

Catalog Home

Pierce College does not discriminate on the basis of race, color, national origin, age, perceived or actual physical or mental disability, pregnancy, genetic information, sex, sexual orientation, gender identity, marital status, creed, religion, honorably discharged veteran or military status, or use of a trained guide dog or service animal in its programs and activities.

Members of the college community or visitors who believe they have been the subject of discrimination or harassment should report the incident or incidents to the District's Title IX or Section 504 coordinators.

Title IX Coordinator
9401 Farwest Drive SW
Lakewood, Washington 98498
(253) 964-6519

District Section 504 Coordinator
9401 Farwest Drive SW
Lakewood, Washington 98498
(253) 964-6581

The full Discrimination and Harassment Policy can be viewed at www.pierce.ctc.edu/policy-discrimination-and-harassment. Upon request, this publication will be made available in alternate formats.

EFFECTIVE DATE OF CATALOG INFORMATION

The information in this catalog is effective as of August 2017. 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

Welcome to Pierce College!

Your possibilities here are limitless. And we are dedicated to helping you along your path of success.

Student success is at the center of all we do. We offer quality education, beautiful college campuses, excellent student programming and services, and state-of-the-art technology. We strive to create a truly great experience in an environment that nurtures a variety of learning styles, with small class sizes and lots of individual attention. When we ask students why they chose Pierce College we usually hear that a friend or relative attended and recommended coming here.

Tens of thousands choose Pierce College each year, to earn an associate degree or one of our new bachelor of applied science degrees, get a head start on a bachelor's degree from a four-year university, or to upgrade job skills. We hope you join them. We look forward to getting to know you, and to help you realize your possibilities.

Thank you,

Michele L. Johnson, Ph.D.
Chancellor and CEO

The Colleges

In 1967, Pierce College began creating life-changing possibilities for students out of a makeshift building in Lakewood. Today, the college district encompasses two colleges in Lakewood and Puyallup, education centers at Joint Base Lewis-McChord, virtual education through its distance learning program, and extensive community education opportunities, as well as additional programs at sites throughout Pierce County.

Pierce College now offers college courses at Graham-Kapowsin High School, bringing access to higher education to communities in south Pierce County. Courses are offered in the late afternoon and evenings, allowing working adults the added flexibility of earning college credits after work in their own community.

Classes are taught by Pierce College professors, and course offerings include general requirements students will need for nearly any career or education pathway they wish to pursue.

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. The centerpiece of the college, the Cascade Building, has been transformed into a modern learning space with an expansive library and Welcome Center, while the college's newest building, the Rainier Science and Technology Building, aligns with the highest standards for environmental sustainability. Pierce College's Science Dome is the only 3D planetarium in the South Sound. The dome shows breathtaking images of the night sky and visually simplifies complicated scientific concepts. The college is also home to the Milgard Child Development Center, where infants and children are nurtured in a family-like atmosphere, and the Health Education Center, a fully equipped recreation and fitness facility.

Pierce College Puyallup

Pierce College Puyallup 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, state-of-the-art laboratories and spacious classrooms. The college's newest addition is the Arts and Allied Health Building, which features the only performing arts center in East Pierce County. The theater provides an elegant location for plays, concerts and guest speakers, providing a critical arts space for students and the community. In addition, the building is home to the J. Mocerri Nursing Skills Lab, the centerpiece of Pierce's nursing program. The college also boasts the Garnero Child Development Center, a family-centered facility aimed at developing whole-child health and wellness, and the Health Education Center, a full-service fitness and recreation facility.

District Vision, Mission, Values and Core Themes

Possibilities realized - that's Pierce College's vision for all of its students. This vision is supported by guiding values and an active mission. The mission is the conceptual framework that directs the district's programming, services and activities. The key tenets of the mission are represented in the district's core themes, and mission fulfillment is measured through the institutional objectives and evidence-based indicators, including the five core abilities.

Vision

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

Mission

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

Values

- *Learning*
- *Integrity*
- *Respect*
- *Accountability*
- *Sustainability*

Core Themes

Access

The community Pierce College serves will have access to comprehensive educational offerings and support services.

Excellence

Pierce College will assure quality and continuous improvement in all endeavors.

Contribution to the Community

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

Equity, Diversity, and Inclusion

Pierce College will promote an equitable, diverse environment for teaching, learning, and working, with collaborative decision-making and mutual respect.

Student Learning and Success

Students will experience quality, relevant learning that maximizes their potential for success.

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

Graduates will evaluate, analyze and synthesize information and ideas in order to construct informed, meaningful and justifiable conclusions.

Effective Communication

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

Information Competency

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

Multiculturalism

Graduates will demonstrate knowledge of diverse ideas, cultures and experiences, and develop the ability to examine their own attitudes and assumptions in order to understand and work with others who differ from themselves.

Responsibility

Graduates will be able to critically examine the relationship between self, community and/or environments, and to evaluate and articulate potential impacts and consequences of choices, actions and contributions for the creation of sustainable systems.

Accreditation

Pierce College is accredited by the Northwest Commission on Colleges and Universities. Accreditation of an institution of higher education by the Northwest Commission on Colleges and Universities indicates that it meets or exceeds criteria for the assessment of institutional quality evaluated through a peer review process. An accredited college or university is one which has available the necessary resources to achieve its stated purposes through appropriate educational programs, is substantially doing so, and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is also addressed through accreditation. Accreditation by the Northwest Commission on Colleges and Universities is not partial but applies to the institution as a whole. As such, it is not a guarantee of every course or program offered, or the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institution. Inquiries regarding an institution's accredited status by the Northwest Commission on Colleges and Universities should be directed to the administrative staff of the institution. Individuals may also contact:

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

For further information on Pierce College accreditation, please contact Dr. Debra Gilchrist, Vice President for Learning and Student Success, (253) 964-6584, dgilchrist@pierce.ctc.edu.

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) 864-3260 or visit the Foundation website at www.pierce.ctc.edu/foundation.

Achieving the Dream Leader College

Pierce College was selected as an Achieving the Dream Leader College, a national designation awarded to community colleges that commit to improving student success and closing achievement gaps. In 2017, Pierce College received Achieving the Dream's highest honor, the Leah Meyer Austin Award. This award annually recognizes an Achieving the Dream institution that has demonstrated outstanding progress in achieving organizational and cultural change in pursuit of a student-success vision that integrates all of its individual efforts into a cohesive strategy. Achieving the Dream performed an extensive review of specified practice and performance activities. Pierce College has shown how data can inform policy and practice to help community college students achieve their goals, resulting in improved skills, better employability and economic growth for families and communities – and the nation as a whole.

Degrees and Certificates

Students planning to work toward a bachelor's degree or beyond can attend Pierce College for two years and transfer to a university with junior standing. Pierce College also offers Bachelor of Applied Science degrees in Dental Hygiene, Homeland Security Emergency Management and Teaching. 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 Transfer Degrees

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

Associate of Arts (AA-DTA)

When you earn a two-year Associate of Arts Direct Transfer Degree, you can transfer to any public university in Washington state as a junior, with virtually all your general education credits fulfilled. Many private colleges also accept these degrees. These degrees are often abbreviated as AA-DTA (the DTA stands for Direct Transfer Agreement). This is Washington's most popular and most flexible transfer degree.

Major Ready Pathway (DTA/MRP) Degrees

Some transfer degrees help prepare students for a particular major, like business or nursing. These are called "Major-Related Programs" and are abbreviated DTA/MRP. If you earn this two-year degree, you can transfer as a junior only if the community or technical college has an agreement with the university. Work with your advisor to see if your college has an DTA/MRP

agreement with the university you want to attend. DTA/MRP transfer degrees are available in biology, business, construction management, pre-nursing, music, and math education.

Associate of Science (AS-T) Degrees

The Associate of Science transfer (AS-T) degrees are designed to prepare students for upper-division study. Students completing the AS-T degree will receive the same priority consideration for admission to the baccalaureate institution, and will be given junior status by the receiving institution. Students are responsible for checking specific major requirements of Washington baccalaureate institutions in the year prior to transferring.

AS-T Track 1 for science pre-majors in biological sciences, environmental/resource sciences, geology, 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 technical and related skills needed for successful employment. These degrees and certificates emphasize practical, work-related skills that translate to effectiveness and expertise in the workplace.

Bachelor of Applied Science (BAS)

To keep up — and stay ahead — in the ever-changing workplace, education and skills training is a lifelong pursuit. Get the skills to go further in your career with a bachelor's degree from a community or technical college. An applied bachelor's degree builds on the education and training from a two-year technical associate degree.

The Bachelor of Applied Science in Dental Hygiene (BASDH) prepares the student for graduate school where courses and credits apply. Within Washington state, the Pierce College BASDH is accepted for entrance into the University of Washington's Master of Science (Dental Hygiene) in Oral Biology.

The Bachelor of Applied Science in Homeland Security Emergency Management (BASHSEM) is an online multi-disciplinary management level program designed to train the next generation of adaptive leaders to work collaboratively across industry sectors and interact with each other to produce a synchronized plan for a whole community response to emergencies, disasters or catastrophic events. Homeland Security Emergency Management is a cross-functional industry that requires managers and leaders that have the ability to think through multiple systems, processes and relationships to analyze how various public, private and non-profit organizations function.

The Bachelor of Applied Science in Teaching (BAS-T) builds on the college's professional-technical program in early childhood education while giving students access to a baccalaureate degree with teacher certification and endorsements in P-3 early childhood education and early childhood special education.

Associate of Applied Science - Transfer (AAS-T)

The AAS-T is built upon the technical courses required for job preparation but also includes a college-level general education component, common in structure for all such degrees. The AAS-T is designed for the dual purpose of immediate employment and as preparation for the junior year with institutions Pierce College has agreements with in a bachelor of applied science (BAS) degree. The AAS-T degree generally will not be accepted in preparation for Bachelor of Arts or Bachelor of Science degrees although the general education component of the degree will be accepted.

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. Students must successfully complete a minimum of 90 quarter credits or their equivalent, including all specific requirements of an approved professional/technical program. The purpose of these degrees are to provide immediate employment.

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.

Educational Choices

American Honors

American Honors at Pierce College is a rigorous honors program which provides students with access to top universities around the country. Students accepted into the program take challenging coursework to prepare them for junior- and senior-level classes at some of the nation's top four-year colleges. American Honors maintains a transfer network of more than 30 leading four-year universities, providing students with a clear pathway to admission.

Students in the program will work with an assigned honors advisor who ensures the student stays on track by taking classes that optimize the chance of admission into the university of choice. Admission to the program is selective and assesses the holistic student, to include previous academic performance, character and determination. Applications are accepted on an ongoing basis, but space is limited.

Students interested in applying can do so by filling out a Pierce College Admissions application, and an American Honors application at apply.americanhonors.org. For more information, please visit AmericanHonors.org.

eLearning

www.pierce.etc.edu/el

eCampus: pierce.instructure.com

email: distedu@pierce.etc.edu

Toll-Free: 1-877-ELforMe • (253) 964-6244

Pierce College eLearning courses are a convenient option for students juggling work, family and school. eLearning courses are affordable and transferable, just like traditional courses. In addition to a large variety of classes that are held entirely online, Pierce College eLearning also has a growing list of hybrid courses, which combine reduced classroom hours with online learning. Another popular option is web-enhanced classes, which add an online component with a more traditional classroom experience. To learn more about Pierce College's eLearning options, go to www.pierce.ctc.edu/el.

Pierce Open Pathway

Through a new program offered at Pierce College at Joint Base Lewis-McChord, students across the district can earn a university transfer degree that eliminates the cost of textbooks. The Pierce Open Pathway (POP) program will allow students to enroll in online and hybrid classes, which use openly licensed learning resources that have been thoroughly evaluated by Pierce College officials. Students who follow the pathway can earn an Associate of Arts direct transfer degree (AA-DTA) using online alternatives to traditional textbooks. POP courses feature low/no cost learning resources to support student learning and success. Currently, POP is open to all students through Pierce College at Joint Base Lewis-McChord. Interested students should contact their advisor for information about eligibility and registration.

Pierce College at Joint Base Lewis-McChord

Pierce College at Joint Base Lewis-McChord (JBLM) offers classes and student services at both Stone Education Center on Lewis-Main and the McChord Education Center on McChord Field to meet the educational needs of active duty personnel, their family members, veterans and civilians. Pierce College at JBLM offers nine-week face-to-face, and online sessions. Classes are held online, in the evenings, at lunch times, mornings, afternoons and on Saturdays to meet the needs of the military community.

The extensive online program offers seven entry points throughout the year to provide maximum flexibility for the military community. Several degree options, including the Associate of Arts-DTA, can be completed entirely in the online format.

Offices at Stone and McChord Education Centers provide full student support services, including advising, registration and testing. The Stone Education Center also offers veterans, financial aid, and access and disability advising. Please call (253) 964-6567 to verify days and times.

Servicemembers Opportunity Colleges (SOC)

Pierce College is an institutional member of Servicemembers Opportunity Colleges (SOC), an organization of approved colleges and universities created to expand and improve voluntary post-secondary education opportunities for service members worldwide. As a member of SOC, Pierce recognizes the unique nature of the military lifestyle and has committed itself to minimal academic residency requirements, maximizes transfer of relevant course credits, and awards credit for appropriate military training, experiences and examinations such as College Level Examination Program (CLEP) and Dantes Subject Standardized Tests (DSST). The college also is a member institution of the Degree Network System (DNS) and the Career and Technical Education (CTE) Network.

See "Earning Credits" in the ACADEMIC INFORMATION section of this catalog for more information.

International Education

Pierce College's International Education office provides admissions, orientation, support services, and cultural and social activities to international students at Fort Steilacoom and Puyallup. In addition, a four-level college-prep Intensive English Program is offered at the Fort Steilacoom campus. The International Education department promotes international and multicultural educational experiences for all students and community members in the district such as the International Club and Conversation Partners.

For details on how to get started as an international student at Pierce College, see "International Students" in the START 2 FINISH 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/study-abroad for the most current locations.

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 building the local economy. For more information, visit www.pierce.ctc.edu/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 Programs of Study 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/workforce for details.

WorkFirst/Work-Study

Parents receiving Department of Social and Health Services (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/workforce for details.

Basic Food Employment & Training (BFET)

Students receiving Basic Food assistance through DSHS may be eligible for assistance while completing job training. BFET participants may fulfill their work requirements, and receive DSHS sponsored childcare, while going to school. Call (253) 964-6265 or visit www.pierce.ctc.edu/workforce for details.

Transition and Support Services

Career-related programs and advising are available for students transitioning toward the workplace.

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

Job & Career Connections/WorkSource Affiliate

Pierce College is a partner in a statewide system that provides access to countywide employment information and services. Job & Career Connections maintains a job board and job seekers can use MyInterfase (http://www.myinterfase.com/pierce_ctc/student), 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/workforce for details.

Department of Social and Health Services Programs

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

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.

Basic Skills instruction is offered to patients on most wards at Western State Hospital. Patients may also work toward completion of a high school diploma, prepare for the GED, take computer literacy classes, and prepare for a future vocation. For more information, call (253) 756-2767.

Community and Continuing Education

Community and Continuing Education offers a wide variety of student-supported courses focusing on personal enrichment and professional development to meet the diverse needs of the population served by Pierce College. Day, evening and weekend on-site courses are offered at a variety of locations across Pierce County. In addition, there are over 500 online courses available to individuals in the community. Offerings include:

Art and creativity	Language
Body, mind and health	Music and singing
Business	New age
Career training	Photography
CATIA V5	Professional development
Computers and technology	Teacher training
Dance and fitness	Trade skills
Educator courses	Travel
Home and garden	

A schedule of course offerings is mailed four times a year to the community. For more information, visit the website at www.PierceCE.com, call (253) 840-8452 or email to CE-questions@pierce.ctc.edu.

Customized Contracted Training

Invista Performance Solutions is a collaboration of four Pierce County community and technical colleges: Clover Park Technical College, Pierce College Fort Steilacoom, Pierce College Puyallup and Tacoma Community College.

Launched in September 2011, Invista Performance Solutions, a partnership of these colleges, operates as a single point of contact for regional business to access workforce development services. The mission is to assist companies and organizations to gain a competitive advantage in the global economy by increasing the skills of their workforce. Invista offers high-quality training and learning solutions to meet and exceed client expectations.

Invista Performance Solutions is also a member of Global Corporate College and actively works with 45 colleges across the United States and internationally to serve companies and organizations with an expanded footprint. Invista Performance Solutions has a successful history of delivering high-quality facilitation, coaching, contract training and seminars that are personalized to the performance goals of each business served.

For more information visit the website at www.invistaperforms.org or call (253) 583-8860.

Central Washington University - Pierce County

A partnership with Central Washington University (CWU) offers Pierce College students a seamless transfer to a baccalaureate degree with CWU-Pierce County, located on the Pierce College Fort Steilacoom campus. Pierce College has also partnered with CWU to develop a Dual Admission Program, which gives Pierce College students access to resources at both Pierce College and CWU during their academic career. This allows students to be better prepared to transfer into a baccalaureate program. Additionally, the CWU \$150 admission application fee is waived. Find more information at www.cwu.edu/admissions/dual-admission-program.

Programs offered (face-to-face and online) include:

BUSINESS

- BS Business Administration - Specializations - Supply Chain Management or Leadership and Management
- BAS - Supply Chain Management
- Post Graduate Certificate - Supply Chain Management

EDUCATION

- BAEd Elementary Education - Double majors in Early Childhood Education or Middle Level Math, minors in Family Studies, Literacy, Psychology, Elementary Science or Sociology (K-8)

IT MANAGEMENT

- BAS/BS IT Management - Specializations - Administrative Management, Information Technology and Cyber Security

LAW AND JUSTICE

- BA Law and Justice

SOCIAL SERVICES

- BS Social Services

Online degree programs include:

- BA English - Writing Specialization
- BS FlexIT - Retail Management & Technology (competency based)
- BS Interdisciplinary Studies - Social Sciences
- BAs in Law & Justice, Psychology, Sociology

These programs are offered at our new campus as JBLM Stone Education Center:

BUSINESS

- BS Business Administration - Specializations - Supply Chain Management or Leadership and Management
- BAS - Supply Chain Management
- Post Graduate Certificate - Supply Chain Management

Visit www.cwu.edu/pierce-county for further information.

Start2Finish

Access and Disability Services (ADS)

FS: 253-964-6468

PY: 253-840-8335

JBLM: 253-840-8335

Access and Disability Services (ADS) provides academic adjustments and/or auxiliary aids or services to qualified students with disabilities. Please contact an ADS Office to request any disability related assistance with any college process.

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, age, perceived or actual physical or mental disability, pregnancy, genetic information, sex, sexual orientation, gender identity, marital status, creed, religion, honorably discharged veteran or military status, or use of a trained guide dog or service animal.

Admissions to Pierce College is available to:

- Individuals 18 years of age or older.
- Individuals whose high school class has graduated.
- Individuals who are a high school graduate or have earned a GED.
- Individuals qualified for admission through Running Start or a similar program.

As a policy, Pierce College does not admit students under the age of 16. Special consideration may be given to students who petition for an underage admission exception. Students should begin the petition process at least 30 days prior to the start of the quarter they wish to attend. Contact the admissions office at Fort Steilacoom or Puyallup.

Special Admission Programs

Some programs of study, such as Nursing, Veterinary Technology, Bachelor of Applied Science degrees, and American Honors require additional application materials and require application fees. These requirements are outlined in the PROGRAMS OF STUDY section.

New Students

Students planning to attend Pierce College must submit an admissions application. Admissions applications may be submitted at any time. There is no admission fee for the general programs of study.

Submit an admissions application:

- Apply online at www.pierce.ctc.edu.
- Application for admission consideration into the Dental Hygiene and Veterinary Technology programs must be submitted to the admissions office at Pierce College Fort Steilacoom. Applications for admission consideration into the Nursing program must be submitted to the Nursing office at Pierce College Puyallup. Special admission programs may require an application fee.
- Applications for Bachelor of Applied Science programs are required in addition to college admission. Please refer to each program's web site.
- Special admission programs may require an application fee.

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

For the Intensive English Program (IEP) designed for international students, there are additional requirements. See "International Students" in this section.

Former Students

Students who have previously enrolled in courses offered by Pierce College must re-submit an admissions application if they have not been enrolled for four or more consecutive quarters. This will reactivate and update the student's records. Students will receive a welcome packet electronically, which includes information about orientation, advising and the registration process.

Students who attended other colleges or universities during their absence from Pierce College and who would like credits transferred to Pierce College, are advised to read "Transferring Credits to Pierce College." An advisor may review transcripts from previous schools during an advising session.

Transfer Students

Students transferring to Pierce College from another college or university must complete an admissions application.

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:

- Submit an admissions application to the college at www.pierce.ctc.edu.
- Contact the former school(s) and request that official transcripts be sent to the Pierce College admissions office at 9401 Farwest Drive SW, Lakewood, WA 98498. 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 directly to Pierce College by the issuing institution. Once the official transcript(s) is on file, the credits will be evaluated and the results emailed to the student.

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

Running Start is a statewide college program for academically qualified junior and senior high school students. Students can simultaneously fulfill high school graduation requirements and earn college credits. College tuition for eligible classes is covered through Running Start for fall, winter, and spring quarters only. Running Start students may take classes in the summer at their own expense.

For more information on the steps to get started, please visit the Running Start website at www.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. Admissions and payment of tuition are conducted on a quarterly basis. There is no English language requirement to enter Pierce College's Intensive English Program. Students take an English-language placement test upon arrival to determine appropriate placement within the program.

Two-Year Program

Students intending to study for a two-year associate degree must have successfully completed high school in their home 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/ie-iep 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 International High School Completion Program (Fast Track). Students who do not have adequate English proficiency must take Intensive English classes before beginning the Fast Track program. The college will evaluate each student's high school record and design an individual study plan. Students in the Fast Track program take classes that give them credit for both the AA-DTA degree and the Washington state high school diploma.

International Students Applying from Outside the USA

Submit the following to the Pierce College Office of International Education (www.pierce.ctc.edu/ie-apply):

- A Pierce College international student application form
- International application fee of \$50
- Academic records: High school transcript (for high school completion applicants) or proof of high school graduation or university/college attendance (for Intensive English and academic program applicants)
- 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/ie-iep

Email, fax or mail all materials to:

Pierce College International Programs

9401 Farwest Drive SW

Lakewood, WA 98498-1999 USA

Telephone: 253-912-2319 Fax: 253-964-6256

internationalapp@pierce.ctc.edu

www.pierce.ctc.edu/international

International Transfer Students in the USA

Students already studying in the United States at another institution must submit all the documents listed in the previous section. In addition, Pierce College requires a Transfer-In form. Students must have their U.S. school complete the form and send it to Pierce College 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 the SEVIS & Immigration Manager at 253-912-2279.

Host Family Programs

Pierce College offers host family opportunities for international students. Contact the homestay coordinator at homestay@pierce.ctc.edu for additional information.

Center for Global Scholars

Pierce College's residence hall, the Center for Global Scholars, is a living and learning community comprised of international and domestic full-time students who are encouraged to maintain a minimum 3.0 GPA. International students who are over the age of 18 can apply to live in the Center for Global Scholars. Contact the Center for Global Scholars at residencelife@pierce.ctc.edu for additional information.

Insurance

All international students are required to have medical insurance for the duration of their studies at Pierce. Students will purchase insurance through the college at the time of registration for classes. Students cannot enroll without insurance; see www.pierce.ctc.edu/ie-insurance for details.

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 email: 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, number of dependents, and the estimated cost of attending Pierce College.

Applying for Aid

Students begin the annual application process by completing either:

- The Free Application for Federal Student Aid (FAFSA) online at: www.fafsa.ed.gov
OR
- The Washington Application for State Financial Aid (WASFA) online at: www.readyssetgrad.org/wasfa

The FAFSA and WASFA applications are available each year in October and must be completed for the upcoming academic year that begins in July. Completing the FAFSA or WASFA is the first step of the application process.

The FAFSA is completed by students who are US citizens and some eligible non-US citizens. The WASFA is completed by students who are ineligible for federal financial aid due to immigration status but may be eligible for Washington state aid. To determine which form to complete visit the financial aid web site: www.pierce.ctc.edu/financial-aid-apply.

Additional documents may be requested by the Financial Aid office. Students will be notified via their student email.

Students are encouraged to apply early to maximize their financial aid awards. The student's financial aid file will not be considered complete and ready for processing until all requested documents are submitted to the Financial Aid office. Priority processing dates for all quarters are available online at www.pierce.ctc.edu/dist/financial-aid.

If a student's file is not completed by the recommended submission date, the student's award may not be ready by the first day of the quarter. In that case, students must pay their own tuition and become eligible for reimbursement at a later time, depending upon financial aid eligibility. Students can also set up a Tuition Installment Plan (TIP) through the cashier's office.

Financial aid is 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 written notification to allow revision of the aid award.

Types of Financial Aid

Grants and Scholarships

Federal Pell Grant: Awarded based on financial need. Students may receive the Pell Grant for a maximum of three (3) full-time (12 or more credits) quarters per academic year. The grant is prorated for less than full-time enrollment.

Federal Supplemental Educational Opportunity Grant (FSEOG): Awarded based on exceptional financial need. The grant is available to students enrolled in six (6) credits or more per quarter.

Washington State Need Grant: Awarded to eligible Washington state residents up to the cost of tuition. The grant is prorated for less than full-time enrollment. Students who have earned an AA or AAS/AAT degree in the past five (5) years are not eligible to receive the State Need Grant.

College Bound Scholarship: Awarded in combination with other state financial aid to cover the average cost of tuition and fees. The scholarship is available to students who sign up by the end of the eighth grade and meet specific eligibility requirements. Information is available online at www.wsac.wa.gov/college-bound.

Pierce College grants and waivers: Pierce College reserves a percentage of tuition revenue and offers these funds to Washington resident students in the form of institutional grants and tuition waivers. Pierce College offers the following institutional grants and waivers:

- **Pierce College Grant:** Awarded to eligible Washington residents based on financial need. The grant is available to students enrolled in (3) credits or more per quarter.
- **Pierce College Tuition Waiver:** Washington State Tuition Waivers provide tuition grants for a limited number of state residents.
- Scholarships may be available from outside donors, academic departments and the Pierce College Foundation.
- Opportunity Grant Scholarships support certain professional/technical programs and are need-based.

Employment

Federal college work-study programs allow students to work on or off campus with a non-profit agency for a maximum 19 hours weekly (40 hours during quarter breaks).

State work-study programs allow students, with preference to Washington state residents, to work in private industry or business. Students may work for a maximum 19 hours weekly (40 hours during quarter breaks).

Loans

Federal Stafford Loan/PLUS allows 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.

Special Funding

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

- Receiving Washington state 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.
- Parents receiving DSHS/WorkFirst cash assistance.

Contact the Workforce staff 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 or Labor and Industries, 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 charge books and supplies in the college bookstore.

Notification of Financial Aid

All notifications from Pierce College Financial Aid will be made via the student email system. Students should check this email regularly for important information.

Maintaining Aid Eligibility

When students accept financial aid, they also accept responsibility for making Satisfactory Academic Progress (SAP). At the end of each quarter, student's SAP will be evaluated based on the following criteria:

1. The student completed the level of enrollment for which their aid was calculated and disbursed.
2. The student earned both a 2.0 cumulative and quarterly GPA.
3. The student is on track to complete their degree within 125 percent of their degree program length (e.g. 90 credit program must be completed before taking more than 112 credits).

Failure to meet SAP standards will result in a loss of aid eligibility. For more information please review the entire SAP policy online at www.pierce.ctc.edu/financial-aid-get-aid#progress.

Withdrawing From Classes

If a student withdraws from all their classes, whether officially or unofficially, they may be responsible for repaying all or a portion of their financial aid. For more information, visit the financial aid website at www.pierce.ctc.edu/dist/financialaid.

Placement

FS: 253-964-6521

PY: 253-840-8343

JBLM: 253-964-6606

Pierce College uses multiple methods to help match a student's current skill level to appropriate coursework in English, reading and mathematics. Placement methods include Accuplacer, Smarter Balanced Assessment scores, college transcripts, high school transcripts, and placement reciprocity. Placement is required for admission. Placement assessments are conducted at the Testing Centers located at each campus and at both Joint Base Lewis-McChord (JBLM) locations. For current testing information and schedules, please visit the website for the location of interest.

- Fort Steilacoom and Puyallup www.pierce.ctc.edu/testing-services
- Joint Base Lewis McChord www.pierce.ctc.edu/military/resources/testing

Accuplacer

Computer-based assessment in math, writing and reading is available for new students to determine appropriate placement. Students are encouraged to take advantage of review resources prior to taking the assessment. Review resources can be found on the Placement Services websites www.pierce.ctc.edu/testing-services or www.pierce.ctc.edu/military/resources/testing.

Smarter Balanced Assessment

Students in the high school graduating classes of 2016 and later may use the Smarter Balanced Assessment scores of level 3 or 4 for placement into math and English courses. Students who want to use these scores for placement purposes need to provide a copy of their individual score report to the Placement Center of their advisor at the location they plan to attend. The report is provided by the high school and must include the student's name, scaled scores and recommended level of placement.

College Transcript

Students who have credits from other regionally accredited colleges may be able to use their transcript for initial placement into math and/or English. An unofficial copy of the transcript is acceptable for initial placement; however, an official copy must be on file for credit to be granted towards a degree or certificate program. Transcripts are considered official when they are received by the college from the issuing institution. 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 directly to Pierce College by the issuing institution. Contact the former school(s) and request that official transcripts be sent to the Pierce College admissions office at 9401 Farwest Drive SW, Lakewood, WA 98498.

High School Transcript

High school transcripts may be used to determine initial math placement under the following conditions:

1. The high school course(s) being used for placement was taken within the past two academic years prior to the start of the term the student wants to enroll in the math course.
2. A grade of B (3.00) or higher was earned in the last semester of the math course they wish to use for placement.
3. An unofficial copy of the high school transcript is submitted to their advisor as evidence of successful completion of the prerequisite high school course.

Students who completed AP math or English classes and received a score of 3 or higher should contact their advisor for information on possible college credit. If eligible for credit, a student may not need to take the placement examination.

Placement Reciprocity

A student who qualifies for a specific level of math, English or reading at another institution, either through course completion or skills assessment, will have that course placement level honored at Pierce College in accordance with the Washington state testing reciprocity agreement.

Students requesting reciprocity from a placement assessment must initiate the process within one year of completing the initial assessment. For more information contact your advisor or the testing center at the location of your primary attendance.

Start2Finish

FS: (253) 964-6705

PY: (253) 840-8431

At Pierce College we support students from the beginning of their college journey through the completion of a degree or certificate with our pledge to advise and mentor each student from Start2Finish.

New Student Orientation

New Student Orientation (NSO) is required for all new students seeking a degree or certificate from Pierce College. NSO sessions are an easy, convenient way to get the information needed to begin as a student at Pierce College. This requirement may be waived for exempted student populations. Sessions are offered on a regular basis. See the Advising website for a schedule of orientation sessions at www.pierce.ctc.edu/dist/admissions/getstarted/nso.

Student attending through Pierce College at JBLM should consult www.pierce.ctc.edu/military/academics/advising for more information regarding NSO.

Advising

All new students who intend to pursue a degree or certificate at Pierce College will work with an advisor at their primary campus. In an effort to provide the very best service to our students and prepare them to succeed, advisors will:

- Educate students about the culture of higher education
- Explore academic programs and careers
- Clarify goals
- Foster skills of independence (including taking personal responsibility, decision-making and planning for college)
- Evaluate academic skills based on previous work experience, learning and test scores
- Refer students to appropriate college and community resources
- Establish connections between the student and Pierce College

College Success

Pierce College's College Success course (COLLG 110) is designed to prepare students to navigate the college system and enhance opportunities for success. The course emphasizes college success strategies, self-assessment, goal-setting, career exploration, effective study habits, campus resources, and efficient use of online tools for learning, educational planning and enrollment.

All students are required to successfully complete a College Success course during the first or second quarter of attendance. If a student fails to enroll in the course seven calendar days prior to the start of the student's second quarter of attendance, the student's schedule will be altered to meet the requirement. Students who do not pass the course (earn below a 2.0 grade) should retake the course the next quarter that they are enrolled. An administrative block will be placed on the student's record to ensure the student re-takes the course.

EXCEPTIONS TO THE COLLEGE SUCCESS (COLLG 110) REQUIREMENT:

- Students who transfer in 30 or more credits with a cumulative GPA of a 2.0 or higher
- Students enrolled in a certificate program that is fewer than 25 credits

- Students who have a degree from a regionally accredited institution
- Students enrolling at another institution and attending Pierce for one quarter
- Students who have successfully completed (2.0, C, P, or higher) an equivalent course at another institution can transfer the course. An unofficial transcript will suffice to meet the College Success requirement. Official transcripts will be required to formally transfer the credit.
- Students enrolled in a statewide Competency Based Education (CBE) program
- Students who believe they should be exempted from the course and do not meet any of the above exceptions can request an exemption through a Director of Advising and Entry Services.

Registration

FS: 253-964-6615

PY: 253-840-8400

JBLM: 253-964-6567

Students register for classes each quarter. Registration appointment times are assigned to students who are enrolled in the current quarter and to all students who completed classes within the past four quarters. Registration times are assigned based on the total number of credits earned at Pierce College, with students earning the most credits receiving the earlier assigned times. New students and former students who have not attended within the past four quarters may register after the priority registration period.

Students who have informed the college that they are veterans (or spouses receiving veteran education benefits) will receive priority registration during their respective assigned period.

Pierce College at Joint Base Lewis-McChord Registration

Registration for courses at Pierce College at Joint Base Lewis-McChord (JBLM) is available in person in the Stone and McChord Education Centers, or via email to JBLMRegistration@pierce.ctc.edu. Active-duty Army students using tuition assistance should submit enrollment requests through the GoArmyEd portal system.

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 tenth day (eighth day during summer quarter) of the instructional quarter. Specifics are published in the quarterly schedules. Late registration, with the exception of continuous-entry or late-starting classes, must be petitioned through the registration office at the campus location of the class. 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

All prior college financial obligations must be paid prior to registration. Students are not permitted to register or change their schedule if there is a financial or registration block on their student record. Students who have a balance owed for the current quarter may be allowed to make schedule changes through special arrangements with the cashier's office.

Changing a Schedule After Registration

The dates for adding or dropping classes are published in each quarter's schedule of classes. Students may add or drop a class through the online registration website or submit a Schedule Change Form to the registration office. If a class is dropped before the 10th day of the quarter (eighth day for summer), 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. Consult the quarterly schedule for firm add/drop dates for each quarter.

To withdraw from a class after the 10th day of the quarter (eighth day for summer quarter), students must do so through online registration or complete a Schedule Change Form and submit it to the registration office. The last day to withdraw is published in the quarterly schedule. Students who follow this procedure will receive a "W" grade for the course; this grade does not impact the student's GPA.

For courses at Joint Base Lewis-McChord, students must submit a Schedule Change Form at the Stone Education Center on Fort Lewis or the McChord Education Center. Forms are also accepted via fax at 253-964-6729 or by email at JBLMRegistration@pierce.ctc.edu. The dates for adding or dropping classes at Joint Base Lewis-McChord are available on the website at www.pierce.ctc.edu/military.

Auditing a Course

To audit a class, a student must register, pay tuition and/or fees and attend class regularly. A student who is auditing a class is not required 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 or for courses at Joint Base Lewis-McChord) of the instructional quarter or term with permission of the instructor. Check the quarterly schedule for the specific date each quarter for classes at Fort Steilacoom or Puyallup. Check the Pierce College at JBLM website at www.pierce.ctc.edu/military for the specific date each term for classes at Joint Base Lewis-McChord.

Independent Study

Independent study is a contract established between a 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 expectations, guidance and final evaluation.

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.

Administrative Withdrawal - Unmet Prerequisites

Pierce College reserves the right to administratively withdraw a student from any course for which they have not successfully fulfilled the prerequisite requirement. Students who met previous prerequisites at other institutions are required to provide documentation to an advisor or faculty member to verify successful completion and access for enrollment.

Students enrolled in a prerequisite course, prior to completion of that course, are allowed to register for the next course the following quarter. Students who do not achieve the required grade may be withdrawn immediately after grades are posted. Notification of withdrawal will be sent via student email.

Administrative Withdrawal – Non-Attendance

Pierce College reserves the right to administratively withdraw registered students who fail to attend initial class sessions and fail to make arrangements for excused absences through the instructor or division dean. If a student does not make prior arrangements, the instructor may report the student as not attending, and the student will be dropped from the class.

If a student attends a class after being dropped, the student must follow the enrollment policy in effect at the time, which may include a requirement for the instructor's signature or the payment of a late fee, as applicable.

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/tuition-fees.

Students are fully responsible for paying your tuition and other debts owed to Pierce College by the tuition due date. Failure to make payments to Pierce College by the due date may result in your account being referred to an outside collection agency. Students are responsible for all costs including collection costs of 25% to 35% 12% interest and reasonable legal fees as per Washington State Law.

Pierce College reserves the right to change, without notice, any fees to comply with state or college regulations and policies. Policies regarding tuition, tuition rates, student fees, technology fees, tuition/fee waivers, concurrent registration and refunds vary. This may include classes offered through, Joint Base Lewis-McChord and Continuing and Community Education.

Comprehensive Student Fee

A student-approved fee of \$3.50 per credit, up to a maximum of \$15, is charged each quarter to cover on-campus parking, graduation, 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 recreation 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 nonrefundable.

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 Refunds

To be eligible for a refund, a student must officially withdraw from classes. All refunds are made by check and will be mailed to the student or refunded back to the student's financial aid or funding source. If a student has an outstanding debt to the college, the college may offset that debt against any refunds due to the student.

For official withdrawals, refunds are given according to the following schedule for Fort Steilacoom and Puyallup classes:

- 100 percent is refunded if a student withdraws through the fifth day of the fall, winter or spring quarters or if the class is canceled.
- 50 percent is refunded if the student withdraws on or after the sixth day of instruction through the 20th calendar day following the beginning of instruction for fall, winter or spring quarters.
- 100 percent and 50 percent refunds for summer and short session classes are given on a timetable proportionate to the standard length of the instructional quarter.
- No refund is made if the student withdraws after the 20th calendar day of the instructional quarter.

Refunds for Pierce College at Joint Base Lewis-McChord classes are made in accordance with the refund schedule available on the website at www.pierce.ctc.edu/military.

- 100 percent refund if the student withdraws from the course before the 4th day of the session
- No refund for withdrawals after the 5th day of the session
- For classes which do not follow the regular class schedule, refunds are given on a proportionate timetable.

Refunds may also be granted for medical emergencies or military active duty assignment. Students must complete the refund petition form at <http://www.pierce.ctc.edu/forms>.

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. 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 tuition rate, a student (or his/her parent or legal guardian in the case of a dependent student) must:

- 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, J, K or H1)
- Be physically present in Washington for 12 continuous months prior to the beginning of the quarter
- Have established a bona fide domicile 12 continuous 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.

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. Students with questions should contact the admissions office.

Veterans who live in Washington and enroll in Pierce College within three years of discharge from active duty service of 90 days or more may be eligible for resident tuition. This eligibility may also extend to the veteran's spouse and dependents. Students should contact the Veterans Service Office for information.

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:

- 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
- 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
- Continuously resided in the state since earning a high school diploma or its equivalent.

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

All residency determinations are based upon Washington state guidelines.

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 within 30 calendar days from the start of the instructional quarter. Paperwork submitted after 30 days is reviewed for the next quarter.

Veterans Services Office

FS: (253) 964-6505
PY: (253) 864-3194

The Veterans Services Office (VSO) 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. 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 technical and certificate programs is available at either VSO.

Students using GI Bill® education benefits should contact the VSO at the campus they will be primarily attending. If the student is going to attend primarily through Pierce College at Joint Base Lewis-McChord, they should choose whichever VSO (FS or PY) is most convenient.

- Selected programs of study at Pierce College are approved by the Workforce Training and Education Coordinating Board's State Approving Agency (WTECB/SAA) for enrollment of those eligible to receive benefits under Title 38 and Title 10, USC.
- Pierce College does not provide any commission, bonus or other incentive payment based directly or indirectly on success in securing enrollment or financial aid to any persons or entities engaged in any student recruiting or admission activities or in making decisions regarding the award of student financial assistance.

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 student's enrollment status, such as adding and dropping classes.

All VA benefit checks are mailed directly to the student's residence or directly deposited into the bank account of the student's 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 academic progress.

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

Academic Information

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 or academic 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. During fall, winter and spring quarters at the Fort Steilacoom or Puyallup campuses, the maximum credit load is 22 credits; during summer quarter, it is 18 credits. For Pierce College at Joint Base Lewis-McChord, the maximum credit load in any term is 18 credits. Students considering credit overloads should consult with their advisor. All approvals for a credit overload must be annotated on the student's registration form and bear the signature of the student's advisor, director of advising and entry services, or dean.

Academic Credit for Non-Traditional Learning

Academic Credit for Non-Traditional Learning enables people to earn credit and recognition for the skills and knowledge they have already acquired. An assessment of prior learning occurs after enrollment at Pierce College.

Pierce College may award academic credit based on results from the following assessment methods:

- National standardized tests, such as College-Level Examination Program (CLEP), Dantes Subject Standardized Test (DSST),
- Course challenges, including written, oral or demonstration assessments (developed by faculty),
- Prior experiential learning evidenced by a directed portfolio compilation that identifies applied learning outcomes mastered through a variety of experiences and is offered at the discretion of each department, and
- Advanced Placement (AP) as appropriate to the student's program at Pierce College. Students who achieve the American Council on Education (ACE) recommended credit granting scores on these examinations may earn credit for Pierce College degrees and certificates.

Award of credit for non-traditional learning occurs when a student's prior learning outcomes are assessed and determined to be the equivalent of the learning outcomes attained upon completion of a Pierce College course or degree. Credit will be issued in accordance to the equivalent course or education pathway.

Exam credits with no equivalency may be awarded as elective credit. ACE recommended credits for each exam are listed in semester hours. However, credits will be converted and awarded as five quarter hours for each three semester hours.

Academic departments are responsible for outlining a 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 Board of Community and Technical Colleges, cross-sector collaboration guided by the Washington Student Achievement Council, as well as the policies established by the Northwest Commission on Colleges and Universities. If a student wishes to investigate the possibility of having non-traditional learning recognized by the college, the student should first consult with their advisor, who will direct them to the appropriate department expert.

The categories of assessment described below are most commonly used by Pierce College to determine whether or not students have met the learning outcomes for a particular course of program. Note: not all departments use the assessments listed below or offer academic credit for non-traditional learning. Students should check with a specific department for policies and further information on how these assessments apply to specific disciplines.

CLEP and DSST (National Standardized Tests)

CLEP and DSST testing is available through the Pierce College at Joint Base Lewis-McChord National Test Centers. Administrative registration and testing fees may apply. CLEP exams assess learning outcomes for course content in composition and literature, world languages, history and social sciences, science and mathematics, and business. DSST exams assess learning outcomes for course content in business, humanities, math, physical science, social sciences and technology. For additional information on which examinations are offered, which exams are accepted for credit, testing hours, fees and test preparation, visit the Pierce College National Test Center website at www2.pierce.ctc.edu/military/resources/testing.

Credit by Examination (Course Challenges)

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 residency requirement. A per-credit fee is charged. Students should contact the department from which they are seeking credits for examination information. Further information and application forms are available through the testing centers at Fort Steilacoom or Puyallup.

Prior Experiential Learning (Portfolio Assessment)

Prior experiential learning, often referred to as portfolio assessment, is a process that awards credit on the basis of knowledge mastered for specific courses at the discretion of each department. Appropriate faculty members will evaluate the portfolio to determine if it is acceptable and the amount of credit that may be awarded.

Current on-the-job work experience, if related to academic or professional/technical studies, may enable students to obtain credit for their 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. 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. Preparation of the portfolio is the sole responsibility of the student who chooses to initiate the process. Not all departments use portfolio assessment. Students should check with the specific department from which they are seeking credit for details on policies, guidelines and fees.

Advanced Placement

The Advanced Placement (AP) program is sponsored by the College Board and consists of college-level courses and examinations for high school students. Pierce College accepts credit for work done in this program in accordance with standards set by the Washington State Board of Community and Technical Colleges. Students who receive AP scores of 3, 4, or 5 in the approved subject areas will be granted AP credit at Pierce College. AP credits will be awarded as "P" grades on the Pierce College transcript and may be used to fulfill pre-requisite and degree requirements. AP credit may be earned in any of the following subject areas: art, English, history, foreign language (French, German or Spanish), mathematics (calculus, computer science and statistics), music theory, political science, psychology and science (biology, chemistry or physics). Students may request transcription of AP credits after completing fifteen (15) college level credits (courses numbered 100 or higher) at Pierce College with a 2.0 or higher grade point average. No fees apply.

Professional Certifications and Licenses

College credits may be awarded for professional certifications and licenses 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 credits for professional certification and license fee information.

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 review. 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.

Servicemembers Opportunity Colleges (SOC)

Pierce College is an institutional member of Servicemembers Opportunity Colleges (SOC), an organization of approved colleges and universities created to expand and improve voluntary post-secondary education opportunities for service members worldwide. As a member of SOC, Pierce recognizes the unique nature of the military lifestyle and has committed itself to minimal academic residency requirements, maximizes transfer of relevant course credits, and awards credit for appropriate military training, experiences and examinations such as College Level Examination Program (CLEP) and Dantes Subject Standardized Tests (DSST). The college also is a member institution of the Degree Network System (DNS) and the Career and Technical Education (CTE) Network. Participation in these networks maximizes opportunities for service members to reach their educational goals and the goals of the services.

In accordance with our SOC membership, students in SOC programs:

- Are awarded credit for experience in their Military Occupational Specialty (MOS) or Air Force Specialty (AFSC) and service schools. Credits may apply to degree requirements when appropriate.
- Are awarded credits for non-traditional learning based on results achieved on national tests, such as CLEP and DSST. Credits may apply to degree requirements where appropriate.
- 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 Programs

TECH PREP

Pierce College has agreements with several school districts to award credit for some professional/technical courses taken in 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 253-583-8803 or 253-583-8816, or www.pc3connect.org.

Running Start

Academically prepared high school 11th and 12th grade students may enroll in the Running Start program, which gives high school students the opportunity to take college courses on campus at Pierce College to fulfill high school graduation requirements. Running Start is available fall, winter and spring quarters. Students may enroll simultaneously in high school and college classes, or solely in college classes. The maximum credit eligibility is based on the student's combined high school and college enrollment. College tuition for eligible classes is covered through Running Start. For more information, high school students should contact their high school counselor, or visit: <https://www.pierce.ctc.edu/dist/runningstart/>

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 appear 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 - 1.0	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.

- 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. An "I" or "Z" grade on a transcript after one year (four quarters) will be automatically converted to a "0.0" without instructor input.

- NC† **No Credit:** Faculty-initiated grade. This grade is not computed in the grade point average and cannot be changed.

- P/NP† **Pass/No Pass:** Not computed in GPA.

- R† **Repeated Course:** The "R" shows beside the lower grade received and only the higher of the two grades is computed in the GPA.

- S† **Satisfactory:** Indicates the student is making satisfactory progress but has not completed all the competencies for a given level of instruction. No credit is awarded. The "S" grade is used only for ABE and ESL classes numbered under 100. Courses with "S" grade designators cannot be applied toward any degree or certificate program.

- W† **Withdrawal:** Student-initiated by following official withdrawal procedures.

- WE† **Excused withdrawal:** Issued when a student has been withdrawn due to extenuating circumstances beyond the student's control, and must be approved by Pierce College.

- 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.

- Z† **In-progress:** Student is currently in progress toward the attainment of course objectives. Used only for continuous enrollment courses. The 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. An "I" or "Z" grade on a transcript after one year (four quarters) will be automatically converted to a "0.0" without instructor input.

†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

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. Courses taken as pass/no pass may only be used as general elective credit for AA-DTA and AS-T degrees. Courses that are prerequisites for other courses should not be taken pass/no pass with the exception of ABE/ESL courses.

The student and instructor must sign a pass/no pass contract before the last instructional day of the quarter with the exception of ABE/ESL courses. Pass/no pass grades are not computed in the GPA. "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, all grades will remain on the transcript. Only the highest grade will be computed in the GPA. Students are advised to complete the Repeated Class Request and submit to the registration/records office after completing the repeated courses so the transcript can be updated. The repeat process does not apply to grade symbols I, NC, NP, W, WE or Z. 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.

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 dean, 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.

An "I" or "Z" grade on a transcript after one year (four quarters) will be automatically converted to a "0.0" without instructor input.

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

Withdrawal with Approved Excuse

An "Excused Withdrawal" (or "withdrawal with approved excuse" or "hardship withdrawal") refers to a specific "grade" recorded for a course for which a student has withdrawn due to extenuating circumstances beyond the student's control and which has been reviewed/approved by Pierce College.

In order to qualify for the issuance of a Withdrawal with an Approved Excuse ("WE") grade, a student must satisfy all of the following conditions:

- The coursework of the course cannot have been fully completed. "Completed" is typically demonstrated by the completion, whether successfully or not, of a final assessment (e.g. final exam, paper, etc.).

- Extenuating circumstances beyond academic performance in the course must be demonstrated and will often require some form of documentation. Extenuating circumstances include, but are not limited to, serious medical conditions, serious family emergencies, military deployment, the student's death, and other severe/catastrophic circumstances.
- Generally, students have up to one year from the end of a course to submit a request for an Excused Withdrawal. Appeals and exceptions to this condition must be documented.
- Generally, an Excused Withdrawal is only approved for all currently enrolled courses, except in unique circumstances wherein a student can demonstrate the extenuating circumstance(s) directly impacted the student's ability to complete the requirements of a specific course(s) (e.g. a broken leg related to a dance performance course). Considerations for different modalities may also be considered.
- An Excused Withdrawal can be an option regardless of the amount of the course and coursework that has been completed, so long as all components of the course have not been attempted (e.g. completed the final exam/assessment would disqualify the Excused Withdrawal as an option).
- Depending on the reasons for withdrawal, a student who is granted an Excused Withdrawal for medical reasons may not be permitted to return until s/he presents a statement from a medical provider showing that s/he is medically ready to return to the rigors of academic work.

Grade Report

Grades are accessible via <http://www.pierce.ctc.edu/go/myperce>, on the Pierce College website or student kiosks located at each college. Grades will be withheld if students have a financial obligation to the college, which may include 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 quarter of enrollment.

Grade Forgiveness Policy

Grade forgiveness gives students who wish to continue their education at Pierce College a fresh start from previous grades that are detrimental to their educational goals.

The following conditions are required in order to petition for grade forgiveness:

1. Currently enrolled in the Pierce College District.
2. Have a period of four (4) consecutive quarters of no enrollment in credit courses in the Pierce College District.
3. Complete a minimum of 24 credits from the Pierce College District after return.
4. At time of petition, have a cumulative GPA of 2.0 in course work at Pierce College after return.

Courses petitioned cannot have been used toward a previously earned degree or certificate. Grade forgiveness can only be granted once. Students have an option to have one designated quarter only or the designated quarter and all previous quarters forgiven. Only courses prior to the stop out period may be petitioned. Courses that a student successfully completed in a forgiven quarter with a 2.00 or higher will remain in the GPA/Credit calculations (i.e. will not be forgiven).

If the petition is approved:

- The original grade(s) remain on the student's transcript
- Forgiven grades are not calculated in the Pierce College GPA
- Forgiven courses cannot be used to meet degree/certificate requirements
- Forgiven courses cannot be used to satisfy pre-requisites for future courses
- Forgiven courses cannot be reinstated

All amendments to a student's transcript shall be made by the Registrar's Office. The Registrar's Office will notify the student in writing of the decision and include an updated transcript for approved petitions.

Grades forgiven through this policy may or may not be honored by Pierce College special/selective admissions programs and other educational institutions as each institution interprets transcripts according to its own policies.

Students receiving funding from sources such as financial aid and veterans educational benefits are subject to federal regulations and guidelines. Students are advised to contact financial aid and/or their funding source to determine how this policy may affect funding.

Course Grade Appeal

<http://www.pierce.ctc.edu/policy-grade-appeal>

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, following the official posting of the grade by the college to the student's academic record.

Copies of the procedure are also available in the Offices of the Vice Presidents of Learning and Student Success, Division Offices, the Offices of the Deans of Student Success, and the Student Life Offices.

Academic Standards

Academic standards are established to assist students in becoming successful and to identify students who may need additional assistance and support. Refer to www.pierce.ctc.edu/about/policy/academic for specific details on alert, probation and suspension.

Academic Honors

Students who achieve a 3.9-4.0 grade point average and complete at least 12 credits during the quarter have their names placed on the quarterly President's List and receive a letter of congratulations from the college president.

Students who achieve a 3.5-3.89 grade point average and complete at least 12 credits during the quarter have their names placed on the quarterly Dean's List and receive a letter of congratulations.

Students who graduate with a cumulative college-level grade point average of 3.5 or above for all Pierce College course work, with a minimum of 20 credits earned at Pierce College, qualify as honors graduates.

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.

Academic Deficiency

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

Students who remain academically deficient for three quarters/terms will be placed on a dismissal status and given an opportunity to appeal. Students who choose not to appeal will be dismissed for one calendar year, which equates to four quarters.

Graduation

To graduate with a degree or certificate from Pierce College:

- Earn the lesser of (at least) 20 college level credits or 25 percent of the credits applicable to the degree or certificate at Pierce College; and
- A cumulative grade point average (GPA) of 2.00 or higher for all college level Pierce College courses applicable to the degree or certificate.

Students are advised to apply for graduation by submitting a Degree and Diploma Application at least two quarters prior to the quarter in which they intend to complete their requirements. Students are encouraged to meet with their advisors to ensure they are meeting degree requirements.

For more information about graduation evaluations, please contact the Evaluations office at (253) 964-6678 or by email at evaluations@pierce.ctc.edu.

Students attending Pierce College at JBLM can find information for submitting Degree and Diploma Applications at www.pierce.ctc.edu/military/academics/advising. Students completing degrees will be invited to attend the graduation ceremony sponsored by Armed Forces Continuing Educational Services. Students are encouraged to also attend the Pierce College District graduation ceremony in June each year.

Pierce College reserves the right to automatically award degrees and certificates completed without student application.

Commencement Ceremony

<http://www.pierce.ctc.edu/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 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 change an address or phone number go to the Pierce College Student Portal www.pierce.ctc.edu/go/myperce.

To change a name, students must provide legal documentation of the name change. For more information, contact the registration office at any college site.

Transcripts

Pierce College Transcripts

A transcript is a copy of a student's educational record. Transcripts are released only if a student has submitted an authorization for release of the transcript and if the student has met all financial obligations to the college. Transcript request forms are available at all college sites within the Pierce College District or on Pierce College's website www.pierce.ctc.edu/transcripts. 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 the Transferring Credits to Pierce College START TO FINISH section of this catalog for more information.

Student Rights, Responsibilities, Conduct and Family Educational Rights and Privacy Act (FERPA)

Student Conduct Code

www.pierce.ctc.edu/policy-student-rights-information

As members of the academic community, students are encouraged to develop the capacity for critical judgment and to engage in an 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.

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 on-line at www.pierce.ctc.edu/policy-student-rights-information. Copies are also available in the offices of the Vice Presidents of Learning and Student Success, Student Life offices, office of the Deans of Student Success and office of the District Conduct Officer.

The Student Code of Conduct is currently under revision. Refer to www.pierce.ctc.edu/policy-student-rights-information for the most up-to-date version.

Student Rights for Equal Opportunity/Notice of Nondiscrimination

The Pierce College District does not discriminate on the basis of race, color, national origin, age, perceived or actual physical or mental disability, pregnancy, genetic information, sex, sexual orientation, gender identity, marital status, creed, religion, honorably discharged veteran or military status, or use of a trained guide dog or service animal in its programs and activities.

Members of the college community or visitors who believe they have been the subject of discrimination or harassment should report the incident or incidents to the District's Title IX or Section 504 Coordinators.

Vice President of Human Resources/Title IX Coordinator

9401 Farwest Drive SW
Lakewood, Washington 98498
253-964-6519

District Section 504 Coordinator

9401 Farwest Drive SW
Lakewood, Washington 98498
253-964-6581

The full Discrimination and Harassment Policy can be viewed at [//www.pierce.ctc.edu/policy-discrimination-and-harassment](http://www.pierce.ctc.edu/policy-discrimination-and-harassment)

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:

- 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.
- 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.
- 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:

- 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.

- 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.
- Disclosure of education records to officials of another school in which a student seeks or intends to enroll.
- Other disclosures permissible without written consent include disclosure to: comply with a judicial order or 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.

To file a complaint with the U.S. Department of Education concerning alleged failures by the college to comply with the requirements of FERPA contact: 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 are available at the registration office at either college.

Student Holiday for Faith and Conscience

Per RCW 28C.18.068, Pierce College students are entitled to two days of excused absences per academic year for reasons of faith or conscience or for organized activities conducted under the auspices of a religious denomination, church or religious organization.

Students' grades may not be adversely impacted by absences authorized under this policy. Each holiday taken under this policy must be taken as a whole day, i.e. the day may not be divided into hours. Use of any portion of a class period or day is considered a whole day of absence.

Student Procedures

- All absences under this policy must be approved by the office of the Vice President for Learning and Student Success or the Executive Director of Pierce College at JBLM in advance of the absence. The college will not authorize an absence for a student after the absence occurs without exceptional and compelling circumstances.
- If the student's desired absence date is on a day when a test was scheduled or an assignment was due, the professor may require that the student take the test or submit the assignment before or after the regularly assigned date.
- If a student fails to notify any of their professors of an authorized absence, the professor is not obligated to make any accommodations for the student's absence or treat the absence as authorized under this policy or the law.

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 on Pierce College property or as part of Pierce College activities. 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.

Discrimination and Harassment Policy

The Pierce College District supports and values the dignity of each member of its community and is committed to maintaining an environment free from discrimination and harassment. This commitment applies to all levels and areas of operations and programs and is intended to ensure that all students and employees are provided equitable opportunities to realize their goals and to function safely and effectively within the Pierce College environment.

All members of the Pierce College community and visitors have the right to be free from all forms of discrimination and harassment. All individuals are also expected to conduct themselves in a manner that does not infringe upon the rights of others.

This policy prohibits illegal discriminatory conduct and harassment, not lawful expression. This policy is not intended to limit lawful expression of intellectual inquiry or artistic expression, nor is it intended to restrict lawful expression in course content or department activities.

Pierce College recognizes its responsibility under state laws and their implementing regulations to investigate, resolve, implement corrective measures, and monitor the educational environment and workplace to stop, remediate, and prevent discrimination on the basis of race, color, national origin, age, perceived or actual physical or mental disability, pregnancy, genetic information, sex, sexual orientation, gender identity, marital status, creed, religion, honorably discharged veteran or military status, or use of a trained guide dog or service animal. Pierce College prohibits discrimination against and harassment of members of these protected classes, as well as any additional class(es) protected by local, state or federal law. Any individual found to be in violation of this policy will be subject to disciplinary action up to and including the possibility of exclusion from Pierce College facilities, dismissal from Pierce College as a student, and/or dismissal from employment, as applicable.

Members of the college community, guests, or visitors who believe they have been the subject of discrimination or harassment should report the incident or incidents to the District Title IX/EEO Coordinator identified below. If the complaint is against that Coordinator, or if for some other reason a report cannot be made to the Coordinator, the complainant should report the matter to one of the alternate designees listed below.

District Title IX/EEO Coordinator
Title IX Coordinator/EEO Coordinator
9401 Farwest Drive SW
Lakewood, Washington 98498
(253) 964-6519

Alternate Designees:
District Affirmative Action Officer

District Section 504 Coordinator
Deputy Title IX Coordinator - District Athletics
Deputy Title IX Coordinator - Pierce College Puyallup
Deputy Title IX Coordinator - Pierce College Fort Steilacoom
Deputy Title IX Coordinator - Pierce College at Joint Base Lewis-McChord

Specific information on filing a complaint, how Pierce College processes and responds to complaints, and a definition of terms related to this policy may be found in the Discrimination and Harassment Complaint Procedure online (<http://www.pierce.ctc.edu/policy-discrimination-and-harassment>).

Consumer Protection (Title IV) Student Complaint Process

The Higher Education Act (HEA) prohibits an institution of higher education from engaging in a substantial misrepresentation of the nature of its educational program, its financial charges, or the employability of its graduates. The Pierce College process to review and appropriately act on complaints concerning the institution including enforcing applicable state laws is in the link below. The Washington State Board for Community and Technical Colleges (SBCTC) maintains a process to investigate complaints of this nature brought by community and technical college students in the state of Washington. For information, contact SBCTC Student Services, PO Box 42495, Olympia, WA 98504-2495, 360-704-4315.

<http://www.pierce.ctc.edu/policy-consumer-protection-student-complaint>

Student Grievances

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 ombudsperson are also available to students in pursuing grievances.

Copies of the procedure are also available in the Offices of the Vice Presidents of Learning and Student Success and the Offices of the Deans of Student Success.

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

Annual Security Report, Annual Fire Safety Report and Daily Crime/Fire Log

The Pierce College District 11 Annual Security Report (ASR) is prepared in accordance with the *Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act* and the *Violence Against Women Reauthorization Act*. The ASR contains Pierce College's policies, procedures and programs concerning safety and security. The ASR also reflects *Clery Act* crimes and alcohol, drug and weapon violations and referrals which were reported to have occurred in the most recent three years on campus, in or on off-campus buildings or property owned or controlled by the college, and on public property immediately adjacent to the campus. The ASR is available online at www.pierce.ctc.edu/safety-security-report or you may pick up a paper copy at either the Fort Steilacoom or the Puyallup Campus Safety office or at one of the education centers located on Joint Base Lewis-McChord. When the 2017 ASR is released, it will be combined with our first Annual Fire Safety Report which will disclose fire safety policies, procedures and fire statistics for the Center for Global Scholars.

All fires and criminal incidents, to include alleged incidents, which have been reported are compiled into a Daily Crime/Fire Log. The Daily Crime/Fire Log is kept current reflecting the most recent 60-day period and is available for public inspection at both the Fort Steilacoom and Puyallup Campus Safety offices. Older logs are available for public inspection within two business days of request.

Inter-College Reciprocity Policy

Reciprocity of Individual Courses:

If a student transfers an individual course that meets Communication Skills, Quantitative Skills or Distribution Requirements at another institution for a specific transfer degree, that course will be accepted at Pierce College for a similar degree, even if that course does not have an exact equivalent at Pierce College.

Reciprocity of Distribution Areas/Specific Requirements:

Pierce College will accept an entire Distribution, Communication Skills, Quantitative Skills, or other requirements for a transfer degree if the student:

- Has met the residency credit at the sending college and meets Pierce College's policy on continuous enrollment.
- Has met the entire Communication Skills, Quantitative Skills or Distribution Requirements of a transfer degree, according to the sending institution's degree criteria.
- Has maintained a cumulative college-level grade point average (GPA) of 2.0 or better at the sending college.

Pierce College agrees to consider the requirement area met if these conditions are met. It is the student's responsibility to initiate the reciprocity process and to gather the appropriate documentation as needed. Students interested in initiating the reciprocity process should contact their advisor or go to the advising web-page for more specific information.

Transfer Rights and Responsibilities

Student Rights and Responsibilities

- 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.
- Transfer and freshman-entry students have the right to expect comparable standards for regular admission to programs and comparable program requirements.
- 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.
- 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.
- Students have the responsibility to complete all materials required for admission and to submit the application on or before the published deadlines.
- 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.
- When a student changes a major or degree program, the student assumes full responsibility for meeting the new requirements.
- Students who complete the general education requirements at any public four-year institution of higher education in Washington, when admitted to another public four-year institution, will have met the lower division general education requirements of the institution to which they transfer.

College and University Rights and Responsibilities

- Colleges and universities have the right and authority to determine program requirements and course offerings in accordance with the institutional missions.
- 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.
- Colleges and universities have the responsibility to communicate their admission and transfer-related decisions to students in writing (electronic or paper).

Washington 45

Washington 45 is a list of courses that satisfy general education core requirements at all universities in the state. Students may take any course from the list below and know it will satisfy core requirements at all public and private four-year colleges.

The list of Washington 45 courses does not replace the Direct Transfer Agreement and completion of these courses will not guarantee admission to a four-year college. Students who transfer Washington 45 courses must still meet the receiving institution's admission requirements.

- Communications (5 CREDITS)
ENGL 101 or ENGL& 102
- Quantitative and Symbolic Reasoning (5 CREDITS)
MATH& 107, MATH& 148 or MATH& 151
- Humanities (10 CREDITS)
PHIL& 101, MUSC& 105, DRMA& 101, ENGL& 111 or HUM& 101. For colleges that use history as a humanities course: HIST& 116, HIST& 117, HIST& 118, HIST& 146, HIST& 147 or HIST& 148
- Social Science (10 CREDITS)
PSYC& 100, SOC& 101, POLS& 101, POLS& 202. For colleges that use history as a social science course: HIST& 116, HIST&117, HIST& 118, HIST& 146, HIST& 147 or HIST& 148
- Natural Science (10 CREDITS)
BIOL& 100, BIOL& 160, ASTR& 100, ASTR& 101, CHEM& 105, CHEM& 110, CHEM& 121, CHEM& 161, CHEM& 162, ENV&S 100, ENV&S 101, PHYS 114 or GEOL& 101

Academic Calendar 2017-18

For Fort Steilacoom and Puyallup campuses only. Pierce College at Joint Base Lewis-McChord quarters begin on the same date but finals and end dates may vary. Refer to the program website at www.pierce.ctc.edu/military.

