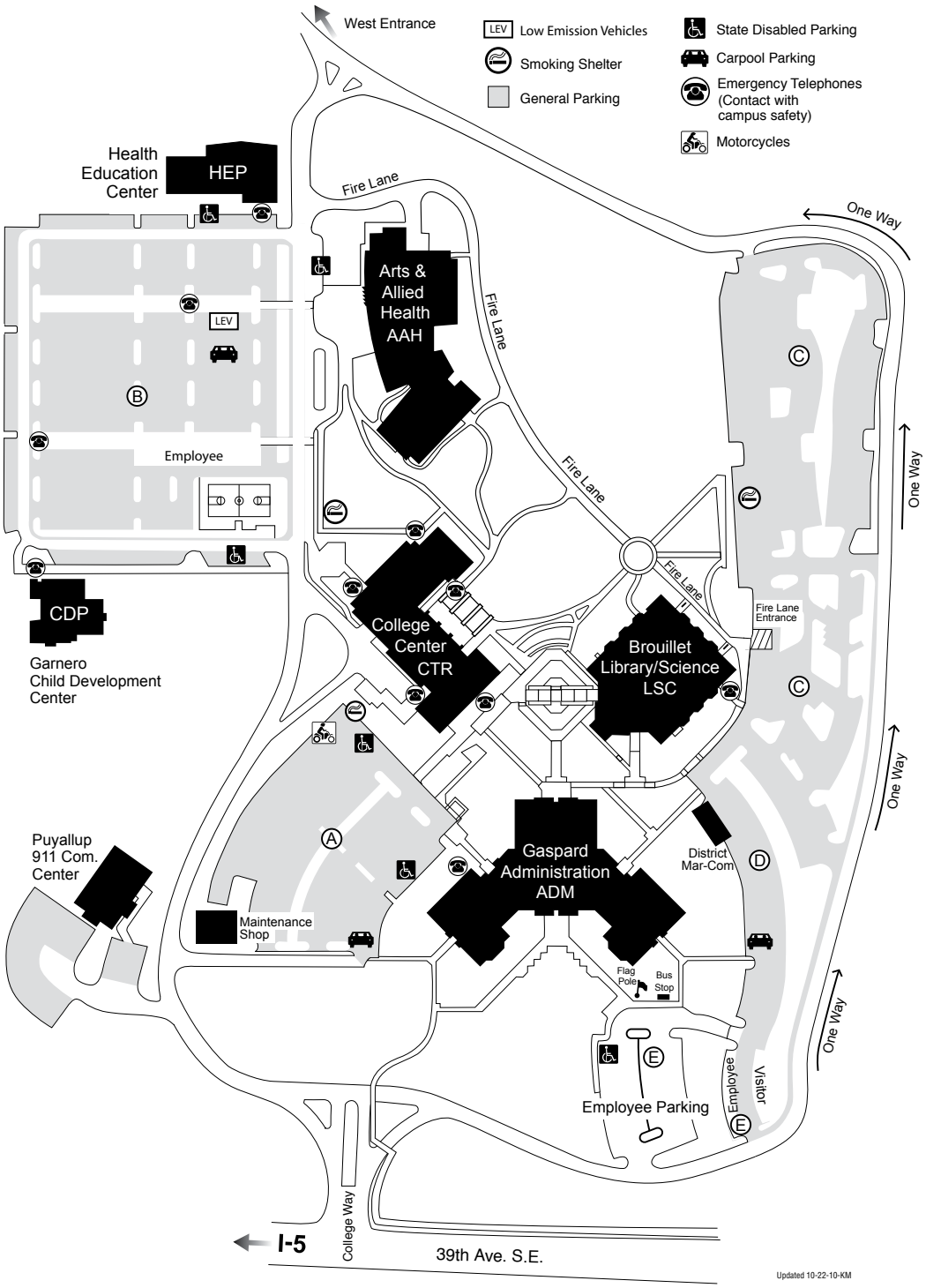
HEP HEALTH EDUCATION CENTER, PUYALLUP: Educational/wellness programs and fitness and recreational space