Summer Quarter - 2017

July 5	Instruction begins
July 31	Last day of instruction - Term I
August 1	Instruction begins - Term 2
August 24	Last day of instruction

Fall Quarter - 2017

September 25	Instruction begins
November 10	Veterans Day*
November 22	RPD Day*
November 23-24	Thanksgiving**
November 27	RPD Day*
December 8	Instruction ends
December 11-13	Final exams

Winter Quarter - 2018

January 3	Instruction begins
January 15	Martin Luther King Jr. Day**
February 8	RPD Day*
February 9	All District Day*
February 19	Presidents Day**
March 19	Instruction ends
March 20-22	Final exams

Spring Quarter - 2018

April 2	Instruction begins
May 4	District In-Service Day*
May 28	Memorial Day**
June 12	Instruction ends
June 13-15	Final exams
June 15	Graduation

Summer Quarter - 2018

July 2	Instruction begins
July 4	Fourth of July**
July 26	Last day of instruction - Term I
July 30	Instruction begins - Term 2
August 22	Last day of instruction

**No classes, college open*

***Holiday, college closed*

This calendar is subject to change. Please verify dates with the colleges. Emergency closure due to inclement weather and other emergencies will be relayed to major local radio and TV stations. Information is also available at <https://www.flashalert.net/>.

For updated information on events and activities, go to www.pierce.ctc.edu/calendar.

Programs of Study

General Information

Common Course Numbering (CCN)

Common Course Numbering (CCN) was adopted as a way to more easily identify the same course at different community and technical colleges in Washington. 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 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. 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. Student transcripts will contain a statement that alerts others to the Washington state Common Course Numbering change.

Please contact the advising center at either college or a faculty advisor, or go online to <https://www.pierce.ctc.edu/sites/default/files/ccn.pdf> for additional information.

Quarter System

Pierce College’s academic year is divided into quarters. Fall, winter and spring quarters are ten weeks in length; summer, eight weeks. See Academic Calendar.

Course Number System

- 001-099 Adult Basic Education (ABE), English as a Second Language (ESL), General Education Development (GED) and high school completion
- 042-099 Developmental or pre-college level courses designed to help students succeed in subsequent college-level courses. These 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
- 300-499 Junior and Senior level courses applicable to Bachelor of Applied Science degrees

Completion Time for Degrees and Certificates

Students are allowed up to six years to complete degree or certificate requirements that were in effect at that time. The six-year period begins when a program of study is officially declared. Students who do not fulfill the requirements in that period must meet the requirements currently in effect for their degree/certificates. All prior credit that has been evaluated as equivalent to current requirements will be counted toward their fulfillment. Alternately, a student may choose to meet current degree requirements.

Changes in Program

Official changes in the student’s program of study or change of advisor require approval. Students should meet with their advisor to discuss options. An official program change will establish an “official starting date” for the new program and preserve a full six-year period to complete 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 three years of when the program is discontinued. 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

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

University Transfer Degrees ensure that students who complete these degrees have satisfied the lower division general education/core requirements and lower division degree related requirements for the baccalaureate institutions.

All students are required to successfully complete COLLG 110 College Success during the first or second quarter of attendance. College Success is designed to prepare students to navigate the college system and enhance opportunities for success. The course emphasizes college success strategies, self-assessment, goal-setting, career exploration, effective study habits, campus resources, and efficient use of online tools for learning, educational planning and enrollment.

Associate of Arts (AA-DTA)

Associate of Arts - Option B

Direct Transfer Agreement/Major Ready Pathway (DTA/MRP) Degrees

Associate of Science (AS-T) Degree Track 1

Associate of Science (AS-T) Degree Track 2

Professional/Technical Degrees and Certificates

Bachelor of Applied Science (BAS)

Associate in Applied Science - Transfer (AAS-T)

Associate in Technology - Specific Program

Associate in Technology - General

Professional/Technical Certificates

Accounting

Faculty: Suzanne Lozono (FS)

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 www.pierce.ctc.edu/dept/accounting/outcomes

Professional/Technical

Accounting Office Assistant Certificate

General Requirements (13-14 Credits)

- COLLG 110 College Success (3)
- BTECA 136 Ten-Key Mastery (1) **
- BUS 240 Human Relations in the Workplace (5)

Select one:

- BTECA 115 Business English I (5)
- ENGL& 101 English Composition I (5) *

Introductory Classes (15 Credits)

- CIS 121 Introduction to Computer Information Systems (5)

Select one:

- ACCT 150 Introduction to Accounting and Bookkeeping I (5)
- ACCT& 201 Principles of Accounting I (5) *

Select one:

- ACCT 151 Introduction to Accounting and Bookkeeping II (5)

- ACCT& 202 Principles of Accounting II (5) *

Advanced Classes (15 Credits)

- ACCT 131 QuickBooks (5)
- ACCT 275 Payroll and Business Taxes (5)
- ACCT 276 Nonprofit Management and Reporting (5)

Internship (3 Credits)

Select one:

- ACCT 287 Income Tax Practicum (3)
- MNGT 198 Work-Based Learning (3)

Total Credits Required 46-47

*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 the Associate in Business - DTA degree.

**BTECA 136 may be waived if proficiency on 10-key is demonstrated.

Program Code: 505C

Last revision: 2017-18

Accounting Technology Certificate

General Requirements (13-14 Credits)

- COLLG 110 College Success (3)
- BTECA 136 Ten-Key Mastery (1) **
- BUS 240 Human Relations in the Workplace (5)

Select one:

- BTECA 115 Business English I (5)
- ENGL& 101 English Composition I (5) *

Introductory Classes (23 Credits)

- BTECA 117 Business Mathematics (5)
- CIS 121 Introduction to Computer Information Systems (5)

Select:

- CIS 136 Spreadsheet Applications (3)
or all three:
- BTECA 121 Microsoft Excel: Prepare Format Basic Worksheets (1)
- BTECA 122 Microsoft Excel: Insert Formulas and Enhancements (1)
- BTECA 123 Microsoft Excel: Create Charts and Diagrams (1)

Select one:

- ACCT 150 Introduction to Accounting and Bookkeeping I (5)
- ACCT& 201 Principles of Accounting I (5)

Select one:

- ACCT 151 Introduction to Accounting and Bookkeeping II (5)
- ACCT& 202 Principles of Accounting II (5)

Advanced Classes (20 Credits)

- ACCT 131 QuickBooks (5)
- ACCT 180 Accounting Systems (5)
- ACCT 275 Payroll and Business Taxes (5)
- ACCT 276 Nonprofit Management and Reporting (5)

Internship (3 Credits)

Select one:

- ACCT 287 Income Tax Practicum (3)
- MNGT 198 Work-Based Learning (3)

Total Credits Required 59-60

*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 the Associate in Business - DTA degree.

**BTECA 136 may be waived if proficiency on 10-key is demonstrated.

Program Code: TBA

Last revision: 2017-18

Applied Accounting Associate

Some Accounting classes are only offered at the Puyallup Campus

General Requirements (28 Credits)

College Success (3 Credits)

- COLLG 110 College Success (3)

Communications (10 Credits)

Select one:

- BTECA 115 Business English I (5)
- ENGL& 101 English Composition I (5) *

Select one:

- CMST& 101 Introduction to Communications (5) *
- CMST& 220 Public Speaking (5) *

Computation/Quantitative/Symbolic Reasoning Skills (5 Credits)

Select one:

- BTECA 117 Business Mathematics (5)
- MATH 147 Business Precalculus (5) *

Human Relations and Leadership (10 Credits)

- BUS 240 Human Relations in the Workplace (5)
- MNGT 194 Principles of Leadership (5)

Accounting Requirements (40 Credits)

Select one:

- ACCT 150 Introduction to Accounting and Bookkeeping I (5)
- ACCT& 201 Principles of Accounting I (5)

Select one:

- ACCT 151 Introduction to Accounting and Bookkeeping II (5)
- ACCT& 202 Principles of Accounting II (5)

All of the following are required:

- ACCT 131 QuickBooks (5)
- 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 276 Nonprofit Management and Reporting (5)

Internship (3 Credits)

Select one:

- ACCT 287 Income Tax Practicum (3)
- MNGT 198 Work-Based Learning (3)

Business Requirements (17-19 Credits)

- BTECA 100 Business Keyboarding: Key the Alphabet by Touch (1)
- BTECA 101 Business Keyboarding: Key Numbers and Symbols by Touch (1)
- BTECA 110 Microsoft Word: Prepare and Edit Documents (1)
- BTECA 111 Microsoft Word: Enhance and Customize Documents (1)
- BTECA 112 Microsoft Word: Create Tables and Merge Documents (1)
- BTECA 136 Ten-Key Mastery (1)
- BUS& 201 Business Law (5)
- CIS 121 Introduction to Computer Information Systems (5)

Select one:

- CIS 136 Spreadsheet Applications (3)
or all three:
- BTECA 121 Microsoft Excel: Prepare Format Basic Worksheets (1)
- BTECA 122 Microsoft Excel: Insert Formulas and Enhancements (1)
- BTECA 123 Microsoft Excel: Create Charts and Diagrams (1)

Electives (3 Credits)

Total Credits Required 100

**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 the Associate in Business - DTA degree.*

Program Code: 505

Last revision: 2017-18

Bookkeeping Office Assistant Certificate

General Requirements (10 Credits)

- ACCT 131 QuickBooks (5)

Select one:

- ACCT 150 Introduction to Accounting and Bookkeeping I (5)
- ACCT& 201 Principles of Accounting I (5)

Total Credits Required 10

Program code: TBA

Last revision: 2016-17

Anthropology/Archaeology

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

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

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.

University Transfer

Anthropology/Archaeology Major

This planning sheet lists only the courses related to the anthropology major. Students planning to transfer as anthropology majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should 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 anthropology 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& 102 Composition II: Argumentation and Research (5)
- Anthropology majors are encouraged to take at least two quarters of world language.

Focus Requirements

In addition to the courses listed above, the following courses are recommended as relevant options for each focus. 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 The American Mosaic (5)
- ANTH 240 Women in Cross Cultural Perspectives (5)

- PSYC& 100 General Psychology (5)
and/or
- SOC& 101 Introduction to Sociology (5)

- GEOG 200 Human Geography (5)
or
- GEOG 100 Introduction to Geography (5)

- MATH& 146 Introduction to Statistics (5)
- ANTH& 210 Indians of North America (5) *
- ANTH& 216 Northwest Coast Indians (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 Introduction to Physical Geology (5)
- MATH& 146 Introduction to Statistics (5)
- ANTH& 210 Indians of North America (5) *
- ANTH& 216 Northwest Coast Indians (5) *

Biological Anthropology Focus

- BIOL& 160 General Biology w/Lab (5)
- BIOL& 241 Human Anatomy and Physiology 1 (6)
- CHEM& 121 Intro to Chemistry (5)
- MATH& 151 Calculus I (5)

- PSYC& 100 General Psychology (5)
and/or
- SOC& 101 Introduction 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 Introduction to Physical Geology (5)
- ANTH& 104 World Prehistory (5) *

Art

Faculty: David Roholt (FS)

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 broadbased 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.

University Transfer

Art Major

This planning sheet lists only the courses related to the art major. Students planning to transfer as art majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. Art majors should work closely with a faculty advisor to plan an overall program of study. Students can also follow the (AA-Option B) Requirements.

Art Major

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

- ART& 100 Art Appreciation (5)
- ART 101 Design, Beginning (5)

- ART 102 Design, Intermediate (5)
- ART 105 Introduction to Art (5)
- ART 107 Photography, Beginning (5)
- ART 111 Drawing, Beginning (5)
- ART 112 Drawing, Intermediate (5)
- ART 113 Drawing, Advanced (5)
- ART 201 Painting, Beginning (5)
- ART 202 Painting, Intermediate (5)
- ART 203 Painting, Advanced (5)

Astronomy

Faculty: Hillary Stephens (FS); Tom Bush (PY)

Astronomy is the science of the celestial bodies - their motions, positions, distances, magnitudes and relationships to earth. Pierce College 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.

University Transfer

Astronomy/Earth Science Major

This planning sheet lists only the courses related to the astronomy/earth science major. Students planning to transfer as astronomy/earth science majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. Astronomy/earth science majors should work closely with a faculty advisor to plan an overall program of study.

Astronomy/Earth Science Major

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

Atmospheric Science

Faculty: Hillary Stephens (FS); Tom Bush (PY)

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.

University Transfer

Atmospheric Science Major

This planning sheet lists only the courses related to the atmospheric science major. Students planning to transfer as atmospheric science majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. Atmospheric science majors should work closely with a faculty advisor to plan an overall program of study.

Atmospheric Science Major

- ATMOS 101 Introduction to Weather (5)
- CHEM& 161 General Chemistry with Lab I (5)
- CHEM& 162 General Chemistry with Lab II (5)
- CHEM& 163 General Chemistry with Lab III (5)
- MATH& 141 Precalculus I (5)
- MATH& 151 Calculus I (5)
- MATH& 152 Calculus II (5)
- MATH& 153 Calculus III (5)
- PHYS& 221 Engineering Physics I (6)
- PHYS& 222 Engineering Physics II (6)
- PHYS& 223 Engineering Physics III (6)
- GEOL& 101 Introduction to Physical Geology (5)
- GEOG 205 Physical Geography (5)
- ENVS& 100 Survey of Environmental Science (5)
- OCEA& 101 Introduction to Oceanography (5)
- Computer Sciences and Programming (5)
- Electives in the Earth Sciences and Geography (5)

Basic Education For Adults (BEA)

Basic Education 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), High School Completion (HSC), Pierce College Adult Diploma (PCAD), General Education Development (GED) and Integrated Basic Education and Skills Training (I-BEST). Students enrolled in ABE and ESL courses will earn S/P/NP grades.

More information is available at www.pierce.ctc.edu/beda.

Note: This does not apply to international students on F-1 visas. International students interested in high school completion must contact the International Education department.

Other Programs

Adult Basic Education

Faculty: Teah Bergstrom, Bill Orrange

Adult Basic Education (ABE) allows adults to improve their skills in reading, writing, math, and workplace and computer fundamentals in order to advance in a current job, become more employable or continue into professional technical or college programs. ABE classes are offered during the day or evening on campus or in the community.

English as a Second Language (ESL)

Faculty: Sabine Burghagen, Julie Sandeno, Sandra Stevens

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

General Education Development (GED)

Faculty: Teah Bergstrom, Bill Orrange

The GED consists of four tests: Language Arts, Math, Science and Social Science. Students can take PCAD classes to review topics in specific subject matter to increase skills prior to taking the tests. Once students are ready to take the test go to www.gedtestingservice.com to schedule and pay.

High School Completion

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:

- 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.
- 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

- Make an appointment with an advisor. Fort Steilacoom: (253) 912-3743 or Puyallup: (253) 864-3162
- 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, staff will help students obtain transcripts.

REQUIREMENTS

- All students must meet Pierce College High School and Washington state credit requirements.
- Any student who began high school in 2004 or later must take and pass the Washington State Assessment or state-approved alternatives.
- Pierce College requires 20 credits and the above requirements for a high school diploma.
- All students must take a placement assessment.
- 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.

Integrated Basic Education and Skills Training (I-BEST)

Pierce College Integrated Basic Education and Skills Training (I-BEST) is open to all Pierce College Adult Diploma (PCAD), Adult Basic Education (ABE), General Education Development (GED), English as a Second Language (ESL), and pre-college level adult learners. I-BEST programs provide high 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, Business Administration 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) 964-6691

Pierce College Adult Diploma (PCAD)

Faculty: Teah Bergstrom, Way Jeng, Bill Orrange, Sandra Stevens

The Pierce College Adult Diploma (PCAD) program offers a flexible curriculum based on student credit needs that helps students achieve their goals. Regardless of how long it has been since a student's education was interrupted, students can get back on track, earn college credit, and obtain a Washington state high school diploma. Classes are available mornings, afternoons or evenings. All classes meet four times per week M-Th.

A high school diploma requires 20 high school credits, including the completion of Pierce College's required courses of College Success and an ITRANS college transitional class in English, reading or math. Graduates from Pierce College's high school program will have developed college-ready skills.

This program is for adults who are age 21 or older. However, students who are 19 or 20 years old are welcome to take classes, but the high school credits that are earned will not appear on Pierce's transcripts until the student turns 21.

Students who are 16-18 years old will need a release from their high school to enroll in the GED program.

New students need to meet with a high school completion adviser to evaluate their transcripts (transcripts can be unofficial to enter the program, however, official high school transcripts must be on file before a high school diploma can be issued). After meeting with the advisor, the student will attend an orientation and be scheduled for the state required CASAS testing. Students are then enrolled in classes based on their skills assessment results.

For questions, more information, or to start your enrollment process, please call:

- Fort Steilacoom (253) 964-6657
- Puyallup (253) 840-8455

Biology

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

Pierce College's Biology and Natural Sciences Department offers courses for students planning to transfer to four-year institutions or to complete associate degree requirements in other programs, and for those who have a personal interest in these areas for elective credit. Biology major transfer students should complete the AS-Track 1 or Associate in Biology (DTA/MRP) requirements. Students should also check with the transfer institution regarding specific requirements and transferable credits.

The Associate in Biology (DTA/MRP) is applicable to students planning to prepare for upper division Bachelor's degree majors in Biology. Many students transfer to baccalaureate institutions after completing the Associate Degree Direct Transfer Agreement (DTA); this pathway does not alter that agreement or the possibility that students may continue to follow this path. This Biology MRP streamlines and facilitates preparation for upper division course work in Biology across the state.

See Degree Outcomes.

University Transfer

Biology (DTA/MRP)

This pathway is applicable to students planning to prepare for upper division Bachelor's degree majors in Biology. Many students transfer to baccalaureate institutions after completing the Associate in Biology Direct Transfer Agreement/Major Ready Pathway (DTA/MRP). This degree streamlines and facilitates preparation for upper division course work in Biology across the state.

Biology major transfer students could complete the Associate of Science (AS-T) Degree Track 1. Students could transfer to baccalaureate institutions after completing the Associate of Arts (AA-DTA) ; this pathway does not alter that agreement or the possibility that students may continue to follow this path. Students should also check with the transfer institution regarding specific requirements and transferable credits.

Degree Outcomes

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 General Transferable Elective (GTE) credits, and 15 General Elective credits.
- ENGL& 101 English Composition I - required
- COLLG 110 College Success required during the first or second quarter of attendance
- Earn the lesser of (at least) 20 college level credits or 25% of the credits applicable to the degree or certificate 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 GTE courses is required unless stated otherwise
- "Pass" (P) grades, independent study and cooperative work experience/work-based learning credits may be used for general elective credits only
- Once a course has been successfully completed, credits earned may be used in only one category

Core Requirements

Communications (10 Credits)

ENGL& 101 requires a 2.0 or higher grade. Second communications course requires a 1.5 or higher grade.

- ENGL& 101 English Composition I (5) required

Select one:

- ENGL& 102 Composition II: Argumentation and Research (5)
- ENGL 107 Composition III: Writing About Literature (5)

Quantitative Skills (5 Credits)

Requires a 1.5 or higher grade.

Intermediate algebra proficiency leading to a pre-calculus math course is required. Intermediate algebra proficiency may be demonstrated by successful completion of a calculus and/or statistics course for which intermediate algebra is a prerequisite.

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

Select one:

- MATH& 146 Introduction to Statistics (5) *
- MATH& 151 Calculus I (5)

Humanities (15 Credits)

Requires a 1.5 or higher grade. Select from at least **two** disciplines. Nor more than **five** credits from performance skills and no more than **five** credits are allowed in world language.

- ART& 100 Art Appreciation (5)
- ART 105 Introduction to Art (5)
- ART 145 History of Art - Contemporary (5)
- ART 215 Art for Teachers (5)
- ART 243 History of Art – Ancient World Through the Middle Ages (5)
- ART 244 History of Art – Renaissance Through Rococo (5)
- ART 245 History of Art – The Modern World (5)
- ART 260 Art in Motion: Real and Recorded (5)
- ASL& 121 American Sign Language I (5)
- ASL& 122 American Sign Language II (5)
- ASL& 123 American Sign Language III (5)

- ASL& 221 American Sign Language IV (5)
- ASL& 222 American Sign Language V (5)
- ASL& 223 American Sign Language VI (5)
- CMST& 101 Introduction to Communications (5)
- CMST& 102 Introduction to Mass Media (5)
- CMST 105 Intercultural Communication (5)
- CMST& 220 Public Speaking (5)
- CMST& 230 Small Group Communication (5)
- DRMA& 101 Introduction to the Theatre (5)
- DRMA 160 Introduction 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 204 The Bible as Literature (5)
- ENGL 205 Introduction to Mythology (5)
- ENGL 207 Native American Literature (5)
- ENGL 210 Introduction to American Literature (5)
- ENGL 214 Screenwriting I (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& 236 Creative Writing I (5)
- ENGL& 237 Creative Writing II (5)
- ENGL& 238 Creative Writing 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 249 Creative Writing: Special Projects (5)
- ENGL 264 Literature of U.S. Slavery and Abolition (5)
- ENGL 265 American Literature: Comedy, Humor and Satire (5)
- ENGL 266 Women Writers: Voices from the International Mosaic (5)
- FRCH& 121 French I (5)
- FRCH& 122 French II (5)
- FRCH& 123 French III (5)
- GERM& 121 German I (5)
- GERM& 122 German II (5)
- GERM& 123 German III (5)
- HUM& 101 Introduction 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 120 Introduction to Folklore (5)
- HUM 161 Western Thought and Culture I: The Classical World (5)
- HUM 162 Western Thought and Culture II: The Middle Ages (5)

- HUM 163 Western Thought and Culture III: Birth of the Modern World (5)
- HUM 164 Western Thought and Culture IV: The Modern World (5)
- HUM 204 American Popular Culture (5)
- HUM 209 The Civil Rights Movement: From the Ground Up (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 Japanese I (5)
- JAPN& 122 Japanese II (5)
- JAPN& 123 Japanese III (5)
- JOURN 103 Introduction to Feature Writing (1-5)
- JOURN 125 The Documentary: A Social Force (5)
- KREA& 121 Korean I (5)
- KREA& 122 Korean II (5)
- KREA& 123 Korean III (5)
- MUSC 100 Introduction to Rock & Roll (5)
- MUSC 102 American Popular Music (5)
- MUSC 103 Introduction to Jazz (5)
- MUSC& 105 Music Appreciation (5)
- MUSC 106 World Music (5)
- MUSC& 141 Music Theory I (5)
- MUSC& 142 Music Theory II (5)
- MUSC& 143 Music Theory III (5)
- MUSC& 241 Music Theory IV (5)
- MUSC& 242 Music Theory V (5)
- MUSC& 243 Music Theory VI (5)
- MUSC 205 Music for Teachers (5)
- PHIL& 101 Introduction to Philosophy (5)
- PHIL 110 Introduction to Bioethics (5)
- PHIL& 115 Critical Thinking (5)
- PHIL 150 Introduction to Ethics (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 Russian I (5)
- RUSS& 122 Russian II (5)
- RUSS& 123 Russian III (5)
- SPAN& 121 Spanish I (5)
- SPAN& 122 Spanish II (5)
- SPAN& 123 Spanish III (5)
- SPAN& 221 Spanish IV (5)

Humanities Performance/Skills

- ART 101 Design, Beginning (5)

- ART 102 Design, Intermediate (5)
- ART 107 Photography, Beginning (5)
- ART 113 Drawing, Advanced (5)
- ART 111 Drawing, Beginning (5)
- ART 112 Drawing, Intermediate (5)
- ART 115 3-Dimensional Design (5)
- ART 150 Printmaking, Beginning (5)
- ART 201 Painting, Beginning (5)
- ART 202 Painting, Intermediate (5)
- ART 203 Painting, Advanced (5)
- ART 204 Watercolor, Beginning (5)
- ART 211 Beginning Sculpture (5)
- DRMA 170 Technical Film and Theatre I (5)
- DRMA 171 Technical Film and Theatre II (5)
- DRMA 172 Technical Film and Theatre III (5)
- DRMA 260 Acting for Stage and Digital Film I (5)
- DRMA 261 Acting for Stage and Digital Film II (5)
- DRMA 262 Acting for Stage and Digital Film III (5)
- DRMA 280 Production Practicum I (1-3)
- DRMA 281 Production Practicum II (1-3)
- DRMA 282 Production Practicum III (1-3)
- DRMA 283 Production Practicum IV (1-3)
- DRMA 284 Production Practicum V (1-3)
- DRMA 285 Production Practicum VI (1-3)
- MUSC 126 Beginning Class Guitar (1)
- MUSC 127 Intermediate Class Guitar (1)
- MUSC 144 Concert Choir (2)
- MUSC 147 Chamber Choir (2)
- MUSC 150 College Band (2)
- MUSC 154 College Orchestra (1)
- MUSC 157 Jazz Band (2)
- MUSC 160 Private Instruction: Arranging (1)
- MUSC 161 Private Instruction: Improvisation (1)
- MUSC 162 Private Instruction: Brass (1)
- MUSC 163 Private Instruction: Woodwind (1)
- MUSC 164 Private Instruction: Percussion (1)
- MUSC 165 Private Instruction: Voice (1)
- MUSC 166 Private Instruction: Orchestral Strings (1)
- MUSC 167 Private Instruction: Keyboard (1)
- MUSC 168 Private Instruction: Plectrum Strings (1)
- MUSC 170 Brass Ensemble (1)
- MUSC 171 Woodwind Ensemble (1)
- MUSC 172 Percussion Ensemble (1)
- MUSC 173 String Ensemble (1)
- MUSC 174 Vocal Ensemble (1)
- MUSC 181 Beginning Class Piano (1)
- MUSC 182 Intermediate Class Piano (1)
- MUSC 183 Advanced Class Piano (1)

- MUSC 244 Concert Choir (2)
- MUSC 247 Chamber Choir (2)
- MUSC 250 College Band (2)
- MUSC 257 Jazz Band (2)
- MUSC 260 Private Instruction: Arranging (1)
- MUSC 261 Private Instruction: Improvisation (1)
- MUSC 262 Private Instruction: Brass (1)
- MUSC 263 Private Instruction: Woodwind (1)
- MUSC 264 Private Instruction: Percussion (1)
- MUSC 265 Private Instruction: Voice (1)
- MUSC 266 Private Instruction: Orchestral Strings (1)
- MUSC 267 Private Instruction: Keyboard (1)
- MUSC 268 Private Instruction: Plectrum Strings (1)
- MUSC 270 Brass Ensemble (1)
- MUSC 271 Woodwind Ensemble (1)
- MUSC 272 Percussion Ensemble (1)
- MUSC 273 String Ensemble (1)
- MUSC 274 Vocal Ensemble (1)

Social Sciences (15 Credits)

Requires a 1.5 or higher grade. Select from at least **two** disciplines.

- ANTH& 100 Survey of Anthropology (5)
- ANTH& 104 World Prehistory (5)
- ANTH& 106 The 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 Introduction to Business (5)
- BUS& 201 Business Law (5)
- CJ& 105 Corrections in America (5)
- CJ 112 Criminal Justice in America (5)
- CJ 202 Concepts of Criminal Law (5)
- ECED& 105 Introduction to Early Childhood Education (5)
- ECED 335 Law and Ethics (3)
- ECED& 355 Social and Political Context of Early Childhood Education (3)
- ECON 110 Survey of Economics (5)
- ECON& 201 Microeconomics (5)
- ECON& 202 Macroeconomics (5)
- EDUC& 115 Child Development (5)
- GEOG 100 Introduction to Geography (5)
- GEOG 150 The Americas, Australia, Europe and New Zealand (5)
- GEOG 160 Africa, Middle East and Asia (5)

- GEOG 200 Human Geography (5)
- HIST& 126 World Civilizations I (5)
- HIST& 127 World Civilizations II (5)
- HIST& 128 World Civilizations III (5)
- HIST& 156 History of U. S. I (5)
- HIST& 157 History of U. S. II (5)
- HIST& 158 History of U.S. III (5)
- HIST& 159 History of U.S. IV (5)
- HIST 168 Vietnam War as History (5)
- HIST 175 A Brief History of Global Leadership (5)
- HIST& 214 Pacific Northwest History (5)
- HIST 260 History of Russia and the Soviet Union (5)
- HIST 265 History of Latin American Since 1810 (5)
- HIST 266 History of Europe Since 1870 (5)
- HIST 267 History of Africa Since 1800 (5)
- HIST 270 Introduction to the Far East (5)
- HIST 272 Survey of Middle East History (5)
- HIST 277 The Cold War (5)
- HIST 280 Introduction to Chinese Civilization (5)
- HIST 284 Introduction to the Balkans (5)
- HIST 287 History of Japan Since Antiquity (5)
- INTS 107 Introduction 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 in the Modern World (5)
- INTS 300 Social Studies for Teachers (5)
- POLS& 101 Introduction to 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 Intro to Personality (5)
- SOC& 101 Introduction 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 235 Race and Ethnicity (5)

Natural Sciences (30 Credits)

Requires a 1.5 grade or higher. A full year sequence at a single college is the best preparation for the baccalaureate biology degree.

- BIOL& 211 Majors: Cellular (5)
- BIOL& 212 Majors: Animals (5)
- BIOL& 213 Majors: Plant (5)
- CHEM& 161 General Chemistry with Lab I (5)
- CHEM& 162 General Chemistry with Lab II (5)
- CHEM& 163 General Chemistry with Lab III (5)

General Electives (15 Credits)

Minimum grade of 1.0 is required. Additional college-level courses so that the total credits earned is a least 90 credits. May include pre-requisites for major courses, additional coursework, or specific general education or other university requirements. A maximum of three PE activity credits can be applied to this degree.

- COLLG 110 College Success (3) required with a 2.0 or higher grade

Total Credits 90

Program Code: ABT

Notes:

- Admission application deadlines vary; students must meet the deadline for the university or universities to which they plan to apply for transfer admission.
- Certain schools may have additional university-specific requirements that are not prerequisites to admission to the Biology major but will need to be completed prior to graduation. Contact with advisors from individual schools for institutional requirements is highly recommended since this DTA may not meet every institution specific graduation requirement.
- Certain schools may have additional university-specific requirements for admission to the institution that are not prerequisites specifically identified in the DTA requirements.
- 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 and social science courses that best support or may be required as prerequisites to their Biology curriculum.
- Students should check with the transfer institution prior to taking any further biology courses beyond the one-year sequence. Some colleges require all continuing biology courses be taken at the 300 level.

Business

Faculty: Dr. Paul Gerhardt, Tom Phelps, Blake Sorem (FS); Steve Jones, Linda Saarela (PY)

The Associate in Business program offers a flexible curriculum that provides a balanced background in business with areas of specialization. This degree has a Business Management focus offering a broad range of classes to strengthen management skills

and increase opportunities for advancement. A marketing specialization offers training and experience in sales, promotion, and marketing on the internet. Retail/Fashion Merchandising focuses on apparel design and construction, textiles and retailing. Students focusing on Small Business/Entrepreneurship can acquire new skills to use in operating their own small business. Human Resource Management emphasizes a working knowledge of managing and 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 (primarily at Fort Steilacoom) and evening (primarily at Puyallup) hours. This degree will transfer to The Evergreen State College in Tacoma and Olympia, Brandman University (Organizational Leadership Program), Western Governors University, City University, Central Washington University (ITAM program) and DeVry University. Students should contact an academic advisor and talk to Business Department faculty about transfer options and certificates.

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/business-protech-outcomes

University Transfer

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 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.

This degree can be earned in one of three ways. In addition to the traditional classroom-based format, students can also earn the degree online or through our new competency-based education program.

Degree Outcomes

Online Associate in Business - DTA/MRP Degree

In order to meet the changing needs of our students, Pierce College now offers the Associate in Business – DTA/MRP degree entirely online. The requirements for the online degree are the same as the traditional program, but with added flexibility. Students enroll and complete classes during the traditional academic quarters.

Competency-Based Business Transfer Degree

The Associate in Business – DTA/MRP degree can also be earned through Pierce's Competency Based Education (CBE) program, which is completely online and self-paced. Students work through competencies, taking advantage of prior experience in work or life where appropriate. There is a formal application to the program and students enroll in six-month terms. Along with instructors, a completion coach is dedicated specifically to assist students with progress toward the degree. Many of these courses will make greater use of free or low-cost textbooks available to students online. For more information, visit www.pierce.ctc.edu/dept/business/competencybasedprograms or email cbe@pierce.ctc.edu.

General Degree Requirements

- Minimum of 90 earned credits in courses numbered 100 or above
- ENGL 101 English Composition I - required
- COLLG 110 College Success required during the first or second quarter of attendance
- Earn the lesser of (at least) 20 college level credits or 25% of the credits applicable to the degree or certificate 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 stated otherwise
- "Pass" (P) grades, independent study and cooperative work experience/work-based learning credits may be used for general elective credits only
- Once a course has been successfully completed, credits earned may be used in only one category

Core Requirements

Communication Skills (10 Credits)

ENGL& 101 requires a 2.0 grade or higher. Second communications course requires a 1.5 or higher grade. Must include a least **five** credits of English composition. Remaining credits may be used for an additional composition course or designated writing courses or courses in basic speaking skills (e.g. speech, rhetoric, or debate).

To meet current EWU requirements, the second English Composition course must be equivalent to EWU's English 201 - College Composition: Analysis, Research, and Documentation.

- ENGL& 101 English Composition I (5)

Select one:

- ENGL& 102 Composition II: Argumentation and Research (5)
- ENGL 107 Composition III: Writing About Literature (5)

Quantitative/Symbolic Reasoning Skills (10 Credits)

Students must meet stated math prerequisites. MATH 147 and MATH& 148 are required with a 2.0 grade or higher.

- MATH 147 Business Precalculus (5)
- MATH& 148 Business Calculus (5)

Humanities (15 Credits)

Courses require a 1.5 grade or higher. Selected from at least **two** disciplines. No more than **10** credits allowed from any **one** discipline. No more than **five** credits in world language at the 100 level, and no more than **five** credits in performance/skills courses are allowed.

Students pursuing an international business major should consult their potential transfer institutions regarding the level of world language required for admission to the major.

Students are encouraged to include a speech or oral communication course (not small group communication.)

- ART& 100 Art Appreciation (5)
- ART 105 Introduction to Art (5)
- ART 145 History of Art - Contemporary (5)
- ART 215 Art for Teachers (5)
- ART 243 History of Art – Ancient World Through the Middle Ages (5)
- ART 244 History of Art – Renaissance Through Rococo (5)
- ART 245 History of Art – The Modern World (5)
- ART 260 Art in Motion: Real and Recorded (5)
- ASL& 121 American Sign Language I (5)
- ASL& 122 American Sign Language II (5)
- ASL& 123 American Sign Language III (5)
- ASL& 221 American Sign Language IV (5)
- ASL& 222 American Sign Language V (5)
- ASL& 223 American Sign Language VI (5)
- CMST& 101 Introduction to Communications (5)
- CMST& 102 Introduction to Mass Media (5)
- CMST 105 Intercultural Communication (5)
- CMST& 220 Public Speaking (5)
- DRMA& 101 Introduction to the Theatre (5)
- DRMA 160 Introduction 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 204 The Bible as Literature (5)
- ENGL 205 Introduction to Mythology (5)
- ENGL 207 Native American Literature (5)
- ENGL 210 Introduction to American Literature (5)
- ENGL 214 Screenwriting I (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& 235 Technical Writing (5)
- ENGL& 236 Creative Writing I (5)
- ENGL& 237 Creative Writing II (5)
- ENGL& 238 Creative Writing 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: Comedy, Humor and Satire (5)
- ENGL 266 Women Writers: Voices from the International Mosaic (5)
- FRCH& 121 French I (5)
- FRCH& 122 French II (5)
- FRCH& 123 French III (5)
- GERM& 121 German I (5)
- GERM& 122 German II (5)
- GERM& 123 German III (5)
- HUM& 101 Introduction 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 120 Introduction to Folklore (5)
- HUM 161 Western Thought and Culture I: The Classical World (5)
- HUM 162 Western Thought and Culture II: The Middle Ages (5)
- HUM 163 Western Thought and Culture III: Birth of the Modern World (5)
- HUM 164 Western Thought and Culture IV: The Modern World (5)
- HUM 204 American Popular Culture (5)
- HUM 209 The Civil Rights Movement: From the Ground Up (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 Japanese I (5)
- JAPN& 122 Japanese II (5)
- JAPN& 123 Japanese III (5)
- JOURN 103 Introduction to Feature Writing (1-5)
- JOURN 125 The Documentary: A Social Force (5)
- KREA& 121 Korean I (5)
- KREA& 122 Korean II (5)
- KREA& 123 Korean III (5)
- MUSC 100 Introduction to Rock & Roll (5)
- MUSC 102 American Popular Music (5)
- MUSC 103 Introduction to Jazz (5)
- MUSC& 105 Music Appreciation (5)
- MUSC 106 World Music (5)
- MUSC& 141 Music Theory I (5)
- MUSC& 142 Music Theory II (5)
- MUSC& 143 Music Theory III (5)
- MUSC 205 Music for Teachers (5)
- MUSC& 241 Music Theory IV (5)
- MUSC& 242 Music Theory V (5)
- MUSC& 243 Music Theory VI (5)
- PHIL& 101 Introduction to Philosophy (5)
- PHIL 110 Introduction to Bioethics (5)

- PHIL 150 Introduction to Ethics (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 Russian I (5)
- RUSS& 122 Russian II (5)
- RUSS& 123 Russian III (5)
- SPAN& 121 Spanish I (5)
- SPAN& 122 Spanish II (5)
- SPAN& 123 Spanish III (5)
- SPAN& 221 Spanish IV (5)

Humanities Performance/Skills

- ART 101 Design, Beginning (5)
- ART 102 Design, Intermediate (5)
- ART 107 Photography, Beginning (5)
- ART 111 Drawing, Beginning (5)
- ART 112 Drawing, Intermediate (5)
- ART 113 Drawing, Advanced (5)
- ART 150 Printmaking, Beginning (5)
- ART 201 Painting, Beginning (5)
- ART 202 Painting, Intermediate (5)
- ART 203 Painting, Advanced (5)
- ART 204 Watercolor, Beginning (5)
- ART 211 Beginning Sculpture (5)
- DRMA 170 Technical Film and Theatre I (5)
- DRMA 171 Technical Film and Theatre II (5)
- DRMA 260 Acting for Stage and Digital Film I (5)
- DRMA 261 Acting for Stage and Digital Film II (5)
- DRMA 262 Acting for Stage and Digital Film III (5)
- DRMA 280 Production Practicum I (1-3)
- DRMA 281 Production Practicum II (1-3)
- DRMA 282 Production Practicum III (1-3)
- DRMA 283 Production Practicum IV (1-3)
- DRMA 284 Production Practicum V (1-3)
- DRMA 285 Production Practicum VI (1-3)
- MUSC 126 Beginning Class Guitar (1)
- MUSC 127 Intermediate Class Guitar (1)
- MUSC 144 Concert Choir (2)
- MUSC 147 Chamber Choir (2)
- MUSC 150 College Band (2)
- MUSC 154 College Orchestra (1)
- MUSC 157 Jazz Band (2)
- MUSC 160 Private Instruction: Arranging (1)
- MUSC 161 Private Instruction: Improvisation (1)

- MUSC 162 Private Instruction: Brass (1)
- MUSC 163 Private Instruction: Woodwind (1)
- MUSC 164 Private Instruction: Percussion (1)
- MUSC 165 Private Instruction: Voice (1)
- MUSC 166 Private Instruction: Orchestral Strings (1)
- MUSC 167 Private Instruction: Keyboard (1)
- MUSC 168 Private Instruction: Plectrum Strings (1)
- MUSC 170 Brass Ensemble (1)
- MUSC 171 Woodwind Ensemble (1)
- MUSC 172 Percussion Ensemble (1)
- MUSC 173 String Ensemble (1)
- MUSC 174 Vocal Ensemble (1)
- MUSC 181 Beginning Class Piano (1)
- MUSC 182 Intermediate Class Piano (1)
- MUSC 183 Advanced Class Piano (1)
- MUSC 244 Concert Choir (2)
- MUSC 247 Chamber Choir (2)
- MUSC 250 College Band (2)
- MUSC 254 College Orchestra (1)
- MUSC 257 Jazz Band (2)
- MUSC 260 Private Instruction: Arranging (1)
- MUSC 261 Private Instruction: Improvisation (1)
- MUSC 262 Private Instruction: Brass (1)
- MUSC 263 Private Instruction: Woodwind (1)
- MUSC 264 Private Instruction: Percussion (1)
- MUSC 265 Private Instruction: Voice (1)
- MUSC 266 Private Instruction: Orchestral Strings (1)
- MUSC 267 Private Instruction: Keyboard (1)
- MUSC 268 Private Instruction: Plectrum Strings (1)
- MUSC 270 Brass Ensemble (1)
- MUSC 271 Woodwind Ensemble (1)
- MUSC 272 Percussion Ensemble (1)
- MUSC 273 String Ensemble (1)
- MUSC 274 Vocal Ensemble (1)

Social Sciences (15 Credits)

Courses require a 1.5 grade or higher. Select from at least **two** disciplines. No more than **ten** credits allowed from any **one** discipline. Minimum grade for required business major-related courses ECON& 201 and ECON& 202 is a 2.0 or higher.

- ECON& 201 Microeconomics (5) required
- ECON& 202 Macroeconomics (5) required
- ANTH& 100 Survey of Anthropology (5)
- ANTH& 104 World Prehistory (5)
- ANTH& 106 The 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& 236 Forensic Anthropology (5)
- ANTH 240 Women in Cross Cultural Perspectives (5)
- BUS& 101 Introduction to Business (5)
- CJ& 105 Corrections in America (5)
- CJ 112 Criminal Justice in America (5)
- CJ 202 Concepts of Criminal Law (5)
- ECED& 105 Introduction to Early Childhood Education (5)
- ECED 335 Law and Ethics (3)
- ECED& 355 Social and Political Context of Early Childhood Education (3)
- EDUC& 115 Child Development (5)
- GEOG 100 Introduction to Geography (5)
- GEOG 150 The Americas, Australia, Europe and New Zealand (5)
- GEOG 160 Africa, Middle East and Asia (5)
- GEOG 200 Human Geography (5)
- HIST& 126 World Civilizations I (5)
- HIST& 127 World Civilizations II (5)
- HIST& 128 World Civilizations III (5)
- HIST& 156 History of U. S. I (5)
- HIST& 157 History of U. S. II (5)
- HIST& 158 History of U.S. III (5)
- HIST& 159 History of U.S. IV (5)
- HIST 168 Vietnam War as History (5)
- HIST 175 A Brief History of Global Leadership (5)
- HIST& 214 Pacific Northwest History (5)
- HIST 260 History of Russia and the Soviet Union (5)
- HIST 265 History of Latin American Since 1810 (5)
- HIST 266 History of Europe Since 1870 (5)
- HIST 267 History of Africa Since 1800 (5)
- HIST 270 Introduction to the Far East (5)
- HIST 272 Survey of Middle East History (5)
- HIST 277 The Cold War (5)
- HIST 280 Introduction to Chinese Civilization (5)
- HIST 284 Introduction to the Balkans (5)
- HIST 287 History of Japan Since Antiquity (5)
- INTS 107 Introduction 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 in the Modern World (5)
- INTS 300 Social Studies for Teachers (5)
- POLS& 101 Introduction to 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 215 Group Experience (5)
- PSYC& 220 Abnormal Psychology (5)
- PSYC 230 Intro to Personality (5)
- SOC& 101 Introduction 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 235 Race and Ethnicity (5)

Natural Sciences (15-18 Credits)

Courses require a 1.5 grade or higher. Select from at least **two** disciplines. No more than **ten** credits allowed from any one discipline. Select at least **ten** credits in physical, biological and/or earth sciences. Must include at least **one** laboratory course indicated by an (L). MATH& 146 is required.

Students intending the manufacturing management major at WWU should consult WWU regarding the selection of natural science courses required for admission to the major.

- MATH& 146 Introduction to Statistics (5) required
- ANTH& 205 Biological Anthropology (5)
- (L) ANTH& 236 Forensic Anthropology (5)
- ASTR& 100 Survey of Astronomy (5)
- (L) ASTR& 101 Introduction to Astronomy (5)
- (L) ASTR 105 Survey of Astrobiology (5)
- (L) ASTR& 110 The Solar System (5)
- (L) ASTR& 115 Stars, Galaxies and the Cosmos (5)
- (L) ATMOS 101 Introduction to Weather (5)
- (L) BIOL& 100 Survey of Biology (5)
- (L) BIOL& 160 General Biology w/Lab (5)
- BIOL& 170 Human Biology: Anatomy & Physiology (5)
- (L) BIOL& 175 Human Biology w/Lab: Anatomy & Physiology (5)
- (L) BIOL& 211 Majors: Cellular (5)
- (L) BIOL& 212 Majors: Animals (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 with Lab (5)
- (L) CHEM& 121 Intro to Chemistry (5)

- ① CHEM& 131 Intro to Organic/Biochemistry (6)
- CHEM& 139 General Chemistry Prep (5)
- ① CHEM& 161 General Chemistry with Lab I (5)
- ① CHEM& 162 General Chemistry with Lab II (5)
- ① CHEM& 163 General Chemistry with Lab III (5)
- ① CHEM& 261 Organic Chemistry with Lab I (6)
- ① CHEM& 262 Organic Chemistry with Lab II (6)
- ① CHEM& 263 Organic Chemistry with Lab III (6)
- ENGR 101 Introduction to Engineering (5)
- ENV&S 100 Survey of Environmental Science (5)
- ENV&S 150 Environmental Issues (5)
- ① ENV&S 155 Applied Environmental Methods (5)
- GEOG 205 Physical Geography (5)
- ① GEOG 210 Physical Geography (5)
- ① GEOL& 101 Introduction to Physical Geology (5)
- ① GEOL& 103 Historical Geology (5)
- ① GEOL 107 Exploring Earth Science (5)
- ① GEOL& 110 Environmental Geology (5)
- ① GEOL& 115 Geology of National Parks (5)
- ① GEOL& 120 Volcanoes (5)
- ① GEOL 283 Regional Geology (5)
- ① NSCI 150 Nature (5)
- ① NSCI 160 Environmental Biology (5)
- ① NSCI 300 Inquiry Based Science for Teachers (5)
- NUTR& 101 Nutrition (5)
- ① OCEA& 101 Introduction to Oceanography (5)
- ① OCEA 170 Marine Biology (5)
- PHIL& 120 Symbolic Logic (5)
- ① PHYS& 110 Physics for Non-Science Majors (5)
- ① PHYS& 114 General Physics I (5)
- ① PHYS& 115 General Physics II (5)
- ① PHYS& 116 General Physics III (5)
- ① PHYS& 221 Engineering Physics I (6)
- ① PHYS& 222 Engineering Physics II (6)
- ① PHYS& 223 Engineering Physics III (6)
- ① PS 101 Introduction to Physical Science (5)

Business/Specific Course/GTE (20 Credits)

Minimum grade for business major-related courses is a grade of 2.0 or higher.

Universities with a lower division Business Law requirement: UW (all campuses), WSU (all campuses), EWU, CWU, WWU, Gonzaga, SMU, SPU and Whitworth. The following institutions do not require a lower division elective, but generally not as an equivalent to the course required at the upper division: Heritage, PLU, SU, and Walla Walla University.

International students who completed a business law course specific to their home country must take a business law course at a U.S. institution in order to demonstrate proficiency in U.S. business law.

- ACCT& 201 Principles of Accounting I (5) required
- ACCT& 202 Principles of Accounting II (5) required
- ACCT& 203 Principles of Accounting III (5) required
- BUS& 201 Business Law (5) required

General Electives (5 Credits)

Maximum of **five** credits of courses numbered 100 and above may be applied to this requirement. See notes below or check four-year information for appropriate elective course needed — e.g., a world language or computer course requirement. A maximum of three physical activity (PE) credits can be applied to this degree.

Four institutions have requirements for admission to the major that go beyond those specified above. Students can meet these requirements by careful selection of the elective university course equivalent to UW (all campuses): Management Information Systems - MIS 250, Gonzaga: Management Information Systems - BMIS 235, PLU: Computer Applications - CSCE 120, either an equivalent course or skills test, SPU: Spreadsheet - BUS 1700 or equivalent course skills test.

- COLLG 110 College Success (3) required with a 2.0 or higher grade

Total Credits Required 90-93

- Minimum grade-point average requirements are established by each institution. Meeting the minimum requirements does not guarantee admission. Business programs are competitive and may require a higher GPA overall, a higher GPA in a selected subset of courses or a specific grade in one or more courses.
- Students who enrolled prior to Fall 2012 have a two-year grace period to transfer.
- Other college-level courses, of which a maximum of 15 credits 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. Where appropriate, preparation courses for the major should be included in this course work.

Program Code: ASBT

Professional/Technical

Business Associate

General Requirements (13 Credits)

- COLLG 110 College Success (3)

Select one:

- BTECA 115 Business English I (5) * †
- ENGL& 101 English Composition I (5) * †

Select one:

- BTECA 117 Business Mathematics (5) * †
- MATH& 146 Introduction to Statistics (5) * †

Business Requirements (63 Credits)

- BUS 240 Human Relations in the Workplace (5) *
- MNGT 130 Customer Relationship Management (5)
- MNGT 182 Creative Sales (5)
- MNGT 186 Professional Development (5)
- MNGT 187 Career Communication Skills (5)
- MNGT 198 Work-Based Learning (3)
- MNGT 276 Employment Law: Human Resource Legal Issues (5)
- MNGT 283 Principles of Management (5)
- MNGT 284 Small Business Planning (5)
- MNGT 295 Human Resource Management (5)

Select one:

- BUS 135 Introduction to Online Marketing (5)
- MNGT 282 Principles of Marketing (5)

Select one:

- MNGT 194 Principles of Leadership (5)
and
- MNGT 296 Current Trends in Human Resources (5)
or
- BUS 260 Project Management I: Planning (5)
and
- BUS 261 Project Management II: Managing (5)
or
- MNGT 275 Introduction to Visual Promotion (5)
and
- MNGT 293 Retailing and Merchandising (5)

Technology (5 Credits)

- CIS 130 Productivity Software (5)

or select 5 credits from the following:

- BTECA 121 Microsoft Excel: Prepare Format Basic Worksheets (1)
- BTECA 122 Microsoft Excel: Insert Formulas and Enhancements (1)
- BTECA 123 Microsoft Excel: Create Charts and Diagrams (1)
- BTECA 140 Microsoft Access: Create and Modify a Database (1)
- BTECA 141 Microsoft Access: Create and Queries and Forms (1)
- BTECA 142 Microsoft Access: Create Reports, Charts and Web Pages (1)

Economics (5-10 Credits)

Select one:

- ECON 110 Survey of Economics (5)
or
- ECON& 201 Microeconomics (5)
and
- ECON& 202 Macroeconomics (5)

Accounting (10-20 Credits)

Select one:

- ACCT 101 Survey of Accounting (5)
or
- ACCT& 201 Principles of Accounting I (5)
and
- ACCT& 202 Principles of Accounting II (5)
and
- ACCT& 203 Principles of Accounting III (5)

Total Credits Required 96-111

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

†Prerequisite required.

Program code: 502A

Last revision: 2017-18

Business Certificate

Course Requirements (53 Credits)

- COLLG 110 College Success (3)
- ACCT& 201 Principles of Accounting I (5) †
- ACCT& 202 Principles of Accounting II (5) †
- BUS& 101 Introduction to Business (5)
- CIS 121 Introduction to Computer Information Systems (5) †
- ECON& 201 Microeconomics (5) †
- ECON& 202 Macroeconomics (5) †
- ENGL& 101 English Composition I (5) * †
- MATH& 146 Introduction to Statistics (5) * †

Select one:

- BUS& 201 Business Law (5)
- POLS& 200 Introduction to Law (5)

Select one:

- BUS 240 Human Relations in the Workplace (5) *
- PSYC& 100 General Psychology (5) *

Total Credits Required 53

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

†Prerequisite required.

Program code: 502C

Last revision: 2017-18

Customer Service Certificate

Course Requirements (48 Credits)

- BUS 240 Human Relations in the Workplace (5) *
- COLLG 110 College Success (3)
- CIS 130 Productivity Software (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 Principles of Marketing (5)

Select one:

- BTECA 115 Business English I (5) * †
- ENGL& 101 English Composition I (5) * †

Select one:

- BTECA 117 Business Mathematics (5)
- MATH& 146 Introduction to Statistics (5)

Total Credits Required 48

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

Last revision: 2017-18

Program code: 245C

Entrepreneurship Certificate

Course Requirements (53 Credits)

- ACCT 275 Payroll and Business Taxes (5)
- COLLG 110 College Success (3)
- CIS 130 Productivity Software (5)
- MNGT 130 Customer Relationship Management (5) *
- MNGT 182 Creative Sales (5)
- MNGT 282 Principles of Marketing (5)
- MNGT 284 Small Business Planning (5)

- MNGT 295 Human Resource Management (5)

Select one:

- ACCT 101 Survey of Accounting (5)
- ACCT& 201 Principles of Accounting I (5)

Select one:

- BTECA 115 Business English I (5) * †
- ENGL& 101 English Composition I (5) * †

Select one:

- BTECA 117 Business Mathematics (5) * †
- MATH& 146 Introduction to Statistics (5) * †

Total Credits Required 53

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

†Prerequisite required.

Program code: 257

Last revision: 2017-18

Fashion Merchandising Certificate

Course Requirements (58 Credits)

- CIS 130 Productivity Software (5)
- COLLG 110 College Success (3)
- FASH 160 Introduction to Fashion Merchandising (5)
- FASH 162 Fashion Design and Clothing Construction Analysis (5)
- FASH 163 Consumer Textiles (5)
- MNGT 182 Creative Sales (5)
- MNGT 186 Professional Development (5)
- MNGT 275 Introduction to Visual Promotion (5)

- MNGT 293 Retailing and Merchandising (5)

Select one:

- ACCT 101 Survey of Accounting (5)
- ACCT& 201 Principles of Accounting I (5)

Select one:

- BTECA 115 Business English I (5) * †
- ENGL& 101 English Composition I (5) * †

Select one:

- BTECA 117 Business Mathematics (5) * †
- MATH& 146 Introduction to Statistics (5)

Total Credits Required 58

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

†Prerequisite required.

Last revision: 2017-18

Program code: 210C

Human Resource Management Certificate

Course Requirements (58 Credits)

- ACCT 275 Payroll and Business Taxes (5) †
- BUS 240 Human Relations in the Workplace (5) *
- CIS 130 Productivity Software (5)
- COLLG 110 College Success (3)
- MNGT 276 Employment Law: Human Resource Legal Issues (5)
- MNGT 283 Principles of Management (5)
- MNGT 284 Small Business Planning (5)
- MNGT 295 Human Resource Management (5)

- MNGT 296 Current Trends in Human Resources (5) †

Select one:

- ACCT 101 Survey of Accounting (5) †
- ACCT& 201 Principles of Accounting I (5)

Select one:

- BTECA 115 Business English I (5) * †
- ENGL& 101 English Composition I (5) * †

Select one:

- BTECA 117 Business Mathematics (5) * †
- MATH& 146 Introduction to Statistics (5)

Total Credits Required 58

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

†Prerequisite required.

Program code: 545C

Last revision: 2017-18

Marketing Certificate

Course Requirements (48 Credits)

In addition to the requirements listed below, students are encouraged to take ACCT 101.

- BUS 135 Introduction to Online Marketing (5)
- CIS 130 Productivity Software (5)
- COLLG 110 College Success (3)
- MNGT 130 Customer Relationship Management (5) *
- MNGT 182 Creative Sales (5)
- MNGT 275 Introduction to Visual Promotion (5)
- MNGT 282 Principles of Marketing (5)

- MNGT 293 Retailing and Merchandising (5)

Select one:

- BTECA 115 Business English I (5) * †
- ENGL& 101 English Composition I (5) * †

Select one:

- BTECA 117 Business Mathematics (5)
- MATH& 146 Introduction to Statistics (5)

Total Credits Required 48

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

† Prerequisite required.

Program code: 245B

Last revision: 2017-18

Retail Management Certificate

Course Requirements (53 Credits)

In addition to the requirements listed below, students are encouraged to take ACCT 101.

- CIS 130 Productivity Software (5)
- COLLG 110 College Success (3)
- MNGT 130 Customer Relationship Management (5) *
- MNGT 182 Creative Sales (5)
- MNGT 275 Introduction to Visual Promotion (5)
- MNGT 282 Principles of Marketing (5)
- MNGT 284 Small Business Planning (5)
- MNGT 293 Retailing and Merchandising (5)

Select one:

- BUS 240 Human Relations in the Workplace (5) *

- MNGT 186 Professional Development (5)

Select one:

- BTECA 115 Business English I (5) * †
- ENGL& 101 English Composition I (5) * †

Select one:

- BTECA 117 Business Mathematics (5) * †
- MATH& 146 Introduction to Statistics (5)

Total Credits Required 53

* Meets related instruction requirements for professional/technical programs.

† Prerequisite required.

Program code: 251

Last revision: 2017-18

Sales Certificate

Course Requirements (43 Credits)

In addition to the requirements listed below, students are encouraged to take ACCT 101.

- CIS 130 Productivity Software (5)
- COLLG 110 College Success (3)
- MNGT 130 Customer Relationship Management (5)
- MNGT 182 Creative Sales (5)
- MNGT 186 Professional Development (5)
- MNGT 282 Principles of Marketing (5)
- MNGT 284 Small Business Planning (5)

Select one:

- BTECA 117 Business Mathematics (5) * †
- MATH& 146 Introduction to Statistics (5)

Select one:

- BTECA 115 Business English I (5) * †
- ENGL& 101 English Composition I (5) * †

Total Credits Required 43

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

† Prerequisite required.

Program code: 252

Last revision: 2017-18

Social Media Marketing Certificate

Course Requirements (39 Credits)

- BUS 134 Introduction to Social Media (5)
- BUS 135 Introduction to Online Marketing (5)
- COLLG 110 College Success (3)
- MNGT 136 Online Selling and Web Usability (5)
- MNGT 137 Independent Contracting (3)
- MNGT 138 Information Design for Business (5)
- MNGT 139 Social Media Digital Content for Business (5)
- MNGT 141 Professional Portfolio (3)
- MNGT 282 Principles of Marketing (5)

Total Credits Required 39

Program code: 245S

Last revision: 2017-18

Supervision and Management Certificate

Course Requirements (53 Credits)

- CIS 130 Productivity Software (5)
- BUS 240 Human Relations in the Workplace (5) *
- COLLG 110 College Success (3)
- MNGT 186 Professional Development (5)
- MNGT 194 Principles of Leadership (5)
- MNGT 276 Employment Law: Human Resource Legal Issues (5)
- MNGT 283 Principles of Management (5)
- MNGT 295 Human Resource Management (5)

Select one:

- ACCT 101 Survey of Accounting (5)
- ACCT& 201 Principles of Accounting I (5)

Select one:

- BTECA 115 Business English I (5) * †
- ENGL& 101 English Composition I (5) * †

Select one:

- BTECA 117 Business Mathematics (5) * †
- MATH& 146 Introduction to Statistics (5)

Total Credits Required 53

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

† Prerequisite required.

Program code: 245A

Last revision: 2017-18

Business Information Technology

Faculty: Luann Wolden (FS); Tiffanie Maule (PY)

Get the computer and business skills you need to secure a high-paying, stable career in the medical or general office fields. Pierce College's Business Information Technology program offers two-year associate degrees, as well as one-year certificates.

Financial aid and scholarships are frequently available to students who qualify. In addition, special funding may be available for unemployed workers or low-wage working parents.

Professional/technical program competencies can be found on the Pierce College website at www.pierce.ctc.edu/business-btech-outcomes.

Professional/Technical

Administrative Assistant Medical Office 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.

BTECA/BTECM Requirements (60-61 Credits)

- COLLG 110 College Success (3)
- BTECA 102 Keyboard Skill Development: Alpha and Technical Improvement (1)
- BTECA 103 Keyboard Skill Development: Alphanumeric and Technical Improvement (1)
- BTECA 104 Keyboard Skill Development: Alphanumeric Improvement (1)
- BTECA 105 Keyboard Skill Development: Further Alphanumeric Improvement (1)
- BTECA 136 Ten-Key Mastery (1)
- BTECA 145 Records and Database Management (5)
- BTECA 160 Business Document Formatting: Basic (1)
- BTECA 161 Business Document Formatting: Advanced (1)
- BTECA 245 Cooperative Work Experience I (3)
- BTECA 246 Cooperative Work Experience II (3)
- BTECM 149 Introduction to the Medical Office (5)
- BTECM 150 Medical Terminology I (5)
- BTECM 151 Medical Terminology II (5)
- BTECM 250 Medical Forms and Referral Management (5)
- BTECM 257 Electronic Health Records (5)

Select both:

- BTECA 248 Business Information Technology Seminar I (2)
- BTECA 249 Business Information Technology Seminar II (2)

or select:

- MNGT 186 Professional Development (5)

Select 10 credits from the following:

- BTECA 109 Introduction to Windows (3)
- BTECA 110 Microsoft Word: Prepare and Edit Documents (1)
- BTECA 111 Microsoft Word: Enhance and Customize Documents (1)
- BTECA 112 Microsoft Word: Create Tables and Merge Documents (1)
- BTECA 121 Microsoft Excel: Prepare Format Basic Worksheets (1)
- BTECA 122 Microsoft Excel: Insert Formulas and Enhancements (1)
- BTECA 123 Microsoft Excel: Create Charts and Diagrams (1)
- BTECA 130 Microsoft PowerPoint: Create and Modify a Powerpoint Presentation (1)
- BTECA 131 Microsoft PowerPoint: Format and Add Visual Element (1)
- BTECA 132 Microsoft PowerPoint: Customize and Share a Presentation (1)
- BTECA 140 Microsoft Access: Create and Modify a Database (1)
- BTECA 141 Microsoft Access: Create and Queries and Forms (1)
- BTECA 142 Microsoft Access: Create Reports, Charts and Web Pages (1)
- BTECA 150 Microsoft Outlook: Using E-Mail and the Calendar (1)
- BTECA 151 Microsoft Outlook: Managing Tasks, Contacts and Inbox (1)
- BTECA 152 Microsoft Outlook: Customizing and Integrating Outlook (1)

General Requirements (33 Credits)

- BTECA 115 Business English I (5) *
- BTECA 116 Business English II (3) *
- BTECA 117 Business Mathematics (5) *
- BUS 240 Human Relations in the Workplace (5) *
- BTECA 250 Business Communications (5) *
- MNGT 130 Customer Relationship Management (5) *

Select one:

- BIOL& 170 Human Biology: Anatomy & Physiology (5)
- BIOL& 175 Human Biology w/Lab: Anatomy & Physiology (5)

Total Credits Required 93-95

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

Program code: 565

Last revision: 2017-18

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.

BTECA Requirements (48-49 Credits)

- ACCT 101 Survey of Accounting (5)
- COLLG 110 College Success (3)
- BTECA 102 Keyboard Skill Development: Alpha and Technical Improvement (1)
- BTECA 103 Keyboard Skill Development: Alphanumeric and Technical Improvement (1)
- BTECA 104 Keyboard Skill Development: Alphanumeric Improvement (1)
- BTECA 105 Keyboard Skill Development: Further Alphanumeric Improvement (1)
- BTECA 136 Ten-Key Mastery (1)
- BTECA 145 Records and Database Management (5)
- BTECA 160 Business Document Formatting: Basic (1)
- BTECA 161 Business Document Formatting: Advanced (1)
- BTECA 205 Office Procedures (3)
- BTECA 245 Cooperative Work Experience I (3)
- BTECA 246 Cooperative Work Experience II (3)

Select both:

- BTECA 248 Business Information Technology Seminar I (2)
- BTECA 249 Business Information Technology Seminar II (2)

or select:

- MNGT 186 Professional Development (5)

Select 15 credits from the following:

- BTECA 109 Introduction to Windows (3)
- BTECA 110 Microsoft Word: Prepare and Edit Documents (1)
- BTECA 111 Microsoft Word: Enhance and Customize Documents (1)

- BTECA 112 Microsoft Word: Create Tables and Merge Documents (1)
- BTECA 121 Microsoft Excel: Prepare Format Basic Worksheets (1)
- BTECA 122 Microsoft Excel: Insert Formulas and Enhancements (1)
- BTECA 123 Microsoft Excel: Create Charts and Diagrams (1)
- BTECA 130 Microsoft PowerPoint: Create and Modify a Powerpoint Presentation (1)
- BTECA 131 Microsoft PowerPoint: Format and Add Visual Element (1)
- BTECA 132 Microsoft PowerPoint: Customize and Share a Presentation (1)
- BTECA 140 Microsoft Access: Create and Modify a Database (1)
- BTECA 141 Microsoft Access: Create and Queries and Forms (1)
- BTECA 142 Microsoft Access: Create Reports, Charts and Web Pages (1)
- BTECA 150 Microsoft Outlook: Using E-Mail and the Calendar (1)
- BTECA 151 Microsoft Outlook: Managing Tasks, Contacts and Inbox (1)
- BTECA 152 Microsoft Outlook: Customizing and Integrating Outlook (1)

General Requirements (43 Credits)

- BUS& 101 Introduction to Business (5)
- BTECA 115 Business English I (5) *
- BTECA 116 Business English II (3) *
- BTECA 117 Business Mathematics (5) *
- BUS 135 Introduction to Online Marketing (5)
- BUS& 201 Business Law (5)
- BUS 240 Human Relations in the Workplace (5) *
- BTECA 250 Business Communications (5)
- MNGT 130 Customer Relationship Management (5) *

Total Credits Required 91-93

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

Program code: 547A

Last revision: 2017-18

Integrated Business Technology Certificate

The Certificate in Integrated Business Technology is part of the Integrated Basic Education and Skills Training (I-BEST) program. Students who successfully complete this certificate can continue on a longer pathway with all credits leading to completion of an associate degree in Business Administration.

Pierce College Integrated Basic Education and Skills Training (I-BEST) is open to all Pierce College Adult Diploma (PCAD), Adult Basic Education (ABE), General Education Development (GED), English as a Second Language (ESL), and pre-college

level adult learners. I-BEST programs provide high 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, Business Information 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 highdemand 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

BTECA Requirements (24 Credits)

- COLLG 110 College Success (3)
- BTECA 100 Business Keyboarding: Key the Alphabet by Touch (1)
- BTECA 101 Business Keyboarding: Key Numbers and Symbols by Touch (1)
- BTECA 109 Introduction to Windows (3)
- BTECA 110 Microsoft Word: Prepare and Edit Documents (1)
- BTECA 121 Microsoft Excel: Prepare Format Basic Worksheets (1)
- BTECA 130 Microsoft PowerPoint: Create and Modify a Powerpoint Presentation (1)
- BTECA 136 Ten-Key Mastery (1)
- BTECA 145 Records and Database Management (5)
- BTECA 150 Microsoft Outlook: Using E-Mail and the Calendar (1)
- BTECA 160 Business Document Formatting: Basic (1)
- BTECA 205 Office Procedures (3)
- BTECA 248 Business Information Technology Seminar I (2)

Total Credits Required 24

Program code: 559C

Last revision: 2016-17

International Business Associate

In seaport regions, there is a heavy dependence on international trade. Assistants in this field develop cultural understanding with required skills in a foreign language, anthropology and international business communication. Students develop computer skills including word processing, spreadsheets and databases.

BTECA Requirements (45-46 Credits)

- ACCT 101 Survey of Accounting (5)

- COLLG 110 College Success (3)
- BTECA 102 Keyboard Skill Development: Alpha and Technical Improvement (1)
- BTECA 103 Keyboard Skill Development: Alphanumeric and Technical Improvement (1)
- BTECA 104 Keyboard Skill Development: Alphanumeric Improvement (1)
- BTECA 105 Keyboard Skill Development: Further Alphanumeric Improvement (1)
- BTECA 136 Ten-Key Mastery (1)
- BTECA 145 Records and Database Management (5)
- BTECA 160 Business Document Formatting: Basic (1)
- BTECA 161 Business Document Formatting: Advanced (1)
- BTECA 245 Cooperative Work Experience I (3)
- BTECA 246 Cooperative Work Experience II (3)

Select both:

- BTECA 248 Business Information Technology Seminar I (2)
- BTECA 249 Business Information Technology Seminar II (2)

or select:

- MNGT 186 Professional Development (5)

Select 15 credits from the following:

- BTECA 109 Introduction to Windows (3)
- BTECA 110 Microsoft Word: Prepare and Edit Documents (1)
- BTECA 111 Microsoft Word: Enhance and Customize Documents (1)
- BTECA 112 Microsoft Word: Create Tables and Merge Documents (1)
- BTECA 121 Microsoft Excel: Prepare Format Basic Worksheets (1)
- BTECA 122 Microsoft Excel: Insert Formulas and Enhancements (1)
- BTECA 123 Microsoft Excel: Create Charts and Diagrams (1)
- BTECA 130 Microsoft PowerPoint: Create and Modify a Powerpoint Presentation (1)
- BTECA 131 Microsoft PowerPoint: Format and Add Visual Element (1)
- BTECA 132 Microsoft PowerPoint: Customize and Share a Presentation (1)
- BTECA 140 Microsoft Access: Create and Modify a Database (1)
- BTECA 141 Microsoft Access: Create and Queries and Forms (1)
- BTECA 142 Microsoft Access: Create Reports, Charts and Web Pages (1)
- BTECA 150 Microsoft Outlook: Using E-Mail and the Calendar (1)
- BTECA 151 Microsoft Outlook: Managing Tasks, Contacts and Inbox (1)
- BTECA 152 Microsoft Outlook: Customizing and Integrating Outlook (1)

General Requirements (48 Credits)

- Foreign Language (same language) (15)

- BTECA 115 Business English I (5) *
- BTECA 116 Business English II (3) *
- BTECA 117 Business Mathematics (5) *
- BTECA 250 Business Communications (5)
- MNGT 130 Customer Relationship Management (5) *

Select one:

- ANTH& 106 The American Mosaic (5)
- ANTH& 206 Cultural Anthropology (5)

Select one:

- GEOG 100 Introduction to Geography (5)
- GEOG 200 Human Geography (5)

Total Credits Required 93-94

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

Program code: 551

Last revision: 2016-17

Medical Billing and Coding Associate

For students wishing to complete an Associate degree, the Medical Billing and Coding Associate prepares students for employment as medical billers, patient account representatives, medical claims reviewers, medical office administrators, and other medical support positions. 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. Students are also prepared to sit for national certification upon completion of this degree. As this degree prepares students to return to the workforce, students who intend to transfer to a four-year institution should work closely with an advisor and complete AA-DTA requirements.

BTECA/BTECM Requirements (57 Credits)

- COLLG 110 College Success (3)
- BTECA 102 Keyboard Skill Development: Alpha and Technical Improvement (1)
- BTECA 103 Keyboard Skill Development: Alphanumeric and Technical Improvement (1)
- BTECA 136 Ten-Key Mastery (1)
- BTECA 145 Records and Database Management (5)
- BTECM 149 Introduction to the Medical Office (5)

- BTECM 150 Medical Terminology I (5)
- BTECM 151 Medical Terminology II (5)
- BTECA 245 Cooperative Work Experience I (3)
- BTECA 246 Cooperative Work Experience II (3)
- BTECM 250 Medical Forms and Referral Management (5)
- BTECM 254 CPT Coding (5)
- BTECM 256 Advanced Billing and Coding (5)
- BTECM 255 Diagnosis Coding (5)
- BTECM 257 Electronic Health Records (5)

Select 10 credits from the following:

- BTECA 109 Introduction to Windows (3)
- BTECA 110 Microsoft Word: Prepare and Edit Documents (1)
- BTECA 111 Microsoft Word: Enhance and Customize Documents (1)
- BTECA 112 Microsoft Word: Create Tables and Merge Documents (1)
- BTECA 121 Microsoft Excel: Prepare Format Basic Worksheets (1)
- BTECA 122 Microsoft Excel: Insert Formulas and Enhancements (1)
- BTECA 123 Microsoft Excel: Create Charts and Diagrams (1)
- BTECA 130 Microsoft PowerPoint: Create and Modify a Powerpoint Presentation (1)
- BTECA 131 Microsoft PowerPoint: Format and Add Visual Element (1)
- BTECA 132 Microsoft PowerPoint: Customize and Share a Presentation (1)
- BTECA 140 Microsoft Access: Create and Modify a Database (1)
- BTECA 141 Microsoft Access: Create and Queries and Forms (1)
- BTECA 142 Microsoft Access: Create Reports, Charts and Web Pages (1)
- BTECA 150 Microsoft Outlook: Using E-Mail and the Calendar (1)
- BTECA 151 Microsoft Outlook: Managing Tasks, Contacts and Inbox (1)
- BTECA 152 Microsoft Outlook: Customizing and Integrating Outlook (1)

General Requirements (28 Credits)

- BTECA 115 Business English I (5) *
- BTECA 116 Business English II (3) *
- BTECA 117 Business Mathematics (5) *
- MNGT 130 Customer Relationship Management (5) *
- MNGT 186 Professional Development (5)

Select one:

- BIOL& 170 Human Biology: Anatomy & Physiology (5)
- BIOL& 175 Human Biology w/Lab: Anatomy & Physiology (5)

Total Credits Required 95

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

Program code: 565A

Last revision: 2017-18

Medical Billing and Coding Certificate

Students in the program learn diagnosis and procedural coding and prepare for employment as medical billers, patient account representatives, medical claims reviewers, and a variety of other medical support positions. 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 or Medical Billing and Coding Associate degrees. Students who intend to transfer to a four-year institution should work closely with an advisor and complete AA-DTA requirements.

BTECA/BTECM Requirements (56 Credits)

- COLLG 110 College Success (3)
- BTECA 102 Keyboard Skill Development: Alpha and Technical Improvement (1)
- BTECA 103 Keyboard Skill Development: Alphanumeric and Technical Improvement (1)
- BTECA 104 Keyboard Skill Development: Alphanumeric Improvement (1)
- BTECA 105 Keyboard Skill Development: Further Alphanumeric Improvement (1)
- BTECA 136 Ten-Key Mastery (1)
- BTECA 145 Records and Database Management (5)
- BTECM 149 Introduction to the Medical Office (5)
- BTECM 150 Medical Terminology I (5)
- BTECM 151 Medical Terminology II (5)
- BTECA 245 Cooperative Work Experience I (3)
- BTECM 250 Medical Forms and Referral Management (5)
- BTECM 254 CPT Coding (5)
- BTECM 255 Diagnosis Coding (5)
- BTECM 257 Electronic Health Records (5)

Select 5 credits from the following:

- BTECA 109 Introduction to Windows (3)
- BTECA 110 Microsoft Word: Prepare and Edit Documents (1)
- BTECA 111 Microsoft Word: Enhance and Customize Documents (1)
- BTECA 112 Microsoft Word: Create Tables and Merge Documents (1)
- BTECA 121 Microsoft Excel: Prepare Format Basic Worksheets (1)
- BTECA 122 Microsoft Excel: Insert Formulas and Enhancements (1)
- BTECA 123 Microsoft Excel: Create Charts and Diagrams (1)

- BTECA 130 Microsoft PowerPoint: Create and Modify a Powerpoint Presentation (1)
- BTECA 131 Microsoft PowerPoint: Format and Add Visual Element (1)
- BTECA 132 Microsoft PowerPoint: Customize and Share a Presentation (1)
- BTECA 140 Microsoft Access: Create and Modify a Database (1)
- BTECA 141 Microsoft Access: Create and Queries and Forms (1)
- BTECA 142 Microsoft Access: Create Reports, Charts and Web Pages (1)
- BTECA 150 Microsoft Outlook: Using E-Mail and the Calendar (1)
- BTECA 151 Microsoft Outlook: Managing Tasks, Contacts and Inbox (1)
- BTECA 152 Microsoft Outlook: Customizing and Integrating Outlook (1)

General Requirements (15 Credits)

- BTECA 115 Business English I (5) *
- BTECA 117 Business Mathematics (5) *

Select one:

- BIOL& 170 Human Biology: Anatomy & Physiology (5)
- BIOL& 175 Human Biology w/Lab: Anatomy & Physiology (5)

Total Credits Required 73

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

Program Code: 565B

Last revision: 2017-18

Medical Office Assistant 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 (50-51 Credits)

- COLLG 110 College Success (3)
- BTECA 102 Keyboard Skill Development: Alpha and Technical Improvement (1)
- BTECA 103 Keyboard Skill Development: Alphanumeric and Technical Improvement (1)

- BTECA 104 Keyboard Skill Development: Alphanumeric Improvement (1)
- BTECA 105 Keyboard Skill Development: Further Alphanumeric Improvement (1)
- BTECA 136 Ten-Key Mastery (1)
- BTECA 145 Records and Database Management (5)
- BTECM 149 Introduction to the Medical Office (5)
- BTECM 150 Medical Terminology I (5)
- BTECA 245 Cooperative Work Experience I (3)
- BTECM 250 Medical Forms and Referral Management (5)
- BTECM 257 Electronic Health Records (5)

Select both:

- BTECA 248 Business Information Technology Seminar I (2)
- BTECA 249 Business Information Technology Seminar II (2)

or select:

- MNGT 186 Professional Development (5)

Select 10 credits from the following:

- BTECA 110 Microsoft Word: Prepare and Edit Documents (1)
- BTECA 111 Microsoft Word: Enhance and Customize Documents (1)
- BTECA 112 Microsoft Word: Create Tables and Merge Documents (1)
- BTECA 121 Microsoft Excel: Prepare Format Basic Worksheets (1)
- BTECA 122 Microsoft Excel: Insert Formulas and Enhancements (1)
- BTECA 123 Microsoft Excel: Create Charts and Diagrams (1)
- BTECA 140 Microsoft Access: Create and Modify a Database (1)
- BTECA 141 Microsoft Access: Create and Queries and Forms (1)
- BTECA 142 Microsoft Access: Create Reports, Charts and Web Pages (1)
- BTECA 130 Microsoft PowerPoint: Create and Modify a Powerpoint Presentation (1)
- BTECA 131 Microsoft PowerPoint: Format and Add Visual Element (1)
- BTECA 132 Microsoft PowerPoint: Customize and Share a Presentation (1)
- BTECA 150 Microsoft Outlook: Using E-Mail and the Calendar (1)
- BTECA 151 Microsoft Outlook: Managing Tasks, Contacts and Inbox (1)
- BTECA 152 Microsoft Outlook: Customizing and Integrating Outlook (1)

General Requirements (23 Credits)

- BTECA 115 Business English I (5) *
- BTECA 116 Business English II (3) *
- BTECA 117 Business Mathematics (5) *
- BUS 240 Human Relations in the Workplace (5) *

- MNGT 130 Customer Relationship Management (5) *

Total Credits Required 73-74

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

Program code: 312C

Last revision: 2017-18

Office Assistant 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.

BTECA Requirements (29-30 Credits)

- COLLG 110 College Success (3)
- BTECA 102 Keyboard Skill Development: Alpha and Technical Improvement (1)
- BTECA 103 Keyboard Skill Development: Alphanumeric and Technical Improvement (1)
- BTECA 104 Keyboard Skill Development: Alphanumeric Improvement (1)
- BTECA 105 Keyboard Skill Development: Further Alphanumeric Improvement (1)
- BTECA 136 Ten-Key Mastery (1)
- BTECA 145 Records and Database Management (5)
- BTECA 160 Business Document Formatting: Basic (1)
- BTECA 245 Cooperative Work Experience I (3)

Select both:

- BTECA 248 Business Information Technology Seminar I (2)
- BTECA 249 Business Information Technology Seminar II (2)

or select:

- MNGT 186 Professional Development (5)

Select 8 credits from the following:

- BTECA 109 Introduction to Windows (3)

- BTECA 110 Microsoft Word: Prepare and Edit Documents (1)
- BTECA 111 Microsoft Word: Enhance and Customize Documents (1)
- BTECA 112 Microsoft Word: Create Tables and Merge Documents (1)
- BTECA 121 Microsoft Excel: Prepare Format Basic Worksheets (1)
- BTECA 122 Microsoft Excel: Insert Formulas and Enhancements (1)
- BTECA 123 Microsoft Excel: Create Charts and Diagrams (1)
- BTECA 130 Microsoft PowerPoint: Create and Modify a Powerpoint Presentation (1)
- BTECA 131 Microsoft PowerPoint: Format and Add Visual Element (1)
- BTECA 132 Microsoft PowerPoint: Customize and Share a Presentation (1)
- BTECA 140 Microsoft Access: Create and Modify a Database (1)
- BTECA 141 Microsoft Access: Create and Queries and Forms (1)
- BTECA 142 Microsoft Access: Create Reports, Charts and Web Pages (1)
- BTECA 150 Microsoft Outlook: Using E-Mail and the Calendar (1)
- BTECA 151 Microsoft Outlook: Managing Tasks, Contacts and Inbox (1)
- BTECA 152 Microsoft Outlook: Customizing and Integrating Outlook (1)

General Requirements (23 Credits)

- BTECA 115 Business English I (5) *
- BTECA 116 Business English II (3) *
- BTECA 117 Business Mathematics (5) *
- BTECA 250 Business Communications (5) *
- MNGT 130 Customer Relationship Management (5) *

Total Credits Required 52-53

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

Program code: 559B

Last revision: 2016-17

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.

BTECA Requirements (48-49 Credits)

- ACCT 101 Survey of Accounting (5)
- COLLG 110 College Success (3)
- BTECA 102 Keyboard Skill Development: Alpha and Technical Improvement (1)
- BTECA 103 Keyboard Skill Development: Alphanumeric and Technical Improvement (1)
- BTECA 104 Keyboard Skill Development: Alphanumeric Improvement (1)
- BTECA 105 Keyboard Skill Development: Further Alphanumeric Improvement (1)
- BTECA 136 Ten-Key Mastery (1)
- BTECA 145 Records and Database Management (5)
- BTECA 160 Business Document Formatting: Basic (1)
- BTECA 161 Business Document Formatting: Advanced (1)
- BTECA 205 Office Procedures (3)
- BTECA 245 Cooperative Work Experience I (3)
- BTECA 246 Cooperative Work Experience II (3)

Select both:

- BTECA 248 Business Information Technology Seminar I (2)
- BTECA 249 Business Information Technology Seminar II (2)

or select:

- MNGT 186 Professional Development (5)

Select 15 credits from the following:

- BTECA 109 Introduction to Windows (3)
- BTECA 110 Microsoft Word: Prepare and Edit Documents (1)
- BTECA 111 Microsoft Word: Enhance and Customize Documents (1)
- BTECA 112 Microsoft Word: Create Tables and Merge Documents (1)
- BTECA 121 Microsoft Excel: Prepare Format Basic Worksheets (1)
- BTECA 122 Microsoft Excel: Insert Formulas and Enhancements (1)
- BTECA 123 Microsoft Excel: Create Charts and Diagrams (1)
- BTECA 130 Microsoft PowerPoint: Create and Modify a Powerpoint Presentation (1)
- BTECA 131 Microsoft PowerPoint: Format and Add Visual Element (1)
- BTECA 132 Microsoft PowerPoint: Customize and Share a Presentation (1)
- BTECA 140 Microsoft Access: Create and Modify a Database (1)
- BTECA 141 Microsoft Access: Create and Queries and Forms (1)
- BTECA 142 Microsoft Access: Create Reports, Charts and Web Pages (1)
- BTECA 150 Microsoft Outlook: Using E-Mail and the Calendar (1)
- BTECA 151 Microsoft Outlook: Managing Tasks, Contacts and Inbox (1)
- BTECA 152 Microsoft Outlook: Customizing and Integrating Outlook (1)

General Requirements (43 Credits)

- BTECA 115 Business English I (5) *
- BTECA 116 Business English II (3) *
- BTECA 117 Business Mathematics (5) *
- BUS& 201 Business Law (5)
- BUS 240 Human Relations in the Workplace (5) *
- BTECA 250 Business Communications (5)
- MNGT 130 Customer Relationship Management (5) *
- MNGT 283 Principles of Management (5)
- MNGT 295 Human Resource Management (5)

Total Credits Required 91-92

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

Program code: 559A

Last revision: 2016-17

Chemistry

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

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.

University Transfer

Chemistry Major

This planning sheet lists only the courses related to the chemistry major. Students planning to transfer as chemistry majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. Students could also follow the Associate of Science (AS-T) Degree Track 1 or the Associate of Arts - Option B. Chemistry majors should work closely with a faculty advisor to plan an overall program of study.

Chemistry Major

- CHEM& 161 General Chemistry with Lab I (5)
- CHEM& 162 General Chemistry with Lab II (5)
- CHEM& 163 General Chemistry with Lab III (5)
- CHEM& 261 Organic Chemistry with Lab I (6)
- CHEM& 262 Organic Chemistry with Lab II (6)
- CHEM& 263 Organic Chemistry with 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)

College Success

Faculty: Amber Baillon (PY), Irene Brewer (FS)

Offered through structured classes or arranged lab format, the College Success program offer students a flexible way to gain invaluable study skills in such topics as test and note-taking strategies, time management and career planning. Classes are offered both daytime and evening.

Communication/Theatre/Film

Faculty: Patrick Daugherty, Fred Metzger (FS); Nikki Poppen-Eagan, Joshua Potter (PY)

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 requirements of 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.

University Transfer

Communication/Theatre/Film Major

This planning sheet lists only the courses related to the communication/theatre/film major. Students planning to transfer as communication/theatre/film majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. Communication/theatre/film majors should work closely with a faculty advisor to plan an overall program of study.

Communication Major

- BUS& 101 Introduction to Business (5)
- CMST& 102 Introduction to Mass Media (5)
- CMST& 220 Public Speaking (5)
- DRMA 160 Introduction to Film and Video (5)
- DRMA 170 Technical Film and Theatre I (5)
- JOURN 102 Introduction to News Writing (5)

Geography one course (5 credits):

- GEOG 100 Introduction to Geography (5)
- GEOG 150 The Americas, Australia, Europe and New Zealand (5)
- GEOG 160 Africa, Middle East and Asia (5)
- GEOG 200 Human Geography (5)
- GEOG 205 Physical Geography (5)
- GEOG 207 Economic Geography (5)
- GEOG 210 Physical Geography (5)

Political Science one course (5 credits):

- POLS& 101 Introduction to 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)

Sociology one course (5 credits):

- SOC& 101 Introduction 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 235 Race and Ethnicity (5)

Rhetoric and Public Address Emphasis

- CMST& 101 Introduction to Communications (5)
- CMST& 220 Public Speaking (5)
- ENGL 107 Composition III: Writing About Literature (5)
- PSYC& 100 General Psychology (5)

Art one course (5 credits)

- ART& 100 Art Appreciation (5)
- ART 101 Design, Beginning (5)
- ART 102 Design, Intermediate (5)
- ART 105 Introduction to Art (5)
- ART 107 Photography, Beginning (5)
- ART 111 Drawing, Beginning (5)
- ART 112 Drawing, Intermediate (5)
- ART 113 Drawing, Advanced (5)
- ART 115 3-Dimensional Design (5)
- ART 145 History of Art - Contemporary (5)
- ART 150 Printmaking, Beginning (5)
- ART 201 Painting, Beginning (5)
- ART 202 Painting, Intermediate (5)
- ART 203 Painting, Advanced (5)
- ART 204 Watercolor, Beginning (5)
- ART 211 Beginning Sculpture (5)
- ART 215 Art for Teachers (5)
- ART 243 History of Art – Ancient World Through the Middle Ages (5)
- ART 244 History of Art – Renaissance Through Rococo (5)
- ART 245 History of Art – The Modern World (5)
- ART 260 Art in Motion: Real and Recorded (5)

English Literature one course (5 credits)

- 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 204 The Bible as Literature (5)
- ENGL 207 Native American Literature (5)
- ENGL 210 Introduction 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: Comedy, Humor and Satire (5)
- ENGL 266 Women Writers: Voices from the International Mosaic (5)

History one course (5 credits)

- HIST& 126 World Civilizations I (5)
- HIST& 127 World Civilizations II (5)
- HIST& 128 World Civilizations III (5)
- HIST& 156 History of U. S. I (5)
- HIST& 157 History of U. S. II (5)
- HIST& 158 History of U.S. III (5)
- HIST& 159 History of U.S. IV (5)
- HIST 168 Vietnam War as History (5)
- HIST 175 A Brief History of Global Leadership (5)
- HIST& 214 Pacific Northwest History (5)

Music one course (5 credits)

- MUSC 100 Introduction to Rock & Roll (5)
- MUSC 102 American Popular Music (5)
- MUSC 103 Introduction to Jazz (5)
- MUSC& 105 Music Appreciation (5)
- MUSC 106 World Music (5)
- MUSC& 141 Music Theory I (5)
- MUSC& 142 Music Theory II (5)
- MUSC& 143 Music Theory III (5)
- MUSC 205 Music for Teachers (5)
- MUSC& 241 Music Theory IV (5)
- MUSC& 242 Music Theory V (5)
- MUSC& 243 Music Theory VI (5)

Philosophy one course (5 credits)

- PHIL& 101 Introduction to Philosophy (5)
- PHIL 110 Introduction to Bioethics (5)
- PHIL& 115 Critical Thinking (5)
- PHIL 150 Introduction to Ethics (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)

Political Science one course (5 credits)

- POLS& 101 Introduction to 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)

Sociology one course (5 credits)

- SOC& 101 Introduction 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 235 Race and Ethnicity (5)

Interpersonal Communication Emphasis

- ANTH& 100 Survey of Anthropology (5)
- ANTH& 206 Cultural Anthropology (5)
- CMST& 101 Introduction to Communications (5)
- CMST 105 Intercultural Communication (5)
- CMST& 220 Public Speaking (5)
- CMST& 230 Small Group Communication (5)
- ECON 110 Survey of Economics (5)
- PSYC& 100 General Psychology (5)
- PSYC& 200 Lifespan Psychology (5)
- PSYC 201 Psychology of Personal Growth (5)
- SOC& 101 Introduction to Sociology (5)

Art or Music one course (5 credits)

- ART& 100 Art Appreciation (5)
- ART 101 Design, Beginning (5)
- ART 102 Design, Intermediate (5)
- ART 105 Introduction to Art (5)
- ART 107 Photography, Beginning (5)
- ART 111 Drawing, Beginning (5)

- ART 112 Drawing, Intermediate (5)
- ART 113 Drawing, Advanced (5)
- ART 115 3-Dimensional Design (5)
- ART 145 History of Art - Contemporary (5)
- ART 150 Printmaking, Beginning (5)
- ART 201 Painting, Beginning (5)
- ART 202 Painting, Intermediate (5)
- ART 203 Painting, Advanced (5)
- ART 204 Watercolor, Beginning (5)
- ART 211 Beginning Sculpture (5)
- ART 215 Art for Teachers (5)
- ART 243 History of Art – Ancient World Through the Middle Ages (5)
- ART 244 History of Art – Renaissance Through Rococo (5)
- ART 245 History of Art – The Modern World (5)
- ART 260 Art in Motion: Real and Recorded (5)
- MUSC 100 Introduction to Rock & Roll (5)
- MUSC 102 American Popular Music (5)
- MUSC 103 Introduction to Jazz (5)
- MUSC& 105 Music Appreciation (5)
- MUSC 106 World Music (5)
- MUSC& 141 Music Theory I (5)
- MUSC& 142 Music Theory II (5)
- MUSC& 143 Music Theory III (5)
- MUSC 205 Music for Teachers (5)
- MUSC& 241 Music Theory IV (5)
- MUSC& 242 Music Theory V (5)
- MUSC& 243 Music Theory VI (5)

Philosophy one course (5 credits)

- PHIL& 101 Introduction to Philosophy (5)
- PHIL 110 Introduction to Bioethics (5)
- PHIL& 115 Critical Thinking (5)
- PHIL 150 Introduction to Ethics (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)

Sociology one course (5 credits)

- SOC& 101 Introduction 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 235 Race and Ethnicity (5)

Computer Information Systems

Faculty: Sam Scott (FS); James Johnson (JBLM); Ciaran Bloomer, Donna Moran (PY)

The Computer Information Systems (CIS) department offers three distinct computer career programs – computer network engineering, health information technology, and database management and design. All three programs are offered at the Puyallup campus. Computer Network Engineering is also offered at Joint Base Lewis-McChord.

Professional/Technical

Application Development Certificate

Core Requirements

PREREQUISITES

Placement at college level reading, math, and English; AND keyboarding 35 wpm; AND CIS 121 ; AND CIS 122 , OR appropriate placement, certifications, prior learning assessments.

- COLLG 110 College Success (3)
- CIS 123 Introduction to Object Oriented Programming (OOP) (5)
- CIS 185 Intermediate Object Oriented Programming (OOP) (5)
- CIS 210 Business Analysis (5)
- CIS 215 Client-Side Web Development (5)
- CIS 216 Server-Side Web Development (5)
- CIS 260 Database Management Systems (5)
- CIS 261 Structured Query Language (5)
- CIS 269 Advanced SQL Programming and Tuning (5)

Total Credits Required 43

Individual courses may require additional pre-requisites. Please see program coordinator for educational plan and correct sequencing of courses.

NOTE: Due to the rapid changes in the IT industry, the Special Topics courses, CIS 155 and CNE 155, may be substituted as needed into the CIS or CNE degree programs, on the advice of the CIS/CNE faculty and program coordinator.

Program Code: 503C

Last revision: 2016-17

Business Analysis Certificate

PREREQUISITES

College level reading, mathematics and English; AND keyboarding 35 wpm; AND CIS 121 ; OR appropriate assessment, certifications, prior learning assessments.

Core Requirements (41 Credits)

- COLLG 110 College Success (3)
- BUS 240 Human Relations in the Workplace (5)
- CMST& 220 Public Speaking (5)
- CIS 122 Introduction to Computer Programming (5)
- CIS 136 Spreadsheet Applications (3)
- CIS 210 Business Analysis (5)
- CIS 260 Database Management Systems (5)
- CIS 280 Systems Analysis and Design (5)

Select one:

- CIS 265 Data Communications and Networks (5)
- CNE 241 CNA 1: Introduction to Networks (5)

Total Credits Required (41 Credits)

Individual courses may require additional pre-requisites. Please see program coordinator for educational plan and correct sequencing of courses.

NOTE: Due to the rapid changes in the IT industry, the Special Topics courses, CIS 155 and CNE 155 , may be substituted as needed into the CIS or CNE degree programs, on the advice of the CIS/CNE faculty and program coordinator.

Program Code: 529

Last revision: 2016-17

Computer Network Engineering Associate

The Computer Network Engineering (CNE) program, offered at Pierce College Puyallup and JBLM, 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.

Core Requirements (58 Credits)

- COLLG 110 College Success (3)
- CIS 121 Introduction to Computer Information Systems (5)
- CIS 122 Introduction to Computer Programming (5)
- CIS 134 Computer Operating Systems (5)
- CNE 231 Implementing Windows Client Operating Systems (5)
- CNE 232 Installing and Configuring Windows Server (5)
- CNE 235 Administering Windows Server (5)
- CNE 237 Configuring Advanced Windows Server Services (5)
- CNE 251 Unix Administration (5)
- CNE 254 Fundamentals of Network Security (5)
- CNE 270 Wireless Networking (5)
- CNE 290 Supervised Internship (5)

Related Instruction (25 Credits)

- BUS 240 Human Relations in the Workplace (5)
- ENGL& 101 English Composition I (5)
- ENGL& 235 Technical Writing (5)
- MATH& 107 Math in Society (5)

Select one:

- CMST& 101 Introduction to Communications (5)
- CMST& 220 Public Speaking (5)

Choose one of the following tracks:

Windows MCSA/MCSE Track at Pierce College at JBLM (25 Credits)

- CIS 265 Data Communications and Networks (5)
- CNE 238 Designing Security for a Windows Network (5)
- CNE 240 Computer Hardware Troubleshooting (5)
- CNE 246 Designing and Implementing a Server Infrastructure (5)
- CNE 247 Windows Server Enterprise Administration (5)

Windows MCSA/CISCO Track at Pierce College Puyallup (20 Credits)

- CNE 241 CNA 1: Introduction to Networks (5)
- CNE 242 CCNA 2: Routing and Switching Essentials (5)
- CNE 243 CCNA 3: Scaling Networks (5)
- CNE 244 CCNA 4: Connecting Networks (5)
- CNE 260 Cisco CCNA Security (5)

Total Credits Required 103-108

Individual courses may require additional pre-requisites. Please see program coordinator for educational plan and correct sequencing of courses.

NOTE: Due to the rapid changes in the IT industry, the Special Topics courses, CIS 155 and CNE 155, may be substituted as needed into the CIS or CNE degree programs, on the advice of the CIS/CNE faculty and program coordinator.

Program code: 527P

Last revision: 2016-17

Computer Systems Administration Certificate

Core Requirements (38 Credits)

- COLLG 110 College Success (3)
- CIS 121 Introduction to Computer Information Systems (5)
- CIS 134 Computer Operating Systems (5)
- CNE 231 Implementing Windows Client Operating Systems (5)
- CNE 232 Installing and Configuring Windows Server (5)
- CNE 251 Unix Administration (5)
- CNE 254 Fundamentals of Network Security (5)

Select one:

- CNE 241 CNA 1: Introduction to Networks (5)
- CIS 265 Data Communications and Networks (5)

Total Credits Required (38 Credits)

Individual courses may require additional pre-requisites. Please see program coordinator for educational plan and correct sequencing of courses.

NOTE: Due to the rapid changes in the IT industry, the Special Topics courses, CIS 155 and CNE 155, may be substituted as needed into the CIS or CNE degree programs, on the advice of the CIS/CNE faculty and program coordinator.

Program code: 533C

Last revision: 2016-17

Database Management And Design Associate

Pierce College offers the Associate in Database Management and Design at the Puyallup campus. Students who seek an Associate in Database Management will learn programming theory and techniques, relational database concepts, data modeling, data and system security and the Structured Query Language. They will gain experience in maintaining and controlling information stored in a database and monitoring and allocating the data storage space available on a computer system.

Graduates are qualified for entry-level database administrator (DBA), database developer, IT business analyst, data analyst and application analyst positions. For parallel degrees in the health care industry see the Associate and Certificate degrees in Health Information Technology.

Prerequisites

College level reading, math, and English; keyboarding 35 wpm; and CIS 121. Participating students will also need a one-terabyte or larger removable hard drive and possess or have access to a current version of Microsoft Office Professional.

Related Instruction (23 Credits)

- BUS 240 Human Relations in the Workplace (5)
- ENGL& 101 English Composition I (5)
- MATH& 146 Introduction to Statistics (5)
- CMST& 220 Public Speaking (5)
- COLLG 110 College Success (3)

CIS Core Requirements (83 Credits)

- CIS 122 Introduction to Computer Programming (5)
- CIS 123 Introduction to Object Oriented Programming (OOP) (5)
- CIS 136 Spreadsheet Applications (3)
- CIS 185 Intermediate Object Oriented Programming (OOP) (5)
- CIS 210 Business Analysis (5)
- CIS 215 Client-Side Web Development (5)
- CIS 216 Server-Side Web Development (5)
- CIS 260 Database Management Systems (5)

- CIS 261 Structured Query Language (5)
- CIS 262 Database Administration Backup and Recovery (5)
- CIS 264 CIS Project Capstone (5)
- CIS 269 Advanced SQL Programming and Tuning (5)
- CIS 275 Business Analytics/Intelligence (5)
- CIS 280 Systems Analysis and Design (5)
- CIS 290 Supervised Internship (5)
- CNE 232 Installing and Configuring Windows Server (5)

Select one:

- CIS 265 Data Communications and Networks (5)
- CNE 241 CNA 1: Introduction to Networks (5)

Total Credits Required 106

Individual courses may require additional pre-requisites. Please see program coordinator for educational plan and correct sequencing of courses

Note: Students should be aware that certain past criminal and civil behavior may prohibit employment opportunities in some IT occupations. Students are encouraged to research these situations.

Note: Due to the rapid changes in the IT industry, the Special Topics courses, CIS 155 and CN 155, may be substituted as needed into the CIS or CNE degree programs, on the advice of the CIS/CNE faculty and program coordinator.

Program Code: 529C

Last revised: 2016-17

Health Informatics and Integrated Technology Associate

Health care is the fastest growing market in the computer field. With the federal mandate to implement the electronic health record (EHR) and the paradigm shift in the industry to health informatics, the Health Information Management (HIM) field is rapidly evolving from paper-based medical records management to an increasingly electronic environment. To accommodate this migration, skill sets for HIM professionals are expanding to include a wide range of technical expertise in specialized areas, including relational database management, data communications, programming and systems analysis.

The Health Informatics and Integrated Technology (HIIT) and Healthcare Database Management & Design (HDMD) programs are designed for students interested in a non-clinical care IT profession in the health care industry that merges both the health care background with IT database and business analysis skills.

Students who successfully complete the HIIT degree could apply for IT positions such as junior database administrators (DBA), database developers, business analysts, data analysts and application analysts in the health care industry or similar positions in

related industries. For a parallel non-health care degree, see the Associate in Database Management & Design under Computer Information Systems.

Prerequisites

College level reading, math, and English; keyboarding 35 wpm; and CIS 121.

BTECM Core Requirements (15 Credits)

- BTECM 150 Medical Terminology I (5)
- BTECM 257 Electronic Health Records (5)

Select one:

- BIOL& 170 Human Biology: Anatomy & Physiology (5)
- BTECM 151 Medical Terminology II (5)

Related Instruction (23 Credits)

- BUS 240 Human Relations in the Workplace (5)
- ENGL& 101 English Composition I (5)
- MATH& 146 Introduction to Statistics (5)
- CMST& 220 Public Speaking (5)
- COLLG 110 College Success (3)

CIS Core Requirements (68 Credits)

- CIS 122 Introduction to Computer Programming (5)
- CIS 123 Introduction to Object Oriented Programming (OOP) (5)
- CIS 130 Productivity Software (5)
- CIS 136 Spreadsheet Applications (3)
- CIS 210 Business Analysis (5)
- CIS 260 Database Management Systems (5)
- CIS 261 Structured Query Language (5)
- CIS 262 Database Administration Backup and Recovery (5)
- CIS 269 Advanced SQL Programming and Tuning (5)
- CIS 275 Business Analytics/Intelligence (5)
- CIS 280 Systems Analysis and Design (5)
- CIS 290 Supervised Internship (5)
- CNE 232 Installing and Configuring Windows Server (5)

Select one:

- CIS 265 Data Communications and Networks (5)
- CNE 241 CNA 1: Introduction to Networks (5)

Total Credits Required 106

Individual courses may require additional pre-requisites. Please see program coordinator for an educational plan and correct sequencing of courses.

Note: Students should be aware that certain past criminal and civil behavior may prohibit employment opportunities in some health IT occupations. Students are encouraged to research these situations.

Note: Due to the rapid changes in the IT industry the Special Topics courses, CIS 155 and CNE 155, may substituted as needed into the CIS or CNE degree programs on the advice of the CIS/CNE faculty and program coordinator.

Program code: 439

Last revision: 2016-17

Healthcare Database Management and Design Certificate

Prerequisites

College level reading, math, and English; keyboarding 35 wpm; and CIS 121, CIS 122, CIS 130, CIS 134, CIS 265 or HIIT Advisor- approved and documented IT industry experience.

BTECM Core Requirements (13 Credits)

- BTECM 150 Medical Terminology I (5)
- BTECM 257 Electronic Health Records (5)
- COLLG 110 College Success (3)

CIS Core Requirements (30 Credits)

- CIS 210 Business Analysis (5)
- CIS 260 Database Management Systems (5)
- CIS 261 Structured Query Language (5)
- CIS 262 Database Administration Backup and Recovery (5)
- CIS 269 Advanced SQL Programming and Tuning (5)
- CIS 280 Systems Analysis and Design (5)

Total Credits Required 43

Individual courses may require additional pre-requisites. Please see the program coordinator for an educational plan and correct sequencing of courses.

Note: Students should be aware that certain past criminal and civil behavior may prohibit employment opportunities in some health IT occupations. Students may be required to take a background check and a 5-panel drug screen in order to be eligible for an internship and for employment. Students are encouraged to research these situations.

Note: Due to the rapid changes in the IT industry, the Special Topics courses, CIS 155 and CNE 155, may be substituted as needed into the CIS or CNE degree programs on the advice of the CIS/CNE faculty and program coordinator.

Program code: 529C

Last revision: 2016-17

Construction Management

Faculty: Dolores Kelley (FS)

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 in the 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.

Professional/technical program competencies can be found at www.pierce.ctc.edu/cm-outcomes.

University Transfer

Construction Management (DTA/ MRP)

This degree is applicable to transfer students planning to prepare for American Council for Construction Education (ACCE) accredited (www.acce-hq.org/about/advantages-of-accreditation/) majors in Construction Management at Central Washington University (CWU), Washington State University (WSU) and the University of Washington, Seattle (UWS). It also provides information for transfer to Eastern Washington University's (EWU) BS in Technology, Construction Management.

Degree Outcomes

General Degree Requirements

- Minimum of 90 quarter hours of transferable credit
- College cumulative GPA of at least 2.0
- ENGL& 101 English Composition I - required
- COLLG 110 College Success required during the first or second quarter of attendance
- Earn the lesser of (at least) 20 college level credits or 25% of the credits applicable to the degree or certificate at Pierce College
- 1.5 grade (C-) or better for all requirements, unless stated otherwise
- "Pass" (P) grades, independent study and cooperative work experience/work-based learning credits may be used for general elective credits only
- Once a course has been successfully completed, credits earned may be used in only one category

Core Requirements

Communication Skills (10 Credits)

ENGL& 101 is required with a 2.0 grade or higher. Second communications course requires a 1.5 or higher grade. CWU requires an equivalent to ENG 102 - Composition II: Reasoning and Research for program acceptance.

- ENGL& 101 English Composition I (5) required

Select one:

- ENGL& 102 Composition II: Argumentation and Research (5)
- ENGL& 235 Technical Writing (5)

Quantitative/Symbolic Reasoning Skills (5 Credits)

Intermediate algebra proficiency is required. Course requires a 1.5 grade or higher.

- MATH& 151 Calculus I (5)

Humanities (15 Credits)

Courses require a 1.5 grade or higher. At least **five** credits outside of the CMST discipline. No more than **five** credits in performance skills, and no more than **five** credits in world language.

- CMST& 220 Public Speaking (5) required
- ART& 100 Art Appreciation (5)
- ART 105 Introduction to Art (5)
- ART 145 History of Art - Contemporary (5)
- ART 215 Art for Teachers (5)
- ART 243 History of Art – Ancient World Through the Middle Ages (5)
- ART 244 History of Art – Renaissance Through Rococo (5)

- ART 245 History of Art – The Modern World (5)
- ART 260 Art in Motion: Real and Recorded (5)
- ASL& 121 American Sign Language I (5)
- ASL& 122 American Sign Language II (5)
- ASL& 123 American Sign Language III (5)
- ASL& 221 American Sign Language IV (5)
- ASL& 222 American Sign Language V (5)
- ASL& 223 American Sign Language VI (5)
- CMST& 101 Introduction to Communications (5)
- CMST& 102 Introduction to Mass Media (5)
- CMST 105 Intercultural Communication (5)
- CMST& 230 Small Group Communication (5)
- DRMA& 101 Introduction to the Theatre (5)
- DRMA 160 Introduction 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 204 The Bible as Literature (5)
- ENGL 205 Introduction to Mythology (5)
- ENGL 207 Native American Literature (5)
- ENGL 210 Introduction to American Literature (5)
- ENGL 214 Screenwriting I (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& 236 Creative Writing I (5)
- ENGL& 237 Creative Writing II (5)
- ENGL& 238 Creative Writing 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 249 Creative Writing: Special Projects (5)
- ENGL 264 Literature of U.S. Slavery and Abolition (5)
- ENGL 265 American Literature: Comedy, Humor and Satire (5)
- ENGL 266 Women Writers: Voices from the International Mosaic (5)
- FRCH& 121 French I (5)
- FRCH& 122 French II (5)
- FRCH& 123 French III (5)
- GERM& 121 German I (5)
- GERM& 122 German II (5)
- GERM& 123 German III (5)
- HUM& 101 Introduction 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 120 Introduction to Folklore (5)
- HUM 161 Western Thought and Culture I: The Classical World (5)
- HUM 162 Western Thought and Culture II: The Middle Ages (5)
- HUM 163 Western Thought and Culture III: Birth of the Modern World (5)
- HUM 164 Western Thought and Culture IV: The Modern World (5)
- HUM 204 American Popular Culture (5)
- HUM 209 The Civil Rights Movement: From the Ground Up (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 Japanese I (5)
- JAPN& 122 Japanese II (5)
- JAPN& 123 Japanese III (5)
- JOURN 103 Introduction to Feature Writing (1-5)
- JOURN 125 The Documentary: A Social Force (5)
- KREA& 121 Korean I (5)
- KREA& 122 Korean II (5)
- KREA& 123 Korean III (5)
- MUSC 100 Introduction to Rock & Roll (5)
- MUSC 102 American Popular Music (5)
- MUSC 103 Introduction to Jazz (5)
- MUSC& 105 Music Appreciation (5)
- MUSC 106 World Music (5)
- MUSC& 141 Music Theory I (5)
- MUSC& 142 Music Theory II (5)
- MUSC& 143 Music Theory III (5)
- MUSC 205 Music for Teachers (5)
- MUSC& 241 Music Theory IV (5)
- MUSC& 242 Music Theory V (5)
- MUSC& 243 Music Theory VI (5)
- PHIL& 101 Introduction to Philosophy (5)
- PHIL 110 Introduction to Bioethics (5)
- PHIL 150 Introduction to Ethics (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 Russian I (5)
- RUSS& 122 Russian II (5)
- RUSS& 123 Russian III (5)
- SPAN& 121 Spanish I (5)
- SPAN& 122 Spanish II (5)
- SPAN& 123 Spanish III (5)
- SPAN& 221 Spanish IV (5)

Humanities Performance/Skills

- ART 101 Design, Beginning (5)
- ART 102 Design, Intermediate (5)
- ART 107 Photography, Beginning (5)
- ART 111 Drawing, Beginning (5)
- ART 112 Drawing, Intermediate (5)
- ART 113 Drawing, Advanced (5)
- ART 115 3-Dimensional Design (5)
- ART 150 Printmaking, Beginning (5)
- ART 201 Painting, Beginning (5)
- ART 202 Painting, Intermediate (5)
- ART 203 Painting, Advanced (5)
- ART 204 Watercolor, Beginning (5)
- ART 211 Beginning Sculpture (5)
- DRMA 170 Technical Film and Theatre I (5)
- DRMA 171 Technical Film and Theatre II (5)
- DRMA 172 Technical Film and Theatre III (5)
- DRMA 260 Acting for Stage and Digital Film I (5)
- DRMA 261 Acting for Stage and Digital Film II (5)
- DRMA 262 Acting for Stage and Digital Film III (5)
- DRMA 280 Production Practicum I (1-3)
- DRMA 281 Production Practicum II (1-3)
- DRMA 282 Production Practicum III (1-3)
- DRMA 283 Production Practicum IV (1-3)
- DRMA 284 Production Practicum V (1-3)
- DRMA 285 Production Practicum VI (1-3)
- MUSC 126 Beginning Class Guitar (1)
- MUSC 127 Intermediate Class Guitar (1)
- MUSC 144 Concert Choir (2)
- MUSC 147 Chamber Choir (2)
- MUSC 150 College Band (2)
- MUSC 154 College Orchestra (1)
- MUSC 157 Jazz Band (2)
- MUSC 160 Private Instruction: Arranging (1)
- MUSC 161 Private Instruction: Improvisation (1)
- MUSC 162 Private Instruction: Brass (1)
- MUSC 163 Private Instruction: Woodwind (1)
- MUSC 164 Private Instruction: Percussion (1)
- MUSC 165 Private Instruction: Voice (1)
- MUSC 166 Private Instruction: Orchestral Strings (1)
- MUSC 167 Private Instruction: Keyboard (1)
- MUSC 168 Private Instruction: Plectrum Strings (1)
- MUSC 170 Brass Ensemble (1)
- MUSC 171 Woodwind Ensemble (1)
- MUSC 172 Percussion Ensemble (1)

- MUSC 173 String Ensemble (1)
- MUSC 174 Vocal Ensemble (1)
- MUSC 181 Beginning Class Piano (1)
- MUSC 182 Intermediate Class Piano (1)
- MUSC 183 Advanced Class Piano (1)
- MUSC 244 Concert Choir (2)
- MUSC 247 Chamber Choir (2)
- MUSC 250 College Band (2)
- MUSC 254 College Orchestra (1)
- MUSC 257 Jazz Band (2)
- MUSC 260 Private Instruction: Arranging (1)
- MUSC 261 Private Instruction: Improvisation (1)
- MUSC 262 Private Instruction: Brass (1)
- MUSC 263 Private Instruction: Woodwind (1)
- MUSC 264 Private Instruction: Percussion (1)
- MUSC 265 Private Instruction: Voice (1)
- MUSC 266 Private Instruction: Orchestral Strings (1)
- MUSC 267 Private Instruction: Keyboard (1)
- MUSC 268 Private Instruction: Plectrum Strings (1)
- MUSC 270 Brass Ensemble (1)
- MUSC 271 Woodwind Ensemble (1)
- MUSC 272 Percussion Ensemble (1)
- MUSC 273 String Ensemble (1)
- MUSC 274 Vocal Ensemble (1)

Social Science (15 Credits)

WSU requires both ECON& 201 and ECON& 202 .

- BUS& 201 Business Law (5) required

Select one:

- ECON& 201 Microeconomics (5)
- ECON& 202 Macroeconomics (5)

Social Science Elective

Courses require a 1.5 grade or higher.

- ANTH& 100 Survey of Anthropology (5)
- ANTH& 104 World Prehistory (5)
- ANTH& 106 The 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& 236 Forensic Anthropology (5)
- ANTH 240 Women in Cross Cultural Perspectives (5)
- BUS& 101 Introduction to Business (5)
- CJ& 105 Corrections in America (5)
- CJ 112 Criminal Justice in America (5)
- CJ 202 Concepts of Criminal Law (5)
- ECED& 105 Introduction to Early Childhood Education (5)
- ECED 335 Law and Ethics (3)
- ECED& 355 Social and Political Context of Early Childhood Education (3)
- ECON 110 Survey of Economics (5)
- EDUC& 115 Child Development (5)
- GEOG 100 Introduction to Geography (5)
- GEOG 150 The Americas, Australia, Europe and New Zealand (5)
- GEOG 160 Africa, Middle East and Asia (5)
- GEOG 200 Human Geography (5)
- HIST& 126 World Civilizations I (5)
- HIST& 127 World Civilizations II (5)
- HIST& 128 World Civilizations III (5)
- HIST& 156 History of U. S. I (5)
- HIST& 157 History of U. S. II (5)
- HIST& 158 History of U.S. III (5)
- HIST& 159 History of U.S. IV (5)
- HIST 168 Vietnam War as History (5)
- HIST 175 A Brief History of Global Leadership (5)
- HIST& 214 Pacific Northwest History (5)
- HIST 260 History of Russia and the Soviet Union (5)
- HIST 265 History of Latin American Since 1810 (5)
- HIST 266 History of Europe Since 1870 (5)
- HIST 267 History of Africa Since 1800 (5)
- HIST 270 Introduction to the Far East (5)
- HIST 272 Survey of Middle East History (5)
- HIST 277 The Cold War (5)
- HIST 280 Introduction to Chinese Civilization (5)
- HIST 284 Introduction to the Balkans (5)
- HIST 287 History of Japan Since Antiquity (5)
- INTS 107 Introduction 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 in the Modern World (5)
- INTS 300 Social Studies for Teachers (5)
- POLS& 101 Introduction to 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 Intro to Personality (5)
- SOC& 101 Introduction 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 235 Race and Ethnicity (5)

Natural Sciences (15-30 Credits)

Courses require a 1.5 grade or higher. Lab courses are indicated with an \textcircled{L} . UW-Seattle requires MATH& 146 and General or Engineering Physics and ten additional quarter credits in natural sciences/math at the student's choice or see electives list. WSU requires MATH& 152 and General or Engineering Physics. CWU requires MATH& 152 and General Chemistry. EWU requires General Chemistry or CHEM& 161 .

- \textcircled{L} CHEM& 161 General Chemistry with Lab I (5)
- \textcircled{L} GEOL& 101 Introduction to Physical Geology (5)
- MATH& 146 Introduction to Statistics (5)
- MATH& 152 Calculus II (5)
- \textcircled{L} PHYS& 114 General Physics I (5)
- \textcircled{L} PHYS& 115 General Physics II (5)
- \textcircled{L} PHYS& 221 Engineering Physics I (6)
- \textcircled{L} PHYS& 222 Engineering Physics II (6)

Construction Management Courses (13-18 Credits)

Courses require a 1.5 grade or higher.

ACCT& 201 and ACCT& 202 are required.

UW-Seattle requires ACCT& 203 and **three** credits of Architectural CAD or Engineering graphics equivalent to ENGR& 111 or ENGR& 114 or ENGR& 121, a course that includes 3-D graphics such as AutoCAD or SolidWorks. WSU, CWU and EWU recommend three quarter credits of Architectural CAD or Engineering graphics.

Students may select **three** credits for the recommended electives list that best fit their future university.

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

General Electives (20 Credits)

Minimum grade of 1.0 is required. Maximum of five credits additional college-level courses. A maximum of three PE activity credits can be applied to this degree. COLLG 110 is required with a 2.0 grade or higher.

- COLLG 110 College Success (3) required with a 2.0 or higher grade
- CONST 101 Introduction to Construction Management (5)
- CHEM& 161 General Chemistry with Lab I (5)
- ENGR& 214 Statics (5)
- ENGR& 215 Dynamics (5)
- ENVS& 100 Survey of Environmental Science (5)
- ENVS 150 Environmental Issues (5)
- ENVS 155 Applied Environmental Methods (5)
- MATH& 141 Precalculus I (5)
- MATH& 142 Precalculus II (5)
- MATH& 146 Introduction to Statistics (5)
- MATH& 152 Calculus II (5)
- PHYS& 115 General Physics II (5)
- PHYS& 222 Engineering Physics II (6)
- Additional college-level courses, a maximum of **three** physical activity (PE) credits.

Total Credits Required 93-113

Notes

- Entry to Construction Management majors is selective; students typically require a higher minimum overall GPA than the minimum 2.0 for the general DTA. Students need to check criteria for selection by connecting with their future institution.
- 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.
- Students are responsible for checking specific major requirements of baccalaureate institutions in the year prior to transferring.

Program Code: ACMT

Professional/Technical

Construction Management Associate

General Course Requirements

Communication Skills (10 Credits)

- ENGL& 101 English Composition I (5) * +
- ENGL& 235 Technical Writing (5) * +

Computation/Quantitative/Symbolic Reasoning Skills (5 Credits)

Select one:

- BTECA 117 Business Mathematics (5) * +
- MATH& 141 Precalculus I (5) * +
- MATH& 142 Precalculus II (5) * +
- MATH 147 Business Precalculus (5) * +
- MATH& 148 Business Calculus (5) * +

Human Relations (5 Credits)

Select one:

- BUS 240 Human Relations in the Workplace (5) *
- CMST& 101 Introduction to Communications (5)
- CMST& 230 Small Group Communication (5)

Construction Management Requirements (46 Credits)

- CONST 101 Introduction to Construction Management (5) +
- CONST 140 Construction Drawings: Print Reading (5) +
- CONST 150 Construction Documents (5) +
- CONST 160 Materials and Methods (5) +
- CONST 180 Building Codes (5)
- CONST 198 Work-Based Learning (3) +
- CONST 200 Estimating (5) +
- CONST 230 Scheduling and Planning (5) +
- CONST 250 Construction Safety and Accident Prevention (3)
- CONST 260 Construction Project Management (5) +

Business Management (10 Credits)

Select two:

- MNGT 130 Customer Relationship Management (5) *
- MNGT 182 Creative Sales (5)
- MNGT 283 Principles of Management (5)
- MNGT 284 Small Business Planning (5)
- MNGT 295 Human Resource Management (5)

or select both:

- BUS 260 Project Management I: Planning (5)
- BUS 261 Project Management II: Managing (5)

General Requirements (28 Credits)

- COLLG 110 College Success (3)
- BUS& 201 Business Law (5) +
- BTECA 110 Microsoft Word: Prepare and Edit Documents (1)
- BTECA 111 Microsoft Word: Enhance and Customize Documents (1)
- BTECA 121 Microsoft Excel: Prepare Format Basic Worksheets (1)
- BTECA 122 Microsoft Excel: Insert Formulas and Enhancements (1)
- BTECA 123 Microsoft Excel: Create Charts and Diagrams (1)

Select one:

- ACCT 101 Survey of Accounting (5)
- ACCT& 201 Principles of Accounting I (5) +

Select one:

- ACCT& 202 Principles of Accounting II (5) +
- BUS& 101 Introduction to Business (5)
- ECON 110 Survey of Economics (5)
- ECON& 201 Microeconomics (5) +
- ECON& 202 Macroeconomics (5) +

Select one:

- ENVS& 100 Survey of Environmental Science (5)
- ENVS 155 Applied Environmental Methods (5)
- GEOL& 101 Introduction to Physical Geology (5)

- GEOL& 110 Environmental Geology (5)
- PHYS& 110 Physics for Non-Science Majors (5) +

Total Credits Required 104

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

Program code: 570

Last revision: 2016-17

Construction Management Certificate

Core Requirements (61 Credits)

- BUS 240 Human Relations in the Workplace (5) *
- COLLG 110 College Success (3)
- CONST 101 Introduction to Construction Management (5) +
- CONST 140 Construction Drawings: Print Reading (5) +
- CONST 150 Construction Documents (5) +
- CONST 160 Materials and Methods (5) +
- CONST 180 Building Codes (5)
- CONST 200 Estimating (5) +
- CONST 230 Scheduling and Planning (5) +
- CONST 250 Construction Safety and Accident Prevention (3)
- CONST 260 Construction Project Management (5) +

Select one:

- BTECA 250 Business Communications (5)
- ENGL& 101 English Composition I (5) *

Select one:

- BTECA 117 Business Mathematics (5) * +
- MATH 147 Business Precalculus (5) * +
- MATH& 148 Business Calculus (5) * +

Total Credits Required 61

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

+Prerequisites required.

Program code: 570C

Last revision: 2016-17

Virtual Construction for Construction Management Certificate

The Certificate in Virtual Construction for Construction Management is provided in response to the needs of the construction industry. A Building Information Model or BIM provides the contractor with the ability to analyze, in a collaborative digital environment, a facility's key physical and functional attributes before breaking ground. The BIM can improve the entire process from bidding, planning, controlling and commissioning.

The program is intended for individuals who have completed certificates or degrees in construction management or have work experience in construction management, estimating, scheduling, coordination and project supervision.

To meet the needs of working adults, courses are offered in the evenings. The curriculum introduces students to BIM tools and platforms, basic and intermediate modeling, project coordination using BIM tools and platforms and estimation and scheduling with BIM.

Core Requirements (23 Credits)

- CONST 270 Introduction to Virtual Design and Construction (3)
- CONST 271 Basic Modeling (5)
- CONST 272 Intermediate Modeling (5)
- CONST 274 Model Based Collaboration (5)
- CONST 275 Model Integration: Estimation and Scheduling (5)

Total Credits Required 23

Program code: 570V

Last revision: 2016-17

Criminal Justice

Faculty: Natalie Durflinger, Bobi Foster-Grahler

The Criminal Justice program at Pierce College prepares adults for the rigors and responsibilities of these important careers. Traditional classroom instruction is combined with "in the field" internship opportunities, jail and prison tours, and police ride-alongs, giving students the balanced training, experiences, and connections they need to begin a rewarding career in criminal justice.

Special Notes

Students wishing to pursue a career in criminal justice should know that any past criminal history may be detrimental to finding a job in that field. Students with these concerns are encouraged to speak with a Criminal Justice program advisor.

Professional technical program competencies can be found at www.pierce.ctc.edu/dept/crimjustice/outcomes.

Professional/Technical

Criminal Justice Associate

Students must earn a minimum grade of 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 grade of 1.5 in each core requirement and core elective. College-level reading skills, as determined by placement test, are required.

General Required Courses

College Success (3 Credits)

- COLLG 110 College Success (3)

Communication Skills (10 Credits)

- ENGL& 101 English Composition I (5) *
- ENGL& 102 Composition II: Argumentation and Research (5)

Quantitative/Symbolic Reasoning Skills (5 Credits)

Select one:

- MATH& 107 Math in Society (5) *
 - MATH& 146 Introduction to Statistics (5) *
- MATH& 146 is recommended for students transferring to a four-year institution.

Humanities (15 Credits)

Students planning to transfer to a four-year institution who lack two years of high school study of a single world language should take one quarter of a foreign language as a humanities elective. Four-year institutions may require three quarters.

- CMST& 220 Public Speaking (5)
- PHIL 150 Introduction to Ethics (5)
- Elective (World language) (5) †
- ASL& 121 American Sign Language I (5)
- ASL& 122 American Sign Language II (5)
- ASL& 123 American Sign Language III (5)
- ASL& 221 American Sign Language IV (5)
- ASL& 222 American Sign Language V (5)
- ASL& 223 American Sign Language VI (5)
- FRCH& 121 French I (5)
- FRCH& 122 French II (5)
- FRCH& 123 French III (5)
- GERM& 121 German I (5)
- GERM& 122 German II (5)
- GERM& 123 German III (5)
- JAPN& 121 Japanese I (5)
- JAPN& 122 Japanese II (5)
- JAPN& 123 Japanese III (5)
- KREA& 121 Korean I (5)
- KREA& 122 Korean II (5)
- KREA& 123 Korean III (5)
- RUSS& 121 Russian I (5)
- RUSS& 122 Russian II (5)
- RUSS& 123 Russian III (5)
- SPAN& 121 Spanish I (5)
- SPAN& 122 Spanish II (5)
- SPAN& 123 Spanish III (5)
- SPAN& 221 Spanish IV (5)

Social Science (15 Credits)

- POLS& 202 American Government (5)
- PSYC& 100 General Psychology (5) *
- SOC& 101 Introduction to Sociology (5)

Natural Science (15 Credits)

- ANTH& 236 Forensic Anthropology (5)
- BIOL& 170 Human Biology: Anatomy & Physiology (5)
(or another biology course†)
† Natural Science Elective (course other than biology or anthropology that meets the AA-DTA distribution requirement) (5)
- ATMOS 101 Introduction to Weather (5)
- CHEM& 100 Preparatory Chemistry (5)
- CHEM& 110 Chemical Concepts with Lab (5)
- CHEM& 121 Intro to Chemistry (5)
- CHEM& 131 Intro to Organic/Biochemistry (6)
- CHEM& 139 General Chemistry Prep (5)
- CHEM& 161 General Chemistry with Lab I (5)
- CHEM& 162 General Chemistry with Lab II (5)
- CHEM& 163 General Chemistry with Lab III (5)
- CHEM& 261 Organic Chemistry with Lab I (6)
- CHEM& 262 Organic Chemistry with Lab II (6)
- ENGR 101 Introduction to Engineering (5)
- ENVS& 100 Survey of Environmental Science (5)
- ENVS 140 Western Water Problems (5)
- ENVS 150 Environmental Issues (5)
- ENVS 155 Applied Environmental Methods (5)
- GEOG 205 Physical Geography (5)
- GEOG 210 Physical Geography (5)
- GEOL& 101 Introduction to Physical Geology (5)
- GEOL& 103 Historical Geology (5)
- GEOL 107 Exploring Earth Science (5)
- GEOL& 110 Environmental Geology (5)
- GEOL& 115 Geology of National Parks (5)
- GEOL& 120 Volcanoes (5)
- GEOL& 208 Geology of Pacific Northwest (5)
- GEOL 220 Earth Resources and the Environment (5)
- GEOL 283 Regional Geology (5)
- MATH& 107 Math in Society (5)
- MATH& 141 Precalculus I (5)
- MATH& 142 Precalculus II (5)
- MATH& 146 Introduction to Statistics (5)
- MATH 147 Business Precalculus (5)
- MATH& 148 Business Calculus (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)
- NSCI 150 Nature (5)
- NSCI 160 Environmental Biology (5)
- NSCI 300 Inquiry Based Science for Teachers (5)
- NUTR& 101 Nutrition (5)

- OCEA& 101 Introduction to Oceanography (5)
- OCEA 170 Marine Biology (5)
- PHIL& 120 Symbolic Logic (5)
- PHYS& 110 Physics for Non-Science Majors (5)
- PHYS& 114 General Physics I (5)
- PHYS& 115 General Physics II (5)
- PHYS& 116 General Physics III (5)
- PHYS& 221 Engineering Physics I (6)
- PHYS& 222 Engineering Physics II (6)
- PHYS& 223 Engineering Physics III (6)
- PS 101 Introduction to Physical Science (5)

Criminal Justice Requirements (41 Credits)

- CJ 103 Criminal Justice: Success Seminar (1)
- CJ& 105 Corrections in America (5)
- CJ 112 Criminal Justice 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)
5 credits of Criminal Justice electives approved by a Criminal Justice advisor

Select one:

- CJ 128 Criminal Justice Wellness (5)
- CJ 228 Community Emergency Response Teams (2)

Total Credits Required 104

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

***Prerequisites required.*

†Requires Criminal Justice advisor approval.

SOCAD military students may substitute five additional criminal justice elective credits with 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.

Program code: 832

Last revision: 2016-17

Criminal Justice Certificate

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. It is a great building block for individuals who wish to earn an Associate in Criminal Justice and AA-DTA. 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)

- COLLG 110 College Success (3)
- CJ 103 Criminal Justice: Success Seminar (1)
- CJ& 105 Corrections in America (5)
- CJ 112 Criminal Justice 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)
- Five credits of Criminal Justice electives approved by a criminal Justice advisor (5)

Select one:

- CJ 128 Criminal Justice Wellness (5)
- CJ 228 Community Emergency Response Teams (2)

Total Credits Required 44

†Requires Criminal Justice advisor approval.

**Prerequisites required.

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.

Program code: 832C

Last revision: 2016-17

Explorer/Cadet Pre-Law Enforcement Certificate

The certificate for explorer/cadet pre-law enforcement provides students with an overview of skills needed to perform the duties of a volunteer in law enforcement, a commissioned reserve law enforcement officer and a commissioned law enforcement officer. It also is an overview of the criminal justice system and major skills needed to succeed in law enforcement. These certificates include written, oral and multicultural communications and practical application of knowledge and skills. Students are current or former law enforcement explorers or cadets, or reserve law enforcement employees looking for career or educational advancement. These certificates flow directly into the Associate in Criminal Justice and the AA-DTA degree, allowing students to continue to a four-year institution.

Students must earn a minimum grade of 2.0 in each criminal justice course to obtain this certificate. Students wanting to obtain an AA-DTA while completing their Associate in Criminal Justice must earn a minimum overall GPA of 2.0 and earn a minimum grade of 1.5 in each core requirement and core elective.

Course Requirements (42 Credits)

- COLLG 110 College Success (3)
- CJ 103 Criminal Justice: Success Seminar (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 (5) *
(180 hours volunteering)
- 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 42

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.

†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 required.*

Program code: 832E

Last revision: 2016-17

Forensic Technician Certificate

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.

Course Requirements (42 Credits)

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

- COLLG 110 College Success (3)
- CJ 103 Criminal Justice: Success Seminar (1)
- CJ 112 Criminal Justice in America (5)
- CJ 150 Policing in America (5)
- CJ 205 Investigative Technology (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& 114 General Physics I (5) *

Select one:

- ANTH& 236 Forensic Anthropology (5)
- CHEM& 110 Chemical Concepts with Lab (5) *

Select one:

- CJ 202 Concepts of Criminal Law (5)
- CJ 245 Introduction to Investigation and Evidence (5)

Total Credits Required 42

**Prerequisite required.*

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.

Program code: 967C

Last revision: 2016-17

Dental Hygiene

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., Carolyn Robertson, R.D.H., B.S. (FS)

The need for Registered Dental Hygienists (RDH) continues to grow within Washington state, nationwide and globally. An RDH is dedicated to the prevention and non-surgical treatment of oral diseases. Bachelor of Applied Science in Dental Hygiene (BASDH) dental hygienists are able to work as clinicians, educators, advocates, leaders, etc. in private, business and public health settings. The profession attracts individuals interested in a licensed oral health profession that provides direct patient care. Students earn eligibility for dental hygiene licensure through successfully graduating from an accredited dental hygiene program and passing all licensing examinations. Pierce College's Dental Hygiene program enables graduates to take both written and practical examinations for licensure in this jurisdiction and in other jurisdictions within the United States (U.S.).