CDP GARNERO CHILD DEVELOPMENT CENTER

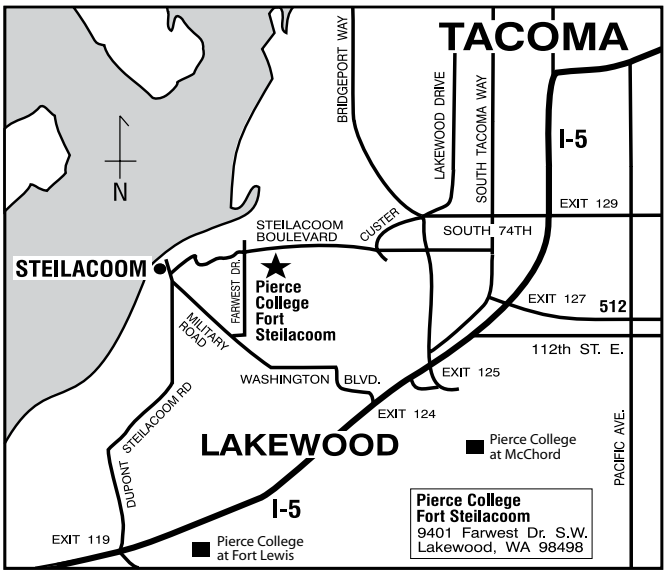
LSC BROUILLET LIBRARY/ SCIENCE BUILDING: Library and science classrooms

NON-SMOKING CAMPUS

Pierce College Puyallup is a non-smoking campus with smoking in designated areas only.



DIRECTIONS TO OUR CAMPUSES



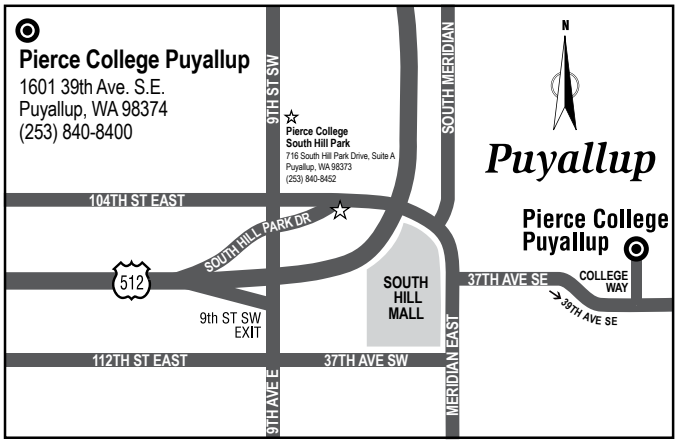
DIRECTIONS TO PIERCE COLLEGE FORT STEILACOOM

From I-5 - Gravelly Lake exit

* Follow I-5 to Gravelly Lake Exit 124. (Note: There are directional signs to the college)
* From north-bound I-5: turn left and go over the freeway. From south-bound I-5: turn right.
* At the second light (island with large "Welcome to Lakewood" sign), go left onto Gravelly Lake Drive.
* At the second light, turn left on Washington Blvd. (Note: Washington Blvd. will turn into Military Road).
* At the third light, turn right on 112th St. S. W.
* Take the first left (one-half block) onto Farwest Drive.
* Continue on Farwest Drive until you see Pierce College on the right.

From I-5 - 72nd St exit

* Follow I-5 to 72nd Street Exit 129
* Turn right onto 74th; proceed on 74th, crossing South Tacoma Way and Lakewood Drive.
* 74th turns into Custer Road and crosses Bridgeport Way; stay in the right lane.
* Turn right on 88th St. S.W. which after two or three blocks becomes Steilacoom Blvd.
* Proceed on Steilacoom past the Oakbrook shopping malls, the light at 83rd Avenue and the Western State Hospital complex.
* Turn left at the light on Farwest Drive (the street is called Farwest on the left, Sentinel on the right).
* Drive up the hill and enter the campus on your left at the main entrance by the reader board sign.



Directions to Pierce College Puyallup

Coming from I-5 (North or South):

- Take the Puyallup exit #127 to Hwy 512.
- Continue east on 512 to the Eatonville exit.
- Exit to the right and merge one lane to the left.
- After the first traffic light, continue crossing into the left lanes of traffic.
- After the second light, make your way into one of two left turn lanes.
- Turn left (east) at the third light – 37th Ave.
- 37th curves and turns into 39th. The entrance to the college is on the left, at the stoplight at the crest of the hill.

Coming from Auburn, Kent, Eastern Washington:

- Take Hwy 167 south to Hwy 512, Puyallup/Olympia exit.
- Continue on 512 approximately 5 miles to Hwy 161 south, South Hill/Eatonville exit.
- After you exit on the right, turn left.
- After the second traffic light begin merging into the left lanes of traffic.
- After the third light, make your way into one of two left turn lanes.
- Turn left (east) at the fourth light – 37th Ave.
- 37th curves and turns into 39th. The entrance to the college is on the left, at the stoplight at the crest of the hill.