Acceptance into Pierce's program occurs once a year in summer quarter. The application deadline occurs in January every year. Pierce accepts 20 students each year at the Fort Steilacoom campus. Applicants to the program must not only meet the general entrance requirements of Pierce College, but all prerequisite 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: www.pierce.ctc.edu/dept/denthyg/.

The BASDH prepares the student for graduate school in dental hygiene or other discipline where courses and credits apply. Several graduate programs exist in dental hygiene. Please visit the American Dental Hygienists' Association website at: www.adha.org/dental-hygiene-programs. Within Washington State, the Pierce College BASDH is accepted for entrance into the University of Washington's MS (Dental Hygiene) in Oral Biology.

Professional/technical program competencies can be found at www.pierce.ctc.edu/dept/denthyg

Professional/Technical

Dental Hygiene (BASDH)

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., Carolyn Robertson, R.D.H., B.S. (FS)

The need for Registered Dental Hygienists (RDH) continues to grow within Washington state, nationwide and globally. An RDH is dedicated to the prevention and non-surgical treatment of oral diseases. Bachelor of Applied Science in Dental Hygiene (BASDH) dental hygienists are able to work as clinicians, educators, advocates, leaders, etc. in private, business and public health settings. The profession attracts individuals interested in a licensed oral health profession that provides direct patient care. Students earn eligibility for dental hygiene licensure through successfully graduating from an accredited dental hygiene program and passing all licensing examinations. Pierce College's Dental Hygiene program enables graduates to take both written and practical examinations for licensure in this jurisdiction and in other jurisdictions within the United States (U.S.).

Acceptance into Pierce's program occurs once a year in summer quarter. The application deadline occurs in January every year. Pierce accepts 20 students each year at the Fort Steilacoom campus. Applicants to the program must not only meet the general entrance requirements of Pierce College, but all prerequisite 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: www.pierce.ctc.edu/dept/denthyg/.

The BASDH prepares the student for graduate school in dental hygiene or other discipline where courses and credits apply. Several graduate programs exist in dental hygiene. Please visit the American Dental Hygienists' Association website at:

www.adha.org/dental-hygiene-programs. Within Washington State, the Pierce College BASDH is accepted for entrance into the University of Washington's MS (Dental Hygiene) in Oral Biology.

Professional/technical program competencies can be found at www.pierce.ctc.edu/dept/denthyg

ACCREDITATION COMPLIANCE

The Pierce College Dental Hygiene Program is fully accredited by the Commission on Dental Accreditation (CODA) of the American Dental Association, a specialized accrediting body recognized by the U.S. Department of Education. You may refer to the CODA website for more information at: [http://www.ada.org/en/coda/find-a-program/search-dental-programs#q=pierce%20college&t=us&sort=%40codastatecitysort%20ascending&f:ProgramName=\[Dental%20Hygiene\]](http://www.ada.org/en/coda/find-a-program/search-dental-programs#q=pierce%20college&t=us&sort=%40codastatecitysort%20ascending&f:ProgramName=[Dental%20Hygiene])

PREREQUISITE DENTAL HYGIENE COURSES

Some prerequisite dental hygiene courses may require prerequisite courses prior to enrollment. These prerequisite courses vary from college to college and are not listed below. Completion of the prerequisite dental hygiene courses generally takes two years. Prerequisite dental hygiene courses NOT listed on our Prerequisite Course Guide will need to be approved prior to application. You may submit the request online at: <http://www.pierce.ctc.edu/dental-hygiene-course-exception-form>

Complete all of the following courses:

BIOL& 241 Human Anatomy and Physiology w/Lab 1 (NS) 6
BIOL& 242 Human Anatomy and Physiology w/Lab 2 (NS) 6
BIOL& 260 Microbiology (NS) 5
CHEM& 121 Intro to Chemistry (NS) 5
CHEM& 131 Intro to Organic/Biochemistry (NS) 6
ENGL& 101 Composition I (CM, GTE) 5
PHIL 230 Contemporary Moral Problems (HM, GTE) 5
NUTR&101 Nutrition (NS) 5
PSYC& 100 General Psychology (SS, GTE) 5

Select one of the following Communication courses to complete:

CMST 105 Intercultural Communication (HM, GTE) 5
CMST& 101 Introduction to Communications (HM, GTE) 5
CMST& 220 Public Speaking (HM, GTE) 5

Select one of the following Social Science courses to complete:

SOC& 201 Social Problems (SS, GTE) 5
SOC& 101 Introduction to Sociology (SS, GTE) 5

Select one of the following English courses to complete:

ENGL& 102 English Composition II (CM, GTE) 5
ENGL& 235 Technical Writing (CM, GTE) 5

Select one of the following math/quantitative courses to complete:

MATH& 146 Introduction to Statistics (QS, NS, GTE) 5
MATH& 107 Math in Society (QS, NS, GTE) 5

Total Prerequisite Dental Hygiene Credits 68

PIERCE COLLEGE REQUIREMENT BEGINNING SUMMER 2015:

For all students beginning prerequisites to the Dental Hygiene program at Pierce College, COLLG 110: College Success must be taken within the first two quarters of starting coursework. You may be exempt from this requirement. Check with your advisor for the latest information.

BACHELOR OF APPLIED SCIENCE 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 access the application at www.pierce.ctc.edu/dept/denthyg/site/). There is a \$40*** non-refundable application fee.

As of this publication, the deadline for submitting the application is the fourth Friday in January for a summer quarter start date. It is the applicant's responsibility to see that his/her file is accurate, complete and up-to-date. All prerequisite dental hygiene courses must be complete by the end of **WINTER** quarter prior to the summer quarter start date. Other deadlines are published each year on the program website. A minimum grade of 2.5 in each pre-dental hygiene course must be earned, as well as a cumulative 3.3 GPA for all pre-dental hygiene courses.

ENGL& 102 or ENGL& 235, CHEM&121, three other sciences and/or math, and one non-science course must be completed for application by the end of the current fall quarter to be eligible to apply in January. All prerequisite dental hygiene courses must be completed by the end of **WINTER** quarter (end of March) prior to the summer quarter start date.

The applicant must submit/complete the following documentation for initial application:

- Pierce College Admissions (completed online)
- Proof of BASDH Application Fee Payment Receipt
- BASDH Applicant Information Form
- BASDH Prerequisite Course Plan Application Form
- BASDH Observation Hours Application Form
- Copy(ies) of emails proving Substitute Course Transfer, if applicable
- Official transcripts from high school and all colleges attended included in your application packet or forwarded directly from the schools to the Office of Admissions at Fort Steilacoom and marked "Dental Hygiene Admissions." Only official transcripts in sealed school envelopes sent with the application or hand carried in sealed school envelopes will be accepted.
- Pay and complete a Criminal Background Check. (Directions are posted on the website)

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 winter quarter by the dates published on the Dental Hygiene website.

**Please visit the Dental Hygiene Department website at www.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. Please note that changes to the evaluation of candidate categories and/or percentages can occur. For the most current information, please visit our department website at www.pierce.ctc.edu/dept/denthyg/site/.

40% Science, Math and English GPA
15% Non-science GPA
15% Health Science Reasoning Test score
15% Space relations score
15% Writing sample score

Pass a Criminal Background Check

For more information regarding the criminal background check and its requirements, please visit our website.

Correct submission and completion of the application documents, your academic achievement/records various exams, and the ability to pass a criminal background check provide the basis for acceptance into the Dental Hygiene program.

Applicants with the highest total scores will be selected and notified via their Pierce College student email by the third Friday in April. 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.

NOTE: Due to the highly competitive nature of the program, students who have been previously dismissed from the program have demonstrated a failure to progress in the profession of Dental Hygiene. Therefore, an offer of acceptance into the program may be denied.

REQUIREMENTS AFTER ACCEPTANCE

- 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.
- Physical, visual, and oral examinations with practitioner verification to attend the BASDH program completed prior to the start of the program. (Corrected vision to 20/20 with depth perception, physically and mentally sound to engage in a rigorous course of study in dental hygiene, and all dental treatment complete or a plan to complete, etc.)
- Tuberculin test, chest x-ray or IGRA blood test and tetanus vaccine. No active TB.
- Vaccination proof for Hepatitis B and current on CDC standard immunizations for the health care worker.

If accepted into the program, the applicant will enter the two-year, eight consecutive quarter program leading to a Bachelor of Applied Science in Dental Hygiene. Information on estimated cost, including books, instruments, equipment, lab fees, uniforms, etc., is published on the department website.

First Year

Summer Quarter (13 Credits)

- DHYG 271 Health Care Foundations (4)
- DHYG 272 Dental Imaging I (3)
- DHYG 274 Biological Structures I: Dental Anatomy (1)
- DHYG 277 Restorative Dentistry and Dental Materials I (3)
- DHYG 283 Oral Disease Prevention and Cariology II (1)

Fall Quarter (17 Credits)

- DHYG 282 Dental Imaging II (2)
- DHYG 283 Oral Disease Prevention and Cariology II (1)
- DHYG 284 Biological Structures II: Head and Neck Anatomy (2)
- DHYG 287 Restorative Dentistry and Dental Materials II (3)
- DHYG 300 Fundamentals of Dental Hygiene Theory I (2)
- DHYG 301 Fundamentals of Dental Hygiene Practice I (5)
- DHYG 305 General Pathology (2)

Winter Quarter (17 Credits)

- DHYG 310 Fundamentals of Dental Hygiene Theory and Science II (2)

- DHYG 311 Fundamentals of Dental Hygiene Practice II (6)
- DHYG 314 Biological Structures III: Embryology and Histology (2)
- DHYG 315 Oral Pathology (2)
- DHYG 316 Pharmacology (3)
- DHYG 317 Restorative Dentistry I (1)
- DHYG 318 Education Methodologies I: Patient Centered Care (1)

Spring Quarter (17.5 Credits)

- DHYG 320 Fundamentals of Dental Hygiene Theory III (2)
- DHYG 321 Fundamentals of Dental Hygiene Practice III (6)
- DHYG 325 Introduction to Periodontology I (3)
- DHYG 326 Pain Management I: Local Anesthesia (3)
- DHYG 327 Restorative Dentistry II (1.5)
- DHYG 328 Research Methodologies (2)

Second Year

Summer Quarter (14 Credits)

- DHYG 400 Dental Hygiene Theory and Nutrition (1.5)
- DHYG 401 Dental Hygiene Practice (6)
- DHYG 405 Introduction to Periodontology II (2)
- DHYG 406 Pain Management II: Nitrous Oxide Sedation (1)
- DHYG 407 Restorative Dentistry III (1.5)
- DHYG 409 Ethics and Critical Reasoning (2)

Fall Quarter (15.5 Credits)

- DHYG 410 Advanced Dental Hygiene Theory and Practice Management I (1)
- DHYG 411 Advanced Dental Hygiene Practice I (7)
- DHYG 415 Advanced Periodontology (2)
- DHYG 416 Pain Management III: Adjunctive Techniques (.5)
- DHYG 417 Clinical Restorative Dentistry I (2)
- DHYG 418 Education Methodologies II: Service Learning and Special Populations (3)

Winter Quarter (15 Credits)

- DHYG 420 Advanced Dental Hygiene Theory and Practice Management II (2)
- DHYG 421 Advanced Dental Hygiene Practice II (7)
- DHYG 427 Clinical Restorative Dentistry II (2)
- DHYG 428 Service Learning: Health Care Teams Practicum (2)

- DHYG 441 Extramural Practice I (2)

Spring Quarter (15 Credits)

- DHYG 431 Advanced Dental Hygiene Theory Practice III (7)
- DHYG 437 Clinical Restorative Dentistry III (2)
- DHYG 438 Community Oral Health Practicum (1)
- DHYG 439 Senior Seminar Capstone (1)
- DHYG 451 Extramural Practice II (2)
- DHYG 430 Advanced Dental Hygiene Theory and Practice Management III (2)

Total BASDH Credits, Excluding Prerequisites 124

Total Credits with Prerequisites 192

Program code: 30B

Last revision: 2017-18

Digital Design

Faculty: Brian Martin (FS)

Web site: www.pcd.edu/digital-design

Explore your creativity in the exciting, high-tech world of graphic design and dynamic media production. From eye-catching magazine layouts to innovative print advertisements, from understated corporate imagery to attention-grabbing websites complete with animation and sound. If you have ever wondered how those images were created and have ever thought about designing them as a career, then the Digital Design program might be the right choice for you.

The Digital Design program at Pierce College is a two-year, broad-based program requiring courses in two main areas:

Traditional Graphic Design

This explores computer and traditional illustration, digital photography and image manipulation, print-based page layout, and web design.

Rich Media Production

This part of the degree incorporates 3D modeling, 2D and 3D animation, video production, DVD authoring, and rich media authoring.

Graduates can expect to be readily capable of competing for jobs in the graphic arts industry, or they can choose to pursue an advanced degree at a four-year institution See the for more information.

The Digital Design program is enhanced by a state-of-the-art lab offering full graphic design and multimedia capabilities for hands-on experience. You will study with instructors who have both academic expertise and practical experience in their field, bringing a genuine working knowledge to their teaching.

Professional/technical program competencies can be found on the Pierce College website at www.pcd.edu/digdesign-outcomes.

Professional/Technical

Digital Design Associate

Related Instruction (23 Credits)

- BTECA 117 Business Mathematics (5) *
- BUS 135 Introduction to Online Marketing (5)
- COLLG 110 College Success (3)
- CMST& 220 Public Speaking (5)

Select one:

- BUS 134 Introduction to Social Media (5)
- BUS 240 Human Relations in the Workplace (5)
- PSYC& 100 General Psychology (5)

Select one:

- ENGL& 235 Technical Writing (5) *
- JOURN 102 Introduction to News Writing (5) *
- JOURN 120 Introduction to Broadcasting (5) *

Digital Design Requirements (76 Credits)

The DDSGN courses are offered at the Fort Steilacoom campus only.

- ART 101 Design, Beginning (5)
- DDSGN 110 Introduction 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 and Adobe Photoshop (5)
- DDSGN 170 Fundamentals of Video Production (5)
- DDSGN 210 Fundamentals of Motion Graphics and Interactive Media (5)
- DDSGN 220 Integrated Digital Design I (5)
- DDSGN 230 Integrated Digital Design II (5)
- DDSGN 290 Supervised Internship (5) **

Select three from the following:

- ART& 100 Art Appreciation (5)
- ART 111 Drawing, Beginning (5)
- ART 150 Printmaking, Beginning (5)
- ART 201 Painting, Beginning (5)
- BUS 135 Introduction to Online Marketing (5)
- DDSGN 131 Techniques in Adobe Illustrator (5)
- DDSGN 141 Advanced 3D Modeling and Animation (5)
- DDSGN 151 Web Design with WordPress (5)
- DDSGN 161 Advanced Adobe Photoshop (5)
- DDSGN 180 Fundamentals of 3D Game Design (5)
- DDSGN 211 2D Animation with Adobe Animate (5)
- MNGT 138 Information Design for Business (5)
- MNGT 139 Social Media Digital Content for Business (5)

Total Credits Required 99

Students entering the program must have CIS 121 or equivalent computer experience.

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 BTECA 117). See advisor for details.

**Prerequisites required.*

***Students must earn a minimum of 2.0 in DDSGN 290 in order to obtain an Associate in Digital Design.*

Drama

Faculty: Patrick Daugherty, Fred Metzger (FS)

The Theatre/Digital Film curriculum is designed to give majors a thorough exposure to all aspects of 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 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, and 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.

University Transfer

Drama Major

This planning sheet lists only the courses related to the drama major. Students planning to transfer as drama majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. Drama majors should work closely with a faculty advisor to plan an overall program of study.

Drama Major

Acting Emphasis

- ANTH& 100 Survey of Anthropology (5)
- ART 105 Introduction to Art (5)
- CMST& 101 Introduction to Communications (5)
- CMST& 220 Public Speaking (5)
- DRMA& 101 Introduction to the Theatre (5)
- DRMA 160 Introduction to Film and Video (5)
- DRMA 165 Digital Movie Making I (5)
- DRMA 166 Digital Movie Making II (5)
- DRMA 167 Digital Movie Making III (5)
- DRMA 260 Acting for Stage and Digital Film I (5)
- DRMA 261 Acting for Stage and Digital Film II (5)
- DRMA 262 Acting for Stage and Digital Film III (5)
- DRMA 280 Production Practicum I (1-3)
- DRMA 281 Production Practicum II (1-3)
- DRMA 282 Production Practicum III (1-3)
- DRMA 283 Production Practicum IV (1-3)
- ENGL 107 Composition III: Writing About Literature (5)
- ENGL& 220 Intro to Shakespeare (5)
- MUSC Any lecture course
- MUSC 100 Introduction to Rock & Roll (5)
- MUSC 102 American Popular Music (5)

- MUSC 103 Introduction to Jazz (5)
- MUSC& 105 Music Appreciation (5)
- MUSC 106 World Music (5)
- PSYC& 100 General Psychology (5)
- SOC& 101 Introduction to Sociology (5)

Technical Theatre Emphasis

- ANTH& 100 Survey of Anthropology (5)
- ART 105 Introduction to Art (5)
- CMST& 101 Introduction to Communications (5)
- CMST& 102 Introduction to Mass Media (5)
- DRMA& 101 Introduction to the Theatre (5)
- DRMA 160 Introduction to Film and Video (5)
- DRMA 165 Digital Movie Making I (5)
- DRMA 166 Digital Movie Making II (5)
- DRMA 167 Digital Movie Making III (5)
- DRMA 170 Technical Film and Theatre I (5)
- DRMA 171 Technical Film and Theatre II (5)
- DRMA 172 Technical Film and Theatre III (5)
- DRMA 280 Production Practicum I (1-3)
- DRMA 281 Production Practicum II (1-3)
- DRMA 282 Production Practicum III (1-3)
- DRMA 283 Production Practicum IV (1-3)
- DRMA 284 Production Practicum V (1-3)
- DRMA 285 Production Practicum VI (1-3)
- MUSC 107 Audio Production I: Beginning (2.5)
- MUSC 108 Audio Production II: Intermediate (2.5)
- PSYC& 100 General Psychology (5)
- SOC& 101 Introduction 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 a Theatre advisor for critical planning.

Filmmaking Emphasis

- ANTH& 100 Survey of Anthropology (5)
- ART 107 Photography, Beginning (5)
- CMST& 102 Introduction to Mass Media (5)
- DRMA 160 Introduction to Film and Video (5)
- DRMA 165 Digital Movie Making I (5)
- DRMA 166 Digital Movie Making II (5)
- DRMA 167 Digital Movie Making III (5)

- DRMA 170 Technical Film and Theatre I (5)
- DRMA 171 Technical Film and Theatre II (5)
- DRMA 172 Technical Film and Theatre III (5)
- DRMA 280 Production Practicum I (1-3)
- DRMA 281 Production Practicum II (1-3)
- DRMA 282 Production Practicum III (1-3)
- DRMA 283 Production Practicum IV (1-3)
- DRMA 284 Production Practicum V (1-3)
- DRMA 285 Production Practicum VI (1-3)
- ENGL 107 Composition III: Writing About Literature (5)
- ENGL& 236 Creative Writing I (5)
- ENGL& 237 Creative Writing II (5)
- ENGL& 238 Creative Writing III (5)
- MUSC 107 Audio Production I: Beginning (2.5)
- MUSC 108 Audio Production II: Intermediate (2.5)
- MUSC 109 Audio Production III: Advanced (2.5)
- PSYC& 100 General Psychology (5)
- SOC& 101 Introduction to Sociology (5)

Additional Theatre Courses

- DRMA 255 Shakespeare Festival (same as ENGL 250) (10)

Economics

Faculty: Tom Phelps, Blake Sorem (FS); Stephen Jones (PY)

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.

University Transfer

Economics Major

Students planning to transfer as economics majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. Economics majors should work closely with a faculty advisor to plan an overall program of study.

Education

Faculty: Dr. Krissy Kim, Angela Merritt, Davida Sharp-Haygood, Leesa Thomas (FS)

Pierce College can prepare you for a variety of careers in the education field and has 2+2 partnerships with universities for transfer. Earn your associate degree in our Early Childhood Education or Math Education degree programs. After earning an associate degree in early childhood education, you can transition into our Bachelor of Applied Science in Teaching program to earn your baccalaureate degree and teacher licensure with early childhood education and early childhood special education endorsements. You can also start at Pierce College and earn an associate of arts degree and then transfer to one of our university partners to study elementary education, special education, secondary education, or become a specialist. This is an exciting time to be in education with plentiful job opportunities.

An I-BEST program is offered in a three-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 General Education Development (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.

Program outcomes can be found at <http://www.pierce.ctc.edu/ece-outcomes>

University Transfer

Math Education (DTA/MRP)

The Associate in Math Education DTA/MRP is designed for students who want to become secondary math teachers. The courses offered within this focus meet the lower division requirements of Washington state four-year institutions. Students are encouraged to work closely with a faculty advisor in selecting, planning and completing educational goals, and should coordinate with the institution to which they intend to transfer.

Degree Outcomes

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 General Transferable Elective (GTE) credits, and 15 General Elective credits.
- ENGL& 101 English Composition I - required
- COLLG 110 College Success required during the first or second quarter of attendance
- Earn the lesser of (at least) 20 college level credits or 25% of the credits applicable to the degree or certificate 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 GTE courses is required unless stated otherwise
- "Pass" (P) grades, independent study and cooperative work experience/work-based learning credits may be used for general elective credits only
- Once a course has been successfully completed, credits earned may be used in only one category

Core Requirements

Communication Skills (10 Credits)

ENGL& 101 requires a 2.0 or higher grade. Second communications course requires a 1.5 or higher grade.

- ENGL& 101 English Composition I (5)

Select one:

- ENGL& 102 Composition II: Argumentation and Research (5)
- ENGL 107 Composition III: Writing About Literature (5)

Quantitative/Symbolic Reasoning Skills (5 Credits)

MATH& 151 requires a 1.5 or higher grade.

- MATH& 151 Calculus I (5)

Humanities (15 Credits)

Requires a 1.5 or higher grade. At least **two** disciplines. No more than **five** credits in world language and no more than **five** credits in performance/skills courses are allowed.

- CMST& 220 Public Speaking (5) required
- ART& 100 Art Appreciation (5)
- ART 105 Introduction to Art (5)
- ART 145 History of Art - Contemporary (5)
- ART 215 Art for Teachers (5)
- ART 243 History of Art – Ancient World Through the Middle Ages (5)
- ART 244 History of Art – Renaissance Through Rococo (5)
- ART 245 History of Art – The Modern World (5)
- ASL& 121 American Sign Language I (5)
- ASL& 122 American Sign Language II (5)
- ASL& 123 American Sign Language III (5)
- ASL& 221 American Sign Language IV (5)
- ASL& 222 American Sign Language V (5)
- ASL& 223 American Sign Language VI (5)
- CMST& 101 Introduction to Communications (5)
- CMST& 102 Introduction to Mass Media (5)
- CMST 105 Intercultural Communication (5)
- CMST& 230 Small Group Communication (5)
- DRMA& 101 Introduction to the Theatre (5)
- DRMA 160 Introduction 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 204 The Bible as Literature (5)
- ENGL 205 Introduction to Mythology (5)
- ENGL 207 Native American Literature (5)
- ENGL 210 Introduction to American Literature (5)
- ENGL 214 Screenwriting I (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& 235 Technical Writing (5)
- ENGL& 236 Creative Writing I (5)
- ENGL& 237 Creative Writing II (5)
- ENGL& 238 Creative Writing 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 249 Creative Writing: Special Projects (5)
- ENGL 264 Literature of U.S. Slavery and Abolition (5)
- ENGL 265 American Literature: Comedy, Humor and Satire (5)
- ENGL 266 Women Writers: Voices from the International Mosaic (5)
- FRCH& 121 French I (5)
- FRCH& 122 French II (5)
- FRCH& 123 French III (5)
- GERM& 121 German I (5)
- GERM& 122 German II (5)
- GERM& 123 German III (5)
- HUM& 101 Introduction 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 120 Introduction to Folklore (5)
- HUM 161 Western Thought and Culture I: The Classical World (5)
- HUM 162 Western Thought and Culture II: The Middle Ages (5)
- HUM 163 Western Thought and Culture III: Birth of the Modern World (5)
- HUM 164 Western Thought and Culture IV: The Modern World (5)
- HUM 204 American Popular Culture (5)
- HUM 209 The Civil Rights Movement: From the Ground Up (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 Japanese I (5)

- JAPN& 122 Japanese II (5)
- JAPN& 123 Japanese III (5)
- JOURN 103 Introduction to Feature Writing (1-5)
- JOURN 125 The Documentary: A Social Force (5)
- KREA& 121 Korean I (5)
- KREA& 122 Korean II (5)
- KREA& 123 Korean III (5)
- MUSC 100 Introduction to Rock & Roll (5)
- MUSC 102 American Popular Music (5)
- MUSC 103 Introduction to Jazz (5)
- MUSC& 105 Music Appreciation (5)
- MUSC 106 World Music (5)
- MUSC& 141 Music Theory I (5)
- MUSC& 142 Music Theory II (5)
- MUSC& 143 Music Theory III (5)
- MUSC& 241 Music Theory IV (5)
- MUSC& 242 Music Theory V (5)
- MUSC& 243 Music Theory VI (5)
- PHIL& 101 Introduction to Philosophy (5)
- PHIL 110 Introduction to Bioethics (5)
- PHIL& 115 Critical Thinking (5)
- PHIL 150 Introduction to Ethics (5)
- PHIL 210 Philosophy of Western Religion (5)
- PHIL 220 Introduction to Eastern Philosophy (5)
- PHIL 230 Contemporary Moral Problems (5)
- RUSS& 121 Russian I (5)
- RUSS& 122 Russian II (5)
- RUSS& 123 Russian III (5)
- SPAN& 121 Spanish I (5)
- SPAN& 122 Spanish II (5)
- SPAN& 123 Spanish III (5)
- SPAN& 221 Spanish IV (5)

Humanities Performance/Skills

- ART 101 Design, Beginning (5)
- ART 102 Design, Intermediate (5)
- ART 107 Photography, Beginning (5)
- ART 111 Drawing, Beginning (5)
- ART 112 Drawing, Intermediate (5)
- ART 113 Drawing, Advanced (5)
- ART 115 3-Dimensional Design (5)
- ART 150 Printmaking, Beginning (5)
- ART 201 Painting, Beginning (5)
- ART 202 Painting, Intermediate (5)
- ART 203 Painting, Advanced (5)
- ART 204 Watercolor, Beginning (5)

- ART 211 Beginning Sculpture (5)
- ART 260 Art in Motion: Real and Recorded (5)
- DRMA 170 Technical Film and Theatre I (5)
- DRMA 171 Technical Film and Theatre II (5)
- DRMA 172 Technical Film and Theatre III (5)
- DRMA 260 Acting for Stage and Digital Film I (5)
- DRMA 261 Acting for Stage and Digital Film II (5)
- DRMA 262 Acting for Stage and Digital Film III (5)
- DRMA 280 Production Practicum I (1-3)
- DRMA 281 Production Practicum II (1-3)
- DRMA 282 Production Practicum III (1-3)
- DRMA 283 Production Practicum IV (1-3)
- DRMA 284 Production Practicum V (1-3)
- DRMA 285 Production Practicum VI (1-3)
- MUSC 126 Beginning Class Guitar (1)
- MUSC 127 Intermediate Class Guitar (1)
- MUSC 144 Concert Choir (2)
- MUSC 147 Chamber Choir (2)
- MUSC 150 College Band (2)
- MUSC 154 College Orchestra (1)
- MUSC 157 Jazz Band (2)
- MUSC 160 Private Instruction: Arranging (1)
- MUSC 161 Private Instruction: Improvisation (1)
- MUSC 162 Private Instruction: Brass (1)
- MUSC 163 Private Instruction: Woodwind (1)
- MUSC 164 Private Instruction: Percussion (1)
- MUSC 165 Private Instruction: Voice (1)
- MUSC 166 Private Instruction: Orchestral Strings (1)
- MUSC 167 Private Instruction: Keyboard (1)
- MUSC 168 Private Instruction: Plectrum Strings (1)
- MUSC 170 Brass Ensemble (1)
- MUSC 171 Woodwind Ensemble (1)
- MUSC 172 Percussion Ensemble (1)
- MUSC 173 String Ensemble (1)
- MUSC 174 Vocal Ensemble (1)
- MUSC 181 Beginning Class Piano (1)
- MUSC 182 Intermediate Class Piano (1)
- MUSC 183 Advanced Class Piano (1)
- MUSC 244 Concert Choir (2)
- MUSC 247 Chamber Choir (2)
- MUSC 250 College Band (2)
- MUSC 254 College Orchestra (1)
- MUSC 257 Jazz Band (2)
- MUSC 260 Private Instruction: Arranging (1)
- MUSC 261 Private Instruction: Improvisation (1)
- MUSC 262 Private Instruction: Brass (1)
- MUSC 263 Private Instruction: Woodwind (1)
- MUSC 264 Private Instruction: Percussion (1)

- MUSC 265 Private Instruction: Voice (1)
- MUSC 266 Private Instruction: Orchestral Strings (1)
- MUSC 267 Private Instruction: Keyboard (1)
- MUSC 268 Private Instruction: Plectrum Strings (1)
- MUSC 270 Brass Ensemble (1)
- MUSC 271 Woodwind Ensemble (1)
- MUSC 272 Percussion Ensemble (1)
- MUSC 273 String Ensemble (1)
- MUSC 274 Vocal Ensemble (1)

Social Sciences (15 Credits)

Requires a 1.5 grade or higher. Credits selected must be from at least **two** disciplines. PSYC& 200 strongly recommended. At least one course in another area other than psychology. Select a multicultural elective by advisement.

- PSYC& 100 General Psychology (5) required
- ANTH& 100 Survey of Anthropology (5)
- ANTH& 104 World Prehistory (5)
- ANTH& 106 The American Mosaic (5)
- ANTH 107 Archaeology of Ancient Civilizations (5)
- ANTH& 204 Archaeology (5)
- ANTH& 205 Biological Anthropology (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 Introduction to Business (5)
- BUS& 201 Business Law (5)
- CJ& 105 Corrections in America (5)
- CJ 112 Criminal Justice in America (5)
- CJ 202 Concepts of Criminal Law (5)
- ECED& 105 Introduction to Early Childhood Education (5)
- ECED 335 Law and Ethics (3)
- ECON 110 Survey of Economics (5)
- ECON& 201 Microeconomics (5)
- ECON& 202 Macroeconomics (5)
- EDUC& 115 Child Development (5)
- GEOG 100 Introduction to Geography (5)
- GEOG 150 The Americas, Australia, Europe and New Zealand (5)
- GEOG 160 Africa, Middle East and Asia (5)
- GEOG 200 Human Geography (5)
- GEOG 207 Economic Geography (5)
- HIST& 126 World Civilizations I (5)
- HIST& 127 World Civilizations II (5)
- HIST& 128 World Civilizations III (5)
- HIST& 156 History of U. S. I (5)
- HIST& 157 History of U. S. II (5)

- HIST& 158 History of U.S. III (5)
- HIST& 159 History of U.S. IV (5)
- HIST 168 Vietnam War as History (5)
- HIST 175 A Brief History of Global Leadership (5)
- HIST& 214 Pacific Northwest History (5)
- HIST 260 History of Russia and the Soviet Union (5)
- HIST 265 History of Latin American Since 1810 (5)
- HIST 266 History of Europe Since 1870 (5)
- HIST 267 History of Africa Since 1800 (5)
- HIST 270 Introduction to the Far East (5)
- HIST 272 Survey of Middle East History (5)
- HIST 277 The Cold War (5)
- HIST 280 Introduction to Chinese Civilization (5)
- HIST 284 Introduction to the Balkans (5)
- HIST 287 History of Japan Since Antiquity (5)
- INTS 107 Introduction 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 in the Modern World (5)
- INTS 300 Social Studies for Teachers (5)
- POLS& 101 Introduction to 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& 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 Intro to Personality (5)
- SOC& 101 Introduction 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 235 Race and Ethnicity (5)

Natural Sciences (15 Credits)

Requires a 1.5 grade or higher. No more than **ten** credits allowed from any **one** discipline. At least **ten** credits in physical, biological and/or earth sciences (i.e., physics, chemistry, geology or biology). Must include **one** lab indicated by ①.

- MATH& 152 Calculus II (5) required
- ANTH& 205 Biological Anthropology (5)
- ① ANTH& 236 Forensic Anthropology (5)

- ASTR& 100 Survey of Astronomy (5)
- ① ASTR& 101 Introduction to Astronomy (5)
- ① ASTR 105 Survey of Astrobiology (5)
- ① ASTR& 110 The Solar System (5)
- ① ASTR& 115 Stars, Galaxies and the Cosmos (5)
- ① ATMOS 101 Introduction to Weather (5)
- ① BIOL& 100 Survey of Biology (5)
- ① BIOL& 160 General Biology w/Lab (5)
- ① BIOL& 170 Human Biology: Anatomy & Physiology (5)
- ① BIOL& 175 Human Biology w/Lab: Anatomy & Physiology (5)
- ① BIOL& 211 Majors: Cellular (5)
- ① BIOL& 212 Majors: Animals (5)
- ① BIOL& 213 Majors: Plant (5)
- ① BIOL& 241 Human Anatomy and Physiology 1 (6)
- ① BIOL& 242 Human Anatomy and Physiology 2 (6)
- ① BIOL& 260 Microbiology (5)
- CHEM& 100 Preparatory Chemistry (5)
- ① CHEM& 110 Chemical Concepts with Lab (5)
- ① CHEM& 121 Intro to Chemistry (5)
- ① CHEM& 131 Intro to Organic/Biochemistry (6)
- CHEM& 139 General Chemistry Prep (5)
- ① CHEM& 161 General Chemistry with Lab I (5)
- ① CHEM& 162 General Chemistry with Lab II (5)
- ① CHEM& 163 General Chemistry with Lab III (5)
- ① CHEM& 261 Organic Chemistry with Lab I (6)
- ① CHEM& 262 Organic Chemistry with Lab II (6)
- CHEM& 263 Organic Chemistry with Lab III (6)
- ENGR 101 Introduction to Engineering (5)
- ENV& 100 Survey of Environmental Science (5)
- ENV& 140 Western Water Problems (5)
- ENV& 150 Environmental Issues (5)
- ① ENV& 155 Applied Environmental Methods (5)
- GEOG 205 Physical Geography (5)
- ① GEOG 210 Physical Geography (5)
- ① GEOL& 101 Introduction to Physical Geology (5)
- ① GEOL& 103 Historical Geology (5)
- ① GEOL 107 Exploring Earth Science (5)
- ① GEOL& 110 Environmental Geology (5)
- ① GEOL& 115 Geology of National Parks (5)
- ① GEOL& 120 Volcanoes (5)
- ① GEOL& 208 Geology of Pacific Northwest (5)
- ① GEOL 220 Earth Resources and the Environment (5)
- ① GEOL 283 Regional Geology (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 Introduction to Statistics (5)
- MATH 147 Business Precalculus (5)
- MATH& 148 Business Calculus (5)
- MATH& 151 Calculus I (5)

Additional Math Requirements (15-20 Credits)

Requires a 1.5 grade or higher.

- MATH& 153 Calculus III (5)
- MATH 205 Linear Algebra (5)
- MATH 224 Multivariate Calculus (5)
- MATH 238 Differential Equations (5) (recommended)

Education Requirements (8-10 Credits)

- EDUC 190 Education Practicum (3-5)
- EDUC& 202 Introduction to Education (5)

General Electives (10 Credits)

Minimum grade of 1.0 is required. 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. A maximum of three physical activity (PE) credits can be applied to this degree.

- COLLG 110 College Success (3) required with a 2.0 or higher grade

Total Credits Required 93-100

Notes

- Students completing this degree will receive the same priority consideration for admission to the baccalaureate institution as they would by completing the direct transfer associate degree and will be given junior status by the receiving institution.
- 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.
- Students should be advised that some baccalaureate institutions require physics with calculus to meet specific pre-major science category.
- Students are responsible for checking specific major requirements of baccalaureate institutions in the year prior to transferring.

Program Code: EDMT

Professional/Technical

Early Childhood Education (AAS-T)

Faculty: Dr. Krissy Kim, Angela Merritt, Leesa Thomas

Early Childhood Education (ECE) 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, family child care homes, cooperative and private nursery schools or preschools, Head Start centers, Early Childhood Education Assistance Programs (ECEAP), and in programs for children with special needs.

The Early Childhood Education program offers two associate degree programs. The Associate in Early Childhood Education is designed to get you a job in an early childhood setting. The Associate in Applied Science-Transfer Degree (AAS-T) in Early Childhood Education is designed to get you a job in an early childhood setting and prepares students for a seamless transition into the Bachelor of Applied Science in Teaching (BAS-T) program. It also offers some limited transfer options to continue on to a bachelor's degree at other universities.

Professional/technical program competencies can be found at www.pierce.ctc.edu/dept/ece/outcomes

Communications (5 Credits)

- ENGL& 101 English Composition I (5)

Quantitative/Symbolic Reasoning Skills (5 Credits)

Choose a course that meets a lab requirement.

- MATH 111 College Math for Early Childhood Education (5)

Humanities (15 Credits)

- ART 215 Art for Teachers (5)
- MUSC 205 Music for Teachers (5)

Select one:

- CMST& 101 Introduction to Communications (5)
- CMST& 220 Public Speaking (5)

Social Science (15 Credits)

- ECED& 105 Introduction to Early Childhood Education (5)
- EDUC& 115 Child Development (5)

Multicultural elective select one:

- ANTH& 106 The American Mosaic (5)
- ANTH& 206 Cultural Anthropology (5)
- SOC& 101 Introduction to Sociology (5)
- SOC& 201 Social Problems (5)
- SOC 211 Family and Intimate Relationships (5)
- SOC 220 Gender Roles in Society (5)

Natural Science (5 Credits)

Choose one of the courses below that meets the lab requirement for Natural Science.

- ANTH& 236 Forensic Anthropology (5)
- ASTR& 101 Introduction to Astronomy (5)
- ASTR 105 Survey of Astrobiology (5)
- ASTR& 110 The Solar System (5)
- ASTR& 115 Stars, Galaxies and the Cosmos (5)
- ATMOS 101 Introduction to Weather (5)
- BIOL& 100 Survey of Biology (5)
- BIOL& 160 General Biology w/Lab (5)
- BIOL& 175 Human Biology w/Lab: Anatomy & Physiology (5)
- BIOL& 211 Majors: Cellular (5)
- BIOL& 212 Majors: Animals (5)
- BIOL& 213 Majors: Plant (5)
- BIOL& 241 Human Anatomy and Physiology 1 (6)
- BIOL& 242 Human Anatomy and Physiology 2 (6)
- BIOL& 260 Microbiology (5)
- CHEM& 110 Chemical Concepts with Lab (5)
- CHEM& 121 Intro to Chemistry (5)
- CHEM& 131 Intro to Organic/Biochemistry (6)
- CHEM& 161 General Chemistry with Lab I (5)
- CHEM& 162 General Chemistry with Lab II (5)
- CHEM& 163 General Chemistry with Lab III (5)
- CHEM& 261 Organic Chemistry with Lab I (6)
- CHEM& 262 Organic Chemistry with Lab II (6)
- ENVS 155 Applied Environmental Methods (5)
- GEOG 210 Physical Geography (5)
- GEOL& 101 Introduction to Physical Geology (5)

- GEOL& 103 Historical Geology (5)
- GEOL 107 Exploring Earth Science (5)
- GEOL& 110 Environmental Geology (5)
- GEOL& 115 Geology of National Parks (5)
- GEOL& 120 Volcanoes (5)
- GEOL& 208 Geology of Pacific Northwest (5)
- GEOL 220 Earth Resources and the Environment (5)
- GEOL 283 Regional Geology (5)
- NSCI 150 Nature (5)
- NSCI 160 Environmental Biology (5)
- NSCI 300 Inquiry Based Science for Teachers (5)
- OCEA& 101 Introduction to Oceanography (5)
- OCEA 170 Marine Biology (5)
- PHYS& 110 Physics for Non-Science Majors (5)
- PHYS& 114 General Physics I (5)
- PHYS& 115 General Physics II (5)
- PHYS& 116 General Physics III (5)
- PHYS& 221 Engineering Physics I (6)
- PHYS& 222 Engineering Physics II (6)
- PHYS& 223 Engineering Physics III (6)
- PS 101 Introduction to Physical Science (5)

ECE Requirements (48 Credits)

- ECED& 107 Health, Nutrition and Safety (5)
- ECED& 120 Practicum: Focus on Relationships (2)
- EDUC& 130 Guiding Behavior (3) *
- EDUC& 150 Child, Family and Community (3)
- ECED& 160 Curriculum Development (5) *
- ECED& 170 Environments for Young Children (3) *
- ECED& 180 Language and Literacy Development (3) *
- ECED& 190 Observation and Assessment (3)
- ECED 200 Introduction to Early Childhood Special Education (5)
- EDUC 223 Practicum: Focus on Special Education (2)
- ECED 225 Math/Science for Children (5) *
- ECED 270 Planning and Assessment for Student Teaching (3)
- ECED 275 Early Childhood Student Teaching (5)
- ECED 280 Early Childhood Education Professional Portfolio (1)

College Success (3 Credits)

- COLLG 110 College Success (3)

Total Credits Required 96

**Prerequisites for ECED 270/ECED 275. Must complete with a minimum grade of 2.0.*

Program code: 402T

Last revision: 2017-18

Early Childhood Education Associate

Early Childhood Education (ECE) 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, family child care homes, cooperative and private nursery schools or preschools, Head Start centers, Early Childhood Education Assistance Programs (ECEAP), and in programs for children with special needs.

The Early Childhood Education program offers two associate degree programs. The Associate in Early Childhood Education is designed to get you a job in an early childhood setting. The Associate in Applied Science-Transfer Degree (AAS-T) in Early Childhood Education is designed to get you a job in an early childhood setting and prepares students for a seamless transition into the Bachelor of Applied Science in Teaching (BAS-T) program. It also offers some limited transfer options to continue on to a bachelor's degree at other universities.

Professional/technical program competencies can be found at www.pierce.ctc.edu/dept/ece/outcomes

General Course Requirements (30 Credits)

Communications (5 Credits)

- ENGL& 101 English Composition I (5)

Computation Reasoning Skills (3 Credits)

- ECED 109 Introduction to Math for Early Childhood Education (3)

Humanities (15 Credits)

- ART 215 Art for Teachers (5)
- MUSC 205 Music for Teachers (5)

Select one:

- CMST& 101 Introduction to Communications (5)

- CMST& 220 Public Speaking (5)

Social Science (15 Credits)

- ECED& 105 Introduction to Early Childhood Education (5)
- EDUC& 115 Child Development (5)

Multicultural elective select one:

- ANTH& 106 The American Mosaic (5)
- ANTH& 206 Cultural Anthropology (5)
- SOC& 101 Introduction to Sociology (5)
- SOC& 201 Social Problems (5)
- SOC 211 Family and Intimate Relationships (5)
- SOC 220 Gender Roles in Society (5)

Natural Science (5 Credits)

Choose a course below that meets the lab requirement for Natural Science.

- ANTH& 236 Forensic Anthropology (5)
- ASTR& 101 Introduction to Astronomy (5)
- ASTR 105 Survey of Astrobiology (5)
- ASTR& 110 The Solar System (5)
- ASTR& 115 Stars, Galaxies and the Cosmos (5)
- ATMOS 101 Introduction to Weather (5)
- BIOL& 100 Survey of Biology (5)
- BIOL& 160 General Biology w/Lab (5)
- BIOL& 175 Human Biology w/Lab: Anatomy & Physiology (5)
- BIOL& 211 Majors: Cellular (5)
- BIOL& 212 Majors: Animals (5)
- BIOL& 213 Majors: Plant (5)
- BIOL& 241 Human Anatomy and Physiology 1 (6)
- BIOL& 242 Human Anatomy and Physiology 2 (6)
- BIOL& 260 Microbiology (5)
- CHEM& 110 Chemical Concepts with Lab (5)
- CHEM& 121 Intro to Chemistry (5)
- CHEM& 131 Intro to Organic/Biochemistry (6)
- CHEM& 161 General Chemistry with Lab I (5)
- CHEM& 162 General Chemistry with Lab II (5)
- CHEM& 163 General Chemistry with Lab III (5)
- CHEM& 261 Organic Chemistry with Lab I (6)
- CHEM& 262 Organic Chemistry with Lab II (6)
- CHEM& 263 Organic Chemistry with Lab III (6)
- ENVS 155 Applied Environmental Methods (5)

- GEOG 210 Physical Geography (5)
- GEOL& 101 Introduction to Physical Geology (5)
- GEOL& 103 Historical Geology (5)
- GEOL 107 Exploring Earth Science (5)
- GEOL& 110 Environmental Geology (5)
- GEOL& 115 Geology of National Parks (5)
- GEOL& 120 Volcanoes (5)
- GEOL& 208 Geology of Pacific Northwest (5)
- GEOL 220 Earth Resources and the Environment (5)
- GEOL 283 Regional Geology (5)
- NSCI 150 Nature (5)
- NSCI 160 Environmental Biology (5)
- NSCI 300 Inquiry Based Science for Teachers (5)
- OCEA& 101 Introduction to Oceanography (5)
- OCEA 170 Marine Biology (5)
- PHYS& 110 Physics for Non-Science Majors (5)
- PHYS& 114 General Physics I (5)
- PHYS& 115 General Physics II (5)
- PHYS& 116 General Physics III (5)
- PHYS& 221 Engineering Physics I (6)
- PHYS& 222 Engineering Physics II (6)
- PHYS& 223 Engineering Physics III (6)
- PS 101 Introduction to Physical Science (5)

Early Childhood Education Requirements (48 Credits)

- ECED& 107 Health, Nutrition and Safety (5)
- ECED& 120 Practicum: Focus on Relationships (2)
- EDUC& 130 Guiding Behavior (3) *
- EDUC& 150 Child, Family and Community (3)
- ECED& 160 Curriculum Development (5) *
- ECED& 170 Environments for Young Children (3) *
- ECED& 180 Language and Literacy Development (3) *
- ECED& 190 Observation and Assessment (3)
- ECED 200 Introduction to Early Childhood Special Education (5)
- EDUC 223 Practicum: Focus on Special Education (2)
- ECED 225 Math/Science for Children (5) *
- ECED 270 Planning and Assessment for Student Teaching (3)
- ECED 275 Early Childhood Student Teaching (5)
- ECED 280 Early Childhood Education Professional Portfolio (1)

College Success (3 Credits)

- COLLG 110 College Success (3)

Total Credits Required 93

**Prerequisites for ECED 270/ECED 275. Must complete with a minimum grade of 2.0.*

Program code: 402

Last revision: 2017-18

State Early Childhood Education Certificate

The State Early Childhood Education Certificates are part of the Integrated Basic Education and Skills Training (I-BEST) which is open to all Pierce College Adult Diploma (PCAD), Adult Basic Education (ABE), General Education Development (GED), English as a Second Language (ESL), and pre-college level adult learners. I-BEST programs provide high 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, Business Information 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

Professional/technical program competencies can be found at www.pierce.ctc.edu/dept/ece/outcomes

General Education Requirements (21-23 Credits)

College Success (3 Credits)

- COLLG 110 College Success (3)

Communications (5 Credits)

- ENGL& 101 English Composition I (5)

Computation/Quantitative/Symbolic Reasoning Skills (3-5 Credits)

Select one:

- ECED 109 Introduction to Math for Early Childhood Education (3)
- MATH 111 College Math for Early Childhood Education (5)

Early Childhood Education Requirements (27 Credits)

- ECED& 105 Introduction to Early Childhood Education (5)
- ECED& 107 Health, Nutrition and Safety (5)
- EDUC& 115 Child Development (5)
- ECED& 120 Practicum: Focus on Relationships (2)
- EDUC& 130 Guiding Behavior (3)
- EDUC& 150 Child, Family and Community (3)
- ECED& 160 Curriculum Development (5)
- ECED& 170 Environments for Young Children (3)
- ECED& 180 Language and Literacy Development (3)
- ECED& 190 Observation and Assessment (3)

Total Credits Required 48-50

Program code: 46E

Last revision: 2016-17

State Initial Early Childhood Education Certificate

The State Early Childhood Education Certificates are part of the Integrated Basic Education and Skills Training (I-BEST) which is open to all Pierce College Adult Diploma (PCAD), Adult Basic Education (ABE), General Education Development (GED), English as a Second Language (ESL), and pre-college level adult learners. I-BEST programs provide high 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, Business Information 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

Professional/technical program competencies can be found at www.pierce.ctc.edu/dept/ece/outcomes

Course Requirements (12 Credits)

- ECED& 105 Introduction to Early Childhood Education (5)

- ECED& 107 Health, Nutrition and Safety (5)
- ECED& 120 Practicum: Focus on Relationships (2)

Total Credits Required (12)

Program code: 40E

Last revision: 2016-17

State Short Early Childhood Education Certificate of Specialization - Administration

Course Requirements (20 Credits)

- ECED& 105 Introduction to Early Childhood Education (5)
- ECED& 107 Health, Nutrition and Safety (5)
- EDUC& 115 Child Development (5)
- ECED& 120 Practicum: Focus on Relationships (2)
- ECED& 139 Administration of Early Learning (3)

Total Credits Required 20

Program code: 45E

Last revision: 2016-17

State Short Early Childhood Education Certificate of Specialization - Family Child Care

Course Requirements (20 Credits)

- ECED& 105 Introduction to Early Childhood Education (5)

- ECED& 107 Health, Nutrition and Safety (5)
- EDUC& 115 Child Development (5)
- ECED& 120 Practicum: Focus on Relationships (2)
- ECED& 134 Family Child Care (3)

Total Credits Required 20

Program code: 44E

Last revision: 2016-17

State Short Early Childhood Education Certificate of Specialization - General

The State Early Childhood Education Certificates are part of the Integrated Basic Education and Skills Training (I-BEST) which is open to all Pierce College Adult Diploma (PCAD), Adult Basic Education (ABE), General Education Development (GED), English as a Second Language (ESL), and pre-college level adult learners. I-BEST programs provide high 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, Business Information 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

Professional/technical program competencies can be found at www.pierce.ctc.edu/dept/ece/outcomes

Course Requirements (20 Credits)

- ECED& 105 Introduction to Early Childhood Education (5)
- ECED& 107 Health, Nutrition and Safety (5)
- EDUC& 115 Child Development (5)
- ECED& 120 Practicum: Focus on Relationships (2)
- EDUC& 130 Guiding Behavior (3)

Total Credits Required 20

Program code: 41E

Last revision: 2016-17

State Short Early Childhood Education Certificate Of Specialization - Infants and Toddlers

Course Requirements (20 Credits)

- ECED& 105 Introduction to Early Childhood Education (5)
- ECED& 107 Health, Nutrition and Safety (5)
- EDUC& 115 Child Development (5)
- ECED& 120 Practicum: Focus on Relationships (2)
- ECED& 132 Infants and Toddlers (3)

Total Credits Required 20

Program code: 42E

Last revision: 2016-17

State Short Early Childhood Education Certificate of Specialization - School Age Care

Course Requirements (20 Credits)

- ECED& 105 Introduction to Early Childhood Education (5)
- ECED& 107 Health, Nutrition and Safety (5)
- EDUC& 115 Child Development (5)
- ECED& 120 Practicum: Focus on Relationships (2)
- EDUC& 136 School Age Care (3)

Total credits required 20

Program code: 43E

Last revision: 2016-17

Teaching (BAS-T)

Faculty: Dr. Krissy Kim, Angela Merritt, Leesa Thomas (FS)

The need for certificated teachers and baccalaureate prepared early childhood educators continues to grow in Washington State. The Bachelor of Applied Science in Teaching builds on our strong professional technical program in early childhood education. With an Associate of Applied Science-Transferable (AAS-T) degree in ECE, graduate can seamlessly transition into the BAS-T program which is designed to prepare students to teach in a variety of setting serving children ages prenatal through third grade. This degree leads to a Washington State Residency Certificate and both P-3 endorsements in Early Childhood Education (ECE) and Early Childhood Special Education (ECSE).

To apply for the program, students must have an early childhood associate degree or demonstrate competency of the AAS-T program outcomes with a minimum of 90 college level credits including 40 core credits in English, math, social sciences, humanities, and natural sciences. They must complete the BAS-T application (see BAS-T website for application deadlines), provide evidence of good moral character and personal fitness as required by law, and meet the entry testing requirements outlined below.

ENTRY TESTING

All teacher candidates are required to demonstrate proficiency in reading, writing and math prior to acceptance into a teacher preparation program in the State of Washington. This can be accomplished through the Washington Educator Skills Test-Basic (WEST-B), the SAT or ACT. Candidates entering a Washington approved teaching preparation program may substitute a passing score on one or more sections of the SAT or ACT for the equivalent passing scores on the WEST-B. The adopted passing scores for SAT and ACT are listed below.

CUT SCORE COMPARISON TABLE

Subject	WEST-B	SAT (prior to 3/1/16)	SAT (prior to 3/1/16)	ACT (prior to 9/15/15)	ACT (prior to 9/15/15)
Math	240	515	530	22	22
Reading	240	500	27	22	22
Writing	240	490	28	8	23

More information on the WEST-B, including how to register for the exams, can be found on the West-B Testing website.

In the event that there are more applicants who meet the entry requirements than spaces available in the cohort of 24, a committee will evaluate the applications to rank them for admission into the program.

Once enrolled in the program, students will complete 45 credits of coursework. This coursework prepares them for the required content exams for endorsements in Washington State. There are two exams required:

The Washington Educator Skills Test- Endorsement (WEST-E) in Early Childhood Special Education (071) and the National Evaluation Series (NES) in Early Childhood Education (101)

Students earn the remaining 45 credits for a bachelor degree by completing a one-year residency in the public school system. During the winter residency, students must submit their edTPA , which is a performance-based, portfolio assessment required for teacher licensure in Washington State.

Successful completion of coursework earns graduates a BAS-T. Successful completion of coursework with a minimum of a 2.0 grade in all ECED courses plus passing scores of the WEST-E, NES, and edTPA earn graduates a Residency Certificate and endorsements in ECE and ECSE.

Graduates of this program are well qualified for employment in a variety of general and special education settings such as primary schools, preschools, child care programs, Head Start, Early Head Start, ECEAP, home visiting, early intervention programs, etc. They are also eligible for admission into graduate programs to continue their study of early childhood education or educational leadership.

Bachelor of Applied Science in Teaching (BAS-T)

Early Childhood Education Requirements (69 Credits)

- ECED 307 Health and Fitness (2)
- ECED 325 Advanced Math Methods (3)
- ECED 340 Assessment and Evaluation (5)
- ECED 365 Observations, Documentation and Monitoring (3)
- ECED 370 Adapations, Modifications and Planning (5)
- ECED 385 Advanced Language and Literacy Methods (3)
- ECED 395 Collaboration and Supervision (3)
- ECED 479 Fall Residency (15)
- ECED 489 Winter Residency (15)
- ECED 499 Spring Residency (15)

Communications (5 Credits)

- ENGL& 102 Composition II: Argumentation and Research (5)

Social Science (11 Credits)

- ECED 335 Law and Ethics (3)
- ECED& 355 Social and Political Context of Early Childhood Education (3)
- INTS 300 Social Studies for Teachers (5)

Natural Science (5 Credits)

- NSCI 300 Inquiry Based Science for Teachers (5)

Total Credits Required 90

Program code: TBA

Last revision: 2016-17

Emergency Medical Services

Contact: YuVonne Bailey

The field of Emergency Medical Services (EMS) involves a range of occupations in the medical and emergency services. It can serve as an entry to health careers such as Emergency Medical Technician (EMT), Paramedic, Nurse or other health professions. Basic EMT certification is often required for positions in fire departments, private ambulances and may be required for staff at correctional facilities and other security positions. The EMS program at Pierce College is designed for both civilian and military students. Some military students seek this training for their own educational benefits. In addition, units value this training because it enhances unit capabilities especially during deployment. For military students leaving the military, this training facilitates their transition into the civilian work force or into educational programs leading to careers in health care profession. For civilian students, completion of this course will enable you to be employed in many different health care related fields referenced above. Pierce College's Emergency Medical Services Certificate (EMS) program prepares students for the National Registry of Emergency Medical Technicians (NREMT) certification examination, which results in an Emergency Medical Technician (EMT) certificate. Applicants must have a current CPR card, either through American Heart Association (Healthcare Provider) or Red Cross (Professional Rescuer) prior to starting the program. A list of CPR locations is available upon request. For more information, call (253) 964-6556.

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

Professional/Technical

Emergency Medical Services Certificate

Emergency Medical Services Requirements (44-48 Credits)

- EMT 210 Emergency Medical Technician I (5)
- EMT 211 Emergency Medical Technician II (5)
- EMT 212 Emergency Medical Technician III (5)
- BIOL& 170 Human Biology: Anatomy & Physiology (5)
- COLLG 110 College Success (3)
- CMST& 220 Public Speaking (5)
- ENGL& 101 English Composition I (5)
- MATH& 146 Introduction to Statistics (5)

- PSYC& 100 General Psychology (5)

One of the following courses:

- EMT 260 Emergency Medical Services (1-5)
- MNGT 130 Customer Relationship Management (5)

Total Credits Required 44-48

Program code: 364C

Last revision: 2016-17

Engineering

Faculty: Alan Man (PY)

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 Introduction to Engineering (5).

University Transfer

Engineering Major

This planning sheet lists only the courses related to the engineering major. Students planning to transfer as engineering majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. Students could also follow the Associate of Science (AS-T) Degree Track 2 or the Associate of Arts - Option B. Engineering majors should work closely with a faculty advisor to plan an overall program of study.

Engineering Major

The following courses are recommended as being of special interest to engineering students.

- CHEM& 161 General Chemistry with Lab I (5)
- CHEM& 162 General Chemistry with Lab II (5)
- ENGL& 235 Technical Writing (5)
- ENGR 101 Introduction to Engineering (5)
- ENGR& 114 Engineering Graphics (5) (CAD)
- 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 Burnnemer, Denise Hartley, Jason Loan, Leslie Michael, Vicki Scannell, Curt Warmington, Corinna Wycoff (FS); Erin Latona (JBLM); Courtney Edwards, Lisa Hurtado, Way Jeng, Duncan McClinton, Ann Salak, Elizabeth Stevens, Alison Walker Stromdahl (PY)

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 the 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.

Pre-College Writing Courses

These prepare students for college-level writing.

- ENGL 095 English Accelerated Learning Program Lab
- ENGL 098 Basic Writing Skills (5)
- ENGL 099 Introduction to Composition (5)

Accelerated Learning Program

Students in ENGL 098 and ENGL 099 are also enrolled in an English support class (ENGL 095), and have the opportunity to earn credit for a class one level higher than the one in which they enroll. The determination of whether the student receives this higher credit is based on fulfilling course outcomes and the professor's assessment of the student's performance in the class.

College-Level Writing

These are required by many college programs and degrees.

- ENGL& 101 English Composition I (5)
- ENGL& 102 Composition II: Argumentation and Research (5)
- ENGL 107 Composition III: Writing About Literature (5)

Creative Writing Courses

The English Department offers an array of Creative Writing Courses.

- ENGL 214 Screenwriting I (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)
- ENGL 257 Advanced Creative Writing (3)

University Transfer

English Major

This planning sheet lists only the courses related to the English major. Students planning to transfer as English majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. English majors should work closely with a faculty advisor to plan an overall program of study.

English Major

These courses are not intended to describe the requirements for English majors, but are offered as recommendations as schedules allow.

Literature Emphasis

- 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 204 The Bible as Literature (5)
- ENGL 205 Introduction to Mythology (5)
- ENGL 210 Introduction 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: Comedy, Humor and Satire (5)
- ENGL 266 Women Writers: Voices from the International Mosaic (5)

Composition Emphasis

- ENGL& 102 Composition II: 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)

Other Programs

Pierce College Endorsement For Written Communication

Students may earn an endorsement for written communication by completing a total of twenty-three 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.

Core Courses (10 Credits)

Must be completed with a grade of 2.0 or better.

- ENGL& 101 English Composition I (5)

and select one of the following:

- ENGL& 102 Composition II: Argumentation and Research (5)
- ENGL 107 Composition III: Writing About Literature (5)

- ENGL& 235 Technical Writing (5)

Elective Courses (10 Credits)

Must be completed with a grade of 2.0 or better. Complete an additional ten credits (two classes) from the remaining composition courses. Courses may not be repeated for credits.

- ENGL& 102 Composition II: Argumentation and Research (5)
- ENGL 107 Composition III: Writing About Literature (5)
- ENGL& 235 Technical Writing (5)

Capstone Course (3 Credits)

Must be completed with a grade of 3.0 or better.

- ENGL 256 Advanced Composition - Portfolio (3)

Total Credits Required 23

Environmental Science

Faculty: Megan Hess, Robert Johnson, Beth Norman (FS), Tom Bush, Nicholas (Max) Handler (PY)

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 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.

University Transfer

Environmental Science Major

This planning sheet lists only the courses related to the environmental science major. Students planning to transfer as environmental science majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students could also follow the Associate of Science (AS-T) Degree Track 1. Students should check with the transfer institution regarding specific requirements and transferable credits. Environmental science majors should work closely with a faculty advisor to plan an overall program of study.

Recommended Courses

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

Contact: Robert Lord (FS)

The Fire Command and Administration degree requires students to be currently working in fire service. The two-year Associate degree was developed as a collaborative program between Pierce College and Bates Technical College. Courses are shared between the two colleges and are offered exclusively online.

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 grade of 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/fire-command-outcomes.

Professional/Technical

Fire Command and Administration Associate

General Requirements (28 Credits)

- BTECA 117 Business Mathematics (5)
- COLLG 110 College Success (3)
- CMST& 101 Introduction to Communications (5)
- ENGL& 101 English Composition I (5)
- PS 101 Introduction to Physical Science (5)
- PSYC& 100 General Psychology (5)

Fire Command and Administration Requirements (51 Credits)

- FCA 120 Basic Fire Investigation (3)
- FCA 132 Technical Writing for Fire Service (3)
- FCA 155 Fire Instructor I (3)
- FCA 157 Public Information Officer (2)
- FCA 160 Tactics I (2)
- FCA 173 Fire Service and Response to Terrorism (5)
- FCA 180 Fire Administration (3)
- FCA 195 Fire Officer I (4)
- FCA 259 Legal Aspects of Fire Service (3)
- FCA 260 Basic Incident Command System/National Incident Management System (2)
- FCA 261 Hazardous 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)

Electives (14 Credits)

- FCA 137 Introduction 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 H2O 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)
- Emergency Medical Technician - Basic*

Total Credits Required 93

**Valid Basic Emergency Medical Technician Certification would satisfy as an elective. Please contact the coordinator for more information.*

Program code: 829

Last revision: 2016-17

Geography

Faculty: Nicholas "Max" Handler, Chris Vanneson (PY)

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.

University Transfer

Geography Major

Geography Major

This planning sheet lists only the courses related to the geography major. Students planning to transfer as geography majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students can also follow the Associate of Science (AS-T) Degree Track 1. Students should check with the transfer institution regarding specific requirements and transferable credits. Geography majors should work closely with a faculty advisor to plan an overall program of study.

There are no prerequisites for geography classes at Pierce College. Course options include:

- GEOG 100 Introduction to Geography (5)
- GEOG 150 The Americas, Australia, Europe and New Zealand (5)
- GEOG 160 Africa, Middle East and Asia (5)
- GEOG 200 Human Geography (5)
- GEOG 205 Physical Geography (5)
- GEOG 207 Economic Geography (5)
- GEOG 210 Physical Geography (5) - Lab

Geology

Faculty: Beth Norman (FS); Tom Bush (PY)

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 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.

University Transfer

Geology Major

Geology Major

This planning sheet lists only the courses related to the geology major. Students planning to transfer as geology majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. Geology majors should work closely with a faculty advisor to plan an overall program of study.

The following courses should be taken.

- CHEM& 161 General Chemistry with Lab I (5)
- CHEM& 162 General Chemistry with Lab II (5)
- CHEM& 163 General Chemistry with Lab III (5)
- GEOL& 101 Introduction 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 Calculus I (5)
- MATH& 152 Calculus II (5)
- MATH& 153 Calculus III (5)
- PHYS& 221 Engineering Physics I (6)
- PHYS& 222 Engineering Physics II (6)
- PHYS& 223 Engineering Physics III (6)

Health Professions

(AA-DTA) Requirements

(AS-T) Degree Track 1 Requirements

(AS-T) Track 2 Requirements

Faculty: Mary Bath-Balogh, Robert Johnson, Lisa Murray (FS) Dr. Dale Blum, Joseph Cates-Carney, Dr. Scott Sweet (PY)

Coursework for health professions can be incorporated within a variety of transfer degree options. These options include, but are not limited to:

Pre-Chiropractic

Pre-Dentistry

Pre-Medical Technology

Pre-Medicine

Pre-Naturopathy

Pre-Nutrition

Pre-Occupational Therapy

Pre-Osteopathy

Pre-Pharmacy

Pre-Physician's Assistant/Medex

Pre-Physical Therapy

Pre-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.

Health/Physical Education

Faculty: Lisa Murray (FS)

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 toward 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.

There is a **three** credit maximum for PE activity courses in the DTA degrees.

University Transfer

Health/Physical Education Major

This planning sheet lists only the courses related to the health/physical education major. Students planning to transfer as health/physical education majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should

check with the transfer institution regarding specific requirements and transferable credits. Health/Physical education majors should work closely with a faculty advisor to plan an overall program of study.

Recommended Courses

- BIOL& 160 General Biology w/Lab (5)
- BIOL& 241 Human Anatomy and Physiology 1 (6)
- BIOL& 242 Human Anatomy and Physiology 2 (6)
- CHEM& 100 Preparatory Chemistry (5)
- CMST& 220 Public Speaking (5)
- ENGL& 101 English Composition I (5)
- HSCI 210 Wellness (5)
- HSCI 228 CPR for the Professional Rescuer, with First Aid and Blood Borne Pathogens (2)
- NUTR& 101 Nutrition (5)
- PE 119-PE 271 Physical Education Activity 1-2
- PSYC& 100 General Psychology (5)
- SOC& 101 Introduction to Sociology (5)

History

Faculty: John Simpson (FS); Dr. John Lucas, Chris Vanneson (PY)

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 at 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 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.

University Transfer

History Major

History Major

This planning sheet lists only the courses related to the history major. Students planning to transfer as history majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. History majors should work closely with a faculty advisor to plan an overall program of study.

The following courses should be taken:

- HIST& 126 World Civilizations I (5)
- HIST& 127 World Civilizations II (5)
- HIST& 128 World Civilizations III (5)
- HIST& 156 History of U. S. I (5)
- HIST& 157 History of U. S. II (5)
- HIST& 158 History of U.S. III (5)

More specialized history courses, without prerequisites, include:

- HIST& 159 History of U.S. IV (5)
- HIST 168 Vietnam War as History (5)
- HIST 260 History of Russia and the Soviet Union (5)
- HIST& 214 Pacific Northwest History (5)
- HIST 270 Introduction to the Far East (5)
- HIST 272 Survey of Middle East History (5)
- HIST 277 The Cold War (5)
- HIST 280 Introduction to Chinese Civilization (5)
- HIST 284 Introduction to the Balkans (5)

Note:

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 College.

Homeland Security Emergency Management

Contact: John Pennington (FS)

The Homeland Security Emergency Management (HSEM) Associate degree and certificate 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 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 program addresses competencies required of emergency management professionals in careers in government, private industry and non-profit sectors. 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.

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 Homeland Security Emergency Management degree will develop the students' competencies to prepare for and respond to all hazard environments, and includes an understanding of socioeconomic and cultural diversity issues.

Pierce College also offers a Bachelor of Applied Science in Homeland Security Emergency Management degree program. This leadership and management degree program is part of a guided career pathway designed to prepare students to become 21st

century emergency management professionals. The HSEM program is taught primarily online to train adults to oversee all-hazard emergency planning and training programs, coordinate disaster planning, and coordinate response and recovery efforts.

Traditional career pathways into emergency management jobs have evolved, and an industry need for HSEM professionals with complex, cross-functional jobs requires new skill sets. There is a growing need in all sectors of the community for agile career professionals who understand the complex nature of emergency preparedness, disaster management and homeland security, including cyber security.

Recognition of the need for whole community involvement has led to the growth of professional homeland security and emergency management careers with a myriad of titles found in both the public and private sectors.

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

Professional/Technical

Homeland Security Emergency Management (AT)

General Requirements (40 Credits)

Students must earn a minimum grade of 2.0 in each course to earn this degree.

Communications (10 Credits)

- ENGL& 101 English Composition I (5)
- ENGL& 235 Technical Writing (5)

Quantitative/Symbolic Reasoning Skills (5 Credits)

- MATH& 146 Introduction to Statistics (5)

Social Sciences (10 Credits)

- PSYC& 100 General Psychology (5)

Select one:

- HIST& 158 History of U.S. III (5)
- POLS& 101 Introduction to Political Science (5)
- POLS& 203 International Relations (5)
- POLS 230 State and Local Government (5)

Humanities (5 Credits)

Select one:

- CMST& 101 Introduction to Communications (5)
- CMST& 102 Introduction to Mass Media (5)
- CMST 105 Intercultural Communication (5)
- CMST& 220 Public Speaking (5)
- CMST& 230 Small Group Communication (5)

Natural Sciences (10 Credits)

Select two:

- ATMOS 101 Introduction to Weather (5)
- ENV&S 100 Survey of Environmental Science (5)
- ENV&S 150 Environmental Issues (5)
- GEOG 210 Physical Geography (5)
- GEOL& 110 Environmental Geology (5)

HSEM Core Requirements (44-48 Credits)

- COLLG 110 College Success (3)
- HSEM 102 Introduction to Emergency Management (5) *
- HSEM 110 Basic Incident Command System/National Incident Management System (2) *
- HSEM 120 All Hazards Emergency Planning (3) *
- 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 190 Homeland Security Emergency Management Special Topics (1-5) **/*
- 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 Homeland Security Emergency Management Work-Based Learning (5)
- HSEM 250 Homeland Security Law and Ethics (3)

HSEM Electives (15 Credits)

- BTECA 110 Microsoft Word: Prepare and Edit Documents (1)
- BTECA 111 Microsoft Word: Enhance and Customize Documents (1)
- BTECA 112 Microsoft Word: Create Tables and Merge Documents (1)
- BTECA 121 Microsoft Excel: Prepare Format Basic Worksheets (1)
- BTECA 122 Microsoft Excel: Insert Formulas and Enhancements (1)
- BTECA 123 Microsoft Excel: Create Charts and Diagrams (1)
- BTECA 130 Microsoft PowerPoint: Create and Modify a Powerpoint Presentation (1)
- BTECA 131 Microsoft PowerPoint: Format and Add Visual Element (1)
- BTECA 132 Microsoft PowerPoint: Customize and Share a Presentation (1)
- BTECA 250 Business Communications (5)
- CJ& 105 Corrections in America (5)
- CJ 112 Criminal Justice in America (5)
- CJ 120 Constitutional Rights (5)
- CJ 150 Policing in America (5)
- CJ 226 Criminal Justice Response to Terrorism (5)
- ENGL& 102 Composition II: Argumentation and Research (5)
- HSEM 190 Homeland Security Emergency Management Special Topics (1-5) **
- INTS 150 Contemporary Rebel, Secessionist and Terrorist Organizations (5)
- MNGT 186 Professional Development (5)
- MNGT 283 Principles of Management (5)
- OSH 100 Introduction to Occupational Safety and Health (5)
- OSH 110 Safety Management (5)
- OSH 190 Industrial Security (3)
- OSH 240 Handling Hazardous Materials (4)

Total Credits Required 99-103

* Indicates HSEM certificate (24 - 28 credits) Students must earn a minimum grade of 2.0 in each HSEM course to obtain this degree.

**HSEM 190 - Special Topics has a different topic each quarter (represented by changing letter designation) and may be repeated. The first time applies towards the Core Requirements and additional HSEM 190 courses apply toward electives.

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 advisor.

Program code: 966

Last revision: 2016-17

Homeland Security Emergency Management (BAS/HSEM)

The Bachelor of Applied Science in Homeland Security Emergency Management is an online multi-disciplinary management level program designed to train the next generation of adaptive leaders to work collaboratively across industry sectors and interact with each other to produce a synchronized plan for a whole community response to emergencies, disasters or catastrophic events. Homeland Security Emergency Management is a cross-functional industry that requires managers and leaders that have the ability to think through multiple systems, processes, and relationships to analyze how various public, private, and non-profit organizations function. Courses are based on industry established competencies in leadership, planning, systems thinking, disaster communications, ethics and legal issues, cultural diversity, information management, financial and budget systems, and risk assessment and management. The degree includes an internship opportunity to apply skills and knowledge acquired through classroom study in a industry setting.

General Requirements (3 Credits)

Students must earn a minimum grade of 2.0 in each course to earn this degree.

- COLLG 110 College Success (3)

Communications (15 Credits)

- ENGL& 101 English Composition I (5)
- ENGL& 102 Composition II: Argumentation and Research (5)
- ENGL& 235 Technical Writing (5)

Quantitative/Symbolic Reasoning Skills (5 Credits)

- MATH& 146 Introduction to Statistics (5)

Humanities (10 Credits)

Select one:

- CMST& 101 Introduction to Communications (5)
- CMST 105 Intercultural Communication (5)
- CMST& 220 Public Speaking (5)

Select one:

- HUM 106 Ethnic Thought and Culture (5)
- HUM 240 World Religions (5)

Social Sciences (10 Credits)

- PSYC& 100 General Psychology (5)

Select one:

- ECON& 201 Microeconomics (5)
- ECON& 202 Macroeconomics (5)
- HIST& 158 History of U.S. III (5)
- POLS& 101 Introduction to Political Science (5)
- POLS& 203 International Relations (5)
- POLS 230 State and Local Government (5)

Natural Sciences (10 Credits)

Select two: one must be a lab

- ATMOS 101 Introduction 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)

Additional General Requirements (15 Credits)

Select three:

- CMST& 102 Introduction to Mass Media (5)
- INTS 150 Contemporary Rebel, Secessionist and Terrorist Organizations (5)
- INTS 164 Border and Genocidal Conflicts in the Modern World (5)
- POLS& 202 American Government (5)

HSEM Core Requirements (120-124 Credits)

- BUS 260 Project Management I: Planning (5)
- BUS 261 Project Management II: Managing (5)
- HSEM 102 Introduction to Emergency Management (5)
- HSEM 110 Basic Incident Command System/National Incident Management System (2)
- HSEM 120 All Hazards Emergency Planning (3)

- 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 190 Homeland Security Emergency Management Special Topics (1-5)
- 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 Homeland Security Emergency Management Work-Based Learning (5)
- HSEM 250 Homeland Security Law and Ethics (3)
- HSEM 330 Risk Assessment for Homeland Security Emergency Management (5)
- HSEM 340 Effective Organizational Communication and Public Speaking (4)
- HSEM 357 External Affairs for Emergency Management (5)
- HSEM 360 Leadership in Homeland Security Emergency Management (5)
- HSEM 365 Systems Thinking and Individual Leadership (5)
- HSEM 370 Continuity Planning for Business and Government (5)
- HSEM 380 Risk Reduction for Homeland Security Emergency Management (5)
- HSEM 410 Ethics and Diversity in Homeland Security Emergency Management (5)
- HSEM 420 Technology and Cybersecurity in Homeland Security Emergency Management (5)
- HSEM 430 Legal Issues in Homeland Security Emergency Management (5)
- HSEM 440 Geographic Information Systems (GIS) for Homeland Security Emergency Management (3)
- HSEM 449 Professional Development Seminar (2)
- HSEM 450 Workbased Learning for Homeland Security Emergency Management (5)
- HSEM 460 Research Methods in Homeland Security Emergency Management (5)
- HSEM 470 Homeland Security Emergency Management Capstone Project (5)

Total Credits Required 188-192

Program code: 96B

Last revision: 2016-17

Homeland Security Emergency Management Certificate

Course Requirements (24-28 Credits)

Students must earn a minimum grade of 2.0 in each course to earn this certificate.

- HSEM 102 Introduction to Emergency Management (5)
- HSEM 110 Basic Incident Command System/National Incident Management System (2)

- HSEM 120 All Hazards Emergency Planning (3)
- 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 190 Homeland Security Emergency Management Special Topics (1-5) **

Total Credits Required 24-28

**HSEM 190 - Special Topics has a different topic each quarter (represented by changing letter designation) and may be repeated.

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 advisor.

Program code: 966C

Last revision: 2016-17

Humanities

Faculty: Kristin Brunnemer, Denise Hartley, Jason Loan, Leslie Michael, Vicki Scannell, Curt Warmington, Corrina Wycoff (FS); Erin Latona (JBLM); Courtney Edwards, Lisa Hurtado, Way Jeng, Duncan McClinton, Ann Salak, Elizabeth Stevens, Alison Walker Stromdahl (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.

University Transfer

Humanities Major

Humanities Courses

This planning sheet lists only the courses related to the humanities major. Students planning to transfer humanities majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. Humanities majors should work closely with a faculty advisor to plan an overall program of study.

- HUM& 101 Introduction 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 120 Introduction to Folklore (5)
- HUM 161 Western Thought and Culture I: The Classical World (5)
- HUM 162 Western Thought and Culture II: The Middle Ages (5)
- HUM 163 Western Thought and Culture III: Birth of the Modern World (5)
- HUM 164 Western Thought and Culture IV: The Modern World (5)
- HUM 204 American Popular Culture (5)
- HUM 209 The Civil Rights Movement: From the Ground Up (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)

Information Studies

Faculty: Rachel Goon, Laurie Shuster (FS); Lesley Caldwell, 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.

Intensive English Program

Faculty: Mishelle Pasinato, Andrea Whittemore (FS)

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 collegelevel classes and programs. Pierce College English proficiency requirements are discussed in the Getting Started section of this catalog.

International students enrolled in 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 count toward 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 11/21/31/41 Intensive English Reading/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)

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.

University Transfer

Journalism Major

Journalism/Communications Major

This planning sheet lists only the courses related to the journalism/communications major. Students planning to transfer as journalism/communications majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. Journalism/communications majors should work closely with a faculty advisor to plan an overall program of study.

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. Students also are encouraged to pursue courses in anthropology, geography and environmental issues.

- CMST& 102 Introduction to Mass Media (5)
- CMST& 220 Public Speaking (5)
- ECON& 201 Microeconomics (5)
- ENGL& 102 Composition II: Argumentation and Research (5)
- HIST& 159 History of U.S. IV (5)

- JOURN 102 Introduction to News Writing (5)
- JOURN 103 Introduction to Feature Writing (1-5)
- JOURN 111 College Newspaper: Reporting and Editing (1-5)
- JOURN 112 College Newspaper Photojournalism (1-5)
- JOURN 125 The Documentary: A Social Force (5)
- MNGT 275 Introduction to Visual Promotion (5)
- PHIL& 101 Introduction to Philosophy (5)
- POLS& 202 American Government (5)
- PSYC& 100 General Psychology (5)
- SOC& 101 Introduction to Sociology (5)

Kinesiology and Health

Faculty: Lisa Murray (FS)

Personal Training as practiced by a Personal Trainer, Fitness Trainer, Personal Fitness Trainer, Fitness Professional or Exercise Professional is emerging as one of the fastest growing professions in the United States. The job outlook for this profession is expected to grow much faster than average. Baby boomers (approximately 78 million Americans born from 1946 -1964) are the first generation in the U.S. that grew up exercising and now they are reaching retirement age; they have the time and desire to begin or continue exercising into their 70s and beyond. Pierce College's AAS-T Kinesiology Degree and one-year Personal Training Certificate and Athletic Coaching Certificate are designed for students seeking the academic preparation to pursue national certifications and employment in the health and fitness/coaching industries.

Students will obtain skills in health risk stratification, health and physical fitness assessments, interpretation of results and counseling, constructing appropriate exercise prescriptions, and motivational strategies to help healthy individuals and those with medically controlled diseases.

As the profession of personal training continues to evolve and grow, more and more employment opportunities become available. Pierce College provides an excellent foundation of formal academic training for a variety of areas other than personal fitness training, such as kinesiology, nutrition, exercise science, physical education, physical and occupational therapy, athletic training, coaching, wellness coaching 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/kinesiology-outcomes.

Professional/Technical

Athletic Coaching Certificate

General Requirements (25 Credits)

The KINS courses are offered at the Fort Steilacoom campus only.

- KINS 250 Kinesiology (5)
- KINS 252 Nutrition and Exercise (3)
- KINS 258 Athletic Training and Acute Injury Management (3)

- KINS 261 Principles of Coaching (2)
- KINS 263 Applied Sport Psychology (5)
- KINS 264 Drugs and Sports (3)
- KINS 267 Internship (3)

Physical Education (1 Credit)

- Students are required to complete a one credit Physical Education course. (1)

Total Credits Required 25

Program code: 351A

Last revision: 2016-17

Kinesiology (AAS-T)

Core Requirements (51 Credits)

College Success (3 Credits)

- COLLG 110 College Success (3)

Communication Skills (5 Credits)

- ENGL& 101 English Composition I (5)

Quantitative/Symbolic Reasoning Skills (5 Credits)

- MATH& 107 Math in Society (5)

Humanities (5 Credits)

- CMST& 220 Public Speaking (5)

Social Science (10 Credits)

- PSYC& 100 General Psychology (5)
- BUS& 101 Introduction to Business (5)

Related Instruction (5 Credits)

- BUS 240 Human Relations in the Workplace (5)

Natural Science (11 Credits)

- BIOL& 241 Human Anatomy and Physiology 1 (6)
- NUTR& 101 Nutrition (5)

Health Science (7 Credits)

- HSCI 210 Wellness (5)
- HSCI 228 CPR for the Professional Rescuer, with First Aid and Blood Borne Pathogens (2)

General Requirements (44 Credits)

The KINS courses are offered at the Fort Steilacoom campus only.

- KINS 155 Applied Anatomy and Physiology for the Health and Fitness Professional (5)
- KINS 250 Kinesiology (5)
- KINS 252 Nutrition and Exercise (3)
- KINS 253 Essentials of Weight Management (2)
- KINS 254 Essentials of Fitness Training (5)
- KINS 256 Exercise Physiology for the Health and Fitness Professional (5)
- KINS 257 Client Care and Marketing for the Health and Fitness Professional (3)
- KINS 258 Athletic Training and Acute Injury Management (3)
- KINS 259 Special Populations Care for the Health and Fitness Professional (3)
- KINS 260 Health Appraisal and Fitness Assessment (3)
- KINS 262 Internship (5)

Physical Education (2 Credits)

- Students are required to complete two (2) one credit Physical Education courses. (2)

Total Credits Required 95

Program code: 351T

Last revision: 2016-17

Personal Training Certificate

General Requirements (44 Credits)

The KINS courses are offered at the Fort Steilacoom campus only.

- COLLG 110 College Success (3)
- KINS 155 Applied Anatomy and Physiology for the Health and Fitness Professional (5)
- KINS 250 Kinesiology (5)
- KINS 252 Nutrition and Exercise (3)
- KINS 253 Essentials of Weight Management (2)
- KINS 254 Essentials of Fitness Training (5)
- KINS 256 Exercise Physiology for the Health and Fitness Professional (5)
- KINS 257 Client Care and Marketing for the Health and Fitness Professional (3)
- KINS 258 Athletic Training and Acute Injury Management (3)
- KINS 259 Special Populations Care for the Health and Fitness Professional (3)
- KINS 260 Health Appraisal and Fitness Assessment (3)
- KINS 267 Internship (3)

Physical Education (1 Credit)

- Students are required to complete a one credit Physical Education course. (1)

Total Credits Required 44

Program code: 351P

Last revision: 2016-17

Mathematics

Faculty: Chad Bemis, Sharon Camner, Pete Kaslik, Rajesh Lal, David Lippman, Tom Phelps, Melonie Rasmussen (FS) Deb Falcioni, Phyllis Fikar, Tony Granata, Marlene Ignacio, Tom McCollow, Roya Sabeti, Ph.D., Larry Wiseman (PY)

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 of Science (AS-T) 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.) In addition to the regular classroom format, some of these courses are offered in the Math Lab and as distance learning courses for students who prefer these options. The Math Lab also makes it possible for students to complete more than one course in a quarter for the cost of one. The majority of eLearning/distance learning courses in mathematics require a proctored exam that can be taken at any college/university or military testing center. You will need to discuss this with your instructor.

College-level mathematics courses at Pierce College include the study of contemporary math, elementary math education, math for business, 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. The graphing calculator rental program rents TI-73, TI-83, and TI-89 calculators for a nominal fee through the library.

Students completing **MATH 096** (Intermediate Algebra in Context) or **MATH 098** (Intermediate Algebra for Precalculus) have a range of choices to satisfy the quantitative skills requirement for the AA-DTA degree. 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.

Math Course Sequence - Getting Started

Initial placement in the sequence depends on COMPASS placement test scores, transfer courses (as applicable), and High School Transcripts (if completed within 2 years of admission).

Pre-College Level Sequence:

MATH 050 (Basic Mathematics)

↓

MATH 054 (Beginning Algebra)

↓

MATH 096 (Intermediate Algebra in Context)

↓

MATH 098 (Intermediate Algebra for Precalculus)

For Science, Technology, Engineering, Math (STEM) or Business majors who need **MATH& 141** or **MATH 147**

College Level Quantitative Skills (QS) Math Course Options:

COURSE	PREREQUISITE
MATH& 107: Math & Society	MATH 096 or MATH 098
MATH 114: Applied Algebra, Geometry, Trig (only offered at military sites)	MATH 098
MATH& 141: Precalculus I	MATH 098
MATH 147: Business Precalculus	MATH 098
MATH& 131: Math for Elem Educ I	MATH 096 or MATH 098
MATH& 146: Intro to Statistics	MATH 096 or MATH 098

Math Course Pattern

Your placement score will determine where you start.

After completing **MATH 096** with a grade of 2.0 or better, choose one of the following Quantitative Reasoning courses: **MATH 107**, **MATH 146**, or **MATH 131**. **MATH 141** and **MATH 147** require additional algebra skills and require completion of **MATH 098**. Choose the course that fits your program of study. Sample programs are listed for each course. See your advisor and math instructor if you have questions.

Math Lab

Courses offered in the Math Lab format provide students personalized instruction in pre-college-level mathematics courses. Classes meet in a computer lab and instruction will be computer based, with videos and exercises individualized for each student. The instructor and classroom tutor will provide individual assistance. Daily attendance at the registered hour is expected. Additional open lab hours may be available; check the e-schedule quarterly. This class is recommended for students who work well independently and are interested in accelerating through the material quickly. Students will have the opportunity to complete more than one class worth of material during the quarter with no additional tuition costs.

Courses Offered Through the Math Lab:

MATH 050 Basic Mathematics (5)

MATH 054 Beginning Algebra (5)

MATH 098 Intermediate Algebra (5)

University Transfer

Mathematics Major

Mathematics Major

This planning sheet lists only the courses related to the mathematics major. Students planning to transfer as mathematics majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. Mathematics majors should work closely with a faculty advisor to plan an overall program of study.

The following courses should be taken:

- 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)

Note:

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.

Music

Faculty: Dr. Kenneth Owen, Oscar Thorpe (PY)

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, 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 toward an associate degree. However, participation is not limited to students or music majors; all students and members of the community are invited to perform in Concert Band (MUSC 150/MUSC 250), Jazz Band (MUSC 157/MUSC 257), Concert Choir (MUSC 144/MUSC 244) and Orchestra (MUSC 154/MUSC 254).

Pierce College offers music facilities at both the Fort Steilacoom 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.

University Transfer

Music (DTA/MRP)

Pierce College's Music Department offers a transfer degree for students wishing to complete the first two years of study leading to a baccalaureate degree. As part of the Associate in Music DTA/MRP student take two years of music theory and ear training, one year of keyboard instruction, and quarterly lessons and participation in ensembles. The cornerstone of our Music Department is our vocal and instrumental performing groups, including Concert Choir, Chamber Choir, Concert Band and Orchestra. Throughout the year, these groups perform in a variety of settings, from our quarterly concerts on campus to various events in the community and tours.

Degree Outcomes

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 General Transferable Elective (GTE) credits, and 15 General Elective credits.
- ENGL& 101 English Composition I - required
- COLLG 110 College Success required during the first or second quarter of attendance
- Earn the lesser of (at least) 20 college level credits or 25% of the credits applicable to the degree or certificate 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 GTE courses is required unless stated otherwise
- "Pass" (P) grades, independent study and cooperative work experience/work-based learning credits may be used for general elective credits only
- Once a course has been successfully completed, credits earned may be used in only one category

Core Requirements

Communication Skills (10 Credits)

ENGL& 101 requires a 2.0 or higher grade. Second communications course requires a 1.5 or higher grade.

- ENGL& 101 English Composition I (5) required

Select one:

- ENGL& 102 Composition II: Argumentation and Research (5)
- ENGL 107 Composition III: Writing About Literature (5)
- ENGL& 235 Technical Writing (5)
- JOURN 102 Introduction to News Writing (5)

Quantitative/Symbolic Reasoning Skills (5 Credits)

Requires 1.5 or higher grade. **PREREQ:** - Intermediate Algebra with 2.0 or higher or equivalent coursework, or appropriate assessment scores.

- 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 Introduction to Statistics (5)
- MATH 147 Business Precalculus (5)
- MATH& 148 Business Calculus (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)
- PHIL& 120 Symbolic Logic (5)

Humanities (15 Credits)

Requires a 1.5 grade or higher. Select from **two** disciplines. **Ten** quarter credits of Music Theory and **five** quarter credits from a different discipline. No more than **five** credits are allowed in world language.

- MUSC& 141 Music Theory I (5) required
- MUSC& 142 Music Theory II (5) required
- ART& 100 Art Appreciation (5)
- ART 105 Introduction to Art (5)
- ART 145 History of Art - Contemporary (5)
- ART 215 Art for Teachers (5)
- ART 243 History of Art – Ancient World Through the Middle Ages (5)
- ART 244 History of Art – Renaissance Through Rococo (5)
- ART 245 History of Art – The Modern World (5)
- ASL& 121 American Sign Language I (5)
- ASL& 122 American Sign Language II (5)
- ASL& 123 American Sign Language III (5)
- ASL& 221 American Sign Language IV (5)
- ASL& 222 American Sign Language V (5)
- ASL& 223 American Sign Language VI (5)
- CMST& 101 Introduction to Communications (5)
- CMST& 102 Introduction to Mass Media (5)
- CMST 105 Intercultural Communication (5)
- CMST& 220 Public Speaking (5)
- CMST& 230 Small Group Communication (5)
- DRMA& 101 Introduction to the Theatre (5)
- DRMA 160 Introduction 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 204 The Bible as Literature (5)
- ENGL 205 Introduction to Mythology (5)
- ENGL 207 Native American Literature (5)
- ENGL 210 Introduction to American Literature (5)
- ENGL 214 Screenwriting I (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& 236 Creative Writing I (5)
- ENGL& 237 Creative Writing II (5)
- ENGL& 238 Creative Writing 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 249 Creative Writing: Special Projects (5)
- ENGL 264 Literature of U.S. Slavery and Abolition (5)
- ENGL 265 American Literature: Comedy, Humor and Satire (5)
- ENGL 266 Women Writers: Voices from the International Mosaic (5)
- FRCH& 121 French I (5)
- FRCH& 122 French II (5)
- FRCH& 123 French III (5)
- GERM& 121 German I (5)
- GERM& 122 German II (5)
- GERM& 123 German III (5)
- HUM& 101 Introduction 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 120 Introduction to Folklore (5)
- HUM 161 Western Thought and Culture I: The Classical World (5)
- HUM 162 Western Thought and Culture II: The Middle Ages (5)
- HUM 163 Western Thought and Culture III: Birth of the Modern World (5)
- HUM 164 Western Thought and Culture IV: The Modern World (5)
- JAPN& 121 Japanese I (5)
- JAPN& 122 Japanese II (5)
- JAPN& 123 Japanese III (5)
- JOURN 103 Introduction to Feature Writing (1-5)
- JOURN 125 The Documentary: A Social Force (5)
- KREA& 121 Korean I (5)
- KREA& 122 Korean II (5)
- KREA& 123 Korean III (5)
- PHIL& 101 Introduction to Philosophy (5)
- PHIL 110 Introduction to Bioethics (5)

- PHIL& 115 Critical Thinking (5)
- PHIL 150 Introduction to Ethics (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 Russian I (5)
- RUSS& 122 Russian II (5)
- RUSS& 123 Russian III (5)
- SPAN& 121 Spanish I (5)
- SPAN& 122 Spanish II (5)
- SPAN& 123 Spanish III (5)
- SPAN& 221 Spanish IV (5)

Social Sciences (15 Credits)

Requires a 1.5 grade or higher. Select from **two** disciplines.

- ANTH& 100 Survey of Anthropology (5)
- ANTH& 104 World Prehistory (5)
- ANTH& 106 The 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 Introduction to Business (5)
- BUS& 201 Business Law (5)
- CJ& 105 Corrections in America (5)
- CJ 112 Criminal Justice in America (5)
- CJ 202 Concepts of Criminal Law (5)
- ECED& 105 Introduction to Early Childhood Education (5)
- ECED 335 Law and Ethics (3)
- ECED& 355 Social and Political Context of Early Childhood Education (3)
- ECON 110 Survey of Economics (5)
- ECON& 201 Microeconomics (5)
- ECON& 202 Macroeconomics (5)
- EDUC& 115 Child Development (5)
- GEOG 100 Introduction to Geography (5)
- GEOG 150 The Americas, Australia, Europe and New Zealand (5)
- GEOG 160 Africa, Middle East and Asia (5)
- GEOG 200 Human Geography (5)
- GEOG 207 Economic Geography (5)
- HIST& 126 World Civilizations I (5)
- HIST& 127 World Civilizations II (5)
- HIST& 128 World Civilizations III (5)

- HIST& 156 History of U. S. I (5)
- HIST& 157 History of U. S. II (5)
- HIST& 158 History of U.S. III (5)
- HIST& 159 History of U.S. IV (5)
- HIST 168 Vietnam War as History (5)
- HIST 175 A Brief History of Global Leadership (5)
- HIST& 214 Pacific Northwest History (5)
- HIST 260 History of Russia and the Soviet Union (5)
- HIST 265 History of Latin American Since 1810 (5)
- HIST 266 History of Europe Since 1870 (5)
- HIST 267 History of Africa Since 1800 (5)
- HIST 270 Introduction to the Far East (5)
- HIST 272 Survey of Middle East History (5)
- HIST 277 The Cold War (5)
- HIST 280 Introduction to Chinese Civilization (5)
- HIST 284 Introduction to the Balkans (5)
- HIST 287 History of Japan Since Antiquity (5)
- INTS 107 Introduction 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 in the Modern World (5)
- INTS 300 Social Studies for Teachers (5)
- POLS& 101 Introduction to 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 Intro to Personality (5)
- SOC& 101 Introduction 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 235 Race and Ethnicity (5)

Natural Sciences (15 Credits)

Requires a 1.5 grade or higher. Select from two disciplines. Must include one lab indicate by an \textcircled{L} .

- ANTH& 205 Biological Anthropology (5)

- ① ANTH& 236 Forensic Anthropology (5)
- ASTR& 100 Survey of Astronomy (5)
- ① ASTR& 101 Introduction to Astronomy (5)
- ① ASTR 105 Survey of Astrobiology (5)
- ① ASTR& 110 The Solar System (5)
- ① ASTR& 115 Stars, Galaxies and the Cosmos (5)
- ① ATMOS 101 Introduction to Weather (5)
- ① BIOL& 100 Survey of Biology (5)
- ① BIOL& 160 General Biology w/Lab (5)
- BIOL& 170 Human Biology: Anatomy & Physiology (5)
- ① BIOL& 175 Human Biology w/Lab: Anatomy & Physiology (5)
- ① BIOL& 211 Majors: Cellular (5)
- ① BIOL& 212 Majors: Animals (5)
- ① BIOL& 213 Majors: Plant (5)
- ① BIOL& 241 Human Anatomy and Physiology 1 (6)
- ① BIOL& 242 Human Anatomy and Physiology 2 (6)
- ① BIOL& 260 Microbiology (5)
- CHEM& 100 Preparatory Chemistry (5)
- ① CHEM& 110 Chemical Concepts with Lab (5)
- ① CHEM& 121 Intro to Chemistry (5)
- ① CHEM& 131 Intro to Organic/Biochemistry (6)
- CHEM& 139 General Chemistry Prep (5)
- ① CHEM& 161 General Chemistry with Lab I (5)
- ① CHEM& 162 General Chemistry with Lab II (5)
- ① CHEM& 163 General Chemistry with Lab III (5)
- ① CHEM& 261 Organic Chemistry with Lab I (6)
- ① CHEM& 262 Organic Chemistry with Lab II (6)
- ① CHEM& 263 Organic Chemistry with Lab III (6)
- ENGR 101 Introduction to Engineering (5)
- ENV& 100 Survey of Environmental Science (5)
- ENV& 140 Western Water Problems (5)
- ENV& 150 Environmental Issues (5)
- ① ENV& 155 Applied Environmental Methods (5)
- GEOG 205 Physical Geography (5)
- ① GEOG 210 Physical Geography (5)
- ① GEOL& 101 Introduction to Physical Geology (5)
- ① GEOL& 103 Historical Geology (5)
- ① GEOL 107 Exploring Earth Science (5)
- ① GEOL& 110 Environmental Geology (5)
- ① GEOL& 115 Geology of National Parks (5)
- ① GEOL& 120 Volcanoes (5)
- ① GEOL& 208 Geology of Pacific Northwest (5)
- ① GEOL 220 Earth Resources and the Environment (5)
- ① GEOL 283 Regional Geology (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 Introduction to Statistics (5)
- MATH 147 Business Precalculus (5)
- MATH& 148 Business Calculus (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)
- ① NSCI 150 Nature (5)
- ① NSCI 160 Environmental Biology (5)
- NSCI 300 Inquiry Based Science for Teachers (5)
- NUTR& 101 Nutrition (5)
- ① OCEA& 101 Introduction to Oceanography (5)
- ① OCEA 170 Marine Biology (5)
- PHIL& 120 Symbolic Logic (5)
- ① PHYS& 110 Physics for Non-Science Majors (5)
- ① PHYS& 114 General Physics I (5)
- ① PHYS& 115 General Physics II (5)
- ① PHYS& 116 General Physics III (5)
- ① PHYS& 221 Engineering Physics I (6)
- ① PHYS& 222 Engineering Physics II (6)
- ① PHYS& 223 Engineering Physics III (6)
- ① PS 101 Introduction to Physical Science (5)

General Transferable Electives (20 Credits)

Requires a 1.5 grade or higher.

- MUSC& 143 Music Theory III (5)
- MUSC& 241 Music Theory IV (5)
- MUSC& 242 Music Theory V (5)
- MUSC& 243 Music Theory VI (5)

General Electives (24 Credits)

For ensemble, private lessons, keyboard/piano a minimum grade of 1.5 is required.

- 12 credits of ensemble required
- MUSC 144 Concert Choir (2)
- MUSC 147 Chamber Choir (2)
- 6 credits private lessons required

- MUSC 160 Private Instruction: Arranging (1)
- MUSC 161 Private Instruction: Improvisation (1)
- MUSC 162 Private Instruction: Brass (1)
- MUSC 163 Private Instruction: Woodwind (1)
- MUSC 164 Private Instruction: Percussion (1)
- MUSC 165 Private Instruction: Voice (1)
- MUSC 166 Private Instruction: Orchestral Strings (1)
- MUSC 167 Private Instruction: Keyboard (1)
- MUSC 168 Private Instruction: Plectrum Strings (1)
3 credits keyboard/piano required
- MUSC 181 Beginning Class Piano (1)
- MUSC 182 Intermediate Class Piano (1)
- MUSC 183 Advanced Class Piano (1)
- COLLG 110 College Success (3) Required with a 2.0 or higher grade

Total Credits Required 104

Program code: AAFP

Music Major

Music Major

This planning sheet lists only the courses related to the music major. Students planning to transfer as music majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. Music majors should work closely with a faculty advisor to plan an overall program of study.

The following courses should be taken:

- MUSC& 141 Music Theory I (5)
- MUSC& 142 Music Theory II (5)
- MUSC& 143 Music Theory III (5)
- MUSC 181 Beginning Class Piano (1)
- MUSC 182 Intermediate Class Piano (1)
- MUSC 183 Advanced Class Piano (1)
- MUSC& 241 Music Theory IV (5)
- MUSC& 242 Music Theory V (5)
- MUSC& 243 Music Theory VI (5)

Recommended Courses

- MUSC 144 Concert Choir (2)
- MUSC 244 Concert Choir (2)
- MUSC 150 College Band (2)
- MUSC 250 College Band (2)
- MUSC 154 College Orchestra (1)
- MUSC 254 College Orchestra (1)
- MUSC 157 Jazz Band (2)
- MUSC 257 Jazz Band (2)
- MUSC 160 Private Instruction: Arranging (1)
- MUSC 161 Private Instruction: Improvisation (1)
- MUSC 162 Private Instruction: Brass (1)
- MUSC 163 Private Instruction: Woodwind (1)
- MUSC 164 Private Instruction: Percussion (1)
- MUSC 165 Private Instruction: Voice (1)
- MUSC 166 Private Instruction: Orchestral Strings (1)
- MUSC 167 Private Instruction: Keyboard (1)
- MUSC 168 Private Instruction: Plectrum Strings (1)
- MUSC 260 Private Instruction: Arranging (1)
- MUSC 261 Private Instruction: Improvisation (1)
- MUSC 262 Private Instruction: Brass (1)
- MUSC 263 Private Instruction: Woodwind (1)
- MUSC 264 Private Instruction: Percussion (1)
- MUSC 265 Private Instruction: Voice (1)
- MUSC 266 Private Instruction: Orchestral Strings (1)
- MUSC 267 Private Instruction: Keyboard (1)
- MUSC 268 Private Instruction: Plectrum Strings (1)

Nursing

Director: Ronda Durano, MN, RN

Faculty: Tiffany Smith, MN, RN, Elizabeth Webber, MSN, RN (PY)

Website: www.pierce.ctc.edu/dept/nursing

The Pierce College Nursing Program prepares students to become Registered Nurses and provides students with the opportunity to become not only a Certified Nursing Assistant but also a Nurse Technician during the program. The program is designed to articulate with local four-year universities that offer a BSN completion program. The curriculum builds on prerequisite courses 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. Registered Nurses plan and coordinate patient care.

Clinical courses are taught at a variety of health care agencies in the Pierce County area and may occur days, evenings and Saturdays. Most courses are taught by master's prepared nurse educators. The program is approved by the Washington State Nursing Care Quality Assurance Commission, and accredited by the Accrediting Commission on Education in Nursing.

Selection for the RN pathway is competitive, and the program begins each fall. The course of study is six quarters (fall, winter, and spring) over two academic years with the interim summer off so the student can gain experience as a nurse technician. Professional/technical program competencies can be found at www.pierce.ctc.edu/dept/nursing/outcomes

University Transfer

Pre-Nursing (DTA/MRP)

Website: www.pierce.ctc.edu/nursing

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.

Due to high interest and limited space in BSN programs, admission to all BSN programs is highly competitive with many qualified applicants finding themselves on waiting lists for admission.

Degree Outcomes

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 General Transferable Elective (GTE) credits, and 15 General Elective credits.
- ENGL& 101 English Composition I - required
- COLLG 110 College Success required during the first or second quarter of attendance
- Earn the lesser of (at least) 20 college level credits or 25% of the credits applicable to the degree or certificate 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 GTE courses is required unless stated otherwise
- "Pass" (P) grades, independent study and cooperative work experience/work-based learning credits may be used for general elective credits only
- Once a course has been successfully completed, credits earned may be used in only one category

Core Requirements

Communication Skills (10 Credits)

ENGL& 101 requires a 2.0 or higher grade. Second communications course requires a 1.5 or higher grade. Northwest University and Walla Walla College require that the second English composition class be a research writing class.

- ENGL& 101 English Composition I (5)
- ENGL& 102 Composition II: Argumentation and Research (5)

Quantitative/Symbolic Reasoning Skills (5 Credits)

MATH& 146 requires a 1.5 or higher grade. UW-Seattle and Seattle University require 10 credits in quantitative/symbolic reasoning with the addition class in college algebra or precalculus (at UW-Seattle, a class in Logic also serves for the additional). Intermediate Algebra proficiency is required.

- MATH& 146 Introduction to Statistics (5)

Humanities (15 Credits)

Requires a 1.5 or higher grade. No more than **10** credits per discipline area. No more than **five** credits in world language at the 100 level. No more than **five** credits in performance/skills courses are allowed.

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.

See the humanities choices in the WSU "Diversity Course Identification Guidelines" for possible selection or choose courses that include minority, non-western, ethic or other "area" studies. Selected from at least two disciplines.

- CMST& 220 Public Speaking (5) required
- ART& 100 Art Appreciation (5)
- ART 105 Introduction to Art (5)
- ART 145 History of Art - Contemporary (5)
- ART 215 Art for Teachers (5)
- ART 243 History of Art – Ancient World Through the Middle Ages (5)
- ART 244 History of Art – Renaissance Through Rococo (5)
- ART 245 History of Art – The Modern World (5)
- ASL& 121 American Sign Language I (5)
- ASL& 122 American Sign Language II (5)
- ASL& 123 American Sign Language III (5)
- ASL& 221 American Sign Language IV (5)
- ASL& 222 American Sign Language V (5)
- ASL& 223 American Sign Language VI (5)
- CMST& 101 Introduction to Communications (5)
- CMST& 102 Introduction to Mass Media (5)
- CMST 105 Intercultural Communication (5)
- CMST& 230 Small Group Communication (5)
- DRMA& 101 Introduction to the Theatre (5)
- DRMA 160 Introduction 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 204 The Bible as Literature (5)
- ENGL 205 Introduction to Mythology (5)
- ENGL 207 Native American Literature (5)
- ENGL 210 Introduction to American Literature (5)
- ENGL 214 Screenwriting I (5)
- ENGL& 220 Intro to Shakespeare (5)
- ENGL& 226 British Literature I (5)
- ENGL& 227 British Literature II (5)
- ENGL& 236 Creative Writing I (5)
- ENGL& 237 Creative Writing II (5)
- ENGL& 238 Creative Writing 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 249 Creative Writing: Special Projects (5)
- ENGL 264 Literature of U.S. Slavery and Abolition (5)
- ENGL 265 American Literature: Comedy, Humor and Satire (5)
- ENGL 266 Women Writers: Voices from the International Mosaic (5)
- FRCH& 121 French I (5)
- FRCH& 122 French II (5)
- FRCH& 123 French III (5)
- GERM& 121 German I (5)
- GERM& 122 German II (5)
- GERM& 123 German III (5)
- HUM& 101 Introduction 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 120 Introduction to Folklore (5)
- HUM 161 Western Thought and Culture I: The Classical World (5)
- HUM 162 Western Thought and Culture II: The Middle Ages (5)
- HUM 163 Western Thought and Culture III: Birth of the Modern World (5)
- HUM 164 Western Thought and Culture IV: The Modern World (5)
- HUM 204 American Popular Culture (5)
- HUM 209 The Civil Rights Movement: From the Ground Up (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 Japanese I (5)
- JAPN& 122 Japanese II (5)
- JAPN& 123 Japanese III (5)
- JOURN 103 Introduction to Feature Writing (1-5)

- JOURN 125 The Documentary: A Social Force (5)
- KREA& 121 Korean I (5)
- KREA& 122 Korean II (5)
- KREA& 123 Korean III (5)
- MUSC 100 Introduction to Rock & Roll (5)
- MUSC 102 American Popular Music (5)
- MUSC 103 Introduction to Jazz (5)
- MUSC& 105 Music Appreciation (5)
- MUSC 106 World Music (5)
- MUSC& 141 Music Theory I (5)
- MUSC& 142 Music Theory II (5)
- MUSC& 143 Music Theory III (5)
- MUSC 205 Music for Teachers (5)
- MUSC& 241 Music Theory IV (5)
- MUSC& 242 Music Theory V (5)
- MUSC& 243 Music Theory VI (5)
- PHIL& 101 Introduction to Philosophy (5)
- PHIL 110 Introduction to Bioethics (5)
- PHIL& 115 Critical Thinking (5)
- PHIL 150 Introduction to Ethics (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 Russian I (5)
- RUSS& 122 Russian II (5)
- RUSS& 123 Russian III (5)
- SPAN& 121 Spanish I (5)
- SPAN& 122 Spanish II (5)
- SPAN& 123 Spanish III (5)
- SPAN& 221 Spanish IV (5)

Humanities Performance/Skills

- ART 101 Design, Beginning (5)
- ART 102 Design, Intermediate (5)
- ART 107 Photography, Beginning (5)
- ART 111 Drawing, Beginning (5)
- ART 112 Drawing, Intermediate (5)
- ART 113 Drawing, Advanced (5)
- ART 115 3-Dimensional Design (5)
- ART 150 Printmaking, Beginning (5)
- ART 201 Painting, Beginning (5)
- ART 202 Painting, Intermediate (5)
- ART 203 Painting, Advanced (5)
- ART 204 Watercolor, Beginning (5)
- ART 211 Beginning Sculpture (5)

- ART 260 Art in Motion: Real and Recorded (5)
- DRMA 170 Technical Film and Theatre I (5)
- DRMA 171 Technical Film and Theatre II (5)
- DRMA 172 Technical Film and Theatre III (5)
- DRMA 260 Acting for Stage and Digital Film I (5)
- DRMA 261 Acting for Stage and Digital Film II (5)
- DRMA 262 Acting for Stage and Digital Film III (5)
- DRMA 280 Production Practicum I (1-3)
- DRMA 281 Production Practicum II (1-3)
- DRMA 282 Production Practicum III (1-3)
- DRMA 283 Production Practicum IV (1-3)
- DRMA 284 Production Practicum V (1-3)
- DRMA 285 Production Practicum VI (1-3)
- MUSC 126 Beginning Class Guitar (1)
- MUSC 127 Intermediate Class Guitar (1)
- MUSC 144 Concert Choir (2)
- MUSC 147 Chamber Choir (2)
- MUSC 150 College Band (2)
- MUSC 157 Jazz Band (2)
- MUSC 160 Private Instruction: Arranging (1)
- MUSC 161 Private Instruction: Improvisation (1)
- MUSC 162 Private Instruction: Brass (1)
- MUSC 163 Private Instruction: Woodwind (1)
- MUSC 164 Private Instruction: Percussion (1)
- MUSC 165 Private Instruction: Voice (1)
- MUSC 166 Private Instruction: Orchestral Strings (1)
- MUSC 167 Private Instruction: Keyboard (1)
- MUSC 168 Private Instruction: Plectrum Strings (1)
- MUSC 170 Brass Ensemble (1)
- MUSC 171 Woodwind Ensemble (1)
- MUSC 172 Percussion Ensemble (1)
- MUSC 173 String Ensemble (1)
- MUSC 174 Vocal Ensemble (1)
- MUSC 181 Beginning Class Piano (1)
- MUSC 182 Intermediate Class Piano (1)
- MUSC 183 Advanced Class Piano (1)
- MUSC 244 Concert Choir (2)
- MUSC 247 Chamber Choir (2)
- MUSC 250 College Band (2)
- MUSC 254 College Orchestra (1)
- MUSC 257 Jazz Band (2)
- MUSC 260 Private Instruction: Arranging (1)
- MUSC 261 Private Instruction: Improvisation (1)
- MUSC 262 Private Instruction: Brass (1)
- MUSC 263 Private Instruction: Woodwind (1)
- MUSC 264 Private Instruction: Percussion (1)
- MUSC 265 Private Instruction: Voice (1)
- MUSC 266 Private Instruction: Orchestral Strings (1)

- MUSC 267 Private Instruction: Keyboard (1)
- MUSC 268 Private Instruction: Plectrum Strings (1)
- MUSC 270 Brass Ensemble (1)
- MUSC 271 Woodwind Ensemble (1)
- MUSC 272 Percussion Ensemble (1)
- MUSC 273 String Ensemble (1)
- MUSC 274 Vocal Ensemble (1)

Social Sciences (15 Credits)

Requires a 1.5 grade or higher.

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 the junior year.

See the sociology choices in the WSU "Diversity Course Identification Guidelines" for possible selection or choose courses that include minority, non-western, ethnic or other "area" studies.

- PSYC& 100 General Psychology (5)
- PSYC& 200 Lifespan Psychology (5)

Select one:

- SOC& 101 Introduction 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)

Natural Sciences (38 Credits)

Requires a 1.5 grade or higher. 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 junior year.

At the time of application when some of the course work may not yet be completed, 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.

- 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/Biochemistry (6)

- NUTR& 101 Nutrition (5)

General Electives (10 Credits)

Minimum of 1.0 grade is required. Five credits that meet the CM, QS, HM, NS or SS designation as stated on the AA-DTA degree lists. Up to five credits that are numbered 100 or above. A maximum of three physical activity (PE) credits can be applied to this degree.

- COLLG 110 College Success (3) required with a 2.0 or higher grade

Total Credits Required 93

Notes

- Admissions application deadlines vary; students must meet the deadline for the university or universities to which they plan to apply for admission to transfer.
- For admission to nursing as a major it is critical to note that grade point average requirements vary and admission is competitive across the several programs in Nursing.
- Certain schools may have additional "university-specific" requirements that are not pre-requisites 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. Contact with advisor 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.
- 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, for example, requires 10 credits of a world language if the applicant has not completed two years of a single language in high school; PLU requires a year of a world language at the college level, if two years of high school world language has not been completed.

Program Code: PREN

Professional/Technical

Nursing (ADN) (PY Only)

REQUIREMENTS FOR ADMISSION

Applicants must meet general entrance requirements for Pierce College as well as the specific pre-nursing course requirements. Prerequisite courses typically take one to two years depending on the number of credits taken per quarter. Some nursing prerequisite courses may have prerequisites. 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 early spring 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, essays which are scored according to a faculty established rubric.

Prospective students who have proof of unencumbered Washington State LPN license or Certificate of Completion from a Washington State approved practical nurse training program may apply on a space available basis to enter the program in the fourth quarter of the program. This LPN-RN bridge program is limited in space and the student must take assessment tests and a specific LPN-RN bridge course at Pierce College. Please see the nursing advisor for more information.

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 or St. Martins University 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.

Prerequisites - Minimum Qualifications

The following must be completed with a grade of 3.0 (B) or higher and be completed within the last seven years of the date of the student's application.

All courses have pre-requisites that cannot be waived. Please work closely with a pre-nursing advisor.

- 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)
- ENGL& 101 English Composition I (5) *
- PSYC& 200 Lifespan Psychology (5) *

Pierce College Requirement beginning summer 2015:

For all students beginning college courses and pre-nursing prerequisites at Pierce College, COLLG 110 College Success must be taken within the first two quarters of starting coursework at Pierce College. You may be exempt from this requirement. Check with your advisor for the latest information.

Transfer-Ready Requirements

Must be completed with a grade of 2.0 (C) or higher:

- MATH& 146 Introduction to Statistics (5)
- World Language 121 and 122 (10) **
- ASL& 121 American Sign Language I (5)

- ASL& 122 American Sign Language II (5)
- FRCH& 121 French I (5)
- FRCH& 122 French II (5)
- GERM& 121 German I (5)
- GERM& 122 German II (5)
- JAPN& 121 Japanese I (5)
- JAPN& 122 Japanese II (5)
- KREA& 121 Korean I (5)
- KREA& 122 Korean II (5)
- RUSS& 121 Russian I (5)
- RUSS& 122 Russian II (5)
- SPAN& 121 Spanish I (5)
- SPAN& 122 Spanish II (5)

Recommended Coursework

Must be completed with a grade of 2.0 (C) or higher:

- CHEM& 131 Intro to Organic/Biochemistry (6)

Note:

* The 10-year limitation on ENGL& 101 and PSYC& 200 may be waived if the course was completed as part of a degree from an accredited institution of higher learning.

** No time limit on the World Language requirement. Two years of the same high school world language will also satisfy this requirement. Native speakers can satisfy this requirement following UW guidelines. See a Nursing advisor for details.

First Year (37 Credits)

Quarter I (11 Credits)

- HSCI 114 Therapeutic Communication in Healthcare Settings (3)
- NURS 111 Fundamentals of Nursing Practice (3)
- NURS 112 Fundamentals of Nursing Clinical Practice (3)
- HSCI 116 Pharmacology for Allied Health I (2)

Quarter II (12 Credits)

- NURS 121 Introduction to Medical-Surgical/Psychiatric Nursing (4)
- NURS 122 Introduction to Nursing Clinical Practice (5)
- NURS 125 Family Nursing (3)

Quarter III (14 Credits)

- HSCI 117 Pharmacology for Allied Health II (2)
- NURS 130 Intermediate Medical-Surgical/Psychiatric Nursing (6)
- NURS 132 Intermediate Nursing Clinical Practice (6)

Total Credits (Quarters I, II, III) 37

Second Year (39 Credits)

Quarter IV (13 Credits - ADN Students (17 Credits-Bridge)

- NURS 210 Advanced Topics in Nursing (4)
- NURS 211 Advanced Nursing Clinical Practice (6)
- NURS 214 Advanced Concepts in Family Centered Nursing Care (3)
- NURS 218 Associate Degree Nursing Articulation Seminar (2) (Bridge only)

Quarter V (14 Credits)

- NURS 222 Professional Nursing Clinical Practice (5)
- NURS 223 Advanced Psychiatric Nursing (3)
- NURS 224 Professional Role Transition (3)
- NURS 230 Advanced Topics in Nursing II (3)

Quarter VI (12 Credits)

- HSCI 235 Issues and Trends in Health Care Management (4)
- NURS 233 Acute Care Nursing Practicum (8)

Total Credits (Quarters IV, V, VI) 39

Total Credits (Quarters I-VI) 76

includes theory, lab, preceptorship and service-connected learning

Total Credits including prerequisites 129

Each ADN course must be completed with a minimum grade of 2.7 and all courses must be completed in the designated quarter.

Program code: 323

Last revision: 2016-17

Nursing Assistant Certified

Contact: Ronda Durano, MN, RN

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. The first part of the NAC coursework consists of nursing assistant theory and skills lab. Upon successful completion of these two courses, student progress to the clinical portion of the program where they practice knowledge and skills learning in a long-term care setting with patients. Student must successfully complete a background check prior to the beginning of the courses. The three courses prepare the student to take the written and skills portion of the Nursing Assistant exam. Successful completion of the exam enables the person to be employed as a Certified Nursing Assistant or Nursing Assistant Certified.

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.

Prerequisite: Students need to score a minimum of 85 on the college reading assessment test.

The Nursing Assistant Certified is part of the Pierce College Integrated Basic Education and Skills Training (I-BEST) and is open to all Pierce College Adult Diploma (PCAD), Adult Basic Education (ABE), General Education Development (GED), English as a Second Language (ESL), and pre-college level adult learners. I-BEST programs provide high 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, Business Information 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

NAC Program Requirements

The NAC program is one quarter in length and is 12 credits. All skills necessary will be taught and practiced in the skills lab course. Evening hours are available for additional skills practice.

- NAC 101 Nursing Assistant Theory (7)
- NAC 105 Nursing Assistant Lab (3)
- NAC 107 Nursing Assistant Clinical (2)

Total Credits Required 12

Student Learning Outcomes available at www.pierce.ctc.edu/nursing-nac

Program code: 329P

Last revision: 2016-17

Occupational Safety and Health

Contact: Darren Linker (FS)

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.

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 at www.pierce.ctc.edu/dept/osh/outcomes

Professional/Technical

Construction Safety Technician Certificate

Faculty: Dolores Kelley, Darren Linker (FS)

General Requirements (28 Credits)

- BUS 240 Human Relations in the Workplace (5) *
- COLLG 110 College Success (3)
- CIS 130 Productivity Software (5) +
- ENGL& 101 English Composition I (5) * +
- ENGL& 235 Technical Writing (5)

Select one:

- BTECA 117 Business Mathematics (5) *
- MATH& 107 Math in Society (5)
- MATH& 146 Introduction to Statistics (5)

Safety and Health Requirements (35 Credits)

- CONST 140 Construction Drawings: Print Reading (5) +
- CONST 160 Materials and Methods (5) +
- CONST 250 Construction Safety and Accident Prevention (3)
- OSH 110 Safety Management (5)
- OSH 150 Workers Compensation & Risk Management (3)
- OSH 160 Incident Investigation (3)
- OSH 170 Training Techniques (5)
- OSH 190 Industrial Security (3)

Select one:

- OSH 291 OSH Internship (3)
- CONST 198 Work-Based Learning (3)

Total Credits Required 63

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

Program code: 844C

Last revision: 2016-17

Occupational Safety and Health Technician (AAS-T)

General 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 Introduction to Statistics (5)

Humanities, Social Science and Science (20 Credits)

- BIOL& 170 Human Biology: Anatomy & Physiology (5)
- CHEM& 110 Chemical Concepts with Lab (5)
- PSYC& 100 General Psychology (5)

Select one:

- CMST& 101 Introduction to Communications (5)
- CMST& 220 Public Speaking (5)

Computer Requirement (5 Credits)

- CIS 130 Productivity Software (5)

Management and Career Skills (13 Credits)

- BUS 240 Human Relations in the Workplace (5)
- BUS 260 Project Management I: Planning (5)
- OSH 291 OSH Internship (3)

Safety and Health Requirements (42 Credits)

- CONST 250 Construction Safety and Accident Prevention (3)
- OSH 100 Introduction to Occupational Safety and Health (5)
- OSH 110 Safety Management (5)
- OSH 140 Regulatory Environment (3)
- OSH 150 Workers Compensation & 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 (4)

- HSCI 228 CPR for the Professional Rescuer, with First Aid and Blood Borne Pathogens (2)

Additional Safety and Health Requirements (4-7 Credits)

- BUS 261 Project Management II: Managing (5)
- COLLG 110 College Success (3) required
- OSH 155 Special Topics in OSH - I (2)
- OSH 255 Special Topics in OSH II (1-3)
- CONST 140 Construction Drawings: Print Reading (5)
- CONST 160 Materials and Methods (5)
- HSEM 102 Introduction to Emergency Management (5)
- HSEM 120 All Hazards Emergency Planning (3)

Total Credits Required 99-102

Program code: 844

Last revision: 2016-17

Oceanography

Faculty: Beth Norman, Ted Wood (FS); Tom Bush (PY)

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.

University Transfer

Oceanography Major

Oceanography Major - General Emphasis

This planning sheet lists only the courses related to the oceanography major. Students planning to transfer as oceanography majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students can also follow the

Associate of Science (AS-T) Degree Track 1. Students should check with the transfer institution regarding specific requirements and transferable credits. Oceanography majors should work closely with a faculty advisor to plan an overall program of study.

- ATMOS 101 Introduction to Weather (5)
- BIOL& 160 General Biology w/Lab (5)
- CHEM& 161 General Chemistry with Lab I (5)
- CHEM& 162 General Chemistry with Lab II (5)
- CHEM& 163 General Chemistry with Lab III (5)
- GEOL& 101 Introduction to Physical Geology (5)
- MATH& 146 Introduction to Statistics (5)
- OCEA& 101 Introduction to Oceanography (5)
- OCEA 170 Marine Biology (5)

Recommended math/physics sequence:

- MATH& 141 Precalculus I (5)
- MATH& 142 Precalculus II (5)
- MATH& 151 Calculus I (5)
- MATH& 152 Calculus II (5)
- MATH& 153 Calculus III (5)
- PHYS& 221 Engineering Physics I (6)
- PHYS& 222 Engineering Physics II (6)
- PHYS& 223 Engineering Physics III (6)

Oceanography Major - Biology Emphasis

- BIOL& 211 Majors: Cellular (5)
- BIOL& 212 Majors: Animals (5)
- BIOL& 213 Majors: Plant (5)
- CHEM& 161 General Chemistry with Lab I (5)
- CHEM& 162 General Chemistry with Lab II (5)
- CHEM& 163 General Chemistry with Lab III (5)
- OCEA& 101 Introduction to Oceanography (5)
- OCEA 170 Marine Biology (5)

Recommended math/physics sequence:

- MATH& 151 Calculus I (5)
- MATH& 141 Precalculus I (5)
- MATH& 142 Precalculus II (5)
- PHYS& 114 General Physics I (5)
- PHYS& 115 General Physics II (5)
- PHYS& 116 General Physics III (5)

Philosophy

Faculty: Emily Kulbacki (FS)

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.

University Transfer

Philosophy Major

Philosophy Major - General Emphasis

This planning sheet lists only the courses related to the philosophy major. Students planning to transfer as philosophy majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. Philosophy majors should work closely with a faculty advisor to plan an overall program of study.

The following courses should be taken:

- CMST& 220 Public Speaking (5)
- ENGL 107 Composition III: Writing About Literature (5)
- HIST& 126 World Civilizations I (5)
- HIST& 127 World Civilizations II (5)
- HIST& 128 World Civilizations III (5)
- PHIL& 101 Introduction to Philosophy (5)
- PHIL& 120 Symbolic Logic (5)
- PHIL 150 Introduction to Ethics (5)

Philosophy Major - Values Emphasis (Ethics, Aesthetics)

The following courses should be taken:

- ANTH& 100 Survey of Anthropology (5)
- ART 105 Introduction to Art (5)
- ENGL& 114 Intro to Dramatic Literature (5)
- ENGL& 102 Composition II: Argumentation and Research (5)
- MUSC& 105 Music Appreciation (5)
- PHIL& 101 Introduction to Philosophy (5)
- PHIL& 120 Symbolic Logic (5)
- PHIL 150 Introduction to Ethics (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:

- ANTH& 206 Cultural Anthropology (5)
- PHIL& 101 Introduction to Philosophy (5)
- PHIL& 120 Symbolic Logic (5)
- PHIL 150 Introduction to Ethics (5)

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 prerequisites 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 prerequisites at Pierce College. Once students have been admitted to the PTA program, they will become a student at WCC, completing all coursework online and attending labs one weekend per month in Bellingham.

Professional/Technical

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 prerequisites 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 prerequisites at Pierce College. Once students have been admitted to the PTA program, they will become a student at WCC, completing all coursework online and attending labs one weekend per month in Bellingham.

Physics

Faculty: Hillary Stephens (FS); Marlene Ignacio (PY)

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 industry, government or teaching in one of those areas. The courses in physics find applications in many related areas, including chemistry, biological sciences, engineering, geophysics, astronomy, oceanography, meteorology, environmental sciences and mathematics.

University Transfer

Physics Major

Physics Major

This planning sheet lists only the courses related to the physics major. Students planning to transfer as physics majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students can also follow the Associate of Science (AS-T) Degree Track 1. Students should check with the transfer institution regarding specific requirements and transferable credits. Physics majors should work closely with a faculty advisor to plan an overall program of study.

- PHYS& 221 Engineering Physics I (6)
- PHYS& 222 Engineering Physics II (6)
- PHYS& 223 Engineering Physics III (6)
- 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 with Lab I (5) and
- CHEM& 162 General Chemistry with Lab II (5)
(or 10 credits of physical science, not physics or math)

Political Science

Faculty: Dr. John Lucas, Chris Vanneson (PY)

Political science is the systematic study of how societies organize to decide what to do and how to do it. The analysis of group decisionmaking 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.

University Transfer

Political Science Major

Political Science Major

This planning sheet lists only the courses related to the political science major. Students planning to transfer as political science majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. Political Science majors should work closely with a faculty advisor to plan an overall program of study.

- POLS& 101 Introduction to Political Science (5)
- POLS& 202 American Government (5)
- POLS& 203 International Relations (5)

Recommended courses:

Communications Skills

- ENGL& 101 English Composition I (5)
- ENGL& 102 Composition II: Argumentation and Research (5)

Quantitative/Symbolic Reasoning Skills

- MATH& 146 Introduction to Statistics (5)

Humanities

- CMST& 102 Introduction to Mass Media (5)
- CMST& 220 Public Speaking (5)
- PHIL& 101 Introduction to Philosophy (5)

Social Science

Two disciplines and POLS

- CJ 112 Criminal Justice in America (5)
- HIST& 156 History of U. S. I (5)
- HIST& 157 History of U. S. II (5)
- HIST& 158 History of U.S. III (5)
- POLS& 200 Introduction to Law (5)
- PSYC& 100 General Psychology (5)
- SOC& 101 Introduction to Sociology (5)

Select one:

- ANTH& 206 Cultural Anthropology (5)
- GEOG 207 Economic Geography (5)

Natural Science

Three disciplines, including one lab course indicated by an (L).

- ANTH& 205 Biological Anthropology (5)
- GEOG 205 Physical Geography (5)
- (L) OCEA& 101 Introduction to Oceanography (5)

Select one:

- (L) GEOL& 101 Introduction to Physical Geology (5)
- (L) GEOL& 110 Environmental Geology (5)

Pre-Law

(AA-DTA) Requirements

Faculty: Dr. John Lucas (PY)

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). Since 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.

Project Management

Contact: Dr. Paul Gerhardt, Advising (FS) Betty Boushey, PMP, Project Management Course Information

Every type of industry employs project managers. Project management core competencies are transferable. Competencies include planning, organizing and managing resources so that the project may be successfully completed. Pierce courses use the internationally recognized project management best practices from the Project Management Institute (PMI) in the Project Management Body of Knowledge (PMBOK Guide). The core project management courses (BUS 260 and BUS 261) are offered online.

The courses and certificates are designed to accommodate a variety of students who are interested in improving their employability and options for promotion by developing expertise in project management competencies.

- Not familiar with project management? You will receive a solid introduction to the profession.
- Already working on projects? You will be able to immediately apply globally recognized project management skills.
- Significant work experience? You will be able to refine your knowledge of Project Management standards and their application in the workplace.
- Students are expected to work and think like professional project managers and apply project management concepts in a class project simulation.
- Students should contact an academic advisor and talk to department faculty in your major about transfer options and certificates.

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

Professional/Technical

Project Management Certificate

Course Requirements (31-33 Credits)

- BTECA 117 Business Mathematics (5)
- BUS 240 Human Relations in the Workplace (5) †
- BUS 260 Project Management I: Planning (5) **
- BUS 261 Project Management II: Managing (5) **
- COLLG 110 College Success (3)

Select one:

- BTECA 115 Business English I (5) +
- ENGL& 101 English Composition I (5) +

Total Credits Required 31-33

†Meets related instruction requirements for professional/technical programs.

**Prerequisite required

Program code: 292C

Last revision: 2016-17

Project Management Short Certificate

Course Requirements (10 Credits)

- BUS 260 Project Management I: Planning (5) *
- BUS 261 Project Management II: Managing (5) *

Total Credits Required 10

*Prerequisite required

Program code: 292S

Last revision: 2016-17

Psychology

Faculty: Dr. JoAnne Geron, Dr. Thomas Link (FS); Sandra Croswaite, Leon Khalsa-Maulen (PY)

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.

University Transfer

Psychology Major

Psychology Major

This planning sheet lists only the courses related to the psychology major. Students planning to transfer as psychology majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. Psychology majors should work closely with a faculty advisor to plan an overall program of study.

Recommended Courses:

- PSYC& 100 General Psychology (5)

Two of the following:

*Check with the transfer institution for its preference/transferability of more than two 200 level psychology courses.

- 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) *

The following courses are recommended as part of the requirements for the AA-DTA degree:

Communication Skills

- ENGL& 101 English Composition I (5)
- ENGL& 102 Composition II: Argumentation and Research (5)

Quantitative/Symbolic Reasoning Skills

**For UW Seattle - see their requirements

- MATH& 146 Introduction to Statistics (5) **

Social Science

Two disciplines

- PSYC& 100 General Psychology (5)
- SOC& 101 Introduction to Sociology (5)
- SOC 211 Family and Intimate Relationships (5)
- ANTH& 100 Survey of Anthropology (5)
- ANTH& 106 The American Mosaic (5)
- ANTH& 206 Cultural Anthropology (5)

Humanities

Two disciplines

- PHIL& 101 Introduction to Philosophy (5)
- CMST& 101 Introduction to Communications (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)

Natural Science

Two disciplines, including one lab course indicated by an ①

- ① BIOL& 170 Human Biology: Anatomy & Physiology (5)
- BIOL& 175 Human Biology w/Lab: Anatomy & Physiology (5)
- ① BIOL& 160 General Biology w/Lab (5)
- NUTR& 101 Nutrition (5)
- Natural Science of your choice (5)

Reading

Faculty: Irene Brewer (FS)

Offered through a combination learning lab/lecture format, the reading program provides students a personalized way to increase their reading comprehension. Reading 99 is a requirement for students who upon entrance score below college-level based on test scores and other assessments that are used for placement. Successful completion of the course, with a 2.0 or better, is required for enrollment in ENGL& 101.