Updated 8-10-09

Web Directory

WWW.PIERCE.CTC.EDU

DEPARTMENT	WEB SITE LOCATION
Academic Resource Center	www.pierce.ctc.edu/go/arc
Academic Support Center	www.pierce.ctc.edu/go/asc
Access & Disability Services	www.pierce.ctc.edu/go/ads
Admissions	www.pierce.ctc.edu/go/getstarted
Adult Education Centers	www.pierce.ctc.edu/go/basicskills
Adult Basic Education	www.pierce.ctc.edu/go/abe
Advising	www.pierce.ctc.edu/go/advising
Athletics	www.pierce.ctc.edu/athletics
Bookstore	www.piercecollegestore.com
Campus Safety	www.pierce.ctc.edu/go/safety
Career Information	www.pierce.ctc.edu/go/workforce
Child care	www.pierce.ctc.edu/go/childcare
Clubs and Organizations	www.pierce.ctc.edu/go/studentprograms
Computer Labs (FS)	www.pierce.ctc.edu/go/fslabs
Computer Labs (PY)	www.pierce.ctc.edu/go/pylabs
Continuing Education	www.pierceCE.com
Dental Hygiene Clinic	www.pierce.ctc.edu/go/dhclinic
eLearning	www.pierce.ctc.edu/eL
Evaluations	www.pierce.ctc.edu/go/getstarted
EWU at Pierce College	www.pierce.ctc.edu/go/ewudh
Extended Learning	www.pierce.ctc.edu/extended
Financial Aid	www.pierce.ctc.edu/go/financialaid
Fine Arts Gallery	www.pierce.ctc.edu/go/artgallery
Foundation	www.pierce.ctc.edu/foundation
Health Education Centers	www.pierce.ctc.edu/go/hec
International Ed./Intensive English Prog.	www.pierce.ctc.edu/international
Library	www.pierce.ctc.edu/library
Math lab	www.pierce.ctc.edu/go/mathlab
Military Program	www.pierce.ctc.edu/military
Multicultural Services	www.pierce.ctc.edu/go/multicultural
Music	www.pierce.ctc.edu/go/music
Newspapers	www.pierce.ctc.edu/go/newspaper
Parking	www.pierce.ctc.edu/go/safety
Professional/Technical Education	www.pierce.ctc.edu/go/proftech
Registration/Records	www.pierce.ctc.edu/go/registration
Running Start	www.pierce.ctc.edu/go/runningstart
SLAM (Student Literary & Arts Mag.)	www.pierce.ctc.edu/go/slam
Student Activities	www.pierce.ctc.edu/go/studentprograms
Student Government	www.pierce.ctc.edu/go/studentprograms
Student Life	www.pierce.ctc.edu/go/studentprograms
Supplemental Instruction	www.pierce.ctc.edu/go/si
Testing	www.pierce.ctc.edu/go/testing
Theatre	www.pierce.ctc.edu/go/theatre
Transcripts	www.pierce.ctc.edu/go/transcripts
TRIO Student Support Services	www.pierce.ct.edu/go/trio
Tutoring	www.pierce.ctc.edu/go/tutoring
Veterans Services	www.pierce.ctc.edu/go/veterans
Writers' Centers	www.pierce.ctc.edu/go/writers

College Directory

WWW.PIERCE.CTC.EDU/EPHONE

A SEARCHABLE LISTING OF PHONE NUMBERS FOR DEPARTMENTS, DIVISIONS, OFFICES AND SERVICES

PIERCE COLLEGE FORT STEILACOOM

9401 Farwest Dr. SW, Lakewood WA 98498-1999

Department	Phone	E-mail
Information	**964-6500**	
Access & Disability Services	964-6526/6228 TTY	dssaccess@pierce.ctc.edu
Admissions	964-6501	admissionsFS@pierce.ctc.edu
Adult Basic Education	964-6657	
Advising	964-6705	advising@pierce.ctc.edu
Athletics	964-6612	athletic@pierce.ctc.edu
Bookstore	964-6508	bookstore@pierce.ctc.edu
Career Info/Job Connections	964-6651	jobconn@pierce.ctc.edu
Campus Safety	964-6751	security@pierce.ctc.edu
Cashier	964-6700	cashiering@pierce.ctc.edu
Child Development Center	912-3680	children@pierce.ctc.edu
Clubs & Organizations	964-6614	clubs@pierce.ctc.edu
Computer Labs	964-6310	
Continuing Education	964-6600	
Corrections Careers	964-6407	corrections@pierce.ctc.edu
Counselors	964-6525	
CWU at Pierce College	964-6636	
Dental Hygiene Clinic	964-6694	dh@pierce.ctc.edu
Dental Hygiene	964-6695	dh@pierce.ctc.edu
Division Offices		
Arts & Humanities	964-6535	
Business & Social Science	964-6679	
Science & Allied Health	964-6245	
Transitional Education	964-6657	
English as a Second Language	964-7325	
Evaluations	964-6678	evaluations@pierce.ctc.edu
EWU at Pierce College	912-3642	
Financial Aid	964-6544	financialaid@pierce.ctc.edu
Fine Arts Gallery	964-6535	
Fitness Facilities	964-6612	
GED classes	964-6657	
GED Testing	964-6439	
High School Completion	964-7324	
International Ed./Intensive Eng.	964-7327	international@pierce.ctc.edu
Library	964-6547	
Math Lab	964-6734	
Music	964-6572	
Multicultural Services	964-6592	multicultural@pierce.ctc.edu
Orientation	964-6705	advising@pierce.ctc.edu
Outreach	912-3740	
Parking	964-6751	
Pioneer, The (newspaper)	964-6604	pioneer@pierce.ctc.edu
President's Office	964-6533	
Registration/Records	964-6615	reg1rec@pierce.ctc.edu
Running Start	964-6520	runningstart@pierce.ctc.edu
SLAM (Literary/Arts Magazine)	964-6408	
Student Government	964-6614	studgovt@pierce.ctc.edu
Student Programs/Activities	964-6614	studprog@pierce.ctc.edu
Testing	964-6521	testing@pierce.ctc.edu
Theatre	964-6535	
Transcripts *(recording)*	964-6787	transcripts@pierce.ctc.edu
Transitional Education Ctr.	964-6657	alc@pierce.ctc.edu
TRIO Student Support Services	912-3644	www.pierce.ctc.edu/go/trio
Tutoring	964-6737	tutoring@pierce.ctc.edu
Veterans Services	964-6505	vetmil-fs@pierce.ctc.edu
Veterinary Technology	964-6708	
Writers' Center	964-6252	

MILITARY EDUCATION CENTERS 1-877-632-7698 *(toll-free)*

Pierce College at Fort Lewis	964-6567	ftlewis@pierce.ctc.edu
Pierce College at McChord	964-6606	mcchord@pierce.ctc.edu

PIERCE COLLEGE PUYALLUP

1601 39th Avenue SE, Puyallup WA 98374-2222

Department	Phone	E-mail
Information	**840-8400**	
Access & Disability Services	840-8335/8474 TTY	dssaccess@pierce.ctc.edu
Admissions	864-3254	puyadmis@pierce.ctc.edu
Adult Basic Education	840-8463	
Advising	840-8431	puyadvise@pierce.ctc.edu
Athletics	964-6612	athletic@pierce.ctc.edu
Bookstore	840-8411	bookstore@pierce.ctc.edu
Campus Safety	840-8481	security@pierce.ctc.edu
Career Info/Job Connections	840-8431	puycareer@pierce.ctc.edu
Cashier	840-8405	cashiering@pierce.ctc.edu
Clubs & Organizations	840-8415	puyclubs@pierce.ctc.edu
Child Development Center	864-3302	children@pierce.ctc.edu
Computer Labs	840-8437	
Continuing Education	840-8452	(off campus at South Hill Park)
Counselors	840-8443	
Division Offices		
Natural & Social Sciences	840-8333	
Business & Humanities	840-8330	
Transitional Education	864-3181	
English as a Second Language	840-8463	
Enrollment Verifications	840-8402	puyregis@pierce.ctc.edu
Financial Aid	840-8398	puyfinancial@pierce.ctc.edu
Fitness Facilities	840-8472	
GED classes	840-8463	
GED testing	840-8455	
High School Completion	840-8461	
International Ed./Intensive Eng.	964-7327	international@pierce.ctc.edu
Library	840-8300	
Multicultural Services	840-8314	multicultural@pierce.ctc.edu
Music	864-3202	
Nursing	840-8355	
Orientation	864-3387	puyadmis@pierce.ctc.edu
Outreach	840-8470	puyadmis@pierce.ctc.edu
Parking	840-8481	
PierceWorks! (South Hill Park)	840-8428	piercewrks@pierce.ctc.edu
President's Office	840-8417	
Puyallup Post, The (newspaper)	840-8496	puypost@pierce.ctc.edu
Registration/Records	840-8400	puyregis@pierce.ctc.edu
Running Start	864-8329	puyrunningstart@pierce.ctc.edu
SLAM (Literary/Arts Magazine)	840-8396	
Student Government	840-8487	puystudgov@pierce.ctc.edu
Student Programs/Activities	840-8487	puystudact@pierce.ctc.edu
Supplemental Instruction	864-3387	
Testing	840-8343	puytesting@pierce.ctc.edu
Transcripts	840-8400	transpts@pierce.ctc.edu
Transitional Education Center	840-8463	puyalc@pierce.ctc.edu
Tutoring	864-3387	puytutoring@pierce.ctc.edu
Veterans Services	864-3292	vetmil-py@pierce.ctc.edu
Writing Center	840-3387	