Social Service/Mental Health

Faculty: Dr. Denise Arnold (FS)

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 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 continuing their higher education. For those who already have college degrees but lack formal human service training, it provides a solid career foundation.

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

Professional/Technical

Social Service/Mental Health (AA-DTA) with Optional Certificate

(AA-DTA) Requirements

General Requirements (63 Credits)

College Success (3 Credits)

- COLLG 110 College Success (3)

Communications (10 Credits)

- ENGL& 101 English Composition I (5)
- CM GER Electives (ENGL& 102 recommended) (5)

Quantitative/Symbolic Reasoning Skills (5 Credits)

- QS GER Electives (MATH& 146 recommended) (5)

Humanities (15 Credits)

Select from two disciplines:

- HM GER Electives (10)

Select one:

- CMST& 101 Introduction to Communications (5)
- CMST& 220 Public Speaking (5)

Social Science (15 Credits)

- PSYC& 100 General Psychology (5)
- SOC& 101 Introduction to Sociology (5)

Select one:

- ANTH& 206 Cultural Anthropology (5)
 - ECON 110 Survey of Economics (5) *
- *ECON 110 recommended for transfer to social work at UW

Natural Science (15 Credits)

Select from two disciplines - lab class required:

- NS GER Electives (10)

Select one:

- BIOL& 100 Survey of Biology (5)
- BIOL& 160 General Biology w/Lab (5)
- BIOL& 170 Human Biology: Anatomy & Physiology (5)

Social Service/Mental Health Core/Certificate (36 Credits)

Psychology Courses (5 Credits)

Select one:

- PSYC& 180 Human Sexuality (5)
- PSYC& 200 Lifespan Psychology (5)
- PSYC 201 Psychology of Personal Growth (5)
- PSYC 210 Social Psychology (5)
- PSYC 215 Group Experience (5)
- PSYC& 220 Abnormal Psychology (5)
- PSYC 230 Intro to Personality (5)

Sociology Courses (5 Credits)

Select one:

- 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)

Social Service Mental Health Courses (26 Credits)

- SSMH 100 Introduction 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 Caregivers (3)
- SSMH 215 Law and Ethics in Social Services (5)

Select one:

- SSMH 185 Identity and Values in the Family (3)
- SSMH 230 Abuse in the Family (3)

Total Credits Required 99

Social Service/Mental Health Associate

General Requirements (28 Credits)

College Success

- COLLG 110 College Success (3)

Communications (10 Credits)

- ENGL& 101 English Composition I (5)

Select one:

- CMST& 101 Introduction to Communications (5)
- CMST& 220 Public Speaking (5)

Computation/Quantitative/Symbolic Reasoning Skills (5 Credits)

Any course meeting the AA-DTA QS requirement:

- 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 Introduction to Statistics (5)
- MATH 147 Business Precalculus (5)
- MATH& 148 Business Calculus (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)
- or
- BTECA 117 Business Mathematics (5)

Human Relations (10 Credits)

- PSYC& 100 General Psychology (5)

Select one:

- ANTH& 106 The American Mosaic (5)
- ANTH& 206 Cultural Anthropology (5)
- SOC& 101 Introduction to Sociology (5)

Social Service/Mental Health Core (64 Credits)

Social Service Foundation (18 Credits)

- HSSA& 101 Introduction to Chemical Dependency (3)
- PSYC& 220 Abnormal Psychology (5)
- SSMH 202 Social Service-Mental Health Field Experience 2 (5)

Select one:

- BIOL& 100 Survey of Biology (5)
- BIOL& 160 General Biology w/Lab (5)
- BIOL& 170 Human Biology: Anatomy & Physiology (5)

Social Service Mental Health Courses (46 Credits)

- SSMH 100 Introduction 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 Caregivers (3)
- SSMH 215 Law and Ethics in Social Services (5)
- 12 Electives approved by SSMH advisor (12)
(Any psychology, sociology, multicultural course or course related to career path)

Select one:

- SSMH 185 Identity and Values in the Family (3)
- SSMH 230 Abuse in the Family (3)

Psychology Courses (5 Credits)

Select one:

- PSYC& 180 Human Sexuality (5)
- PSYC& 200 Lifespan Psychology (5)
- PSYC 201 Psychology of Personal Growth (5)
- PSYC 210 Social Psychology (5)
- PSYC 215 Group Experience (5)
- PSYC 230 Intro to Personality (5)

Sociology Courses (5 Credits)

Select one:

- 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)

Total Credits Required 92

**Students must earn a minimum grade of 2.0 in all SSMH courses to earn an SSMH associate degree.*

Program code: 369

Last revision: 2016-17

Social Service/Mental Health Certificate

General Requirements (39 Credits)

College Success (3 Credits)

- COLLG 110 College Success (3)

Social Service Mental Health Courses (26 Credits)

- SSMH 100 Introduction 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 Caregivers (3)
- SSMH 215 Law and Ethics in Social Services (5)

Select one:

- SSMH 185 Identity and Values in the Family (3)
- SSMH 230 Abuse in the Family (3)

Psychology Courses (5 Credits)

Select one:

- 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 215 Group Experience (5)
- PSYC 230 Intro to Personality (5)

Sociology Courses (5 Credits)

Select one:

- SOC& 101 Introduction 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)

Total Credits Required 39

**Students must earn a minimum grade of 2.0 in all SSMH courses to earn an SSMH certificate.*

Program code: 369C

Last revision: 2016-17

Sociology

Faculty: Dr. Alan Kemp (FS); Leon Khalsa-Maulen, Daniel Suh (PY)

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.

University Transfer

Sociology Major

Sociology Major

This planning sheet lists only the courses related to the sociology major. Students planning to transfer as sociology majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. Sociology majors should work closely with a faculty advisor to plan an overall program of study.

The following courses are recommended:

- ANTH& 106 The American Mosaic (5)
- ANTH& 206 Cultural Anthropology (5)
- BIOL& 160 General Biology w/Lab (5)
- ENGL& 101 English Composition I (5)
- ENGL& 102 Composition II: Argumentation and Research (5)
- HIST& 126 World Civilizations I (5)
- HIST& 127 World Civilizations II (5)
- HIST& 128 World Civilizations III (5)
- MATH& 141 Precalculus I (5)
- MATH& 146 Introduction to Statistics (5)
- PSYC& 100 General Psychology (5)
- PSYC 210 Social Psychology (5)
- SOC& 101 Introduction 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)

Veterinary Technology

Faculty: Markiva Contris, LVT; Salvador Hurtado, DVM (FS)

Web site: www.pierce.ctc.edu/vet-tech

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. The selection process is competitive; therefore, not all applicants will be accepted. Candidates with the highest total scores will be notified of their acceptance status in late May (Tier I applicants) or early September (Tier II applicants) preceding the fall quarter for which they applied. See www.pierce.ctc.edu/vet-tech.

Professional/technical program competencies can be found on the Pierce College website at www.pierce.ctc.edu/vet-tech-outcomes.

All candidates must have the following courses, these courses may require prerequisites based upon placement scores.

- College-level biology (i.e. BIOL& 100, 5 credits)
- College-level chemistry (i.e., CHEM& 100, 5 credits)
- College-level intermediate algebra (i.e., MATH 096, 7 credits or MATH 098, 5 credits)
- College-level English (i.e. ENGL& 101, 5 credits)
- College-level medical terminology (i.e., BTECM 150, min. 3 credits)
- Grade of 2.0 or better for each program prerequisite course
- Program assessment 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. 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

Professional/Technical

Veterinary Technology Associate

Faculty: Markiva Contris, LVT; Salvador Hurtado, DVM (FS)

Web site: www.pierce.ctc.edu/vet-tech

NOTE: The Veterinary Technology courses are taught only at the Fort Steilacoom campus.

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. The selection process is competitive; therefore, not all applicants will be accepted. Candidates with the highest total scores will be notified of their acceptance status in late May (Tier I applicants) or early September (Tier II applicants) preceding the fall quarter for which they applied. See www.pierce.ctc.edu/vet-tech.

Professional/technical program competencies can be found at www.pierce.ctc.edu/dept/vettech/outcomes

All candidates must have the following courses, these courses may require prerequisites based upon placement scores.

- College-level biology (i.e. BIOL& 100, 5 credits)
- College-level chemistry (i.e., CHEM& 100, 5 credits)
- Intermediate algebra (i.e., MATH 096, 7 credits or MATH 098, 5 credits)
- College-level English (i.e. ENGL& 101, 5 credits)
- College-level medical terminology (i.e., BTECA 150, min. 3 credits)
- Grade of 2.0 or better for each program prerequisite course
- Program assessment 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. 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.

Starting in summer 2015, all new Pierce College students will be required to take COLLG 110 College Success within the first two quarters of starting coursework at Pierce College. Select students may be exempt from this requirement, including some students transferring in to Pierce College.

First Year

Fall Quarter (17 Credits)

- VT 100 Introduction to Veterinary Technology (2) *
- VT 101 Animal Nursing I Lecture (2)
- VT 102 Animal Nursing I Laboratory (2)
- VT 107 Medical Dosage for Veterinary Technicians (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 (16 Credits)

- VT 104 Animal Nursing II (5)
- VT 111 Ward Care Laboratory II (1)
- VT 123 Large Animal Nursing (4)
- VT 126 Animal Anatomy and Physiology II (3)
- VT 155 Nutrition and Complementary Therapies (2)
- VT 161 Applied Behavior Techniques II (1)

Spring Quarter (15 Credits)

- VT 105 Animal Nursing III (3)
- VT 112 Ward Care Laboratory III (1)
- VT 150 Clinical Microbiology and Public Health (6)
- VT 162 Applied Behavior Techniques III (1)
- VT 166 Hematology for Veterinary Technicians (4)

Second Year

Fall Quarter (15 Credits)

- VT 230 Anesthesiology (4)
- VT 250 Radiology for Veterinary Technicians (3)
- VT 251 Pharmacology for Veterinary Technicians (3)
- VT 266 Veterinary Clinical Pathology and Parasitology (5)

Winter Quarter (16 Credits)

- VT 215 Animal Hospital Office Procedures (2)
- VT 224 Veterinary Clinical Laboratory Principles (2)
- VT 240 Animal Diseases (3)
- VT 260 Emergency and Critical Care (3)
- VT 265 Clinical Techniques Laboratory (6)

Spring Quarter (14 Credits)

- VT 233 Veterinary Clinical Practice (14) (Clinics)

Total Credits Required 93

**VT 100 is open to all interested students, not just to those enrolled in the Veterinary Technology program.*

Program code: 115

Last revision: 2016-17

World Languages

Faculty: Janina Starr (PY)

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 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.

University Transfer

World Languages Major

This planning sheet lists only the courses related to the world languages major. Students planning to transfer as world languages majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. World languages majors should work closely with a faculty advisor to plan an overall program of study.

Western European Language Majors

Students wishing to major in Western European languages or area studies may find the following courses particularly useful:

- ANTH& 100 Survey of Anthropology (5)
- ART 145 History of Art - Contemporary (5)
- HIST& 127 World Civilizations II (5)
- HIST& 128 World Civilizations III (5)
- INTS 107 Introduction to International Studies (5)
- INTS 140 Contemporary Issues in International Studies (5)

Asian Language Majors

- ANTH& 100 Survey of Anthropology (5)
- ART 145 History of Art - Contemporary (5)
- HIST& 127 World Civilizations II (5)
- HIST& 128 World Civilizations III (5)
- HIST 270 Introduction to the Far East (5)
- HIST 280 Introduction to Chinese Civilization (5)
- INTS 107 Introduction to International Studies (5)
- INTS 140 Contemporary Issues in International Studies (5)

Programs A-Z

Accounting Office Assistant Certificate

General Requirements (13-14 Credits)

- COLLG 110 College Success (3)
- BTECA 136 Ten-Key Mastery (1) **
- BUS 240 Human Relations in the Workplace (5)

Select one:

- BTECA 115 Business English I (5)
- ENGL& 101 English Composition I (5) *

Introductory Classes (15 Credits)

- CIS 121 Introduction to Computer Information Systems (5)

Select one:

- ACCT 150 Introduction to Accounting and Bookkeeping I (5)
- ACCT& 201 Principles of Accounting I (5) *

Select one:

- ACCT 151 Introduction to Accounting and Bookkeeping II (5)
- ACCT& 202 Principles of Accounting II (5) *

Advanced Classes (15 Credits)

- ACCT 131 QuickBooks (5)
- ACCT 275 Payroll and Business Taxes (5)
- ACCT 276 Nonprofit Management and Reporting (5)

Internship (3 Credits)

Select one:

- ACCT 287 Income Tax Practicum (3)
- MNGT 198 Work-Based Learning (3)

Total Credits Required 46-47

*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 the Associate in Business - DTA degree.

**BTECA 136 may be waived if proficiency on 10-key is demonstrated.

Program Code: 505C

Last revision: 2017-18

Accounting Technology Certificate

General Requirements (13-14 Credits)

- COLLG 110 College Success (3)
- BTECA 136 Ten-Key Mastery (1) **
- BUS 240 Human Relations in the Workplace (5)

Select one:

- BTECA 115 Business English I (5)
- ENGL& 101 English Composition I (5) *

Introductory Classes (23 Credits)

- BTECA 117 Business Mathematics (5)
- CIS 121 Introduction to Computer Information Systems (5)

Select:

- CIS 136 Spreadsheet Applications (3)
or all three:
- BTECA 121 Microsoft Excel: Prepare Format Basic Worksheets (1)
- BTECA 122 Microsoft Excel: Insert Formulas and Enhancements (1)
- BTECA 123 Microsoft Excel: Create Charts and Diagrams (1)

Select one:

- ACCT 150 Introduction to Accounting and Bookkeeping I (5)
- ACCT& 201 Principles of Accounting I (5)

Select one:

- ACCT 151 Introduction to Accounting and Bookkeeping II (5)
- ACCT& 202 Principles of Accounting II (5)

Advanced Classes (20 Credits)

- ACCT 131 QuickBooks (5)
- ACCT 180 Accounting Systems (5)
- ACCT 275 Payroll and Business Taxes (5)
- ACCT 276 Nonprofit Management and Reporting (5)

Internship (3 Credits)

Select one:

- ACCT 287 Income Tax Practicum (3)
- MNGT 198 Work-Based Learning (3)

Total Credits Required 59-60

*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 the Associate in Business - DTA degree.

**BTECA 136 may be waived if proficiency on 10-key is demonstrated.

Program Code: TBA

Last revision: 2017-18

Administrative Assistant Medical Office 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.

BTECA/BTECM Requirements (60-61 Credits)

- COLLG 110 College Success (3)
- BTECA 102 Keyboard Skill Development: Alpha and Technical Improvement (1)
- BTECA 103 Keyboard Skill Development: Alphanumeric and Technical Improvement (1)
- BTECA 104 Keyboard Skill Development: Alphanumeric Improvement (1)
- BTECA 105 Keyboard Skill Development: Further Alphanumeric Improvement (1)
- BTECA 136 Ten-Key Mastery (1)
- BTECA 145 Records and Database Management (5)
- BTECA 160 Business Document Formatting: Basic (1)
- BTECA 161 Business Document Formatting: Advanced (1)
- BTECA 245 Cooperative Work Experience I (3)

- BTECA 246 Cooperative Work Experience II (3)
- BTECM 149 Introduction to the Medical Office (5)
- BTECM 150 Medical Terminology I (5)
- BTECM 151 Medical Terminology II (5)
- BTECM 250 Medical Forms and Referral Management (5)
- BTECM 257 Electronic Health Records (5)

Select both:

- BTECA 248 Business Information Technology Seminar I (2)
- BTECA 249 Business Information Technology Seminar II (2)

or select:

- MNGT 186 Professional Development (5)

Select 10 credits from the following:

- BTECA 109 Introduction to Windows (3)
- BTECA 110 Microsoft Word: Prepare and Edit Documents (1)
- BTECA 111 Microsoft Word: Enhance and Customize Documents (1)
- BTECA 112 Microsoft Word: Create Tables and Merge Documents (1)
- BTECA 121 Microsoft Excel: Prepare Format Basic Worksheets (1)
- BTECA 122 Microsoft Excel: Insert Formulas and Enhancements (1)
- BTECA 123 Microsoft Excel: Create Charts and Diagrams (1)
- BTECA 130 Microsoft PowerPoint: Create and Modify a Powerpoint Presentation (1)
- BTECA 131 Microsoft PowerPoint: Format and Add Visual Element (1)
- BTECA 132 Microsoft PowerPoint: Customize and Share a Presentation (1)
- BTECA 140 Microsoft Access: Create and Modify a Database (1)
- BTECA 141 Microsoft Access: Create and Queries and Forms (1)
- BTECA 142 Microsoft Access: Create Reports, Charts and Web Pages (1)
- BTECA 150 Microsoft Outlook: Using E-Mail and the Calendar (1)
- BTECA 151 Microsoft Outlook: Managing Tasks, Contacts and Inbox (1)
- BTECA 152 Microsoft Outlook: Customizing and Integrating Outlook (1)

General Requirements (33 Credits)

- BTECA 115 Business English I (5) *
- BTECA 116 Business English II (3) *
- BTECA 117 Business Mathematics (5) *
- BUS 240 Human Relations in the Workplace (5) *
- BTECA 250 Business Communications (5) *
- MNGT 130 Customer Relationship Management (5) *

Select one:

- BIOL& 170 Human Biology: Anatomy & Physiology (5)
- BIOL& 175 Human Biology w/Lab: Anatomy & Physiology (5)

Total Credits Required 93-95

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

Program code: 565

Last revision: 2017-18

Adult Basic Education

Faculty: Teah Bergstrom, Bill Orrange

Adult Basic Education (ABE) allows adults to improve their skills in reading, writing, math, and workplace and computer fundamentals in order to advance in a current job, become more employable or continue into professional technical or college programs. ABE classes are offered during the day or evening on campus or in the community.

Anthropology/Archaeology Major

This planning sheet lists only the courses related to the anthropology major. Students planning to transfer as anthropology majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should 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 anthropology 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& 102 Composition II: Argumentation and Research (5)

Anthropology majors are encouraged to take at least two quarters of world language.

Focus Requirements

In addition to the courses listed above, the following courses are recommended as relevant options for each focus. 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 The American Mosaic (5)
- ANTH 240 Women in Cross Cultural Perspectives (5)

- PSYC& 100 General Psychology (5)
and/or
- SOC& 101 Introduction to Sociology (5)

- GEOG 200 Human Geography (5)
or
- GEOG 100 Introduction to Geography (5)

- MATH& 146 Introduction to Statistics (5)
- ANTH& 210 Indians of North America (5) *
- ANTH& 216 Northwest Coast Indians (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 Introduction to Physical Geology (5)
- MATH& 146 Introduction to Statistics (5)
- ANTH& 210 Indians of North America (5) *
- ANTH& 216 Northwest Coast Indians (5) *

Biological Anthropology Focus

- BIOL& 160 General Biology w/Lab (5)
- BIOL& 241 Human Anatomy and Physiology 1 (6)
- CHEM& 121 Intro to Chemistry (5)
- MATH& 151 Calculus I (5)

- PSYC& 100 General Psychology (5)
and/or
- SOC& 101 Introduction 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 Introduction to Physical Geology (5)
- ANTH& 104 World Prehistory (5) *

Application Development Certificate

Core Requirements

PREREQUISITES

Placement at college level reading, math, and English; AND keyboarding 35 wpm; AND CIS 121 ; AND CIS 122 , OR appropriate placement, certifications, prior learning assessments.

- COLLG 110 College Success (3)
- CIS 123 Introduction to Object Oriented Programming (OOP) (5)
- CIS 185 Intermediate Object Oriented Programming (OOP) (5)
- CIS 210 Business Analysis (5)
- CIS 215 Client-Side Web Development (5)
- CIS 216 Server-Side Web Development (5)
- CIS 260 Database Management Systems (5)
- CIS 261 Structured Query Language (5)
- CIS 269 Advanced SQL Programming and Tuning (5)

Total Credits Required 43

Individual courses may require additional pre-requisites. Please see program coordinator for educational plan and correct sequencing of courses.

NOTE: Due to the rapid changes in the IT industry, the Special Topics courses, CIS 155 and CNE 155, may be substituted as needed into the CIS or CNE degree programs, on the advice of the CIS/CNE faculty and program coordinator.

Program Code: 503C

Last revision: 2016-17

Applied Accounting Associate

Some Accounting classes are only offered at the Puyallup Campus

General Requirements (28 Credits)

College Success (3 Credits)

- COLLG 110 College Success (3)

Communications (10 Credits)

Select one:

- BTECA 115 Business English I (5)
- ENGL& 101 English Composition I (5) *

Select one:

- CMST& 101 Introduction to Communications (5) *
- CMST& 220 Public Speaking (5) *

Computation/Quantitative/Symbolic Reasoning Skills (5 Credits)

Select one:

- BTECA 117 Business Mathematics (5)
- MATH 147 Business Precalculus (5) *

Human Relations and Leadership (10 Credits)

- BUS 240 Human Relations in the Workplace (5)
- MNGT 194 Principles of Leadership (5)

Accounting Requirements (40 Credits)

Select one:

- ACCT 150 Introduction to Accounting and Bookkeeping I (5)
- ACCT& 201 Principles of Accounting I (5)

Select one:

- ACCT 151 Introduction to Accounting and Bookkeeping II (5)
- ACCT& 202 Principles of Accounting II (5)

All of the following are required:

- ACCT 131 QuickBooks (5)
- 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 276 Nonprofit Management and Reporting (5)

Internship (3 Credits)

Select one:

- ACCT 287 Income Tax Practicum (3)
- MNGT 198 Work-Based Learning (3)

Business Requirements (17-19 Credits)

- BTECA 100 Business Keyboarding: Key the Alphabet by Touch (1)
- BTECA 101 Business Keyboarding: Key Numbers and Symbols by Touch (1)
- BTECA 110 Microsoft Word: Prepare and Edit Documents (1)
- BTECA 111 Microsoft Word: Enhance and Customize Documents (1)
- BTECA 112 Microsoft Word: Create Tables and Merge Documents (1)
- BTECA 136 Ten-Key Mastery (1)
- BUS& 201 Business Law (5)
- CIS 121 Introduction to Computer Information Systems (5)

Select one:

- CIS 136 Spreadsheet Applications (3)
or all three:

- BTECA 121 Microsoft Excel: Prepare Format Basic Worksheets (1)
- BTECA 122 Microsoft Excel: Insert Formulas and Enhancements (1)
- BTECA 123 Microsoft Excel: Create Charts and Diagrams (1)

Electives (3 Credits)

Total Credits Required 100

**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 the Associate in Business - DTA degree.*

Program Code: 505

Last revision: 2017-18

Art Major

This planning sheet lists only the courses related to the art major. Students planning to transfer as art majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. Art majors should work closely with a faculty advisor to plan an overall program of study. Students can also follow the (AA-Option B) Requirements.

Art Major

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

- ART& 100 Art Appreciation (5)
- ART 101 Design, Beginning (5)
- ART 102 Design, Intermediate (5)
- ART 105 Introduction to Art (5)
- ART 107 Photography, Beginning (5)
- ART 111 Drawing, Beginning (5)
- ART 112 Drawing, Intermediate (5)
- ART 113 Drawing, Advanced (5)
- ART 201 Painting, Beginning (5)
- ART 202 Painting, Intermediate (5)
- ART 203 Painting, Advanced (5)

Associate of Arts (AA-DTA)

The Associate of Arts degree (AA-DTA) is designed for students who plan to transfer to four-year institutions after completing the first two years of study at Pierce College. 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.

Pierce College's AA-DTA degree meets the Inter-College Relations Commission's 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 College 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 College. 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, the advising centers, or to an admissions office at the four-year institution of choice. Transfer information for four-year institutions in Washington state is available in the advising centers.

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.

Degree Outcomes

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 General Transferable Elective (GTE) credits, and 15 General Elective credits.
- ENGL& 101 English Composition I - required
- COLLG 110 College Success required during the first or second quarter of attendance
- Earn the lesser of (at least) 20 college level credits or 25% of the credits applicable to the degree or certificate 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 GTE courses is required unless stated otherwise
- "Pass" (P) grades, independent study and cooperative work experience/work-based learning credits may be used for general elective credits only
- Once a course has been successfully completed, credits earned may be used in only one category

Core Requirements

Communication Skills (10 Credits)

ENGL& 101 requires a 2.0 grade or higher. Second communications course required with a 1.5 or higher grade.

- ENGL& 101 English Composition I (5) required
- ENGL& 102 Composition II: Argumentation and Research (5)
- ENGL 107 Composition III: Writing About Literature (5)
- ENGL& 235 Technical Writing (5)
- JOURN 102 Introduction to News Writing (5)

Quantitative/Symbolic Reasoning Skills (5 Credits)

Requires a 1.5 grade or higher. **PREREQ:** Intermediate Algebra with 2.0 or higher or equivalent course work, or appropriate assessment scores.

- MATH& 107 Math in Society (5)
- MATH 114 Applied Algebra, Geometry and Trigonometry (5)
- MATH& 131 Math for Elem Educ 1: Number Systems and Problem Solving (5) *
- MATH& 132 Math for Elem Educ 2: Geometry and Statistics (5) *
- MATH& 141 Precalculus I (5)
- MATH& 142 Precalculus II (5)
- MATH& 146 Introduction to Statistics (5)
- MATH 147 Business Precalculus (5)
- MATH& 148 Business Calculus (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)
- PHIL& 120 Symbolic Logic (5)

Note:

** for education majors*

Humanities (15 Credits)

Requires a 1.5 grade or higher. Select from at least **two** disciplines. No more than **five** credits from performance/skills courses and no more than **five** credits are allowed in world language at the 100-level.

- ART& 100 Art Appreciation (5)
- ART 105 Introduction to Art (5)
- ART 145 History of Art - Contemporary (5)
- ART 215 Art for Teachers (5)
- ART 243 History of Art – Ancient World Through the Middle Ages (5)
- ART 244 History of Art – Renaissance Through Rococo (5)
- ART 245 History of Art – The Modern World (5)
- ASL& 121 American Sign Language I (5)
- ASL& 122 American Sign Language II (5)
- ASL& 123 American Sign Language III (5)
- ASL& 221 American Sign Language IV (5)
- ASL& 222 American Sign Language V (5)
- ASL& 223 American Sign Language VI (5)
- CMST& 101 Introduction to Communications (5)
- CMST& 102 Introduction to Mass Media (5)

- CMST 105 Intercultural Communication (5)
- CMST& 220 Public Speaking (5)
- CMST& 230 Small Group Communication (5)
- DRMA& 101 Introduction to the Theatre (5)
- DRMA 160 Introduction 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 204 The Bible as Literature (5)
- ENGL 205 Introduction to Mythology (5)
- ENGL 207 Native American Literature (5)
- ENGL 210 Introduction to American Literature (5)
- ENGL 214 Screenwriting I (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& 236 Creative Writing I (5)
- ENGL& 237 Creative Writing II (5)
- ENGL& 238 Creative Writing 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 249 Creative Writing: Special Projects (5)
- ENGL 264 Literature of U.S. Slavery and Abolition (5)
- ENGL 265 American Literature: Comedy, Humor and Satire (5)
- ENGL 266 Women Writers: Voices from the International Mosaic (5)
- FRCH& 121 French I (5)
- FRCH& 122 French II (5)
- FRCH& 123 French III (5)
- GERM& 121 German I (5)
- GERM& 122 German II (5)
- GERM& 123 German III (5)
- HUM& 101 Introduction 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 161 Western Thought and Culture I: The Classical World (5)
- HUM 162 Western Thought and Culture II: The Middle Ages (5)
- HUM 163 Western Thought and Culture III: Birth of the Modern World (5)
- HUM 164 Western Thought and Culture IV: The Modern World (5)
- HUM 204 American Popular Culture (5)
- HUM 209 The Civil Rights Movement: From the Ground Up (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 Japanese I (5)
- JAPN& 122 Japanese II (5)
- JAPN& 123 Japanese III (5)
- JOURN 103 Introduction to Feature Writing (1-5)
- JOURN 125 The Documentary: A Social Force (5)
- KREA& 121 Korean I (5)
- KREA& 122 Korean II (5)
- KREA& 123 Korean III (5)
- MUSC 100 Introduction to Rock & Roll (5)
- MUSC 102 American Popular Music (5)
- MUSC 103 Introduction to Jazz (5)
- MUSC& 105 Music Appreciation (5)
- MUSC 106 World Music (5)
- MUSC& 141 Music Theory I (5)
- MUSC& 142 Music Theory II (5)
- MUSC& 143 Music Theory III (5)
- MUSC 205 Music for Teachers (5)
- MUSC& 241 Music Theory IV (5)
- MUSC& 242 Music Theory V (5)
- MUSC& 243 Music Theory VI (5)
- PHIL& 101 Introduction to Philosophy (5)
- PHIL 110 Introduction to Bioethics (5)
- PHIL& 115 Critical Thinking (5)
- PHIL 150 Introduction to Ethics (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 Russian I (5)
- RUSS& 122 Russian II (5)
- RUSS& 123 Russian III (5)
- SPAN& 121 Spanish I (5)
- SPAN& 122 Spanish II (5)
- SPAN& 123 Spanish III (5)

Humanities Performance/Skills (5 Credits Maximum)

- ART 101 Design, Beginning (5)
- ART 102 Design, Intermediate (5)
- ART 107 Photography, Beginning (5)
- ART 111 Drawing, Beginning (5)
- ART 112 Drawing, Intermediate (5)
- ART 113 Drawing, Advanced (5)
- ART 115 3-Dimensional Design (5)

- ART 150 Printmaking, Beginning (5)
- ART 201 Painting, Beginning (5)
- ART 202 Painting, Intermediate (5)
- ART 203 Painting, Advanced (5)
- ART 204 Watercolor, Beginning (5)
- ART 211 Beginning Sculpture (5)
- ART 260 Art in Motion: Real and Recorded (5)
- DRMA 170 Technical Film and Theatre I (5)
- DRMA 171 Technical Film and Theatre II (5)
- DRMA 172 Technical Film and Theatre III (5)
- DRMA 260 Acting for Stage and Digital Film I (5)
- DRMA 261 Acting for Stage and Digital Film II (5)
- DRMA 262 Acting for Stage and Digital Film III (5)
- DRMA 280 Production Practicum I (1-3)
- DRMA 281 Production Practicum II (1-3)
- DRMA 282 Production Practicum III (1-3)
- DRMA 283 Production Practicum IV (1-3)
- DRMA 284 Production Practicum V (1-3)
- DRMA 285 Production Practicum VI (1-3)
- MUSC 126 Beginning Class Guitar (1)
- MUSC 127 Intermediate Class Guitar (1)
- MUSC 144 Concert Choir (2)
- MUSC 147 Chamber Choir (2)
- MUSC 150 College Band (2)
- MUSC 154 College Orchestra (1)
- MUSC 157 Jazz Band (2)
- MUSC 160 Private Instruction: Arranging (1)
- MUSC 161 Private Instruction: Improvisation (1)
- MUSC 162 Private Instruction: Brass (1)
- MUSC 163 Private Instruction: Woodwind (1)
- MUSC 164 Private Instruction: Percussion (1)
- MUSC 165 Private Instruction: Voice (1)
- MUSC 166 Private Instruction: Orchestral Strings (1)
- MUSC 167 Private Instruction: Keyboard (1)
- MUSC 168 Private Instruction: Plectrum Strings (1)
- MUSC 170 Brass Ensemble (1)
- MUSC 171 Woodwind Ensemble (1)
- MUSC 172 Percussion Ensemble (1)
- MUSC 173 String Ensemble (1)
- MUSC 174 Vocal Ensemble (1)
- MUSC 181 Beginning Class Piano (1)
- MUSC 182 Intermediate Class Piano (1)
- MUSC 183 Advanced Class Piano (1)
- MUSC 244 Concert Choir (2)
- MUSC 247 Chamber Choir (2)
- MUSC 250 College Band (2)
- MUSC 254 College Orchestra (1)
- MUSC 257 Jazz Band (2)

- MUSC 260 Private Instruction: Arranging (1)
- MUSC 261 Private Instruction: Improvisation (1)
- MUSC 262 Private Instruction: Brass (1)
- MUSC 263 Private Instruction: Woodwind (1)
- MUSC 264 Private Instruction: Percussion (1)
- MUSC 265 Private Instruction: Voice (1)
- MUSC 266 Private Instruction: Orchestral Strings (1)
- MUSC 267 Private Instruction: Keyboard (1)
- MUSC 268 Private Instruction: Plectrum Strings (1)
- MUSC 270 Brass Ensemble (1)
- MUSC 271 Woodwind Ensemble (1)
- MUSC 272 Percussion Ensemble (1)
- MUSC 273 String Ensemble (1)
- MUSC 274 Vocal Ensemble (1)


Social Sciences (15 Credits)


Requires a 1.5 grade or higher. Select from at least **two** disciplines.

- ANTH& 100 Survey of Anthropology (5)
- ANTH& 104 World Prehistory (5)
- ANTH& 106 The 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 Introduction to Business (5)
- BUS& 201 Business Law (5)
- CJ& 105 Corrections in America (5)
- CJ 112 Criminal Justice in America (5)
- CJ 202 Concepts of Criminal Law (5)
- ECED& 105 Introduction to Early Childhood Education (5)
- ECON 110 Survey of Economics (5)
- ECON& 201 Microeconomics (5)
- ECON& 202 Macroeconomics (5)
- EDUC& 115 Child Development (5)
- GEOG 100 Introduction to Geography (5)
- GEOG 150 The Americas, Australia, Europe and New Zealand (5)
- GEOG 160 Africa, Middle East and Asia (5)
- GEOG 200 Human Geography (5)
- GEOG 207 Economic Geography (5)
- HIST& 126 World Civilizations I (5)
- HIST& 127 World Civilizations II (5)
- HIST& 128 World Civilizations III (5)
- HIST& 156 History of U. S. I (5)

- HIST& 157 History of U. S. II (5)
- HIST& 158 History of U.S. III (5)
- HIST& 159 History of U.S. IV (5)
- HIST 168 Vietnam War as History (5)
- HIST 175 A Brief History of Global Leadership (5)
- HIST& 214 Pacific Northwest History (5)
- HIST 260 History of Russia and the Soviet Union (5)
- HIST 265 History of Latin American Since 1810 (5)
- HIST 266 History of Europe Since 1870 (5)
- HIST 270 Introduction to the Far East (5)
- HIST 272 Survey of Middle East History (5)
- HIST 277 The Cold War (5)
- HIST 280 Introduction to Chinese Civilization (5)
- HIST 284 Introduction to the Balkans (5)
- HIST 287 History of Japan Since Antiquity (5)
- INTS 107 Introduction 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 in the Modern World (5)
- POLS& 101 Introduction to 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 Intro to Personality (5)
- SOC& 101 Introduction 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 235 Race and Ethnicity (5)

Natural Sciences (15 Credits)

Requires a 1.5 grade or higher. Choose at least **one** laboratory science - indicated by an  and from at least **two** different disciplines.

- ANTH& 205 Biological Anthropology (5)
-  ANTH& 236 Forensic Anthropology (5)
- ASTR& 100 Survey of Astronomy (5)

- ① ASTR& 101 Introduction to Astronomy (5)
- ① ASTR 105 Survey of Astrobiology (5)
- ① ASTR& 110 The Solar System (5)
- ① ASTR& 115 Stars, Galaxies and the Cosmos (5)
- ① ATMOS 101 Introduction to Weather (5)
- ① BIOL& 100 Survey of Biology (5)
- ① BIOL& 160 General Biology w/Lab (5)
- BIOL& 170 Human Biology: Anatomy & Physiology (5)
- ① BIOL& 175 Human Biology w/Lab: Anatomy & Physiology (5)
- ① BIOL& 211 Majors: Cellular (5)
- ① BIOL& 212 Majors: Animals (5)
- ① BIOL& 213 Majors: Plant (5)
- ① BIOL& 241 Human Anatomy and Physiology 1 (6)
- ① BIOL& 242 Human Anatomy and Physiology 2 (6)
- ① BIOL& 260 Microbiology (5)
- CHEM& 100 Preparatory Chemistry (5)
- ① CHEM& 110 Chemical Concepts with Lab (5)
- ① CHEM& 121 Intro to Chemistry (5)
- ① CHEM& 131 Intro to Organic/Biochemistry (6)
- CHEM& 139 General Chemistry Prep (5)
- ① CHEM& 161 General Chemistry with Lab I (5)
- ① CHEM& 162 General Chemistry with Lab II (5)
- ① CHEM& 163 General Chemistry with Lab III (5)
- ① CHEM& 261 Organic Chemistry with Lab I (6)
- ① CHEM& 262 Organic Chemistry with Lab II (6)
- ① CHEM& 263 Organic Chemistry with Lab III (6)
- ENGR 101 Introduction to Engineering (5)
- ENV& 100 Survey of Environmental Science (5)
- ENV& 140 Western Water Problems (5)
- ENV& 150 Environmental Issues (5)
- ① ENV& 155 Applied Environmental Methods (5)
- GEOG 205 Physical Geography (5)
- ① GEOG 210 Physical Geography (5)
- ① GEOL& 101 Introduction to Physical Geology (5)
- ① GEOL& 103 Historical Geology (5)
- ① GEOL 107 Exploring Earth Science (5)
- ① GEOL& 110 Environmental Geology (5)
- ① GEOL& 115 Geology of National Parks (5)
- ① GEOL& 120 Volcanoes (5)
- GEOL& 208 Geology of Pacific Northwest (5)
- GEOL 220 Earth Resources and the Environment (5)
- ① GEOL 283 Regional Geology (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 Introduction to Statistics (5)
- MATH 147 Business Precalculus (5)
- MATH& 148 Business Calculus (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)
- ① NSCI 150 Nature (5)
- ① NSCI 160 Environmental Biology (5)
- ① NSCI 300 Inquiry Based Science for Teachers (5)
- NUTR& 101 Nutrition (5)
- ① OCEA& 101 Introduction to Oceanography (5)
- ① OCEA 170 Marine Biology (5)
- PHIL& 120 Symbolic Logic (5)
- ① PHYS& 110 Physics for Non-Science Majors (5)
- ① PHYS& 114 General Physics I (5)
- ① PHYS& 115 General Physics II (5)
- ① PHYS& 116 General Physics III (5)
- ① PHYS& 221 Engineering Physics I (6)
- ① PHYS& 222 Engineering Physics II (6)
- ① PHYS& 223 Engineering Physics III (6)
- ① PS 101 Introduction to Physical Science (5)

General Transferable Electives (15 Credits)

Courses require a 1.5 grade or higher. A minimum of 15 credits must be earned from the approved General Transferable Elective (GTE) list. Courses taken for a pass/no pass grade, independent study, or cooperative work experience/workbased learning courses do not apply to the GTE area. Select from:

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

GTE APPROVED COURSES BY DEPARTMENT

ACCOUNTING: Only ACCT& 201, ACCT& 202 and ACCT& 203

ANTHROPOLOGY: All, except ANTH 150 or ANTH 151

ART: All

ASTRONOMY: All

ATMOSPHERIC SCIENCE: All

BIOLOGY: All

BUSINESS: Only BUS& 101 and BUS& 201

CHEMISTRY: All

COMMUNICATION STUDIES: All

COMPUTER SCIENCE: CS& 141 and CS 202

CRIMINAL JUSTICE: Only CJ& 105, CJ 112, CJ 115, CJ 120, CJ 150, CJ 200, CJ 202, CJ 215 and CJ 245

DIGITAL DESIGN: Only DDSGN 140, DDSGN 170 and DDSGN 211
DRAMA: All except DRMA 255
EARLY CHILDHOOD EDUCATION: Only ECED& 105, ECED 335 and ECED& 355
ECONOMICS: All
EDUCATION: EDUC& 115, EDUC 190, EDUC& 202 and EDUC& 203
ENGINEERING: All
ENGLISH: All except ENGL 104, ENGL 145, ENGL 250, ENGL 256 and ENGL 257
ENVIRONMENTAL SCIENCE: All
GEOGRAPHY: All
GEOLOGY: All
HISTORY: All
HUMANITIES: All
INTERDISCIPLINARY STUDIES: All except INTS 292
JOURNALISM: Only JOURN 102, JOURN 103 and JOURN 125
MATHEMATICS: All
MUSIC: All except MUSC 107, MUSC 108, MUSC 109
NATURAL SCIENCE: All
NUTRITION: All
OCEANOGRAPHY: All
PHILOSOPHY: All
PHYSICAL SCIENCE: All
PHYSICS: All
POLITICAL SCIENCE: All
PSYCHOLOGY: All except PSYC 192
SOCIAL SERVICE/MENTAL HEALTH: Only HSSA& 101 and SSMH 100
SOCIOLOGY: All
WORLD LANGUAGES: All

General Electives (15 Credits)

Courses require a 1.0 grade or higher. Maximum of 15 credits of courses numbered 100 and above may be applied to this area. These credits may include, professional technical, physical education (three credits maximum), cooperative education, courses taken under the P/NP option, independent study, etc.

- COLLG 110 College Success (3) required with a 2.0 or higher grade

Program Code: AAFP

Associate of Science (AS-T) Degree Track 1

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

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.

Degree Outcomes

General Degree Requirements

- Minimum of 90 earned credits in courses numbered 100 or above is required to complete the AS-T degree
- ENGL& 101 English Composition I - required
- COLLG 110 College Success required during the first or second quarter of attendance
- Earn the lesser of (at least) 20 college level credits or 25% of the credits applicable to the degree or certificate at Pierce College
- Cumulative college-level grade point average (GPA) of 2.0 or higher is required
- 1.5 grade (C-) or higher is required for all coursework, unless stated otherwise
- "Pass" (P) grades, independent study and cooperative work experience/work-based learning credits may be used for general elective credits only
- Once a course has been successfully completed, credits earned may be used in only one category

General Required Courses (30 Credits)

Communications (5 Credits)

ENGL& 101 requires a 2.0 or higher grade.

- ENGL& 101 English Composition I (5)

Quantitative/Symbolic Reasoning Skills (10 Credits)

Math courses require a 1.5 or higher grade.

- MATH& 151 Calculus I (5)
- MATH& 152 Calculus II (5)

Humanities (5-10 Credits)

Requires a 1.5 grade or higher. No more than **five** credits from performance/skills are allowed and no more than **five** credits at the 100-level in world language.

Must take 5 credits from Humanities, 5 credits from Social Science and 5 credits from either Humanities or Social Science.

- ART& 100 Art Appreciation (5)
- ART 105 Introduction to Art (5)
- ART 145 History of Art - Contemporary (5)
- ART 215 Art for Teachers (5)
- ART 243 History of Art – Ancient World Through the Middle Ages (5)
- ART 244 History of Art – Renaissance Through Rococo (5)
- ART 245 History of Art – The Modern World (5)
- ASL& 121 American Sign Language I (5)
- ASL& 122 American Sign Language II (5)

- ASL& 123 American Sign Language III (5)
- ASL& 221 American Sign Language IV (5)
- ASL& 222 American Sign Language V (5)
- ASL& 223 American Sign Language VI (5)
- CMST& 101 Introduction to Communications (5)
- CMST& 102 Introduction to Mass Media (5)
- CMST 105 Intercultural Communication (5)
- CMST& 220 Public Speaking (5)
- CMST& 230 Small Group Communication (5)
- DRMA& 101 Introduction to the Theatre (5)
- DRMA 160 Introduction 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 204 The Bible as Literature (5)
- ENGL 205 Introduction to Mythology (5)
- ENGL 207 Native American Literature (5)
- ENGL 210 Introduction to American Literature (5)
- ENGL 214 Screenwriting I (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& 236 Creative Writing I (5)
- ENGL& 237 Creative Writing II (5)
- ENGL& 238 Creative Writing 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 249 Creative Writing: Special Projects (5)
- ENGL 264 Literature of U.S. Slavery and Abolition (5)
- ENGL 265 American Literature: Comedy, Humor and Satire (5)
- FRCH& 121 French I (5)
- FRCH& 122 French II (5)
- FRCH& 123 French III (5)
- GERM& 121 German I (5)
- GERM& 122 German II (5)
- GERM& 123 German III (5)
- HUM& 101 Introduction 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 120 Introduction to Folklore (5)
- HUM 161 Western Thought and Culture I: The Classical World (5)
- HUM 162 Western Thought and Culture II: The Middle Ages (5)

- HUM 163 Western Thought and Culture III: Birth of the Modern World (5)
- HUM 164 Western Thought and Culture IV: The Modern World (5)
- HUM 204 American Popular Culture (5)
- HUM 209 The Civil Rights Movement: From the Ground Up (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)
- PHIL& 101 Introduction to Philosophy (5)
- PHIL 110 Introduction to Bioethics (5)
- PHIL& 115 Critical Thinking (5)
- PHIL 150 Introduction to Ethics (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 Russian I (5)
- RUSS& 122 Russian II (5)
- RUSS& 123 Russian III (5)
- SPAN& 121 Spanish I (5)
- SPAN& 122 Spanish II (5)
- SPAN& 123 Spanish III (5)
- SPAN& 221 Spanish IV (5)

Humanities Performance/Skills

- ART 101 Design, Beginning (5)
- ART 102 Design, Intermediate (5)
- ART 107 Photography, Beginning (5)
- ART 111 Drawing, Beginning (5)
- ART 112 Drawing, Intermediate (5)
- ART 113 Drawing, Advanced (5)
- ART 115 3-Dimensional Design (5)
- ART 150 Printmaking, Beginning (5)
- ART 201 Painting, Beginning (5)
- ART 202 Painting, Intermediate (5)
- ART 203 Painting, Advanced (5)
- ART 204 Watercolor, Beginning (5)
- ART 211 Beginning Sculpture (5)
- ART 260 Art in Motion: Real and Recorded (5)
- DRMA 170 Technical Film and Theatre I (5)
- DRMA 171 Technical Film and Theatre II (5)
- DRMA 172 Technical Film and Theatre III (5)
- DRMA 260 Acting for Stage and Digital Film I (5)
- DRMA 261 Acting for Stage and Digital Film II (5)
- DRMA 262 Acting for Stage and Digital Film III (5)
- DRMA 280 Production Practicum I (1-3)

- DRMA 281 Production Practicum II (1-3)
- DRMA 282 Production Practicum III (1-3)
- DRMA 283 Production Practicum IV (1-3)
- DRMA 284 Production Practicum V (1-3)
- DRMA 285 Production Practicum VI (1-3)
- MUSC 126 Beginning Class Guitar (1)
- MUSC 127 Intermediate Class Guitar (1)
- MUSC 144 Concert Choir (2)
- MUSC 147 Chamber Choir (2)
- MUSC 150 College Band (2)
- MUSC 154 College Orchestra (1)
- MUSC 157 Jazz Band (2)
- MUSC 160 Private Instruction: Arranging (1)
- MUSC 161 Private Instruction: Improvisation (1)
- MUSC 162 Private Instruction: Brass (1)
- MUSC 163 Private Instruction: Woodwind (1)
- MUSC 164 Private Instruction: Percussion (1)
- MUSC 165 Private Instruction: Voice (1)
- MUSC 166 Private Instruction: Orchestral Strings (1)
- MUSC 167 Private Instruction: Keyboard (1)
- MUSC 168 Private Instruction: Plectrum Strings (1)
- MUSC 170 Brass Ensemble (1)
- MUSC 171 Woodwind Ensemble (1)
- MUSC 172 Percussion Ensemble (1)
- MUSC 173 String Ensemble (1)
- MUSC 174 Vocal Ensemble (1)
- MUSC 181 Beginning Class Piano (1)
- MUSC 182 Intermediate Class Piano (1)
- MUSC 183 Advanced Class Piano (1)
- MUSC 244 Concert Choir (2)
- MUSC 247 Chamber Choir (2)
- MUSC 250 College Band (2)
- MUSC 254 College Orchestra (1)
- MUSC 257 Jazz Band (2)
- MUSC 260 Private Instruction: Arranging (1)
- MUSC 261 Private Instruction: Improvisation (1)
- MUSC 262 Private Instruction: Brass (1)
- MUSC 263 Private Instruction: Woodwind (1)
- MUSC 264 Private Instruction: Percussion (1)
- MUSC 265 Private Instruction: Voice (1)
- MUSC 266 Private Instruction: Orchestral Strings (1)
- MUSC 267 Private Instruction: Keyboard (1)
- MUSC 268 Private Instruction: Plectrum Strings (1)
- MUSC 270 Brass Ensemble (1)
- MUSC 271 Woodwind Ensemble (1)
- MUSC 272 Percussion Ensemble (1)
- MUSC 273 String Ensemble (1)
- MUSC 274 Vocal Ensemble (1)

Social Sciences (5-10 Credits)

Requires a 1.5 grade or higher.

Must take 5 credits from Humanities, 5 credits from Social Science and 5 credits from either Humanities or Social Science.

- ANTH& 100 Survey of Anthropology (5)
- ANTH& 104 World Prehistory (5)
- ANTH& 106 The 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 Introduction to Business (5)
- BUS& 201 Business Law (5)
- CJ& 105 Corrections in America (5)
- CJ 112 Criminal Justice in America (5)
- CJ 202 Concepts of Criminal Law (5)
- ECED& 105 Introduction to Early Childhood Education (5)
- ECED 335 Law and Ethics (3)
- ECED& 355 Social and Political Context of Early Childhood Education (3)
- ECON 110 Survey of Economics (5)
- ECON& 201 Microeconomics (5)
- ECON& 202 Macroeconomics (5)
- EDUC& 115 Child Development (5)
- GEOG 100 Introduction to Geography (5)
- GEOG 150 The Americas, Australia, Europe and New Zealand (5)
- GEOG 160 Africa, Middle East and Asia (5)
- GEOG 200 Human Geography (5)
- GEOG 207 Economic Geography (5)
- HIST& 126 World Civilizations I (5)
- HIST& 127 World Civilizations II (5)
- HIST& 128 World Civilizations III (5)
- HIST& 156 History of U. S. I (5)
- HIST& 157 History of U. S. II (5)
- HIST& 158 History of U.S. III (5)
- HIST& 159 History of U.S. IV (5)
- HIST 168 Vietnam War as History (5)
- HIST 175 A Brief History of Global Leadership (5)
- HIST& 214 Pacific Northwest History (5)
- HIST 260 History of Russia and the Soviet Union (5)
- HIST 265 History of Latin American Since 1810 (5)
- HIST 266 History of Europe Since 1870 (5)
- HIST 267 History of Africa Since 1800 (5)
- HIST 270 Introduction to the Far East (5)

- HIST 272 Survey of Middle East History (5)
- HIST 277 The Cold War (5)
- HIST 280 Introduction to Chinese Civilization (5)
- HIST 284 Introduction to the Balkans (5)
- HIST 287 History of Japan Since Antiquity (5)
- INTS 107 Introduction 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 in the Modern World (5)
- INTS 300 Social Studies for Teachers (5)
- POLS& 101 Introduction to 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 Intro to Personality (5)
- SOC& 101 Introduction 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 235 Race and Ethnicity (5)

Science Pre-Major Requirements (35-38 Credits)

Requires a 1.5 grade or higher. Some baccalaureate institutions require physics with calculus. Sequences should not be broken up between institutions (e.g. the typical three-quarter physics sequence should be taken entirely at one institution).

- CHEM& 161 General Chemistry with Lab I (5)
- CHEM& 162 General Chemistry with Lab II (5)
- CHEM& 163 General Chemistry with Lab III (5)

Select one:

- MATH& 146 Introduction to Statistics (5)
- MATH& 153 Calculus III (5)

Select one of the following sequences:

Students should check with the receiving institution to determine which sequence is appropriate.

- BIOL& 211 Majors: Cellular (5)
- BIOL& 212 Majors: Animals (5)
- BIOL& 213 Majors: Plant (5)
- or
- PHYS& 114 General Physics I (5)
- PHYS& 115 General Physics II (5)
- PHYS& 116 General Physics III (5)
- or
- PHYS& 221 Engineering Physics I (6)
- PHYS& 222 Engineering Physics II (6)
- PHYS& 223 Engineering Physics III (6)

Additional Science Requirements (15-18 Credits)

Requires a 1.5 grade or higher. Courses in physics, geology, organic chemistry, biology or mathematics normally taken by science majors (not for general education), preferably in a two- or three-quarter sequence, chosen with the help of an advisor. Biology majors should select organic Chemistry or physics for this requirement.

List of Appropriate Courses:

- BIOL& 241 Human Anatomy and Physiology 1 (6)
- BIOL& 242 Human Anatomy and Physiology 2 (6)
- BIOL& 211 Majors: Cellular (5)
- BIOL& 212 Majors: Animals (5)
- BIOL& 213 Majors: Plant (5)
- CHEM& 261 Organic Chemistry with Lab I (6)
- CHEM& 262 Organic Chemistry with Lab II (6)
- CHEM& 263 Organic Chemistry with Lab III (6)
- GEOL& 101 Introduction to Physical Geology (5)
- GEOL& 103 Historical Geology (5)
- GEOL& 110 Environmental Geology (5)
- GEOL 220 Earth Resources and the Environment (5)
- MATH& 146 Introduction to Statistics (5)
- MATH& 153 Calculus III (5)
- MATH 205 Linear Algebra (5)
- MATH 224 Multivariate Calculus (5)
- MATH 238 Differential Equations (5)

Select one series:

- PHYS& 114 General Physics I (5)
- PHYS& 115 General Physics II (5)
- PHYS& 116 General Physics III (5)
- or

- PHYS& 221 Engineering Physics I (6)
- PHYS& 222 Engineering Physics II (6)
- PHYS& 223 Engineering Physics III (6)

General Electives (10 Credits)

College-level courses numbered 100 and above. Remaining credits may include prerequisites for pre-major courses (e.g., pre-calculus), meet additional major coursework, or specific general education or other university requirements, as approved by the advisor. A maximum of three physical activity (PE) credits can be applied to this degree.

- COLLG 110 College Success (3) required with a 2.0 or higher grade

Total Credits 90-101

Notes

- Students completing this Associate of Science Transfer 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.
- Courses taken 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 requirements, cultural diversity requirements, and foreign language requirements, as required by the transfer institution, must be met prior to the completion of a baccalaureate degree.
- Students should be advised that some baccalaureate institutions require physics with calculus.
- Biology majors should select organic chemistry or physics for the Science Pre-Major Requirements.
- Pre-calculus cannot be used to satisfy the mathematics requirement.
- Students are responsible for checking specific major requirements of baccalaureate institutions in the year prior to transferring.
- Sequences should not be broken up between institutions (e.g., the typical three-quarter physics sequence should be taken entirely at one institution).

Program Code: AS1

Astronomy/Earth Science Major

This planning sheet lists only the courses related to the astronomy/earth science major. Students planning to transfer as astronomy/earth science majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. Astronomy/earth science majors should work closely with a faculty advisor to plan an overall program of study.

Astronomy/Earth Science Major

- ASTR& 100 Survey of Astronomy (5) (non-lab)
- ASTR& 101 Introduction to Astronomy (5) (lab)
- ASTR 105 Survey of Astrobiology (5)

- ASTR& 110 The Solar System (5)
- ASTR& 115 Stars, Galaxies and the Cosmos (5)

Athletic Coaching Certificate

General Requirements (25 Credits)

The KINS courses are offered at the Fort Steilacoom campus only.

- KINS 250 Kinesiology (5)
- KINS 252 Nutrition and Exercise (3)
- KINS 258 Athletic Training and Acute Injury Management (3)
- KINS 261 Principles of Coaching (2)
- KINS 263 Applied Sport Psychology (5)
- KINS 264 Drugs and Sports (3)
- KINS 267 Internship (3)

Physical Education (1 Credit)

- Students are required to complete a one credit Physical Education course. (1)

Total Credits Required 25

Program code: 351A

Last revision: 2016-17

Atmospheric Science Major

This planning sheet lists only the courses related to the atmospheric science major. Students planning to transfer as atmospheric science majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. Atmospheric science majors should work closely with a faculty advisor to plan an overall program of study.

Atmospheric Science Major

- ATMOS 101 Introduction to Weather (5)
- CHEM& 161 General Chemistry with Lab I (5)
- CHEM& 162 General Chemistry with Lab II (5)

- CHEM& 163 General Chemistry with Lab III (5)
- MATH& 141 Precalculus I (5)
- MATH& 151 Calculus I (5)
- MATH& 152 Calculus II (5)
- MATH& 153 Calculus III (5)
- PHYS& 221 Engineering Physics I (6)
- PHYS& 222 Engineering Physics II (6)
- PHYS& 223 Engineering Physics III (6)
- GEOL& 101 Introduction to Physical Geology (5)
- GEOG 205 Physical Geography (5)
- ENVS& 100 Survey of Environmental Science (5)
- OCEA& 101 Introduction to Oceanography (5)
- Computer Sciences and Programming (5)
- Electives in the Earth Sciences and Geography (5)

Bachelor of Applied Science (BAS)

To keep up — and stay ahead — in the ever-changing workplace, education and skills training is a lifelong pursuit. Get the skills to go further in your career with a bachelor's degree from a community or technical college. An applied bachelor's degree builds on the education and training from a two-year technical associate degree.

Bachelor of Applied Science in Dental Hygiene (BASDH). The BASDH prepares the student for graduate school where courses and credits apply. Within Washington State, the Pierce College BASDH is accepted for entrance into the University of Washington's Master of Science (Dental Hygiene) in Oral Biology.

The Bachelor of Applied Science in Homeland Security Emergency Management (BASHSEM) is an online multi-disciplinary management level program designed to train the next generation of adaptive leaders to work collaboratively across industry sectors and interact with each other to produce a synchronized plan for a whole community response to emergencies, disasters or catastrophic events. Homeland Security Emergency Management is a cross-functional industry that requires managers and leaders that have the ability to think through multiple systems, processes, and relationships to analyze how various public, private, and non-profit organizations function. Courses are based on industry established competencies in leadership, planning, systems thinking, disaster communications, ethics and legal issues, cultural diversity, information management, financial and budget systems, and risk assessment and management. The degree includes an internship opportunity to apply skills and knowledge acquired through classroom study in an industry setting.

Bachelor of Applied Science in Teaching. The BAS in Teaching builds on the college's professional-technical program in early childhood education while giving students access to a baccalaureate degree with teacher certification and endorsements in P-3 early childhood education and early childhood special education.

Dental Hygiene (BASDH)

Homeland Security Emergency Management (BAS/HSEM)

Teaching (BAS-T)

Biology (DTA/MRP)

This pathway is applicable to students planning to prepare for upper division Bachelor's degree majors in Biology. Many students transfer to baccalaureate institutions after completing the Associate in Biology Direct Transfer Agreement/Major Ready Pathway (DTA/MRP). This degree streamlines and facilitates preparation for upper division course work in Biology across the state.

Biology major transfer students could complete the Associate of Science (AS-T) Degree Track 1. Students could transfer to baccalaureate institutions after completing the Associate of Arts (AA-DTA) ; this pathway does not alter that agreement or the possibility that students may continue to follow this path. Students should also check with the transfer institution regarding specific requirements and transferable credits.

Degree Outcomes

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 General Transferable Elective (GTE) credits, and 15 General Elective credits.
- ENGL& 101 English Composition I - required
- COLLG 110 College Success required during the first or second quarter of attendance
- Earn the lesser of (at least) 20 college level credits or 25% of the credits applicable to the degree or certificate 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 GTE courses is required unless stated otherwise
- "Pass" (P) grades, independent study and cooperative work experience/work-based learning credits may be used for general elective credits only
- Once a course has been successfully completed, credits earned may be used in only one category

Core Requirements

Communications (10 Credits)

ENGL& 101 requires a 2.0 or higher grade. Second communications course requires a 1.5 or higher grade.

- ENGL& 101 English Composition I (5) required

Select one:

- ENGL& 102 Composition II: Argumentation and Research (5)
- ENGL 107 Composition III: Writing About Literature (5)

Quantitative Skills (5 Credits)

Requires a 1.5 or higher grade.

Intermediate algebra proficiency leading to a pre-calculus math course is required. Intermediate algebra proficiency may be demonstrated by successful completion of a calculus and/or statistics course for which intermediate algebra is a prerequisite.

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

Select one:

- MATH& 146 Introduction to Statistics (5) *
- MATH& 151 Calculus I (5)

Humanities (15 Credits)

Requires a 1.5 or higher grade. Select from at least **two** disciplines. Nor more than **five** credits from performance skills and no more than **five** credits are allowed in world language.

- ART& 100 Art Appreciation (5)
- ART 105 Introduction to Art (5)
- ART 145 History of Art - Contemporary (5)
- ART 215 Art for Teachers (5)
- ART 243 History of Art – Ancient World Through the Middle Ages (5)
- ART 244 History of Art – Renaissance Through Rococo (5)
- ART 245 History of Art – The Modern World (5)
- ART 260 Art in Motion: Real and Recorded (5)
- ASL& 121 American Sign Language I (5)
- ASL& 122 American Sign Language II (5)
- ASL& 123 American Sign Language III (5)
- ASL& 221 American Sign Language IV (5)
- ASL& 222 American Sign Language V (5)
- ASL& 223 American Sign Language VI (5)
- CMST& 101 Introduction to Communications (5)
- CMST& 102 Introduction to Mass Media (5)
- CMST 105 Intercultural Communication (5)
- CMST& 220 Public Speaking (5)
- CMST& 230 Small Group Communication (5)
- DRMA& 101 Introduction to the Theatre (5)
- DRMA 160 Introduction 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 204 The Bible as Literature (5)
- ENGL 205 Introduction to Mythology (5)
- ENGL 207 Native American Literature (5)
- ENGL 210 Introduction to American Literature (5)
- ENGL 214 Screenwriting I (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& 236 Creative Writing I (5)
- ENGL& 237 Creative Writing II (5)
- ENGL& 238 Creative Writing 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 249 Creative Writing: Special Projects (5)
- ENGL 264 Literature of U.S. Slavery and Abolition (5)
- ENGL 265 American Literature: Comedy, Humor and Satire (5)
- ENGL 266 Women Writers: Voices from the International Mosaic (5)
- FRCH& 121 French I (5)
- FRCH& 122 French II (5)
- FRCH& 123 French III (5)
- GERM& 121 German I (5)
- GERM& 122 German II (5)
- GERM& 123 German III (5)
- HUM& 101 Introduction 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 120 Introduction to Folklore (5)
- HUM 161 Western Thought and Culture I: The Classical World (5)
- HUM 162 Western Thought and Culture II: The Middle Ages (5)
- HUM 163 Western Thought and Culture III: Birth of the Modern World (5)
- HUM 164 Western Thought and Culture IV: The Modern World (5)
- HUM 204 American Popular Culture (5)
- HUM 209 The Civil Rights Movement: From the Ground Up (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 Japanese I (5)
- JAPN& 122 Japanese II (5)
- JAPN& 123 Japanese III (5)
- JOURN 103 Introduction to Feature Writing (1-5)
- JOURN 125 The Documentary: A Social Force (5)
- KREA& 121 Korean I (5)
- KREA& 122 Korean II (5)
- KREA& 123 Korean III (5)
- MUSC 100 Introduction to Rock & Roll (5)
- MUSC 102 American Popular Music (5)
- MUSC 103 Introduction to Jazz (5)
- MUSC& 105 Music Appreciation (5)
- MUSC 106 World Music (5)
- MUSC& 141 Music Theory I (5)
- MUSC& 142 Music Theory II (5)
- MUSC& 143 Music Theory III (5)
- MUSC& 241 Music Theory IV (5)
- MUSC& 242 Music Theory V (5)

- MUSC& 243 Music Theory VI (5)
- MUSC 205 Music for Teachers (5)
- PHIL& 101 Introduction to Philosophy (5)
- PHIL 110 Introduction to Bioethics (5)
- PHIL& 115 Critical Thinking (5)
- PHIL 150 Introduction to Ethics (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 Russian I (5)
- RUSS& 122 Russian II (5)
- RUSS& 123 Russian III (5)
- SPAN& 121 Spanish I (5)
- SPAN& 122 Spanish II (5)
- SPAN& 123 Spanish III (5)
- SPAN& 221 Spanish IV (5)

Humanities Performance/Skills

- ART 101 Design, Beginning (5)
- ART 102 Design, Intermediate (5)
- ART 107 Photography, Beginning (5)
- ART 113 Drawing, Advanced (5)
- ART 111 Drawing, Beginning (5)
- ART 112 Drawing, Intermediate (5)
- ART 115 3-Dimensional Design (5)
- ART 150 Printmaking, Beginning (5)
- ART 201 Painting, Beginning (5)
- ART 202 Painting, Intermediate (5)
- ART 203 Painting, Advanced (5)
- ART 204 Watercolor, Beginning (5)
- ART 211 Beginning Sculpture (5)
- DRMA 170 Technical Film and Theatre I (5)
- DRMA 171 Technical Film and Theatre II (5)
- DRMA 172 Technical Film and Theatre III (5)
- DRMA 260 Acting for Stage and Digital Film I (5)
- DRMA 261 Acting for Stage and Digital Film II (5)
- DRMA 262 Acting for Stage and Digital Film III (5)
- DRMA 280 Production Practicum I (1-3)
- DRMA 281 Production Practicum II (1-3)
- DRMA 282 Production Practicum III (1-3)
- DRMA 283 Production Practicum IV (1-3)
- DRMA 284 Production Practicum V (1-3)
- DRMA 285 Production Practicum VI (1-3)
- MUSC 126 Beginning Class Guitar (1)
- MUSC 127 Intermediate Class Guitar (1)

- MUSC 144 Concert Choir (2)
- MUSC 147 Chamber Choir (2)
- MUSC 150 College Band (2)
- MUSC 154 College Orchestra (1)
- MUSC 157 Jazz Band (2)
- MUSC 160 Private Instruction: Arranging (1)
- MUSC 161 Private Instruction: Improvisation (1)
- MUSC 162 Private Instruction: Brass (1)
- MUSC 163 Private Instruction: Woodwind (1)
- MUSC 164 Private Instruction: Percussion (1)
- MUSC 165 Private Instruction: Voice (1)
- MUSC 166 Private Instruction: Orchestral Strings (1)
- MUSC 167 Private Instruction: Keyboard (1)
- MUSC 168 Private Instruction: Plectrum Strings (1)
- MUSC 170 Brass Ensemble (1)
- MUSC 171 Woodwind Ensemble (1)
- MUSC 172 Percussion Ensemble (1)
- MUSC 173 String Ensemble (1)
- MUSC 174 Vocal Ensemble (1)
- MUSC 181 Beginning Class Piano (1)
- MUSC 182 Intermediate Class Piano (1)
- MUSC 183 Advanced Class Piano (1)
- MUSC 244 Concert Choir (2)
- MUSC 247 Chamber Choir (2)
- MUSC 250 College Band (2)
- MUSC 257 Jazz Band (2)
- MUSC 260 Private Instruction: Arranging (1)
- MUSC 261 Private Instruction: Improvisation (1)
- MUSC 262 Private Instruction: Brass (1)
- MUSC 263 Private Instruction: Woodwind (1)
- MUSC 264 Private Instruction: Percussion (1)
- MUSC 265 Private Instruction: Voice (1)
- MUSC 266 Private Instruction: Orchestral Strings (1)
- MUSC 267 Private Instruction: Keyboard (1)
- MUSC 268 Private Instruction: Plectrum Strings (1)
- MUSC 270 Brass Ensemble (1)
- MUSC 271 Woodwind Ensemble (1)
- MUSC 272 Percussion Ensemble (1)
- MUSC 273 String Ensemble (1)
- MUSC 274 Vocal Ensemble (1)

Social Sciences (15 Credits)

Requires a 1.5 or higher grade. Select from at least **two** disciplines.