DISTRICT OFFICES

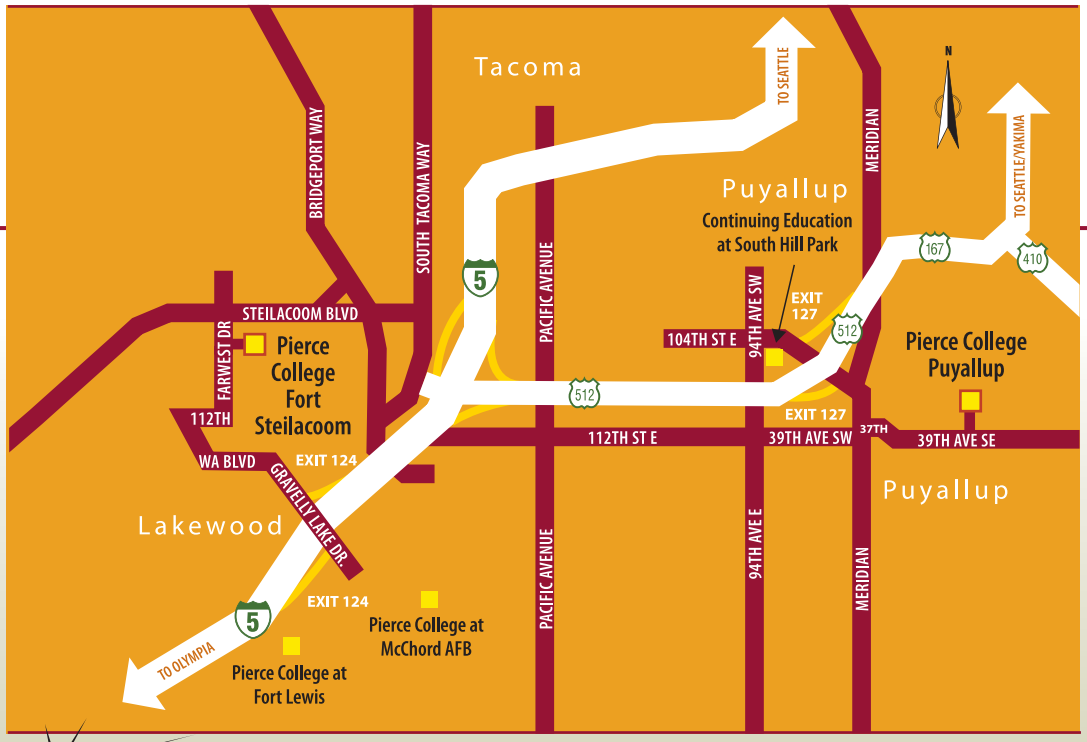
Chancellor's Office	864-3100	
Marketing and Communications	864-3230	
eLearning	964-6244/1-877-DLforME *(toll-free)*	distedu@pierce.ctc.edu
Extended Learning	912-3602	
Foundation	864-3261	
Professional/Tech. Education	964-6645	proftech@pierce.ctc.edu
Worker Retraining	964-6265	workers@pierce.ctc.edu

CATALOG

2011
2012

PIERCE COLLEGE

possibilities. **realized.**



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(253) 964-6500

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1601 39th Ave. SE
Puyallup, WA 98374-2222
(253) 840-8400

PIERCE COLLEGE
EXTENDED LEARNING
Fort Steilacoom Main Office
(253) 912-3602