- ANTH& 100 Survey of Anthropology (5)
- ANTH& 104 World Prehistory (5)

- ANTH& 106 The 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 Introduction to Business (5)
- BUS& 201 Business Law (5)
- CJ& 105 Corrections in America (5)
- CJ 112 Criminal Justice in America (5)
- CJ 202 Concepts of Criminal Law (5)
- ECED& 105 Introduction to Early Childhood Education (5)
- ECED 335 Law and Ethics (3)
- ECED& 355 Social and Political Context of Early Childhood Education (3)
- ECON 110 Survey of Economics (5)
- ECON& 201 Microeconomics (5)
- ECON& 202 Macroeconomics (5)
- EDUC& 115 Child Development (5)
- GEOG 100 Introduction to Geography (5)
- GEOG 150 The Americas, Australia, Europe and New Zealand (5)
- GEOG 160 Africa, Middle East and Asia (5)
- GEOG 200 Human Geography (5)
- HIST& 126 World Civilizations I (5)
- HIST& 127 World Civilizations II (5)
- HIST& 128 World Civilizations III (5)
- HIST& 156 History of U. S. I (5)
- HIST& 157 History of U. S. II (5)
- HIST& 158 History of U.S. III (5)
- HIST& 159 History of U.S. IV (5)
- HIST 168 Vietnam War as History (5)
- HIST 175 A Brief History of Global Leadership (5)
- HIST& 214 Pacific Northwest History (5)
- HIST 260 History of Russia and the Soviet Union (5)
- HIST 265 History of Latin American Since 1810 (5)
- HIST 266 History of Europe Since 1870 (5)
- HIST 267 History of Africa Since 1800 (5)
- HIST 270 Introduction to the Far East (5)
- HIST 272 Survey of Middle East History (5)
- HIST 277 The Cold War (5)
- HIST 280 Introduction to Chinese Civilization (5)
- HIST 284 Introduction to the Balkans (5)
- HIST 287 History of Japan Since Antiquity (5)
- INTS 107 Introduction 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 in the Modern World (5)
- INTS 300 Social Studies for Teachers (5)

- POLS& 101 Introduction to 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 Intro to Personality (5)
- SOC& 101 Introduction 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 235 Race and Ethnicity (5)

Natural Sciences (30 Credits)

Requires a 1.5 grade or higher. A full year sequence at a single college is the best preparation for the baccalaureate biology degree.

- BIOL& 211 Majors: Cellular (5)
- BIOL& 212 Majors: Animals (5)
- BIOL& 213 Majors: Plant (5)
- CHEM& 161 General Chemistry with Lab I (5)
- CHEM& 162 General Chemistry with Lab II (5)
- CHEM& 163 General Chemistry with Lab III (5)

General Electives (15 Credits)

Minimum grade of 1.0 is required. Additional college-level courses so that the total credits earned is a least 90 credits. May include pre-requisites for major courses, additional coursework, or specific general education or other university requirements. A maximum of three PE activity credits can be applied to this degree.

- COLLG 110 College Success (3) required with a 2.0 or higher grade

Total Credits 90

Program Code: ABT

Notes:

- Admission application deadlines vary; students must meet the deadline for the university or universities to which they plan to apply for transfer admission.
- Certain schools may have additional university-specific requirements that are not prerequisites to admission to the Biology major but will need to be completed prior to graduation. Contact with advisors from individual schools for institutional requirements is highly recommended since this DTA may not meet every institution specific graduation requirement.
- Certain schools may have additional university-specific requirements for admission to the institution that are not prerequisites specifically identified in the DTA requirements.
- 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 and social science courses that best support or may be required as prerequisites to their Biology curriculum.
- Students should check with the transfer institution prior to taking any further biology courses beyond the one-year sequence. Some colleges require all continuing biology courses be taken at the 300 level.

Bookkeeping Office Assistant Certificate

General Requirements (10 Credits)

- ACCT 131 QuickBooks (5)

Select one:

- ACCT 150 Introduction to Accounting and Bookkeeping I (5)
- ACCT& 201 Principles of Accounting I (5)

Total Credits Required 10

Program code: TBA

Last revision: 2016-17

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 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.

This degree can be earned in one of three ways. In addition to the traditional classroom-based format, students can also earn the degree online or through our new competency-based education program.

Degree Outcomes

Online Associate in Business - DTA/MRP Degree

In order to meet the changing needs of our students, Pierce College now offers the Associate in Business – DTA/MRP degree entirely online. The requirements for the online degree are the same as the traditional program, but with added flexibility. Students enroll and complete classes during the traditional academic quarters.

Competency-Based Business Transfer Degree

The Associate in Business – DTA/MRP degree can also be earned through Pierce's Competency Based Education (CBE) program, which is completely online and self-paced. Students work through competencies, taking advantage of prior experience in work or life where appropriate. There is a formal application to the program and students enroll in six-month terms. Along with instructors, a completion coach is dedicated specifically to assist students with progress toward the degree. Many of these courses will make greater use of free or low-cost textbooks available to students online. For more information, visit www.pierce.ctc.edu/dept/business/competencybasedprograms or email cbe@pierce.ctc.edu.

General Degree Requirements

- Minimum of 90 earned credits in courses numbered 100 or above
- ENGL 101 English Composition I - required
- COLLG 110 College Success required during the first or second quarter of attendance
- Earn the lesser of (at least) 20 college level credits or 25% of the credits applicable to the degree or certificate 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 stated otherwise
- "Pass" (P) grades, independent study and cooperative work experience/work-based learning credits may be used for general elective credits only
- Once a course has been successfully completed, credits earned may be used in only one category

Core Requirements

Communication Skills (10 Credits)

ENGL& 101 requires a 2.0 grade or higher. Second communications course requires a 1.5 or higher grade. Must include a least **five** credits of English composition. Remaining credits may be used for an additional composition course or designated writing courses or courses in basic speaking skills (e.g. speech, rhetoric, or debate).

To meet current EWU requirements, the second English Composition course must be equivalent to EWU's English 201 - College Composition: Analysis, Research, and Documentation.

- ENGL& 101 English Composition I (5)

Select one:

- ENGL& 102 Composition II: Argumentation and Research (5)
- ENGL 107 Composition III: Writing About Literature (5)

Quantitative/Symbolic Reasoning Skills (10 Credits)

Students must meet stated math prerequisites. MATH 147 and MATH& 148 are required with a 2.0 grade or higher.

- MATH 147 Business Precalculus (5)
- MATH& 148 Business Calculus (5)

Humanities (15 Credits)

Courses require a 1.5 grade or higher. Selected from at least **two** disciplines. No more than **10** credits allowed from any **one** discipline. No more than **five** credits in world language at the 100 level, and no more than **five** credits in performance/skills courses are allowed.

Students pursuing an international business major should consult their potential transfer institutions regarding the level of world language required for admission to the major.

Students are encouraged to include a speech or oral communication course (not small group communication.)

- ART& 100 Art Appreciation (5)
- ART 105 Introduction to Art (5)
- ART 145 History of Art - Contemporary (5)
- ART 215 Art for Teachers (5)
- ART 243 History of Art – Ancient World Through the Middle Ages (5)
- ART 244 History of Art – Renaissance Through Rococo (5)
- ART 245 History of Art – The Modern World (5)
- ART 260 Art in Motion: Real and Recorded (5)
- ASL& 121 American Sign Language I (5)
- ASL& 122 American Sign Language II (5)
- ASL& 123 American Sign Language III (5)
- ASL& 221 American Sign Language IV (5)
- ASL& 222 American Sign Language V (5)
- ASL& 223 American Sign Language VI (5)
- CMST& 101 Introduction to Communications (5)
- CMST& 102 Introduction to Mass Media (5)
- CMST 105 Intercultural Communication (5)

- CMST& 220 Public Speaking (5)
- DRMA& 101 Introduction to the Theatre (5)
- DRMA 160 Introduction 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 204 The Bible as Literature (5)
- ENGL 205 Introduction to Mythology (5)
- ENGL 207 Native American Literature (5)
- ENGL 210 Introduction to American Literature (5)
- ENGL 214 Screenwriting I (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& 235 Technical Writing (5)
- ENGL& 236 Creative Writing I (5)
- ENGL& 237 Creative Writing II (5)
- ENGL& 238 Creative Writing 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: Comedy, Humor and Satire (5)
- ENGL 266 Women Writers: Voices from the International Mosaic (5)
- FRCH& 121 French I (5)
- FRCH& 122 French II (5)
- FRCH& 123 French III (5)
- GERM& 121 German I (5)
- GERM& 122 German II (5)
- GERM& 123 German III (5)
- HUM& 101 Introduction 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 120 Introduction to Folklore (5)
- HUM 161 Western Thought and Culture I: The Classical World (5)
- HUM 162 Western Thought and Culture II: The Middle Ages (5)
- HUM 163 Western Thought and Culture III: Birth of the Modern World (5)
- HUM 164 Western Thought and Culture IV: The Modern World (5)
- HUM 204 American Popular Culture (5)
- HUM 209 The Civil Rights Movement: From the Ground Up (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 Japanese I (5)
- JAPN& 122 Japanese II (5)
- JAPN& 123 Japanese III (5)
- JOURN 103 Introduction to Feature Writing (1-5)
- JOURN 125 The Documentary: A Social Force (5)
- KREA& 121 Korean I (5)
- KREA& 122 Korean II (5)
- KREA& 123 Korean III (5)
- MUSC 100 Introduction to Rock & Roll (5)
- MUSC 102 American Popular Music (5)
- MUSC 103 Introduction to Jazz (5)
- MUSC& 105 Music Appreciation (5)
- MUSC 106 World Music (5)
- MUSC& 141 Music Theory I (5)
- MUSC& 142 Music Theory II (5)
- MUSC& 143 Music Theory III (5)
- MUSC 205 Music for Teachers (5)
- MUSC& 241 Music Theory IV (5)
- MUSC& 242 Music Theory V (5)
- MUSC& 243 Music Theory VI (5)
- PHIL& 101 Introduction to Philosophy (5)
- PHIL 110 Introduction to Bioethics (5)
- PHIL 150 Introduction to Ethics (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 Russian I (5)
- RUSS& 122 Russian II (5)
- RUSS& 123 Russian III (5)
- SPAN& 121 Spanish I (5)
- SPAN& 122 Spanish II (5)
- SPAN& 123 Spanish III (5)
- SPAN& 221 Spanish IV (5)

Humanities Performance/Skills

- ART 101 Design, Beginning (5)
- ART 102 Design, Intermediate (5)
- ART 107 Photography, Beginning (5)
- ART 111 Drawing, Beginning (5)
- ART 112 Drawing, Intermediate (5)
- ART 113 Drawing, Advanced (5)
- ART 150 Printmaking, Beginning (5)
- ART 201 Painting, Beginning (5)
- ART 202 Painting, Intermediate (5)

- ART 203 Painting, Advanced (5)
- ART 204 Watercolor, Beginning (5)
- ART 211 Beginning Sculpture (5)
- DRMA 170 Technical Film and Theatre I (5)
- DRMA 171 Technical Film and Theatre II (5)
- DRMA 260 Acting for Stage and Digital Film I (5)
- DRMA 261 Acting for Stage and Digital Film II (5)
- DRMA 262 Acting for Stage and Digital Film III (5)
- DRMA 280 Production Practicum I (1-3)
- DRMA 281 Production Practicum II (1-3)
- DRMA 282 Production Practicum III (1-3)
- DRMA 283 Production Practicum IV (1-3)
- DRMA 284 Production Practicum V (1-3)
- DRMA 285 Production Practicum VI (1-3)
- MUSC 126 Beginning Class Guitar (1)
- MUSC 127 Intermediate Class Guitar (1)
- MUSC 144 Concert Choir (2)
- MUSC 147 Chamber Choir (2)
- MUSC 150 College Band (2)
- MUSC 154 College Orchestra (1)
- MUSC 157 Jazz Band (2)
- MUSC 160 Private Instruction: Arranging (1)
- MUSC 161 Private Instruction: Improvisation (1)
- MUSC 162 Private Instruction: Brass (1)
- MUSC 163 Private Instruction: Woodwind (1)
- MUSC 164 Private Instruction: Percussion (1)
- MUSC 165 Private Instruction: Voice (1)
- MUSC 166 Private Instruction: Orchestral Strings (1)
- MUSC 167 Private Instruction: Keyboard (1)
- MUSC 168 Private Instruction: Plectrum Strings (1)
- MUSC 170 Brass Ensemble (1)
- MUSC 171 Woodwind Ensemble (1)
- MUSC 172 Percussion Ensemble (1)
- MUSC 173 String Ensemble (1)
- MUSC 174 Vocal Ensemble (1)
- MUSC 181 Beginning Class Piano (1)
- MUSC 182 Intermediate Class Piano (1)
- MUSC 183 Advanced Class Piano (1)
- MUSC 244 Concert Choir (2)
- MUSC 247 Chamber Choir (2)
- MUSC 250 College Band (2)
- MUSC 254 College Orchestra (1)
- MUSC 257 Jazz Band (2)
- MUSC 260 Private Instruction: Arranging (1)
- MUSC 261 Private Instruction: Improvisation (1)
- MUSC 262 Private Instruction: Brass (1)
- MUSC 263 Private Instruction: Woodwind (1)
- MUSC 264 Private Instruction: Percussion (1)

- MUSC 265 Private Instruction: Voice (1)
- MUSC 266 Private Instruction: Orchestral Strings (1)
- MUSC 267 Private Instruction: Keyboard (1)
- MUSC 268 Private Instruction: Plectrum Strings (1)
- MUSC 270 Brass Ensemble (1)
- MUSC 271 Woodwind Ensemble (1)
- MUSC 272 Percussion Ensemble (1)
- MUSC 273 String Ensemble (1)
- MUSC 274 Vocal Ensemble (1)


Social Sciences (15 Credits)

Courses require a 1.5 grade or higher. Select from at least **two** disciplines. Nor more than **ten** credits allowed from any **one** discipline. Minimum grade for required business major-related courses ECON& 201 and ECON& 202 is a 2.0 or higher.

- ECON& 201 Microeconomics (5) required
- ECON& 202 Macroeconomics (5) required
- ANTH& 100 Survey of Anthropology (5)
- ANTH& 104 World Prehistory (5)
- ANTH& 106 The 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& 236 Forensic Anthropology (5)
- ANTH& 240 Women in Cross Cultural Perspectives (5)
- BUS& 101 Introduction to Business (5)
- CJ& 105 Corrections in America (5)
- CJ& 112 Criminal Justice in America (5)
- CJ& 202 Concepts of Criminal Law (5)
- ECED& 105 Introduction to Early Childhood Education (5)
- ECED& 335 Law and Ethics (3)
- ECED& 355 Social and Political Context of Early Childhood Education (3)
- EDUC& 115 Child Development (5)
- GEOG 100 Introduction to Geography (5)
- GEOG 150 The Americas, Australia, Europe and New Zealand (5)
- GEOG 160 Africa, Middle East and Asia (5)
- GEOG 200 Human Geography (5)
- HIST& 126 World Civilizations I (5)
- HIST& 127 World Civilizations II (5)
- HIST& 128 World Civilizations III (5)
- HIST& 156 History of U. S. I (5)
- HIST& 157 History of U. S. II (5)
- HIST& 158 History of U.S. III (5)
- HIST& 159 History of U.S. IV (5)
- HIST& 168 Vietnam War as History (5)

- HIST 175 A Brief History of Global Leadership (5)
- HIST& 214 Pacific Northwest History (5)
- HIST 260 History of Russia and the Soviet Union (5)
- HIST 265 History of Latin American Since 1810 (5)
- HIST 266 History of Europe Since 1870 (5)
- HIST 267 History of Africa Since 1800 (5)
- HIST 270 Introduction to the Far East (5)
- HIST 272 Survey of Middle East History (5)
- HIST 277 The Cold War (5)
- HIST 280 Introduction to Chinese Civilization (5)
- HIST 284 Introduction to the Balkans (5)
- HIST 287 History of Japan Since Antiquity (5)
- INTS 107 Introduction 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 in the Modern World (5)
- INTS 300 Social Studies for Teachers (5)
- POLS& 101 Introduction to 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 215 Group Experience (5)
- PSYC& 220 Abnormal Psychology (5)
- PSYC 230 Intro to Personality (5)
- SOC& 101 Introduction 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 235 Race and Ethnicity (5)

Natural Sciences (15-18 Credits)

Courses require a 1.5 grade or higher. Select from at least **two** disciplines. No more than **ten** credits allowed from any one discipline. Select at least **ten** credits in physical, biological and/or earth sciences. Must include at least **one** laboratory course indicated by an . MATH& 146 is required.

Students intending the manufacturing management major at WWU should consult WWU regarding the selection of natural science courses required for admission to the major.

- MATH& 146 Introduction to Statistics (5) required
- ANTH& 205 Biological Anthropology (5)
- ① ANTH& 236 Forensic Anthropology (5)
- ASTR& 100 Survey of Astronomy (5)
- ① ASTR& 101 Introduction to Astronomy (5)
- ① ASTR 105 Survey of Astrobiology (5)
- ① ASTR& 110 The Solar System (5)
- ① ASTR& 115 Stars, Galaxies and the Cosmos (5)
- ① ATMOS 101 Introduction to Weather (5)
- ① BIOL& 100 Survey of Biology (5)
- ① BIOL& 160 General Biology w/Lab (5)
- BIOL& 170 Human Biology: Anatomy & Physiology (5)
- ① BIOL& 175 Human Biology w/Lab: Anatomy & Physiology (5)
- ① BIOL& 211 Majors: Cellular (5)
- ① BIOL& 212 Majors: Animals (5)
- ① BIOL& 213 Majors: Plant (5)
- ① BIOL& 241 Human Anatomy and Physiology 1 (6)
- ① BIOL& 242 Human Anatomy and Physiology 2 (6)
- ① BIOL& 260 Microbiology (5)
- CHEM& 100 Preparatory Chemistry (5)
- ① CHEM& 110 Chemical Concepts with Lab (5)
- ① CHEM& 121 Intro to Chemistry (5)
- ① CHEM& 131 Intro to Organic/Biochemistry (6)
- CHEM& 139 General Chemistry Prep (5)
- ① CHEM& 161 General Chemistry with Lab I (5)
- ① CHEM& 162 General Chemistry with Lab II (5)
- ① CHEM& 163 General Chemistry with Lab III (5)
- ① CHEM& 261 Organic Chemistry with Lab I (6)
- ① CHEM& 262 Organic Chemistry with Lab II (6)
- ① CHEM& 263 Organic Chemistry with Lab III (6)
- ENGR 101 Introduction to Engineering (5)
- ENV& 100 Survey of Environmental Science (5)
- ENV& 150 Environmental Issues (5)
- ① ENV& 155 Applied Environmental Methods (5)
- GEOG 205 Physical Geography (5)
- ① GEOG 210 Physical Geography (5)
- ① GEOL& 101 Introduction to Physical Geology (5)
- ① GEOL& 103 Historical Geology (5)
- ① GEOL 107 Exploring Earth Science (5)
- ① GEOL& 110 Environmental Geology (5)
- ① GEOL& 115 Geology of National Parks (5)
- ① GEOL& 120 Volcanoes (5)
- ① GEOL 283 Regional Geology (5)
- ① NSCI 150 Nature (5)
- ① NSCI 160 Environmental Biology (5)

- ① NSCI 300 Inquiry Based Science for Teachers (5)
- NUTR& 101 Nutrition (5)
- ① OCEA& 101 Introduction to Oceanography (5)
- ① OCEA 170 Marine Biology (5)
- PHIL& 120 Symbolic Logic (5)
- ① PHYS& 110 Physics for Non-Science Majors (5)
- ① PHYS& 114 General Physics I (5)
- ① PHYS& 115 General Physics II (5)
- ① PHYS& 116 General Physics III (5)
- ① PHYS& 221 Engineering Physics I (6)
- ① PHYS& 222 Engineering Physics II (6)
- ① PHYS& 223 Engineering Physics III (6)
- ① PS 101 Introduction to Physical Science (5)

Business/Specific Course/GTE (20 Credits)

Minimum grade for business major-related courses is a grade of 2.0 or higher.

Universities with a lower division Business Law requirement: UW (all campuses), WSU (all campuses), EWU, CWU, WWU, Gonzaga, SMU, SPU and Whitworth. The following institutions do not require a lower division elective, but generally not as an equivalent to the course required at the upper division: Heritage, PLU, SU, and Walla Walla University.

International students who completed a business law course specific to their home country must take a business law course at a U.S. institution in order to demonstrate proficiency in U.S. business law.

- ACCT& 201 Principles of Accounting I (5) required
- ACCT& 202 Principles of Accounting II (5) required
- ACCT& 203 Principles of Accounting III (5) required
- BUS& 201 Business Law (5) required

General Electives (5 Credits)

Maximum of **five** credits of courses numbered 100 and above may be applied to this requirement. See notes below or check four-year information for appropriate elective course needed — e.g., a world language or computer course requirement. A maximum of three physical activity (PE) credits can be applied to this degree.

Four institutions have requirements for admission to the major that go beyond those specified above. Students can meet these requirements by careful selection of the elective university course equivalent to UW (all campuses): Management Information Systems - MIS 250, Gonzaga: Management Information Systems - BMIS 235, PLU: Computer Applications - CSCE 120, either an equivalent course or skills test, SPU: Spreadsheet - BUS 1700 or equivalent course skills test.

- COLLG 110 College Success (3) required with a 2.0 or higher grade

Total Credits Required 90-93

- Minimum grade-point average requirements are established by each institution. Meeting the minimum requirements does not guarantee admission. Business programs are competitive and may require a higher GPA overall, a higher GPA in a selected subset of courses or a specific grade in one or more courses.
- Students who enrolled prior to Fall 2012 have a two-year grace period to transfer.
- Other college-level courses, of which a maximum of 15 credits 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. Where appropriate, preparation courses for the major should be included in this course work.

Program Code: ASBT

Business Analysis Certificate

PREREQUISITES

College level reading, mathematics and English; AND keyboarding 35 wpm; AND CIS 121 ; OR appropriate assessment, certifications, prior learning assessments.

Core Requirements (41 Credits)

- COLLG 110 College Success (3)
- BUS 240 Human Relations in the Workplace (5)
- CMST& 220 Public Speaking (5)
- CIS 122 Introduction to Computer Programming (5)
- CIS 136 Spreadsheet Applications (3)
- CIS 210 Business Analysis (5)
- CIS 260 Database Management Systems (5)
- CIS 280 Systems Analysis and Design (5)

Select one:

- CIS 265 Data Communications and Networks (5)
- CNE 241 CNA 1: Introduction to Networks (5)

Total Credits Required (41 Credits)

Individual courses may require additional pre-requisites. Please see program coordinator for educational plan and correct sequencing of courses.

NOTE: Due to the rapid changes in the IT industry, the Special Topics courses, CIS 155 and CNE 155 , may be substituted as needed into the CIS or CNE degree programs, on the advice of the CIS/CNE faculty and program coordinator.

Program Code: 529

Last revision: 2016-17

Business Associate

General Requirements (13 Credits)

- COLLG 110 College Success (3)

Select one:

- BTECA 115 Business English I (5) * †
- ENGL& 101 English Composition I (5) * †

Select one:

- BTECA 117 Business Mathematics (5) * †
- MATH& 146 Introduction to Statistics (5) * †

Business Requirements (63 Credits)

- BUS 240 Human Relations in the Workplace (5) *
- MNGT 130 Customer Relationship Management (5)
- MNGT 182 Creative Sales (5)
- MNGT 186 Professional Development (5)
- MNGT 187 Career Communication Skills (5)
- MNGT 198 Work-Based Learning (3)
- MNGT 276 Employment Law: Human Resource Legal Issues (5)
- MNGT 283 Principles of Management (5)
- MNGT 284 Small Business Planning (5)
- MNGT 295 Human Resource Management (5)

Select one:

- BUS 135 Introduction to Online Marketing (5)
- MNGT 282 Principles of Marketing (5)

Select one:

- MNGT 194 Principles of Leadership (5)
and
- MNGT 296 Current Trends in Human Resources (5)
or
- BUS 260 Project Management I: Planning (5)
and
- BUS 261 Project Management II: Managing (5)
or
- MNGT 275 Introduction to Visual Promotion (5)
and
- MNGT 293 Retailing and Merchandising (5)

Technology (5 Credits)

- CIS 130 Productivity Software (5)
or select 5 credits from the following:
- BTECA 121 Microsoft Excel: Prepare Format Basic Worksheets (1)
- BTECA 122 Microsoft Excel: Insert Formulas and Enhancements (1)
- BTECA 123 Microsoft Excel: Create Charts and Diagrams (1)
- BTECA 140 Microsoft Access: Create and Modify a Database (1)
- BTECA 141 Microsoft Access: Create and Queries and Forms (1)
- BTECA 142 Microsoft Access: Create Reports, Charts and Web Pages (1)

Economics (5-10 Credits)

Select one:

- ECON 110 Survey of Economics (5)
or
- ECON& 201 Microeconomics (5)
and
- ECON& 202 Macroeconomics (5)

Accounting (10-20 Credits)

Select one:

- ACCT 101 Survey of Accounting (5)
or
- ACCT& 201 Principles of Accounting I (5)
and
- ACCT& 202 Principles of Accounting II (5)
and

- ACCT& 203 Principles of Accounting III (5)

Total Credits Required 96-111

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

†Prerequisite required.

Program code: 502A

Last revision: 2017-18

Business Certificate

Course Requirements (53 Credits)

- COLLG 110 College Success (3)
- ACCT& 201 Principles of Accounting I (5) †
- ACCT& 202 Principles of Accounting II (5) †
- BUS& 101 Introduction to Business (5)
- CIS 121 Introduction to Computer Information Systems (5) †
- ECON& 201 Microeconomics (5) †
- ECON& 202 Macroeconomics (5) †
- ENGL& 101 English Composition I (5) * †
- MATH& 146 Introduction to Statistics (5) * †

Select one:

- BUS& 201 Business Law (5)
- POLS& 200 Introduction to Law (5)

Select one:

- BUS 240 Human Relations in the Workplace (5) *
- PSYC& 100 General Psychology (5) *

Total Credits Required 53

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

†Prerequisite required.

Program code: 502C

Last revision: 2017-18

Chemistry Major

This planning sheet lists only the courses related to the chemistry major. Students planning to transfer as chemistry majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. Students could also follow the Associate of Science (AS-T) Degree Track 1 or the Associate of Arts - Option B. Chemistry majors should work closely with a faculty advisor to plan an overall program of study.

Chemistry Major

- CHEM& 161 General Chemistry with Lab I (5)
- CHEM& 162 General Chemistry with Lab II (5)
- CHEM& 163 General Chemistry with Lab III (5)
- CHEM& 261 Organic Chemistry with Lab I (6)
- CHEM& 262 Organic Chemistry with Lab II (6)
- CHEM& 263 Organic Chemistry with 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)

Communication/Theatre/Film Major

This planning sheet lists only the courses related to the communication/theatre/film major. Students planning to transfer as communication/theatre/film majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. Communication/theatre/film majors should work closely with a faculty advisor to plan an overall program of study.

Communication Major

- BUS& 101 Introduction to Business (5)

- CMST& 102 Introduction to Mass Media (5)
- CMST& 220 Public Speaking (5)
- DRMA 160 Introduction to Film and Video (5)
- DRMA 170 Technical Film and Theatre I (5)
- JOURN 102 Introduction to News Writing (5)

Geography one course (5 credits):

- GEOG 100 Introduction to Geography (5)
- GEOG 150 The Americas, Australia, Europe and New Zealand (5)
- GEOG 160 Africa, Middle East and Asia (5)
- GEOG 200 Human Geography (5)
- GEOG 205 Physical Geography (5)
- GEOG 207 Economic Geography (5)
- GEOG 210 Physical Geography (5)

Political Science one course (5 credits):

- POLS& 101 Introduction to 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)

Sociology one course (5 credits):

- SOC& 101 Introduction 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 235 Race and Ethnicity (5)

Rhetoric and Public Address Emphasis

- CMST& 101 Introduction to Communications (5)
- CMST& 220 Public Speaking (5)
- ENGL 107 Composition III: Writing About Literature (5)
- PSYC& 100 General Psychology (5)

Art one course (5 credits)

- ART& 100 Art Appreciation (5)
- ART 101 Design, Beginning (5)
- ART 102 Design, Intermediate (5)
- ART 105 Introduction to Art (5)
- ART 107 Photography, Beginning (5)
- ART 111 Drawing, Beginning (5)
- ART 112 Drawing, Intermediate (5)
- ART 113 Drawing, Advanced (5)
- ART 115 3-Dimensional Design (5)
- ART 145 History of Art - Contemporary (5)
- ART 150 Printmaking, Beginning (5)
- ART 201 Painting, Beginning (5)
- ART 202 Painting, Intermediate (5)
- ART 203 Painting, Advanced (5)
- ART 204 Watercolor, Beginning (5)
- ART 211 Beginning Sculpture (5)
- ART 215 Art for Teachers (5)
- ART 243 History of Art – Ancient World Through the Middle Ages (5)
- ART 244 History of Art – Renaissance Through Rococo (5)
- ART 245 History of Art – The Modern World (5)
- ART 260 Art in Motion: Real and Recorded (5)

English Literature one course (5 credits)

- 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 204 The Bible as Literature (5)
- ENGL 207 Native American Literature (5)
- ENGL 210 Introduction 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: Comedy, Humor and Satire (5)
- ENGL 266 Women Writers: Voices from the International Mosaic (5)

History one course (5 credits)

- HIST& 126 World Civilizations I (5)
- HIST& 127 World Civilizations II (5)
- HIST& 128 World Civilizations III (5)
- HIST& 156 History of U. S. I (5)
- HIST& 157 History of U. S. II (5)
- HIST& 158 History of U.S. III (5)
- HIST& 159 History of U.S. IV (5)
- HIST 168 Vietnam War as History (5)
- HIST 175 A Brief History of Global Leadership (5)
- HIST& 214 Pacific Northwest History (5)

Music one course (5 credits)

- MUSC 100 Introduction to Rock & Roll (5)
- MUSC 102 American Popular Music (5)
- MUSC 103 Introduction to Jazz (5)
- MUSC& 105 Music Appreciation (5)
- MUSC 106 World Music (5)
- MUSC& 141 Music Theory I (5)
- MUSC& 142 Music Theory II (5)
- MUSC& 143 Music Theory III (5)
- MUSC 205 Music for Teachers (5)
- MUSC& 241 Music Theory IV (5)
- MUSC& 242 Music Theory V (5)
- MUSC& 243 Music Theory VI (5)

Philosophy one course (5 credits)

- PHIL& 101 Introduction to Philosophy (5)
- PHIL 110 Introduction to Bioethics (5)
- PHIL& 115 Critical Thinking (5)
- PHIL 150 Introduction to Ethics (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)

Political Science one course (5 credits)

- POLS& 101 Introduction to 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)

Sociology one course (5 credits)

- SOC& 101 Introduction 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 235 Race and Ethnicity (5)

Interpersonal Communication Emphasis

- ANTH& 100 Survey of Anthropology (5)
- ANTH& 206 Cultural Anthropology (5)
- CMST& 101 Introduction to Communications (5)
- CMST 105 Intercultural Communication (5)
- CMST& 220 Public Speaking (5)
- CMST& 230 Small Group Communication (5)
- ECON 110 Survey of Economics (5)
- PSYC& 100 General Psychology (5)
- PSYC& 200 Lifespan Psychology (5)
- PSYC 201 Psychology of Personal Growth (5)
- SOC& 101 Introduction to Sociology (5)

Art or Music one course (5 credits)

- ART& 100 Art Appreciation (5)
- ART 101 Design, Beginning (5)
- ART 102 Design, Intermediate (5)
- ART 105 Introduction to Art (5)
- ART 107 Photography, Beginning (5)
- ART 111 Drawing, Beginning (5)
- ART 112 Drawing, Intermediate (5)
- ART 113 Drawing, Advanced (5)
- ART 115 3-Dimensional Design (5)
- ART 145 History of Art - Contemporary (5)
- ART 150 Printmaking, Beginning (5)
- ART 201 Painting, Beginning (5)
- ART 202 Painting, Intermediate (5)
- ART 203 Painting, Advanced (5)
- ART 204 Watercolor, Beginning (5)
- ART 211 Beginning Sculpture (5)
- ART 215 Art for Teachers (5)

- ART 243 History of Art – Ancient World Through the Middle Ages (5)
- ART 244 History of Art – Renaissance Through Rococo (5)
- ART 245 History of Art – The Modern World (5)
- ART 260 Art in Motion: Real and Recorded (5)
- MUSC 100 Introduction to Rock & Roll (5)
- MUSC 102 American Popular Music (5)
- MUSC 103 Introduction to Jazz (5)
- MUSC& 105 Music Appreciation (5)
- MUSC 106 World Music (5)
- MUSC& 141 Music Theory I (5)
- MUSC& 142 Music Theory II (5)
- MUSC& 143 Music Theory III (5)
- MUSC 205 Music for Teachers (5)
- MUSC& 241 Music Theory IV (5)
- MUSC& 242 Music Theory V (5)
- MUSC& 243 Music Theory VI (5)

Philosophy one course (5 credits)

- PHIL& 101 Introduction to Philosophy (5)
- PHIL 110 Introduction to Bioethics (5)
- PHIL& 115 Critical Thinking (5)
- PHIL 150 Introduction to Ethics (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)

Sociology one course (5 credits)

- SOC& 101 Introduction 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 235 Race and Ethnicity (5)

Computer Network Engineering Associate

The Computer Network Engineering (CNE) program, offered at Pierce College Puyallup and JBLM, 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.

Core Requirements (58 Credits)

- COLLG 110 College Success (3)
- CIS 121 Introduction to Computer Information Systems (5)
- CIS 122 Introduction to Computer Programming (5)
- CIS 134 Computer Operating Systems (5)
- CNE 231 Implementing Windows Client Operating Systems (5)
- CNE 232 Installing and Configuring Windows Server (5)
- CNE 235 Administering Windows Server (5)
- CNE 237 Configuring Advanced Windows Server Services (5)
- CNE 251 Unix Administration (5)
- CNE 254 Fundamentals of Network Security (5)
- CNE 270 Wireless Networking (5)
- CNE 290 Supervised Internship (5)

Related Instruction (25 Credits)

- BUS 240 Human Relations in the Workplace (5)
- ENGL& 101 English Composition I (5)
- ENGL& 235 Technical Writing (5)
- MATH& 107 Math in Society (5)

Select one:

- CMST& 101 Introduction to Communications (5)
- CMST& 220 Public Speaking (5)

Choose one of the following tracks:

Windows MCSA/MCSE Track at Pierce College at JBLM (25 Credits)

- CIS 265 Data Communications and Networks (5)
- CNE 238 Designing Security for a Windows Network (5)
- CNE 240 Computer Hardware Troubleshooting (5)
- CNE 246 Designing and Implementing a Server Infrastructure (5)
- CNE 247 Windows Server Enterprise Administration (5)

Windows MCSA/CISCO Track at Pierce College Puyallup (20 Credits)

- CNE 241 CNA 1: Introduction to Networks (5)
- CNE 242 CCNA 2: Routing and Switching Essentials (5)

- CNE 243 CCNA 3: Scaling Networks (5)
- CNE 244 CCNA 4: Connecting Networks (5)
- CNE 260 Cisco CCNA Security (5)

Total Credits Required 103-108

Individual courses may require additional pre-requisites. Please see program coordinator for educational plan and correct sequencing of courses.

NOTE: Due to the rapid changes in the IT industry, the Special Topics courses, CIS 155 and CNE 155, may be substituted as needed into the CIS or CNE degree programs, on the advice of the CIS/CNE faculty and program coordinator.

Program code: 527P

Last revision: 2016-17

Computer Systems Administration Certificate

Core Requirements (38 Credits)

- COLLG 110 College Success (3)
- CIS 121 Introduction to Computer Information Systems (5)
- CIS 134 Computer Operating Systems (5)
- CNE 231 Implementing Windows Client Operating Systems (5)
- CNE 232 Installing and Configuring Windows Server (5)
- CNE 251 Unix Administration (5)
- CNE 254 Fundamentals of Network Security (5)

Select one:

- CNE 241 CNA 1: Introduction to Networks (5)
- CIS 265 Data Communications and Networks (5)

Total Credits Required (38 Credits)

Individual courses may require additional pre-requisites. Please see program coordinator for educational plan and correct sequencing of courses.

NOTE: Due to the rapid changes in the IT industry, the Special Topics courses, CIS 155 and CNE 155, may be substituted as needed into the CIS or CNE degree programs, on the advice of the CIS/CNE faculty and program coordinator.

Program code: 533C

Last revision: 2016-17

Construction Management (DTA/ MRP)

This degree is applicable to transfer students planning to prepare for American Council for Construction Education (ACCE) accredited (www.acce-hq.org/about/advantages-of-accreditation/) majors in Construction Management at Central Washington University (CWU), Washington State University (WSU) and the University of Washington, Seattle (UWS). It also provides information for transfer to Eastern Washington University's (EWU) BS in Technology, Construction Management.

Degree Outcomes

General Degree Requirements

- Minimum of 90 quarter hours of transferable credit
- College cumulative GPA of at least 2.0
- ENGL& 101 English Composition I - required
- COLLG 110 College Success required during the first or second quarter of attendance
- Earn the lesser of (at least) 20 college level credits or 25% of the credits applicable to the degree or certificate at Pierce College
- 1.5 grade (C-) or better for all requirements, unless stated otherwise
- "Pass" (P) grades, independent study and cooperative work experience/work-based learning credits may be used for general elective credits only
- Once a course has been successfully completed, credits earned may be used in only one category

Core Requirements

Communication Skills (10 Credits)

ENGL& 101 is required with a 2.0 grade or higher. Second communications course requires a 1.5 or higher grade. CWU requires an equivalent to ENG 102 - Composition II: Reasoning and Research for program acceptance.

- ENGL& 101 English Composition I (5) required

Select one:

- ENGL& 102 Composition II: Argumentation and Research (5)
- ENGL& 235 Technical Writing (5)

Quantitative/Symbolic Reasoning Skills (5 Credits)

Intermediate algebra proficiency is required. Course requires a 1.5 grade or higher.

- MATH& 151 Calculus I (5)

Humanities (15 Credits)

Courses require a 1.5 grade or higher. At least **five** credits outside of the CMST discipline. No more than **five** credits in performance skills, and no more than **five** credits in world language.

- CMST& 220 Public Speaking (5) required
- ART& 100 Art Appreciation (5)
- ART 105 Introduction to Art (5)
- ART 145 History of Art - Contemporary (5)
- ART 215 Art for Teachers (5)
- ART 243 History of Art – Ancient World Through the Middle Ages (5)
- ART 244 History of Art – Renaissance Through Rococo (5)
- ART 245 History of Art – The Modern World (5)
- ART 260 Art in Motion: Real and Recorded (5)
- ASL& 121 American Sign Language I (5)
- ASL& 122 American Sign Language II (5)
- ASL& 123 American Sign Language III (5)
- ASL& 221 American Sign Language IV (5)
- ASL& 222 American Sign Language V (5)
- ASL& 223 American Sign Language VI (5)
- CMST& 101 Introduction to Communications (5)
- CMST& 102 Introduction to Mass Media (5)
- CMST 105 Intercultural Communication (5)
- CMST& 230 Small Group Communication (5)
- DRMA& 101 Introduction to the Theatre (5)
- DRMA 160 Introduction 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 204 The Bible as Literature (5)
- ENGL 205 Introduction to Mythology (5)
- ENGL 207 Native American Literature (5)
- ENGL 210 Introduction to American Literature (5)
- ENGL 214 Screenwriting I (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& 236 Creative Writing I (5)

- ENGL& 237 Creative Writing II (5)
- ENGL& 238 Creative Writing 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 249 Creative Writing: Special Projects (5)
- ENGL 264 Literature of U.S. Slavery and Abolition (5)
- ENGL 265 American Literature: Comedy, Humor and Satire (5)
- ENGL 266 Women Writers: Voices from the International Mosaic (5)
- FRCH& 121 French I (5)
- FRCH& 122 French II (5)
- FRCH& 123 French III (5)
- GERM& 121 German I (5)
- GERM& 122 German II (5)
- GERM& 123 German III (5)
- HUM& 101 Introduction 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 120 Introduction to Folklore (5)
- HUM 161 Western Thought and Culture I: The Classical World (5)
- HUM 162 Western Thought and Culture II: The Middle Ages (5)
- HUM 163 Western Thought and Culture III: Birth of the Modern World (5)
- HUM 164 Western Thought and Culture IV: The Modern World (5)
- HUM 204 American Popular Culture (5)
- HUM 209 The Civil Rights Movement: From the Ground Up (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 Japanese I (5)
- JAPN& 122 Japanese II (5)
- JAPN& 123 Japanese III (5)
- JOURN 103 Introduction to Feature Writing (1-5)
- JOURN 125 The Documentary: A Social Force (5)
- KREA& 121 Korean I (5)
- KREA& 122 Korean II (5)
- KREA& 123 Korean III (5)
- MUSC 100 Introduction to Rock & Roll (5)
- MUSC 102 American Popular Music (5)
- MUSC 103 Introduction to Jazz (5)
- MUSC& 105 Music Appreciation (5)
- MUSC 106 World Music (5)
- MUSC& 141 Music Theory I (5)
- MUSC& 142 Music Theory II (5)
- MUSC& 143 Music Theory III (5)

- MUSC 205 Music for Teachers (5)
- MUSC& 241 Music Theory IV (5)
- MUSC& 242 Music Theory V (5)
- MUSC& 243 Music Theory VI (5)
- PHIL& 101 Introduction to Philosophy (5)
- PHIL 110 Introduction to Bioethics (5)
- PHIL 150 Introduction to Ethics (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 Russian I (5)
- RUSS& 122 Russian II (5)
- RUSS& 123 Russian III (5)
- SPAN& 121 Spanish I (5)
- SPAN& 122 Spanish II (5)
- SPAN& 123 Spanish III (5)
- SPAN& 221 Spanish IV (5)

Humanities Performance/Skills

- ART 101 Design, Beginning (5)
- ART 102 Design, Intermediate (5)
- ART 107 Photography, Beginning (5)
- ART 111 Drawing, Beginning (5)
- ART 112 Drawing, Intermediate (5)
- ART 113 Drawing, Advanced (5)
- ART 115 3-Dimensional Design (5)
- ART 150 Printmaking, Beginning (5)
- ART 201 Painting, Beginning (5)
- ART 202 Painting, Intermediate (5)
- ART 203 Painting, Advanced (5)
- ART 204 Watercolor, Beginning (5)
- ART 211 Beginning Sculpture (5)
- DRMA 170 Technical Film and Theatre I (5)
- DRMA 171 Technical Film and Theatre II (5)
- DRMA 172 Technical Film and Theatre III (5)
- DRMA 260 Acting for Stage and Digital Film I (5)
- DRMA 261 Acting for Stage and Digital Film II (5)
- DRMA 262 Acting for Stage and Digital Film III (5)
- DRMA 280 Production Practicum I (1-3)
- DRMA 281 Production Practicum II (1-3)
- DRMA 282 Production Practicum III (1-3)
- DRMA 283 Production Practicum IV (1-3)
- DRMA 284 Production Practicum V (1-3)
- DRMA 285 Production Practicum VI (1-3)
- MUSC 126 Beginning Class Guitar (1)

- MUSC 127 Intermediate Class Guitar (1)
- MUSC 144 Concert Choir (2)
- MUSC 147 Chamber Choir (2)
- MUSC 150 College Band (2)
- MUSC 154 College Orchestra (1)
- MUSC 157 Jazz Band (2)
- MUSC 160 Private Instruction: Arranging (1)
- MUSC 161 Private Instruction: Improvisation (1)
- MUSC 162 Private Instruction: Brass (1)
- MUSC 163 Private Instruction: Woodwind (1)
- MUSC 164 Private Instruction: Percussion (1)
- MUSC 165 Private Instruction: Voice (1)
- MUSC 166 Private Instruction: Orchestral Strings (1)
- MUSC 167 Private Instruction: Keyboard (1)
- MUSC 168 Private Instruction: Plectrum Strings (1)
- MUSC 170 Brass Ensemble (1)
- MUSC 171 Woodwind Ensemble (1)
- MUSC 172 Percussion Ensemble (1)
- MUSC 173 String Ensemble (1)
- MUSC 174 Vocal Ensemble (1)
- MUSC 181 Beginning Class Piano (1)
- MUSC 182 Intermediate Class Piano (1)
- MUSC 183 Advanced Class Piano (1)
- MUSC 244 Concert Choir (2)
- MUSC 247 Chamber Choir (2)
- MUSC 250 College Band (2)
- MUSC 254 College Orchestra (1)
- MUSC 257 Jazz Band (2)
- MUSC 260 Private Instruction: Arranging (1)
- MUSC 261 Private Instruction: Improvisation (1)
- MUSC 262 Private Instruction: Brass (1)
- MUSC 263 Private Instruction: Woodwind (1)
- MUSC 264 Private Instruction: Percussion (1)
- MUSC 265 Private Instruction: Voice (1)
- MUSC 266 Private Instruction: Orchestral Strings (1)
- MUSC 267 Private Instruction: Keyboard (1)
- MUSC 268 Private Instruction: Plectrum Strings (1)
- MUSC 270 Brass Ensemble (1)
- MUSC 271 Woodwind Ensemble (1)
- MUSC 272 Percussion Ensemble (1)
- MUSC 273 String Ensemble (1)
- MUSC 274 Vocal Ensemble (1)

Social Science (15 Credits)

WSU requires both ECON& 201 and ECON& 202 .

- BUS& 201 Business Law (5) required

Select one:

- ECON& 201 Microeconomics (5)
- ECON& 202 Macroeconomics (5)

Social Science Elective

Courses require a 1.5 grade or higher.

- ANTH& 100 Survey of Anthropology (5)
- ANTH& 104 World Prehistory (5)
- ANTH& 106 The 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& 236 Forensic Anthropology (5)
- ANTH 240 Women in Cross Cultural Perspectives (5)
- BUS& 101 Introduction to Business (5)
- CJ& 105 Corrections in America (5)
- CJ 112 Criminal Justice in America (5)
- CJ 202 Concepts of Criminal Law (5)
- ECED& 105 Introduction to Early Childhood Education (5)
- ECED 335 Law and Ethics (3)
- ECED& 355 Social and Political Context of Early Childhood Education (3)
- ECON 110 Survey of Economics (5)
- EDUC& 115 Child Development (5)
- GEOG 100 Introduction to Geography (5)
- GEOG 150 The Americas, Australia, Europe and New Zealand (5)
- GEOG 160 Africa, Middle East and Asia (5)
- GEOG 200 Human Geography (5)
- HIST& 126 World Civilizations I (5)
- HIST& 127 World Civilizations II (5)
- HIST& 128 World Civilizations III (5)
- HIST& 156 History of U. S. I (5)
- HIST& 157 History of U. S. II (5)
- HIST& 158 History of U.S. III (5)
- HIST& 159 History of U.S. IV (5)
- HIST 168 Vietnam War as History (5)
- HIST 175 A Brief History of Global Leadership (5)
- HIST& 214 Pacific Northwest History (5)
- HIST 260 History of Russia and the Soviet Union (5)
- HIST 265 History of Latin American Since 1810 (5)

- HIST 266 History of Europe Since 1870 (5)
- HIST 267 History of Africa Since 1800 (5)
- HIST 270 Introduction to the Far East (5)
- HIST 272 Survey of Middle East History (5)
- HIST 277 The Cold War (5)
- HIST 280 Introduction to Chinese Civilization (5)
- HIST 284 Introduction to the Balkans (5)
- HIST 287 History of Japan Since Antiquity (5)
- INTS 107 Introduction 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 in the Modern World (5)
- INTS 300 Social Studies for Teachers (5)
- POLS& 101 Introduction to 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 Intro to Personality (5)
- SOC& 101 Introduction 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 235 Race and Ethnicity (5)

Natural Sciences (15-30 Credits)

Courses require a 1.5 grade or higher. Lab courses are indicated with an \textcircled{L} . UW-Seattle requires MATH& 146 and General or Engineering Physics and ten additional quarter credits in natural sciences/math at the student's choice or see electives list. WSU requires MATH& 152 and General or Engineering Physics. CWU requires MATH& 152 and General Chemistry. EWU requires General Chemistry or CHEM& 161 .

- \textcircled{L} CHEM& 161 General Chemistry with Lab I (5)
- \textcircled{L} GEOL& 101 Introduction to Physical Geology (5)
- MATH& 146 Introduction to Statistics (5)
- MATH& 152 Calculus II (5)
- \textcircled{L} PHYS& 114 General Physics I (5)
- \textcircled{L} PHYS& 115 General Physics II (5)
- \textcircled{L} PHYS& 221 Engineering Physics I (6)

- ① PHYS& 222 Engineering Physics II (6)

Construction Management Courses (13-18 Credits)

Courses require a 1.5 grade or higher.

ACCT& 201 and ACCT& 202 are required.

UW-Seattle requires ACCT& 203 and **three** credits of Architectural CAD or Engineering graphics equivalent to ENGR& 111 or ENGR& 114 or ENGR& 121, a course that includes 3-D graphics such as AutoCAD or SolidWorks. WSU, CWU and EWU recommend three quarter credits of Architectural CAD or Engineering graphics.

Students may select **three** credits for the recommended electives list that best fit their future university.

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

General Electives (20 Credits)

Minimum grade of 1.0 is required. Maximum of five credits additional college-level courses. A maximum of three PE activity credits can be applied to this degree. COLLG 110 is required with a 2.0 grade or higher.

- COLLG 110 College Success (3) required with a 2.0 or higher grade
- CONST 101 Introduction to Construction Management (5)
- CHEM& 161 General Chemistry with Lab I (5)
- ENGR& 214 Statics (5)
- ENGR& 215 Dynamics (5)
- ENVS& 100 Survey of Environmental Science (5)
- ENVS 150 Environmental Issues (5)
- ENVS 155 Applied Environmental Methods (5)
- MATH& 141 Precalculus I (5)
- MATH& 142 Precalculus II (5)
- MATH& 146 Introduction to Statistics (5)
- MATH& 152 Calculus II (5)
- PHYS& 115 General Physics II (5)
- PHYS& 222 Engineering Physics II (6)
- Additional college-level courses, a maximum of **three** physical activity (PE) credits.

Total Credits Required 93-113

Notes

- Entry to Construction Management majors is selective; students typically require a higher minimum overall GPA than the minimum 2.0 for the general DTA. Students need to check criteria for selection by connecting with their future institution.

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

Program Code: ACMT

Construction Management Associate

General Course Requirements

Communication Skills (10 Credits)

- ENGL& 101 English Composition I (5) * +
- ENGL& 235 Technical Writing (5) * +

Computation/Quantitative/Symbolic Reasoning Skills (5 Credits)

Select one:

- BTECA 117 Business Mathematics (5) * +
- MATH& 141 Precalculus I (5) * +
- MATH& 142 Precalculus II (5) * +
- MATH 147 Business Precalculus (5) * +
- MATH& 148 Business Calculus (5) * +

Human Relations (5 Credits)

Select one:

- BUS 240 Human Relations in the Workplace (5) *
- CMST& 101 Introduction to Communications (5)
- CMST& 230 Small Group Communication (5)

Construction Management Requirements (46 Credits)

- CONST 101 Introduction to Construction Management (5) +
- CONST 140 Construction Drawings: Print Reading (5) +
- CONST 150 Construction Documents (5) +
- CONST 160 Materials and Methods (5) +
- CONST 180 Building Codes (5)
- CONST 198 Work-Based Learning (3) +
- CONST 200 Estimating (5) +
- CONST 230 Scheduling and Planning (5) +
- CONST 250 Construction Safety and Accident Prevention (3)
- CONST 260 Construction Project Management (5) +

Business Management (10 Credits)

Select two:

- MNGT 130 Customer Relationship Management (5) *
- MNGT 182 Creative Sales (5)
- MNGT 283 Principles of Management (5)
- MNGT 284 Small Business Planning (5)
- MNGT 295 Human Resource Management (5)

or select both:

- BUS 260 Project Management I: Planning (5)
- BUS 261 Project Management II: Managing (5)

General Requirements (28 Credits)

- COLLG 110 College Success (3)
- BUS& 201 Business Law (5) +
- BTECA 110 Microsoft Word: Prepare and Edit Documents (1)
- BTECA 111 Microsoft Word: Enhance and Customize Documents (1)
- BTECA 121 Microsoft Excel: Prepare Format Basic Worksheets (1)
- BTECA 122 Microsoft Excel: Insert Formulas and Enhancements (1)
- BTECA 123 Microsoft Excel: Create Charts and Diagrams (1)

Select one:

- ACCT 101 Survey of Accounting (5)
- ACCT& 201 Principles of Accounting I (5) +

Select one:

- ACCT& 202 Principles of Accounting II (5) +
- BUS& 101 Introduction to Business (5)
- ECON 110 Survey of Economics (5)
- ECON& 201 Microeconomics (5) +
- ECON& 202 Macroeconomics (5) +

Select one:

- ENVS& 100 Survey of Environmental Science (5)
- ENVS 155 Applied Environmental Methods (5)
- GEOL& 101 Introduction to Physical Geology (5)
- GEOL& 110 Environmental Geology (5)
- PHYS& 110 Physics for Non-Science Majors (5) +

Total Credits Required 104

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

Program code: 570

Last revision: 2016-17

Construction Management Certificate

Core Requirements (61 Credits)

- BUS 240 Human Relations in the Workplace (5) *
- COLLG 110 College Success (3)
- CONST 101 Introduction to Construction Management (5) +
- CONST 140 Construction Drawings: Print Reading (5) +
- CONST 150 Construction Documents (5) +
- CONST 160 Materials and Methods (5) +
- CONST 180 Building Codes (5)
- CONST 200 Estimating (5) +
- CONST 230 Scheduling and Planning (5) +
- CONST 250 Construction Safety and Accident Prevention (3)

- CONST 260 Construction Project Management (5) +

Select one:

- BTECA 250 Business Communications (5)
- ENGL& 101 English Composition I (5) *

Select one:

- BTECA 117 Business Mathematics (5) * +
- MATH 147 Business Precalculus (5) * +
- MATH& 148 Business Calculus (5) * +

Total Credits Required 61

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

Program code: 570C

Last revision: 2016-17

Construction Safety Technician Certificate

Faculty: Dolores Kelley, Darren Linker (FS)

General Requirements (28 Credits)

- BUS 240 Human Relations in the Workplace (5) *
- COLLG 110 College Success (3)
- CIS 130 Productivity Software (5) +
- ENGL& 101 English Composition I (5) * +
- ENGL& 235 Technical Writing (5)

Select one:

- BTECA 117 Business Mathematics (5) *
- MATH& 107 Math in Society (5)

- MATH& 146 Introduction to Statistics (5)

Safety and Health Requirements (35 Credits)

- CONST 140 Construction Drawings: Print Reading (5) +
- CONST 160 Materials and Methods (5) +
- CONST 250 Construction Safety and Accident Prevention (3)
- OSH 110 Safety Management (5)
- OSH 150 Workers Compensation & Risk Management (3)
- OSH 160 Incident Investigation (3)
- OSH 170 Training Techniques (5)
- OSH 190 Industrial Security (3)

Select one:

- OSH 291 OSH Internship (3)
- CONST 198 Work-Based Learning (3)

Total Credits Required 63

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

+Prerequisites required.

Program code: 844C

Last revision: 2016-17

Criminal Justice Associate

Students must earn a minimum grade of 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 grade of 1.5 in each core requirement and core elective. College-level reading skills, as determined by placement test, are required.

General Required Courses

College Success (3 Credits)

- COLLG 110 College Success (3)

Communication Skills (10 Credits)

- ENGL& 101 English Composition I (5) *
- ENGL& 102 Composition II: Argumentation and Research (5)

Quantitative/Symbolic Reasoning Skills (5 Credits)

Select one:

- MATH& 107 Math in Society (5) *
 - MATH& 146 Introduction to Statistics (5) *
- MATH& 146 is recommended for students transferring to a four-year institution.

Humanities (15 Credits)

Students planning to transfer to a four-year institution who lack two years of high school study of a single world language should take one quarter of a foreign language as a humanities elective. Four-year institutions may require three quarters.

- CMST& 220 Public Speaking (5)
- PHIL 150 Introduction to Ethics (5)
- Elective (World language) (5) †
- ASL& 121 American Sign Language I (5)
- ASL& 122 American Sign Language II (5)
- ASL& 123 American Sign Language III (5)
- ASL& 221 American Sign Language IV (5)
- ASL& 222 American Sign Language V (5)
- ASL& 223 American Sign Language VI (5)
- FRCH& 121 French I (5)
- FRCH& 122 French II (5)
- FRCH& 123 French III (5)
- GERM& 121 German I (5)
- GERM& 122 German II (5)
- GERM& 123 German III (5)
- JAPN& 121 Japanese I (5)
- JAPN& 122 Japanese II (5)
- JAPN& 123 Japanese III (5)
- KREA& 121 Korean I (5)
- KREA& 122 Korean II (5)

- KREA& 123 Korean III (5)
- RUSS& 121 Russian I (5)
- RUSS& 122 Russian II (5)
- RUSS& 123 Russian III (5)
- SPAN& 121 Spanish I (5)
- SPAN& 122 Spanish II (5)
- SPAN& 123 Spanish III (5)
- SPAN& 221 Spanish IV (5)

Social Science (15 Credits)

- POLS& 202 American Government (5)
- PSYC& 100 General Psychology (5) *
- SOC& 101 Introduction to Sociology (5)

Natural Science (15 Credits)

- ANTH& 236 Forensic Anthropology (5)
- BIOL& 170 Human Biology: Anatomy & Physiology (5)
(or another biology course†)
† Natural Science Elective (course other than biology or anthropology that meets the AA-DTA distribution requirement) (5)
- ATMOS 101 Introduction to Weather (5)
- CHEM& 100 Preparatory Chemistry (5)
- CHEM& 110 Chemical Concepts with Lab (5)
- CHEM& 121 Intro to Chemistry (5)
- CHEM& 131 Intro to Organic/Biochemistry (6)
- CHEM& 139 General Chemistry Prep (5)
- CHEM& 161 General Chemistry with Lab I (5)
- CHEM& 162 General Chemistry with Lab II (5)
- CHEM& 163 General Chemistry with Lab III (5)
- CHEM& 261 Organic Chemistry with Lab I (6)
- CHEM& 262 Organic Chemistry with Lab II (6)
- ENGR 101 Introduction to Engineering (5)
- ENVS& 100 Survey of Environmental Science (5)
- ENVS 140 Western Water Problems (5)
- ENVS 150 Environmental Issues (5)
- ENVS 155 Applied Environmental Methods (5)
- GEOG 205 Physical Geography (5)
- GEOG 210 Physical Geography (5)
- GEOL& 101 Introduction to Physical Geology (5)
- GEOL& 103 Historical Geology (5)
- GEOL 107 Exploring Earth Science (5)
- GEOL& 110 Environmental Geology (5)
- GEOL& 115 Geology of National Parks (5)
- GEOL& 120 Volcanoes (5)

- GEOL& 208 Geology of Pacific Northwest (5)
- GEOL 220 Earth Resources and the Environment (5)
- GEOL 283 Regional Geology (5)
- MATH& 107 Math in Society (5)
- MATH& 141 Precalculus I (5)
- MATH& 142 Precalculus II (5)
- MATH& 146 Introduction to Statistics (5)
- MATH 147 Business Precalculus (5)
- MATH& 148 Business Calculus (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)
- NSCI 150 Nature (5)
- NSCI 160 Environmental Biology (5)
- NSCI 300 Inquiry Based Science for Teachers (5)
- NUTR& 101 Nutrition (5)
- OCEA& 101 Introduction to Oceanography (5)
- OCEA 170 Marine Biology (5)
- PHIL& 120 Symbolic Logic (5)
- PHYS& 110 Physics for Non-Science Majors (5)
- PHYS& 114 General Physics I (5)
- PHYS& 115 General Physics II (5)
- PHYS& 116 General Physics III (5)
- PHYS& 221 Engineering Physics I (6)
- PHYS& 222 Engineering Physics II (6)
- PHYS& 223 Engineering Physics III (6)
- PS 101 Introduction to Physical Science (5)

Criminal Justice Requirements (41 Credits)

- CJ 103 Criminal Justice: Success Seminar (1)
- CJ& 105 Corrections in America (5)
- CJ 112 Criminal Justice 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)
5 credits of Criminal Justice electives approved by a Criminal Justice advisor

Select one:

- CJ 128 Criminal Justice Wellness (5)
- CJ 228 Community Emergency Response Teams (2)

Total Credits Required 104

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

***Prerequisites required.*

†Requires Criminal Justice advisor approval.

SOCAD military students may substitute five additional criminal justice elective credits with 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.

Program code: 832

Last revision: 2016-17

Criminal Justice Certificate

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. It is a great building block for individuals who wish to earn an Associate in Criminal Justice and AA-DTA. 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)

- COLLG 110 College Success (3)
- CJ 103 Criminal Justice: Success Seminar (1)
- CJ& 105 Corrections in America (5)
- CJ 112 Criminal Justice 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)
- Five credits of Criminal Justice electives approved by a criminal Justice advisor (5)

Select one:

- CJ 128 Criminal Justice Wellness (5)
- CJ 228 Community Emergency Response Teams (2)

Total Credits Required 44

†Requires Criminal Justice advisor approval.

**Prerequisites required.

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.

Program code: 832C

Last revision: 2016-17

Customer Service Certificate

Course Requirements (48 Credits)

- BUS 240 Human Relations in the Workplace (5) *
- COLLG 110 College Success (3)
- CIS 130 Productivity Software (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 Principles of Marketing (5)

Select one:

- BTECA 115 Business English I (5) * †
- ENGL& 101 English Composition I (5) * †

Select one:

- BTECA 117 Business Mathematics (5)
- MATH& 146 Introduction to Statistics (5)

Total Credits Required 48

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

†Prerequisite required.

Last revision: 2017-18

Program code: 245C

Database Management And Design Associate

Pierce College offers the Associate in Database Management and Design at the Puyallup campus. Students who seek an Associate in Database Management will learn programming theory and techniques, relational database concepts, data modeling, data and system security and the Structured Query Language. They will gain experience in maintaining and controlling information stored in a database and monitoring and allocating the data storage space available on a computer system.

Graduates are qualified for entry-level database administrator (DBA), database developer, IT business analyst, data analyst and application analyst positions. For parallel degrees in the health care industry see the Associate and Certificate degrees in Health Information Technology.

Prerequisites

College level reading, math, and English; keyboarding 35 wpm; and CIS 121. Participating students will also need a one-terabyte or larger removable hard drive and possess or have access to a current version of Microsoft Office Professional.

Related Instruction (23 Credits)

- BUS 240 Human Relations in the Workplace (5)
- ENGL& 101 English Composition I (5)
- MATH& 146 Introduction to Statistics (5)
- CMST& 220 Public Speaking (5)
- COLLG 110 College Success (3)

CIS Core Requirements (83 Credits)

- CIS 122 Introduction to Computer Programming (5)
- CIS 123 Introduction to Object Oriented Programming (OOP) (5)
- CIS 136 Spreadsheet Applications (3)
- CIS 185 Intermediate Object Oriented Programming (OOP) (5)
- CIS 210 Business Analysis (5)
- CIS 215 Client-Side Web Development (5)
- CIS 216 Server-Side Web Development (5)
- CIS 260 Database Management Systems (5)
- CIS 261 Structured Query Language (5)
- CIS 262 Database Administration Backup and Recovery (5)
- CIS 264 CIS Project Capstone (5)

- CIS 269 Advanced SQL Programming and Tuning (5)
- CIS 275 Business Analytics/Intelligence (5)
- CIS 280 Systems Analysis and Design (5)
- CIS 290 Supervised Internship (5)
- CNE 232 Installing and Configuring Windows Server (5)

Select one:

- CIS 265 Data Communications and Networks (5)
- CNE 241 CNA 1: Introduction to Networks (5)

Total Credits Required 106

Individual courses may require additional pre-requisites. Please see program coordinator for educational plan and correct sequencing of courses

Note: Students should be aware that certain past criminal and civil behavior may prohibit employment opportunities in some IT occupations. Students are encouraged to research these situations.

Note: Due to the rapid changes in the IT industry, the Special Topics courses, CIS 155 and CN 155, may be substituted as needed into the CIS or CNE degree programs, on the advice of the CIS/CNE faculty and program coordinator.

Program Code: 529C

Last revised: 2016-17

Dental Hygiene (BASDH)

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., Carolyn Robertson, R.D.H., B.S. (FS)

The need for Registered Dental Hygienists (RDH) continues to grow within Washington state, nationwide and globally. An RDH is dedicated to the prevention and non-surgical treatment of oral diseases. Bachelor of Applied Science in Dental Hygiene (BASDH) dental hygienists are able to work as clinicians, educators, advocates, leaders, etc. in private, business and public health settings. The profession attracts individuals interested in a licensed oral health profession that provides direct patient care. Students earn eligibility for dental hygiene licensure through successfully graduating from an accredited dental hygiene program and passing all licensing examinations. Pierce College's Dental Hygiene program enables graduates to take both written and practical examinations for licensure in this jurisdiction and in other jurisdictions within the United States (U.S.).

Acceptance into Pierce's program occurs once a year in summer quarter. The application deadline occurs in January every year. Pierce accepts 20 students each year at the Fort Steilacoom campus. Applicants to the program must not only meet the general entrance requirements of Pierce College, but all prerequisite 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: www.pierce.ctc.edu/dept/denthyg/.

The BASDH prepares the student for graduate school in dental hygiene or other discipline where courses and credits apply. Several graduate programs exist in dental hygiene. Please visit the American Dental Hygienists' Association website at: www.adha.org/dental-hygiene-programs. Within Washington State, the Pierce College BASDH is accepted for entrance into the University of Washington's MS (Dental Hygiene) in Oral Biology.

Professional/technical program competencies can be found at www.pierce.ctc.edu/dept/denthyg

ACCREDITATION COMPLIANCE

The Pierce College Dental Hygiene Program is fully accredited by the Commission on Dental Accreditation (CODA) of the American Dental Association, a specialized accrediting body recognized by the U.S. Department of Education. You may refer to the CODA website for more information at: [http://www.ada.org/en/coda/find-a-program/search-dental-programs#q=pierce%20college&t=us&sort=%40codastatecitysort%20ascending&f:ProgramName=\[Dental%20Hygiene\]](http://www.ada.org/en/coda/find-a-program/search-dental-programs#q=pierce%20college&t=us&sort=%40codastatecitysort%20ascending&f:ProgramName=[Dental%20Hygiene])

PREREQUISITE DENTAL HYGIENE COURSES

Some prerequisite dental hygiene courses may require prerequisite courses prior to enrollment. These prerequisite courses vary from college to college and are not listed below. Completion of the prerequisite dental hygiene courses generally takes two years. Prerequisite dental hygiene courses NOT listed on our Prerequisite Course Guide will need to be approved prior to application. You may submit the request online at: <http://www.pierce.ctc.edu/dental-hygiene-course-exception-form>

Complete all of the following courses:

BIOL& 241 Human Anatomy and Physiology w/Lab 1 (NS) 6
BIOL& 242 Human Anatomy and Physiology w/Lab 2 (NS) 6
BIOL& 260 Microbiology (NS) 5
CHEM& 121 Intro to Chemistry (NS) 5
CHEM& 131 Intro to Organic/Biochemistry (NS) 6
ENGL& 101 Composition I (CM, GTE) 5
PHIL 230 Contemporary Moral Problems (HM, GTE) 5
NUTR&101 Nutrition (NS) 5
PSYC& 100 General Psychology (SS, GTE) 5

Select one of the following Communication courses to complete:

CMST 105 Intercultural Communication (HM, GTE) 5
CMST& 101 Introduction to Communications (HM, GTE) 5
CMST& 220 Public Speaking (HM, GTE) 5

Select one of the following Social Science courses to complete:

SOC& 201 Social Problems (SS, GTE) 5
SOC& 101 Introduction to Sociology (SS, GTE) 5

Select one of the following English courses to complete:

ENGL& 102 English Composition II (CM, GTE) 5
ENGL& 235 Technical Writing (CM, GTE) 5

Select one of the following math/quantitative courses to complete:

MATH& 146 Introduction to Statistics (QS, NS, GTE) 5
MATH& 107 Math in Society (QS, NS, GTE) 5

Total Prerequisite Dental Hygiene Credits 68

PIERCE COLLEGE REQUIREMENT BEGINNING SUMMER 2015:

For all students beginning prerequisites to the Dental Hygiene program at Pierce College, COLLG 110: College Success must be taken within the first two quarters of starting coursework. You may be exempt from this requirement. Check with your advisor for the latest information.

BACHELOR OF APPLIED SCIENCE 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 access the application at www.pierce.ctc.edu/dept/denthyg/site/). There is a \$40*** non-refundable application fee.

As of this publication, the deadline for submitting the application is the fourth Friday in January for a summer quarter start date. It is the applicant's responsibility to see that his/her file is accurate, complete and up-to-date. All prerequisite dental hygiene courses must be complete by the end of **WINTER** quarter prior to the summer quarter start date. Other deadlines are published each year on the program website. A minimum grade of 2.5 in each pre-dental hygiene course must be earned, as well as a cumulative 3.3 GPA for all pre-dental hygiene courses.

ENGL& 102 or ENGL& 235, CHEM&121, three other sciences and/or math, and one non-science course must be completed for application by the end of the current fall quarter to be eligible to apply in January. All prerequisite dental hygiene courses must be completed by the end of **WINTER** quarter (end of March) prior to the summer quarter start date.

The applicant must submit/complete the following documentation for initial application:

- Pierce College Admissions (completed online)
- Proof of BASDH Application Fee Payment Receipt
- BASDH Applicant Information Form
- BASDH Prerequisite Course Plan Application Form
- BASDH Observation Hours Application Form
- Copy(ies) of emails proving Substitute Course Transfer, if applicable
- Official transcripts from high school and all colleges attended included in your application packet or forwarded directly from the schools to the Office of Admissions at Fort Steilacoom and marked "Dental Hygiene Admissions." Only official transcripts in sealed school envelopes sent with the application or hand carried in sealed school envelopes will be accepted.
- Pay and complete a Criminal Background Check. (Directions are posted on the website)

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 winter quarter by the dates published on the Dental Hygiene website.

**Please visit the Dental Hygiene Department website at www.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. Please note that changes to the evaluation of candidate categories and/or percentages can occur. For the most current information, please visit our department website at www.pierce.ctc.edu/dept/denthyg/site/.

40% Science, Math and English GPA
15% Non-science GPA
15% Health Science Reasoning Test score
15% Space relations score
15% Writing sample score

Pass a Criminal Background Check

For more information regarding the criminal background check and its requirements, please visit our website.

Correct submission and completion of the application documents, your academic achievement/records various exams, and the ability to pass a criminal background check provide the basis for acceptance into the Dental Hygiene program.

Applicants with the highest total scores will be selected and notified via their Pierce College student email by the third Friday in April. 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.

NOTE: Due to the highly competitive nature of the program, students who have been previously dismissed from the program have demonstrated a failure to progress in the profession of Dental Hygiene. Therefore, an offer of acceptance into the program may be denied.

REQUIREMENTS AFTER ACCEPTANCE

- 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.
- Physical, visual, and oral examinations with practitioner verification to attend the BASDH program completed prior to the start of the program. (Corrected vision to 20/20 with depth perception, physically and mentally sound to engage in a rigorous course of study in dental hygiene, and all dental treatment complete or a plan to complete, etc.)
- Tuberculin test, chest x-ray or IGRA blood test and tetanus vaccine. No active TB.
- Vaccination proof for Hepatitis B and current on CDC standard immunizations for the health care worker.

If accepted into the program, the applicant will enter the two-year, eight consecutive quarter program leading to a Bachelor of Applied Science in Dental Hygiene. Information on estimated cost, including books, instruments, equipment, lab fees, uniforms, etc., is published on the department website.

First Year

Summer Quarter (13 Credits)

- DHYG 271 Health Care Foundations (4)
- DHYG 272 Dental Imaging I (3)
- DHYG 274 Biological Structures I: Dental Anatomy (1)
- DHYG 277 Restorative Dentistry and Dental Materials I (3)
- DHYG 283 Oral Disease Prevention and Cariology II (1)

Fall Quarter (17 Credits)

- DHYG 282 Dental Imaging II (2)
- DHYG 283 Oral Disease Prevention and Cariology II (1)
- DHYG 284 Biological Structures II: Head and Neck Anatomy (2)
- DHYG 287 Restorative Dentistry and Dental Materials II (3)
- DHYG 300 Fundamentals of Dental Hygiene Theory I (2)
- DHYG 301 Fundamentals of Dental Hygiene Practice I (5)
- DHYG 305 General Pathology (2)

Winter Quarter (17 Credits)

- DHYG 310 Fundamentals of Dental Hygiene Theory and Science II (2)

- DHYG 311 Fundamentals of Dental Hygiene Practice II (6)
- DHYG 314 Biological Structures III: Embryology and Histology (2)
- DHYG 315 Oral Pathology (2)
- DHYG 316 Pharmacology (3)
- DHYG 317 Restorative Dentistry I (1)
- DHYG 318 Education Methodologies I: Patient Centered Care (1)

Spring Quarter (17.5 Credits)

- DHYG 320 Fundamentals of Dental Hygiene Theory III (2)
- DHYG 321 Fundamentals of Dental Hygiene Practice III (6)
- DHYG 325 Introduction to Periodontology I (3)
- DHYG 326 Pain Management I: Local Anesthesia (3)
- DHYG 327 Restorative Dentistry II (1.5)
- DHYG 328 Research Methodologies (2)

Second Year

Summer Quarter (14 Credits)

- DHYG 400 Dental Hygiene Theory and Nutrition (1.5)
- DHYG 401 Dental Hygiene Practice (6)
- DHYG 405 Introduction to Periodontology II (2)
- DHYG 406 Pain Management II: Nitrous Oxide Sedation (1)
- DHYG 407 Restorative Dentistry III (1.5)
- DHYG 409 Ethics and Critical Reasoning (2)

Fall Quarter (15.5 Credits)

- DHYG 410 Advanced Dental Hygiene Theory and Practice Management I (1)
- DHYG 411 Advanced Dental Hygiene Practice I (7)
- DHYG 415 Advanced Periodontology (2)
- DHYG 416 Pain Management III: Adjunctive Techniques (.5)
- DHYG 417 Clinical Restorative Dentistry I (2)
- DHYG 418 Education Methodologies II: Service Learning and Special Populations (3)

Winter Quarter (15 Credits)

- DHYG 420 Advanced Dental Hygiene Theory and Practice Management II (2)
- DHYG 421 Advanced Dental Hygiene Practice II (7)
- DHYG 427 Clinical Restorative Dentistry II (2)
- DHYG 428 Service Learning: Health Care Teams Practicum (2)

- DHYG 441 Extramural Practice I (2)

Spring Quarter (15 Credits)

- DHYG 431 Advanced Dental Hygiene Theory Practice III (7)
- DHYG 437 Clinical Restorative Dentistry III (2)
- DHYG 438 Community Oral Health Practicum (1)
- DHYG 439 Senior Seminar Capstone (1)
- DHYG 451 Extramural Practice II (2)
- DHYG 430 Advanced Dental Hygiene Theory and Practice Management III (2)

Total BASDH Credits, Excluding Prerequisites 124

Total Credits with Prerequisites 192

Program code: 30B

Last revision: 2017-18

Digital Design Associate

Related Instruction (23 Credits)

- BTECA 117 Business Mathematics (5) *
- BUS 135 Introduction to Online Marketing (5)
- COLLG 110 College Success (3)
- CMST& 220 Public Speaking (5)

Select one:

- BUS 134 Introduction to Social Media (5)
- BUS 240 Human Relations in the Workplace (5)
- PSYC& 100 General Psychology (5)

Select one:

- ENGL& 235 Technical Writing (5) *
- JOURN 102 Introduction to News Writing (5) *
- JOURN 120 Introduction to Broadcasting (5) *

Digital Design Requirements (76 Credits)

The DDSGN courses are offered at the Fort Steilacoom campus only.

- ART 101 Design, Beginning (5)
- DDSGN 110 Introduction 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 and Adobe Photoshop (5)
- DDSGN 170 Fundamentals of Video Production (5)
- DDSGN 210 Fundamentals of Motion Graphics and Interactive Media (5)
- DDSGN 220 Integrated Digital Design I (5)
- DDSGN 230 Integrated Digital Design II (5)
- DDSGN 290 Supervised Internship (5) **

Select three from the following:

- ART& 100 Art Appreciation (5)
- ART 111 Drawing, Beginning (5)
- ART 150 Printmaking, Beginning (5)
- ART 201 Painting, Beginning (5)
- BUS 135 Introduction to Online Marketing (5)
- DDSGN 131 Techniques in Adobe Illustrator (5)
- DDSGN 141 Advanced 3D Modeling and Animation (5)
- DDSGN 151 Web Design with WordPress (5)
- DDSGN 161 Advanced Adobe Photoshop (5)
- DDSGN 180 Fundamentals of 3D Game Design (5)
- DDSGN 211 2D Animation with Adobe Animate (5)
- MNGT 138 Information Design for Business (5)
- MNGT 139 Social Media Digital Content for Business (5)

Total Credits Required 99

Students entering the program must have CIS 121 or equivalent computer experience.

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 BTECA 117). See advisor for details.

**Prerequisites required.*

***Students must earn a minimum of 2.0 in DDSGN 290 in order to obtain an Associate in Digital Design.*

Drama Major

This planning sheet lists only the courses related to the drama major. Students planning to transfer as drama majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. Drama majors should work closely with a faculty advisor to plan an overall program of study.

Drama Major

Acting Emphasis

- ANTH& 100 Survey of Anthropology (5)
- ART 105 Introduction to Art (5)
- CMST& 101 Introduction to Communications (5)
- CMST& 220 Public Speaking (5)
- DRMA& 101 Introduction to the Theatre (5)
- DRMA 160 Introduction to Film and Video (5)
- DRMA 165 Digital Movie Making I (5)
- DRMA 166 Digital Movie Making II (5)
- DRMA 167 Digital Movie Making III (5)
- DRMA 260 Acting for Stage and Digital Film I (5)
- DRMA 261 Acting for Stage and Digital Film II (5)
- DRMA 262 Acting for Stage and Digital Film III (5)
- DRMA 280 Production Practicum I (1-3)
- DRMA 281 Production Practicum II (1-3)
- DRMA 282 Production Practicum III (1-3)
- DRMA 283 Production Practicum IV (1-3)
- ENGL 107 Composition III: Writing About Literature (5)
- ENGL& 220 Intro to Shakespeare (5)
- MUSC Any lecture course
- MUSC 100 Introduction to Rock & Roll (5)
- MUSC 102 American Popular Music (5)
- MUSC 103 Introduction to Jazz (5)
- MUSC& 105 Music Appreciation (5)
- MUSC 106 World Music (5)
- PSYC& 100 General Psychology (5)
- SOC& 101 Introduction to Sociology (5)

Technical Theatre Emphasis

- ANTH& 100 Survey of Anthropology (5)
- ART 105 Introduction to Art (5)
- CMST& 101 Introduction to Communications (5)
- CMST& 102 Introduction to Mass Media (5)
- DRMA& 101 Introduction to the Theatre (5)
- DRMA 160 Introduction to Film and Video (5)
- DRMA 165 Digital Movie Making I (5)
- DRMA 166 Digital Movie Making II (5)
- DRMA 167 Digital Movie Making III (5)
- DRMA 170 Technical Film and Theatre I (5)
- DRMA 171 Technical Film and Theatre II (5)
- DRMA 172 Technical Film and Theatre III (5)
- DRMA 280 Production Practicum I (1-3)
- DRMA 281 Production Practicum II (1-3)
- DRMA 282 Production Practicum III (1-3)
- DRMA 283 Production Practicum IV (1-3)
- DRMA 284 Production Practicum V (1-3)
- DRMA 285 Production Practicum VI (1-3)
- MUSC 107 Audio Production I: Beginning (2.5)
- MUSC 108 Audio Production II: Intermediate (2.5)
- PSYC& 100 General Psychology (5)
- SOC& 101 Introduction 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 a Theatre advisor for critical planning.

Filmmaking Emphasis

- ANTH& 100 Survey of Anthropology (5)
- ART 107 Photography, Beginning (5)
- CMST& 102 Introduction to Mass Media (5)
- DRMA 160 Introduction to Film and Video (5)
- DRMA 165 Digital Movie Making I (5)
- DRMA 166 Digital Movie Making II (5)
- DRMA 167 Digital Movie Making III (5)
- DRMA 170 Technical Film and Theatre I (5)
- DRMA 171 Technical Film and Theatre II (5)
- DRMA 172 Technical Film and Theatre III (5)
- DRMA 280 Production Practicum I (1-3)
- DRMA 281 Production Practicum II (1-3)
- DRMA 282 Production Practicum III (1-3)
- DRMA 283 Production Practicum IV (1-3)
- DRMA 284 Production Practicum V (1-3)
- DRMA 285 Production Practicum VI (1-3)

- ENGL 107 Composition III: Writing About Literature (5)
- ENGL& 236 Creative Writing I (5)
- ENGL& 237 Creative Writing II (5)
- ENGL& 238 Creative Writing III (5)
- MUSC 107 Audio Production I: Beginning (2.5)
- MUSC 108 Audio Production II: Intermediate (2.5)
- MUSC 109 Audio Production III: Advanced (2.5)
- PSYC& 100 General Psychology (5)
- SOC& 101 Introduction to Sociology (5)

Additional Theatre Courses

- DRMA 255 Shakespeare Festival (same as ENGL 250) (10)

Early Childhood Education (AAS-T)

Faculty: Dr. Krissy Kim, Angela Merritt, Leesa Thomas

Early Childhood Education (ECE) 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, family child care homes, cooperative and private nursery schools or preschools, Head Start centers, Early Childhood Education Assistance Programs (ECEAP), and in programs for children with special needs.

The Early Childhood Education program offers two associate degree programs. The Associate in Early Childhood Education is designed to get you a job in an early childhood setting. The Associate in Applied Science-Transfer Degree (AAS-T) in Early Childhood Education is designed to get you a job in an early childhood setting and prepares students for a seamless transition into the Bachelor of Applied Science in Teaching (BAS-T) program. It also offers some limited transfer options to continue on to a bachelor's degree at other universities.

Professional/technical program competencies can be found at www.pierce.ctc.edu/dept/ece/outcomes

Communications (5 Credits)

- ENGL& 101 English Composition I (5)

Quantitative/Symbolic Reasoning Skills (5 Credits)

Choose a course that meets a lab requirement.

- MATH 111 College Math for Early Childhood Education (5)

Humanities (15 Credits)

- ART 215 Art for Teachers (5)
- MUSC 205 Music for Teachers (5)

Select one:

- CMST& 101 Introduction to Communications (5)
- CMST& 220 Public Speaking (5)

Social Science (15 Credits)

- ECED& 105 Introduction to Early Childhood Education (5)
- EDUC& 115 Child Development (5)

Multicultural elective select one:

- ANTH& 106 The American Mosaic (5)
- ANTH& 206 Cultural Anthropology (5)
- SOC& 101 Introduction to Sociology (5)
- SOC& 201 Social Problems (5)
- SOC 211 Family and Intimate Relationships (5)
- SOC 220 Gender Roles in Society (5)

Natural Science (5 Credits)

Choose one of the courses below that meets the lab requirement for Natural Science.

- ANTH& 236 Forensic Anthropology (5)
- ASTR& 101 Introduction to Astronomy (5)
- ASTR 105 Survey of Astrobiology (5)
- ASTR& 110 The Solar System (5)
- ASTR& 115 Stars, Galaxies and the Cosmos (5)
- ATMOS 101 Introduction to Weather (5)
- BIOL& 100 Survey of Biology (5)
- BIOL& 160 General Biology w/Lab (5)
- BIOL& 175 Human Biology w/Lab: Anatomy & Physiology (5)
- BIOL& 211 Majors: Cellular (5)
- BIOL& 212 Majors: Animals (5)
- BIOL& 213 Majors: Plant (5)
- BIOL& 241 Human Anatomy and Physiology 1 (6)
- BIOL& 242 Human Anatomy and Physiology 2 (6)
- BIOL& 260 Microbiology (5)
- CHEM& 110 Chemical Concepts with Lab (5)
- CHEM& 121 Intro to Chemistry (5)

- CHEM& 131 Intro to Organic/Biochemistry (6)
- CHEM& 161 General Chemistry with Lab I (5)
- CHEM& 162 General Chemistry with Lab II (5)
- CHEM& 163 General Chemistry with Lab III (5)
- CHEM& 261 Organic Chemistry with Lab I (6)
- CHEM& 262 Organic Chemistry with Lab II (6)
- ENV5 155 Applied Environmental Methods (5)
- GEOG 210 Physical Geography (5)
- GEOL& 101 Introduction to Physical Geology (5)
- GEOL& 103 Historical Geology (5)
- GEOL 107 Exploring Earth Science (5)
- GEOL& 110 Environmental Geology (5)
- GEOL& 115 Geology of National Parks (5)
- GEOL& 120 Volcanoes (5)
- GEOL& 208 Geology of Pacific Northwest (5)
- GEOL 220 Earth Resources and the Environment (5)
- GEOL 283 Regional Geology (5)
- NSCI 150 Nature (5)
- NSCI 160 Environmental Biology (5)
- NSCI 300 Inquiry Based Science for Teachers (5)
- OCEA& 101 Introduction to Oceanography (5)
- OCEA 170 Marine Biology (5)
- PHYS& 110 Physics for Non-Science Majors (5)
- PHYS& 114 General Physics I (5)
- PHYS& 115 General Physics II (5)
- PHYS& 116 General Physics III (5)
- PHYS& 221 Engineering Physics I (6)
- PHYS& 222 Engineering Physics II (6)
- PHYS& 223 Engineering Physics III (6)
- PS 101 Introduction to Physical Science (5)

ECE Requirements (48 Credits)

- ECED& 107 Health, Nutrition and Safety (5)
- ECED& 120 Practicum: Focus on Relationships (2)
- EDUC& 130 Guiding Behavior (3) *
- EDUC& 150 Child, Family and Community (3)
- ECED& 160 Curriculum Development (5) *
- ECED& 170 Environments for Young Children (3) *
- ECED& 180 Language and Literacy Development (3) *
- ECED& 190 Observation and Assessment (3)
- ECED 200 Introduction to Early Childhood Special Education (5)
- EDUC 223 Practicum: Focus on Special Education (2)
- ECED 225 Math/Science for Children (5) *
- ECED 270 Planning and Assessment for Student Teaching (3)
- ECED 275 Early Childhood Student Teaching (5)

- ECED 280 Early Childhood Education Professional Portfolio (1)

College Success (3 Credits)

- COLLG 110 College Success (3)

Total Credits Required 96

**Prerequisites for ECED 270/ECED 275. Must complete with a minimum grade of 2.0.*

Program code: 402T

Last revision: 2017-18

Early Childhood Education Associate

Early Childhood Education (ECE) 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, family child care homes, cooperative and private nursery schools or preschools, Head Start centers, Early Childhood Education Assistance Programs (ECEAP), and in programs for children with special needs.

The Early Childhood Education program offers two associate degree programs. The Associate in Early Childhood Education is designed to get you a job in an early childhood setting. The Associate in Applied Science-Transfer Degree (AAS-T) in Early Childhood Education is designed to get you a job in an early childhood setting and prepares students for a seamless transition into the Bachelor of Applied Science in Teaching (BAS-T) program. It also offers some limited transfer options to continue on to a bachelor's degree at other universities.

Professional/technical program competencies can be found at www.pierce.ctc.edu/dept/ece/outcomes

General Course Requirements (30 Credits)

Communications (5 Credits)

- ENGL& 101 English Composition I (5)

Computation Reasoning Skills (3 Credits)

- ECED 109 Introduction to Math for Early Childhood Education (3)

Humanities (15 Credits)

- ART 215 Art for Teachers (5)
- MUSC 205 Music for Teachers (5)

Select one:

- CMST& 101 Introduction to Communications (5)
- CMST& 220 Public Speaking (5)

Social Science (15 Credits)

- ECED& 105 Introduction to Early Childhood Education (5)
- EDUC& 115 Child Development (5)

Multicultural elective select one:

- ANTH& 106 The American Mosaic (5)
- ANTH& 206 Cultural Anthropology (5)
- SOC& 101 Introduction to Sociology (5)
- SOC& 201 Social Problems (5)
- SOC 211 Family and Intimate Relationships (5)
- SOC 220 Gender Roles in Society (5)

Natural Science (5 Credits)

Choose a course below that meets the lab requirement for Natural Science.

- ANTH& 236 Forensic Anthropology (5)
- ASTR& 101 Introduction to Astronomy (5)
- ASTR 105 Survey of Astrobiology (5)
- ASTR& 110 The Solar System (5)
- ASTR& 115 Stars, Galaxies and the Cosmos (5)
- ATMOS 101 Introduction to Weather (5)
- BIOL& 100 Survey of Biology (5)
- BIOL& 160 General Biology w/Lab (5)
- BIOL& 175 Human Biology w/Lab: Anatomy & Physiology (5)
- BIOL& 211 Majors: Cellular (5)
- BIOL& 212 Majors: Animals (5)
- BIOL& 213 Majors: Plant (5)
- BIOL& 241 Human Anatomy and Physiology 1 (6)
- BIOL& 242 Human Anatomy and Physiology 2 (6)

- BIOL& 260 Microbiology (5)
- CHEM& 110 Chemical Concepts with Lab (5)
- CHEM& 121 Intro to Chemistry (5)
- CHEM& 131 Intro to Organic/Biochemistry (6)
- CHEM& 161 General Chemistry with Lab I (5)
- CHEM& 162 General Chemistry with Lab II (5)
- CHEM& 163 General Chemistry with Lab III (5)
- CHEM& 261 Organic Chemistry with Lab I (6)
- CHEM& 262 Organic Chemistry with Lab II (6)
- CHEM& 263 Organic Chemistry with Lab III (6)
- ENVS 155 Applied Environmental Methods (5)
- GEOG 210 Physical Geography (5)
- GEOL& 101 Introduction to Physical Geology (5)
- GEOL& 103 Historical Geology (5)
- GEOL 107 Exploring Earth Science (5)
- GEOL& 110 Environmental Geology (5)
- GEOL& 115 Geology of National Parks (5)
- GEOL& 120 Volcanoes (5)
- GEOL& 208 Geology of Pacific Northwest (5)
- GEOL 220 Earth Resources and the Environment (5)
- GEOL 283 Regional Geology (5)
- NSCI 150 Nature (5)
- NSCI 160 Environmental Biology (5)
- NSCI 300 Inquiry Based Science for Teachers (5)
- OCEA& 101 Introduction to Oceanography (5)
- OCEA 170 Marine Biology (5)
- PHYS& 110 Physics for Non-Science Majors (5)
- PHYS& 114 General Physics I (5)
- PHYS& 115 General Physics II (5)
- PHYS& 116 General Physics III (5)
- PHYS& 221 Engineering Physics I (6)
- PHYS& 222 Engineering Physics II (6)
- PHYS& 223 Engineering Physics III (6)
- PS 101 Introduction to Physical Science (5)

Early Childhood Education Requirements (48 Credits)

- ECED& 107 Health, Nutrition and Safety (5)
- ECED& 120 Practicum: Focus on Relationships (2)
- EDUC& 130 Guiding Behavior (3) *
- EDUC& 150 Child, Family and Community (3)
- ECED& 160 Curriculum Development (5) *
- ECED& 170 Environments for Young Children (3) *
- ECED& 180 Language and Literacy Development (3) *
- ECED& 190 Observation and Assessment (3)
- ECED 200 Introduction to Early Childhood Special Education (5)

- EDUC 223 Practicum: Focus on Special Education (2)
- ECED 225 Math/Science for Children (5) *
- ECED 270 Planning and Assessment for Student Teaching (3)
- ECED 275 Early Childhood Student Teaching (5)
- ECED 280 Early Childhood Education Professional Portfolio (1)

College Success (3 Credits)

- COLLG 110 College Success (3)

Total Credits Required 93

**Prerequisites for ECED 270/ECED 275. Must complete with a minimum grade of 2.0.*

Program code: 402

Last revision: 2017-18

Economics Major

Students planning to transfer as economics majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. Economics majors should work closely with a faculty advisor to plan an overall program of study.

Emergency Medical Services Certificate

Emergency Medical Services Requirements (44-48 Credits)

- EMT 210 Emergency Medical Technician I (5)
- EMT 211 Emergency Medical Technician II (5)
- EMT 212 Emergency Medical Technician III (5)
- BIOL& 170 Human Biology: Anatomy & Physiology (5)
- COLLG 110 College Success (3)
- CMST& 220 Public Speaking (5)
- ENGL& 101 English Composition I (5)
- MATH& 146 Introduction to Statistics (5)
- PSYC& 100 General Psychology (5)

One of the following courses:

- EMT 260 Emergency Medical Services (1-5)
- MNGT 130 Customer Relationship Management (5)

Total Credits Required 44-48

Program code: 364C

Last revision: 2016-17

Engineering Major

This planning sheet lists only the courses related to the engineering major. Students planning to transfer as engineering majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. Students could also follow the Associate of Science (AS-T) Degree Track 2 or the Associate of Arts - Option B. Engineering majors should work closely with a faculty advisor to plan an overall program of study.

Engineering Major

The following courses are recommended as being of special interest to engineering students.

- CHEM& 161 General Chemistry with Lab I (5)
- CHEM& 162 General Chemistry with Lab II (5)
- ENGL& 235 Technical Writing (5)
- ENGR 101 Introduction to Engineering (5)
- ENGR& 114 Engineering Graphics (5) (CAD)
- 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 as a Second Language (ESL)

Faculty: Sabine Burghagen, Julie Sandeno, Sandra Stevens

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

English Major

This planning sheet lists only the courses related to the English major. Students planning to transfer as English majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. English majors should work closely with a faculty advisor to plan an overall program of study.

English Major

These courses are not intended to describe the requirements for English majors, but are offered as recommendations as schedules allow.

Literature Emphasis

- 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 204 The Bible as Literature (5)
- ENGL 205 Introduction to Mythology (5)
- ENGL 210 Introduction 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: Comedy, Humor and Satire (5)
- ENGL 266 Women Writers: Voices from the International Mosaic (5)

Composition Emphasis

- ENGL& 102 Composition II: 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)

Entrepreneurship Certificate

Course Requirements (53 Credits)

- ACCT 275 Payroll and Business Taxes (5)
- COLLG 110 College Success (3)
- CIS 130 Productivity Software (5)
- MNGT 130 Customer Relationship Management (5) *
- MNGT 182 Creative Sales (5)
- MNGT 282 Principles of Marketing (5)
- MNGT 284 Small Business Planning (5)
- MNGT 295 Human Resource Management (5)

Select one:

- ACCT 101 Survey of Accounting (5)
- ACCT& 201 Principles of Accounting I (5)

Select one:

- BTECA 115 Business English I (5) * †
- ENGL& 101 English Composition I (5) * †

Select one:

- BTECA 117 Business Mathematics (5) * †
- MATH& 146 Introduction to Statistics (5) * †

Total Credits Required 53

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

†Prerequisite required.

Program code: 257

Last revision: 2017-18

Environmental Science Major

This planning sheet lists only the courses related to the environmental science major. Students planning to transfer as environmental science majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students could also follow the Associate of Science (AS-T) Degree Track 1. Students should check with the transfer institution regarding specific requirements and transferable credits. Environmental science majors should work closely with a faculty advisor to plan an overall program of study.

Recommended Courses

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)

Explorer/Cadet Pre-Law Enforcement Certificate

The certificate for explorer/cadet pre-law enforcement provides students with an overview of skills needed to perform the duties of a volunteer in law enforcement, a commissioned reserve law enforcement officer and a commissioned law enforcement officer. It also is an overview of the criminal justice system and major skills needed to succeed in law enforcement. These certificates include written, oral and multicultural communications and practical application of knowledge and skills. Students are current or former law enforcement explorers or cadets, or reserve law enforcement employees looking for career or educational advancement. These certificates flow directly into the Associate in Criminal Justice and the AA-DTA degree, allowing students to continue to a four-year institution.

Students must earn a minimum grade of 2.0 in each criminal justice course to obtain this certificate. Students wanting to obtain an AA-DTA while completing their Associate in Criminal Justice must earn a minimum overall GPA of 2.0 and earn a minimum grade of 1.5 in each core requirement and core elective.

Course Requirements (42 Credits)

- COLLG 110 College Success (3)
- CJ 103 Criminal Justice: Success Seminar (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 (5) *
(180 hours volunteering)
- 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 42

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.

†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 required.*

Program code: 832E

Last revision: 2016-17

Fashion Merchandising Certificate

Course Requirements (58 Credits)

- CIS 130 Productivity Software (5)
- COLLG 110 College Success (3)
- FASH 160 Introduction to Fashion Merchandising (5)
- FASH 162 Fashion Design and Clothing Construction Analysis (5)
- FASH 163 Consumer Textiles (5)
- MNGT 182 Creative Sales (5)
- MNGT 186 Professional Development (5)
- MNGT 275 Introduction to Visual Promotion (5)
- MNGT 293 Retailing and Merchandising (5)

Select one:

- ACCT 101 Survey of Accounting (5)

- ACCT& 201 Principles of Accounting I (5)

Select one:

- BTECA 115 Business English I (5) * †
- ENGL& 101 English Composition I (5) * †

Select one:

- BTECA 117 Business Mathematics (5) * †
- MATH& 146 Introduction to Statistics (5)

Total Credits Required 58

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

†Prerequisite required.

Last revision: 2017-18

Program code: 210C

Fire Command and Administration Associate

General Requirements (28 Credits)

- BTECA 117 Business Mathematics (5)
- COLLG 110 College Success (3)
- CMST& 101 Introduction to Communications (5)
- ENGL& 101 English Composition I (5)
- PS 101 Introduction to Physical Science (5)
- PSYC& 100 General Psychology (5)

Fire Command and Administration Requirements (51 Credits)

- FCA 120 Basic Fire Investigation (3)
- FCA 132 Technical Writing for Fire Service (3)
- FCA 155 Fire Instructor I (3)
- FCA 157 Public Information Officer (2)

- FCA 160 Tactics I (2)
- FCA 173 Fire Service and Response to Terrorism (5)
- FCA 180 Fire Administration (3)
- FCA 195 Fire Officer I (4)
- FCA 259 Legal Aspects of Fire Service (3)
- FCA 260 Basic Incident Command System/National Incident Management System (2)
- FCA 261 Hazardous 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)

Electives (14 Credits)

- FCA 137 Introduction 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 H2O 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)
- Emergency Medical Technician - Basic*

Total Credits Required 93

**Valid Basic Emergency Medical Technician Certification would satisfy as an elective. Please contact the coordinator for more information.*

Program code: 829

Last revision: 2016-17

Forensic Technician Certificate

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.

Course Requirements (42 Credits)

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

- COLLG 110 College Success (3)
- CJ 103 Criminal Justice: Success Seminar (1)
- CJ 112 Criminal Justice in America (5)
- CJ 150 Policing in America (5)
- CJ 205 Investigative Technology (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& 114 General Physics I (5) *

Select one:

- ANTH& 236 Forensic Anthropology (5)
- CHEM& 110 Chemical Concepts with Lab (5) *

Select one:

- CJ 202 Concepts of Criminal Law (5)
- CJ 245 Introduction to Investigation and Evidence (5)

Total Credits Required 42

**Prerequisite required.*

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.

Program code: 967C

Last revision: 2016-17

General Education Development (GED)

Faculty: Teah Bergstrom, Bill Orrange

The GED consists of four tests: Language Arts, Math, Science and Social Science. Students can take PCAD classes to review topics in specific subject matter to increase skills prior to taking the tests. Once students are ready to take the test go to www.gedtestingservice.com to schedule and pay.

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.

BTECA Requirements (48-49 Credits)

- ACCT 101 Survey of Accounting (5)
- COLLG 110 College Success (3)
- BTECA 102 Keyboard Skill Development: Alpha and Technical Improvement (1)
- BTECA 103 Keyboard Skill Development: Alphanumeric and Technical Improvement (1)
- BTECA 104 Keyboard Skill Development: Alphanumeric Improvement (1)
- BTECA 105 Keyboard Skill Development: Further Alphanumeric Improvement (1)
- BTECA 136 Ten-Key Mastery (1)
- BTECA 145 Records and Database Management (5)
- BTECA 160 Business Document Formatting: Basic (1)
- BTECA 161 Business Document Formatting: Advanced (1)
- BTECA 205 Office Procedures (3)
- BTECA 245 Cooperative Work Experience I (3)
- BTECA 246 Cooperative Work Experience II (3)

Select both:

- BTECA 248 Business Information Technology Seminar I (2)
- BTECA 249 Business Information Technology Seminar II (2)

or select:

- MNGT 186 Professional Development (5)

Select 15 credits from the following:

- BTECA 109 Introduction to Windows (3)
- BTECA 110 Microsoft Word: Prepare and Edit Documents (1)
- BTECA 111 Microsoft Word: Enhance and Customize Documents (1)
- BTECA 112 Microsoft Word: Create Tables and Merge Documents (1)
- BTECA 121 Microsoft Excel: Prepare Format Basic Worksheets (1)
- BTECA 122 Microsoft Excel: Insert Formulas and Enhancements (1)
- BTECA 123 Microsoft Excel: Create Charts and Diagrams (1)
- BTECA 130 Microsoft PowerPoint: Create and Modify a Powerpoint Presentation (1)
- BTECA 131 Microsoft PowerPoint: Format and Add Visual Element (1)
- BTECA 132 Microsoft PowerPoint: Customize and Share a Presentation (1)

- BTECA 140 Microsoft Access: Create and Modify a Database (1)
- BTECA 141 Microsoft Access: Create and Queries and Forms (1)
- BTECA 142 Microsoft Access: Create Reports, Charts and Web Pages (1)
- BTECA 150 Microsoft Outlook: Using E-Mail and the Calendar (1)
- BTECA 151 Microsoft Outlook: Managing Tasks, Contacts and Inbox (1)
- BTECA 152 Microsoft Outlook: Customizing and Integrating Outlook (1)

General Requirements (43 Credits)

- BUS& 101 Introduction to Business (5)
- BTECA 115 Business English I (5) *
- BTECA 116 Business English II (3) *
- BTECA 117 Business Mathematics (5) *
- BUS 135 Introduction to Online Marketing (5)
- BUS& 201 Business Law (5)
- BUS 240 Human Relations in the Workplace (5) *
- BTECA 250 Business Communications (5)
- MNGT 130 Customer Relationship Management (5) *

Total Credits Required 91-93

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

Program code: 547A

Last revision: 2017-18

Geography Major

Geography Major

This planning sheet lists only the courses related to the geography major. Students planning to transfer as geography majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students can also follow the Associate of Science (AS-T) Degree Track 1. Students should check with the transfer institution regarding specific requirements and transferable credits. Geography majors should work closely with a faculty advisor to plan an overall program of study.

There are no prerequisites for geography classes at Pierce College. Course options include:

- GEOG 100 Introduction to Geography (5)
- GEOG 150 The Americas, Australia, Europe and New Zealand (5)
- GEOG 160 Africa, Middle East and Asia (5)
- GEOG 200 Human Geography (5)
- GEOG 205 Physical Geography (5)
- GEOG 207 Economic Geography (5)
- GEOG 210 Physical Geography (5) - Lab

Geology Major

Geology Major

This planning sheet lists only the courses related to the geology major. Students planning to transfer as geology majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. Geology majors should work closely with a faculty advisor to plan an overall program of study.

The following courses should be taken.

- CHEM& 161 General Chemistry with Lab I (5)
- CHEM& 162 General Chemistry with Lab II (5)
- CHEM& 163 General Chemistry with Lab III (5)
- GEOL& 101 Introduction 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 Calculus I (5)
- MATH& 152 Calculus II (5)
- MATH& 153 Calculus III (5)
- PHYS& 221 Engineering Physics I (6)
- PHYS& 222 Engineering Physics II (6)
- PHYS& 223 Engineering Physics III (6)

Health Informatics and Integrated Technology Associate

Health care is the fastest growing market in the computer field. With the federal mandate to implement the electronic health record (EHR) and the paradigm shift in the industry to health informatics, the Health Information Management (HIM) field is rapidly evolving from paper-based medical records management to an increasingly electronic environment. To accommodate this migration, skill sets for HIM professionals are expanding to include a wide range of technical expertise in specialized areas, including relational database management, data communications, programming and systems analysis.

The Health Informatics and Integrated Technology (HIIT) and Healthcare Database Management & Design (HDMD) programs are designed for students interested in a non-clinical care IT profession in the health care industry that merges both the health care background with IT database and business analysis skills.

Students who successfully complete the HIIT degree could apply for IT positions such as junior database administrators (DBA), database developers, business analysts, data analysts and application analysts in the health care industry or similar positions in related industries. For a parallel non-health care degree, see the Associate in Database Management & Design under Computer Information Systems.

Prerequisites

College level reading, math, and English; keyboarding 35 wpm; and CIS 121.

BTECM Core Requirements (15 Credits)

- BTECM 150 Medical Terminology I (5)
- BTECM 257 Electronic Health Records (5)

Select one:

- BIOL& 170 Human Biology: Anatomy & Physiology (5)
- BTECM 151 Medical Terminology II (5)

Related Instruction (23 Credits)

- BUS 240 Human Relations in the Workplace (5)
- ENGL& 101 English Composition I (5)
- MATH& 146 Introduction to Statistics (5)
- CMST& 220 Public Speaking (5)
- COLLG 110 College Success (3)

CIS Core Requirements (68 Credits)

- CIS 122 Introduction to Computer Programming (5)
- CIS 123 Introduction to Object Oriented Programming (OOP) (5)
- CIS 130 Productivity Software (5)
- CIS 136 Spreadsheet Applications (3)
- CIS 210 Business Analysis (5)
- CIS 260 Database Management Systems (5)
- CIS 261 Structured Query Language (5)
- CIS 262 Database Administration Backup and Recovery (5)
- CIS 269 Advanced SQL Programming and Tuning (5)
- CIS 275 Business Analytics/Intelligence (5)
- CIS 280 Systems Analysis and Design (5)
- CIS 290 Supervised Internship (5)
- CNE 232 Installing and Configuring Windows Server (5)

Select one:

- CIS 265 Data Communications and Networks (5)
- CNE 241 CNA 1: Introduction to Networks (5)

Total Credits Required 106

Individual courses may require additional pre-requisites. Please see program coordinator for an educational plan and correct sequencing of courses.

Note: Students should be aware that certain past criminal and civil behavior may prohibit employment opportunities in some health IT occupations. Students are encouraged to research these situations.

Note: Due to the rapid changes in the IT industry the Special Topics courses, CIS 155 and CNE 155, may substituted as needed into the CIS or CNE degree programs on the advice of the CIS/CNE faculty and program coordinator.

Program code: 439

Last revision: 2016-17

Health/Physical Education Major

This planning sheet lists only the courses related to the health/physical education major. Students planning to transfer as health/physical education majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. Health/Physical education majors should work closely with a faculty advisor to plan an overall program of study.

Recommended Courses

- BIOL& 160 General Biology w/Lab (5)
- BIOL& 241 Human Anatomy and Physiology 1 (6)
- BIOL& 242 Human Anatomy and Physiology 2 (6)
- CHEM& 100 Preparatory Chemistry (5)
- CMST& 220 Public Speaking (5)
- ENGL& 101 English Composition I (5)
- HSCI 210 Wellness (5)
- HSCI 228 CPR for the Professional Rescuer, with First Aid and Blood Borne Pathogens (2)
- NUTR& 101 Nutrition (5)
- PE 119-PE 271 Physical Education Activity 1-2
- PSYC& 100 General Psychology (5)
- SOC& 101 Introduction to Sociology (5)

Healthcare Database Management and Design Certificate

Prerequisites

College level reading, math, and English; keyboarding 35 wpm; and CIS 121, CIS 122, CIS 130, CIS 134, CIS 265 or HIIT Advisor- approved and documented IT industry experience.

BTECM Core Requirements (13 Credits)

- BTECM 150 Medical Terminology I (5)
- BTECM 257 Electronic Health Records (5)
- COLLG 110 College Success (3)

CIS Core Requirements (30 Credits)

- CIS 210 Business Analysis (5)
- CIS 260 Database Management Systems (5)
- CIS 261 Structured Query Language (5)
- CIS 262 Database Administration Backup and Recovery (5)
- CIS 269 Advanced SQL Programming and Tuning (5)
- CIS 280 Systems Analysis and Design (5)

Total Credits Required 43

Individual courses may require additional pre-requisites. Please see the program coordinator for an educational plan and correct sequencing of courses.

Note: Students should be aware that certain past criminal and civil behavior may prohibit employment opportunities in some health IT occupations. Students may be required to take a background check and a 5-panel drug screen in order to be eligible for an internship and for employment. Students are encouraged to research these situations.

Note: Due to the rapid changes in the IT industry, the Special Topics courses, CIS 155 and CNE 155, may be substituted as needed into the CIS or CNE degree programs on the advice of the CIS/CNE faculty and program coordinator.

Program code: 529C

Last revision: 2016-17

High School Completion

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:

- 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.
- 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

- Make an appointment with an advisor. Fort Steilacoom: (253) 912-3743 or Puyallup: (253) 864-3162
- 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, staff will help students obtain transcripts.

REQUIREMENTS

- All students must meet Pierce College High School and Washington state credit requirements.
- Any student who began high school in 2004 or later must take and pass the Washington State Assessment or state-approved alternatives.
- Pierce College requires 20 credits and the above requirements for a high school diploma.
- All students must take a placement assessment.
- 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.

History Major

History Major

This planning sheet lists only the courses related to the history major. Students planning to transfer as history majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. History majors should work closely with a faculty advisor to plan an overall program of study.

The following courses should be taken:

- HIST& 126 World Civilizations I (5)
- HIST& 127 World Civilizations II (5)
- HIST& 128 World Civilizations III (5)
- HIST& 156 History of U. S. I (5)
- HIST& 157 History of U. S. II (5)
- HIST& 158 History of U.S. III (5)

More specialized history courses, without prerequisites, include:

- HIST& 159 History of U.S. IV (5)
- HIST 168 Vietnam War as History (5)

- HIST 260 History of Russia and the Soviet Union (5)
- HIST& 214 Pacific Northwest History (5)
- HIST 270 Introduction to the Far East (5)
- HIST 272 Survey of Middle East History (5)
- HIST 277 The Cold War (5)
- HIST 280 Introduction to Chinese Civilization (5)
- HIST 284 Introduction to the Balkans (5)

Note:

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 College.

Homeland Security Emergency Management (AT)

General Requirements (40 Credits)

Students must earn a minimum grade of 2.0 in each course to earn this degree.

Communications (10 Credits)

- ENGL& 101 English Composition I (5)
- ENGL& 235 Technical Writing (5)

Quantitative/Symbolic Reasoning Skills (5 Credits)

- MATH& 146 Introduction to Statistics (5)

Social Sciences (10 Credits)

- PSYC& 100 General Psychology (5)

Select one:

- HIST& 158 History of U.S. III (5)
- POLS& 101 Introduction to Political Science (5)
- POLS& 203 International Relations (5)
- POLS 230 State and Local Government (5)

Humanities (5 Credits)

Select one:

- CMST& 101 Introduction to Communications (5)
- CMST& 102 Introduction to Mass Media (5)
- CMST 105 Intercultural Communication (5)
- CMST& 220 Public Speaking (5)
- CMST& 230 Small Group Communication (5)

Natural Sciences (10 Credits)

Select two:

- ATMOS 101 Introduction to Weather (5)
- ENV&S 100 Survey of Environmental Science (5)
- ENV&S 150 Environmental Issues (5)
- GEOG 210 Physical Geography (5)
- GEOL& 110 Environmental Geology (5)

HSEM Core Requirements (44-48 Credits)

- COLLG 110 College Success (3)
- HSEM 102 Introduction to Emergency Management (5) *
- HSEM 110 Basic Incident Command System/National Incident Management System (2) *
- HSEM 120 All Hazards Emergency Planning (3) *
- 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 190 Homeland Security Emergency Management Special Topics (1-5) **/*
- 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 Homeland Security Emergency Management Work-Based Learning (5)
- HSEM 250 Homeland Security Law and Ethics (3)

HSEM Electives (15 Credits)

- BTECA 110 Microsoft Word: Prepare and Edit Documents (1)
- BTECA 111 Microsoft Word: Enhance and Customize Documents (1)
- BTECA 112 Microsoft Word: Create Tables and Merge Documents (1)
- BTECA 121 Microsoft Excel: Prepare Format Basic Worksheets (1)
- BTECA 122 Microsoft Excel: Insert Formulas and Enhancements (1)
- BTECA 123 Microsoft Excel: Create Charts and Diagrams (1)
- BTECA 130 Microsoft PowerPoint: Create and Modify a Powerpoint Presentation (1)
- BTECA 131 Microsoft PowerPoint: Format and Add Visual Element (1)
- BTECA 132 Microsoft PowerPoint: Customize and Share a Presentation (1)
- BTECA 250 Business Communications (5)
- CJ& 105 Corrections in America (5)
- CJ 112 Criminal Justice in America (5)
- CJ 120 Constitutional Rights (5)
- CJ 150 Policing in America (5)
- CJ 226 Criminal Justice Response to Terrorism (5)
- ENGL& 102 Composition II: Argumentation and Research (5)
- HSEM 190 Homeland Security Emergency Management Special Topics (1-5) **
- INTS 150 Contemporary Rebel, Secessionist and Terrorist Organizations (5)
- MNGT 186 Professional Development (5)
- MNGT 283 Principles of Management (5)
- OSH 100 Introduction to Occupational Safety and Health (5)
- OSH 110 Safety Management (5)
- OSH 190 Industrial Security (3)
- OSH 240 Handling Hazardous Materials (4)

Total Credits Required 99-103

* Indicates HSEM certificate (24 - 28 credits) Students must earn a minimum grade of 2.0 in each HSEM course to obtain this degree.

**HSEM 190 - Special Topics has a different topic each quarter (represented by changing letter designation) and may be repeated. The first time applies towards the Core Requirements and additional HSEM 190 courses apply toward electives.

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 advisor.

Program code: 966

Last revision: 2016-17

Homeland Security Emergency Management (BAS/HSEM)

The Bachelor of Applied Science in Homeland Security Emergency Management is an online multi-disciplinary management level program designed to train the next generation of adaptive leaders to work collaboratively across industry sectors and interact with each other to produce a synchronized plan for a whole community response to emergencies, disasters or catastrophic events. Homeland Security Emergency Management is a cross-functional industry that requires managers and leaders that have the ability to think through multiple systems, processes, and relationships to analyze how various public, private, and non-profit organizations function. Courses are based on industry established competencies in leadership, planning, systems thinking, disaster communications, ethics and legal issues, cultural diversity, information management, financial and budget systems, and risk assessment and management. The degree includes an internship opportunity to apply skills and knowledge acquired through classroom study in a industry setting.

General Requirements (3 Credits)

Students must earn a minimum grade of 2.0 in each course to earn this degree.

- COLLG 110 College Success (3)

Communications (15 Credits)

- ENGL& 101 English Composition I (5)
- ENGL& 102 Composition II: Argumentation and Research (5)
- ENGL& 235 Technical Writing (5)

Quantitative/Symbolic Reasoning Skills (5 Credits)

- MATH& 146 Introduction to Statistics (5)

Humanities (10 Credits)

Select one:

- CMST& 101 Introduction to Communications (5)
- CMST 105 Intercultural Communication (5)
- CMST& 220 Public Speaking (5)

Select one:

- HUM 106 Ethnic Thought and Culture (5)
- HUM 240 World Religions (5)

Social Sciences (10 Credits)

- PSYC& 100 General Psychology (5)

Select one:

- ECON& 201 Microeconomics (5)
- ECON& 202 Macroeconomics (5)
- HIST& 158 History of U.S. III (5)
- POLS& 101 Introduction to Political Science (5)
- POLS& 203 International Relations (5)
- POLS 230 State and Local Government (5)

Natural Sciences (10 Credits)

Select two: one must be a lab

- ① ATMOS 101 Introduction to Weather (5)
- ENVS& 100 Survey of Environmental Science (5)
- ENVS 150 Environmental Issues (5)
- ① GEOG 210 Physical Geography (5)
- ① GEOL& 110 Environmental Geology (5)

Additional General Requirements (15 Credits)

Select three:

- CMST& 102 Introduction to Mass Media (5)
- INTS 150 Contemporary Rebel, Secessionist and Terrorist Organizations (5)
- INTS 164 Border and Genocidal Conflicts in the Modern World (5)
- POLS& 202 American Government (5)

HSEM Core Requirements (120-124 Credits)

- BUS 260 Project Management I: Planning (5)
- BUS 261 Project Management II: Managing (5)
- HSEM 102 Introduction to Emergency Management (5)
- HSEM 110 Basic Incident Command System/National Incident Management System (2)
- HSEM 120 All Hazards Emergency Planning (3)

- 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 190 Homeland Security Emergency Management Special Topics (1-5)
- 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 Homeland Security Emergency Management Work-Based Learning (5)
- HSEM 250 Homeland Security Law and Ethics (3)
- HSEM 330 Risk Assessment for Homeland Security Emergency Management (5)
- HSEM 340 Effective Organizational Communication and Public Speaking (4)
- HSEM 357 External Affairs for Emergency Management (5)
- HSEM 360 Leadership in Homeland Security Emergency Management (5)
- HSEM 365 Systems Thinking and Individual Leadership (5)
- HSEM 370 Continuity Planning for Business and Government (5)
- HSEM 380 Risk Reduction for Homeland Security Emergency Management (5)
- HSEM 410 Ethics and Diversity in Homeland Security Emergency Management (5)
- HSEM 420 Technology and Cybersecurity in Homeland Security Emergency Management (5)
- HSEM 430 Legal Issues in Homeland Security Emergency Management (5)
- HSEM 440 Geographic Information Systems (GIS) for Homeland Security Emergency Management (3)
- HSEM 449 Professional Development Seminar (2)
- HSEM 450 Workbased Learning for Homeland Security Emergency Management (5)
- HSEM 460 Research Methods in Homeland Security Emergency Management (5)
- HSEM 470 Homeland Security Emergency Management Capstone Project (5)

Total Credits Required 188-192

Program code: 96B

Last revision: 2016-17

Homeland Security Emergency Management Certificate

Course Requirements (24-28 Credits)

Students must earn a minimum grade of 2.0 in each course to earn this certificate.

- HSEM 102 Introduction to Emergency Management (5)
- HSEM 110 Basic Incident Command System/National Incident Management System (2)

- HSEM 120 All Hazards Emergency Planning (3)
- 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 190 Homeland Security Emergency Management Special Topics (1-5) **

Total Credits Required 24-28

**HSEM 190 - Special Topics has a different topic each quarter (represented by changing letter designation) and may be repeated.

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 advisor.

Program code: 966C

Last revision: 2016-17

Human Resource Management Certificate

Course Requirements (58 Credits)

- ACCT 275 Payroll and Business Taxes (5) †
- BUS 240 Human Relations in the Workplace (5) *
- CIS 130 Productivity Software (5)
- COLLG 110 College Success (3)
- MNGT 276 Employment Law: Human Resource Legal Issues (5)
- MNGT 283 Principles of Management (5)
- MNGT 284 Small Business Planning (5)
- MNGT 295 Human Resource Management (5)
- MNGT 296 Current Trends in Human Resources (5) †

Select one:

- ACCT 101 Survey of Accounting (5) †
- ACCT& 201 Principles of Accounting I (5)

Select one:

- BTECA 115 Business English I (5) * †
- ENGL& 101 English Composition I (5) * †

Select one:

- BTECA 117 Business Mathematics (5) * †
- MATH& 146 Introduction to Statistics (5)

Total Credits Required 58

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

†Prerequisite required.

Program code: 545C

Last revision: 2017-18

Humanities Major

Humanities Courses

This planning sheet lists only the courses related to the humanities major. Students planning to transfer humanities majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. Humanities majors should work closely with a faculty advisor to plan an overall program of study.

- HUM& 101 Introduction 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 120 Introduction to Folklore (5)
- HUM 161 Western Thought and Culture I: The Classical World (5)
- HUM 162 Western Thought and Culture II: The Middle Ages (5)
- HUM 163 Western Thought and Culture III: Birth of the Modern World (5)
- HUM 164 Western Thought and Culture IV: The Modern World (5)
- HUM 204 American Popular Culture (5)
- HUM 209 The Civil Rights Movement: From the Ground Up (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)

Integrated Basic Education and Skills Training (I-BEST)

Pierce College Integrated Basic Education and Skills Training (I-BEST) is open to all Pierce College Adult Diploma (PCAD), Adult Basic Education (ABE), General Education Development (GED), English as a Second Language (ESL), and pre-college level adult learners. I-BEST programs provide high 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, Business Administration 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) 964-6691

Integrated Business Technology Certificate

The Certificate in Integrated Business Technology is part of the Integrated Basic Education and Skills Training (I-BEST) program. Students who successfully complete this certificate can continue on a longer pathway with all credits leading to completion of an associate degree in Business Administration.

Pierce College Integrated Basic Education and Skills Training (I-BEST) is open to all Pierce College Adult Diploma (PCAD), Adult Basic Education (ABE), General Education Development (GED), English as a Second Language (ESL), and pre-college level adult learners. I-BEST programs provide high 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, Business Information 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 highdemand 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

BTECA Requirements (24 Credits)

- COLLG 110 College Success (3)
- BTECA 100 Business Keyboarding: Key the Alphabet by Touch (1)
- BTECA 101 Business Keyboarding: Key Numbers and Symbols by Touch (1)
- BTECA 109 Introduction to Windows (3)
- BTECA 110 Microsoft Word: Prepare and Edit Documents (1)
- BTECA 121 Microsoft Excel: Prepare Format Basic Worksheets (1)
- BTECA 130 Microsoft PowerPoint: Create and Modify a Powerpoint Presentation (1)
- BTECA 136 Ten-Key Mastery (1)

- BTECA 145 Records and Database Management (5)
- BTECA 150 Microsoft Outlook: Using E-Mail and the Calendar (1)
- BTECA 160 Business Document Formatting: Basic (1)
- BTECA 205 Office Procedures (3)
- BTECA 248 Business Information Technology Seminar I (2)

Total Credits Required 24

Program code: 559C

Last revision: 2016-17

Intensive English Program

Faculty: Mishelle Pasinato, Andrea Whittemore

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 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 count toward 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 11/21/31/41 Reading and Writing 1-4

IE 12/22/32/42 English Grammar 1-4

IE 13/23/33/43 English Listening and Speaking 1-4

Student Learning Outcomes available at <https://my.pierce.ctc.edu/webapps/dci/detail.aspx?uid=61>.

International Business Associate

In seaport regions, there is a heavy dependence on international trade. Assistants in this field develop cultural understanding with required skills in a foreign language, anthropology and international business communication. Students develop computer skills including word processing, spreadsheets and databases.

BTECA Requirements (45-46 Credits)

- ACCT 101 Survey of Accounting (5)
- COLLG 110 College Success (3)
- BTECA 102 Keyboard Skill Development: Alpha and Technical Improvement (1)
- BTECA 103 Keyboard Skill Development: Alphanumeric and Technical Improvement (1)
- BTECA 104 Keyboard Skill Development: Alphanumeric Improvement (1)
- BTECA 105 Keyboard Skill Development: Further Alphanumeric Improvement (1)
- BTECA 136 Ten-Key Mastery (1)
- BTECA 145 Records and Database Management (5)
- BTECA 160 Business Document Formatting: Basic (1)
- BTECA 161 Business Document Formatting: Advanced (1)
- BTECA 245 Cooperative Work Experience I (3)
- BTECA 246 Cooperative Work Experience II (3)

Select both:

- BTECA 248 Business Information Technology Seminar I (2)
- BTECA 249 Business Information Technology Seminar II (2)

or select:

- MNGT 186 Professional Development (5)

Select 15 credits from the following:

- BTECA 109 Introduction to Windows (3)
- BTECA 110 Microsoft Word: Prepare and Edit Documents (1)
- BTECA 111 Microsoft Word: Enhance and Customize Documents (1)
- BTECA 112 Microsoft Word: Create Tables and Merge Documents (1)
- BTECA 121 Microsoft Excel: Prepare Format Basic Worksheets (1)
- BTECA 122 Microsoft Excel: Insert Formulas and Enhancements (1)
- BTECA 123 Microsoft Excel: Create Charts and Diagrams (1)
- BTECA 130 Microsoft PowerPoint: Create and Modify a Powerpoint Presentation (1)
- BTECA 131 Microsoft PowerPoint: Format and Add Visual Element (1)
- BTECA 132 Microsoft PowerPoint: Customize and Share a Presentation (1)
- BTECA 140 Microsoft Access: Create and Modify a Database (1)
- BTECA 141 Microsoft Access: Create and Queries and Forms (1)
- BTECA 142 Microsoft Access: Create Reports, Charts and Web Pages (1)
- BTECA 150 Microsoft Outlook: Using E-Mail and the Calendar (1)
- BTECA 151 Microsoft Outlook: Managing Tasks, Contacts and Inbox (1)
- BTECA 152 Microsoft Outlook: Customizing and Integrating Outlook (1)

General Requirements (48 Credits)

- Foreign Language (same language) (15)
- BTECA 115 Business English I (5) *
- BTECA 116 Business English II (3) *
- BTECA 117 Business Mathematics (5) *
- BTECA 250 Business Communications (5)
- MNGT 130 Customer Relationship Management (5) *

Select one:

- ANTH& 106 The American Mosaic (5)
- ANTH& 206 Cultural Anthropology (5)

Select one:

- GEOG 100 Introduction to Geography (5)
- GEOG 200 Human Geography (5)

Total Credits Required 93-94

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

Program code: 551

Last revision: 2016-17

Journalism Major

Journalism/Communications Major

This planning sheet lists only the courses related to the journalism/communications major. Students planning to transfer as journalism/communications majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. Journalism/communications majors should work closely with a faculty advisor to plan an overall program of study.

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. Students also are encouraged to pursue courses in anthropology, geography and environmental issues.

- CMST& 102 Introduction to Mass Media (5)
- CMST& 220 Public Speaking (5)
- ECON& 201 Microeconomics (5)
- ENGL& 102 Composition II: Argumentation and Research (5)
- HIST& 159 History of U.S. IV (5)
- JOURN 102 Introduction to News Writing (5)
- JOURN 103 Introduction to Feature Writing (1-5)
- JOURN 111 College Newspaper: Reporting and Editing (1-5)
- JOURN 112 College Newspaper Photojournalism (1-5)
- JOURN 125 The Documentary: A Social Force (5)
- MNGT 275 Introduction to Visual Promotion (5)
- PHIL& 101 Introduction to Philosophy (5)
- POLS& 202 American Government (5)
- PSYC& 100 General Psychology (5)
- SOC& 101 Introduction to Sociology (5)

Kinesiology (AAS-T)

Core Requirements (51 Credits)

College Success (3 Credits)

- COLLG 110 College Success (3)

Communication Skills (5 Credits)

- ENGL& 101 English Composition I (5)

Quantitative/Symbolic Reasoning Skills (5 Credits)

- MATH& 107 Math in Society (5)

Humanities (5 Credits)

- CMST& 220 Public Speaking (5)

Social Science (10 Credits)

- PSYC& 100 General Psychology (5)
- BUS& 101 Introduction to Business (5)

Related Instruction (5 Credits)

- BUS 240 Human Relations in the Workplace (5)

Natural Science (11 Credits)

- BIOL& 241 Human Anatomy and Physiology 1 (6)
- NUTR& 101 Nutrition (5)

Health Science (7 Credits)

- HSCI 210 Wellness (5)
- HSCI 228 CPR for the Professional Rescuer, with First Aid and Blood Borne Pathogens (2)

General Requirements (44 Credits)

The KINS courses are offered at the Fort Steilacoom campus only.

- KINS 155 Applied Anatomy and Physiology for the Health and Fitness Professional (5)
- KINS 250 Kinesiology (5)
- KINS 252 Nutrition and Exercise (3)
- KINS 253 Essentials of Weight Management (2)
- KINS 254 Essentials of Fitness Training (5)
- KINS 256 Exercise Physiology for the Health and Fitness Professional (5)
- KINS 257 Client Care and Marketing for the Health and Fitness Professional (3)
- KINS 258 Athletic Training and Acute Injury Management (3)
- KINS 259 Special Populations Care for the Health and Fitness Professional (3)
- KINS 260 Health Appraisal and Fitness Assessment (3)
- KINS 262 Internship (5)

Physical Education (2 Credits)

- Students are required to complete two (2) one credit Physical Education courses. (2)

Total Credits Required 95

Program code: 351T

Last revision: 2016-17

Marketing Certificate

Course Requirements (48 Credits)

In addition to the requirements listed below, students are encouraged to take ACCT 101.

- BUS 135 Introduction to Online Marketing (5)
- CIS 130 Productivity Software (5)
- COLLG 110 College Success (3)
- MNGT 130 Customer Relationship Management (5) *
- MNGT 182 Creative Sales (5)
- MNGT 275 Introduction to Visual Promotion (5)
- MNGT 282 Principles of Marketing (5)
- MNGT 293 Retailing and Merchandising (5)

Select one:

- BTECA 115 Business English I (5) * †
- ENGL& 101 English Composition I (5) * †

Select one:

- BTECA 117 Business Mathematics (5)
- MATH& 146 Introduction to Statistics (5)

Total Credits Required 48

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

Program code: 245B

Last revision: 2017-18

Math Education (DTA/MRP)

The Associate in Math Education DTA/MRP is designed for students who want to become secondary math teachers. The courses offered within this focus meet the lower division requirements of Washington state four-year institutions. Students are encouraged to work closely with a faculty advisor in selecting, planning and completing educational goals, and should coordinate with the institution to which they intend to transfer.

Degree Outcomes

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 General Transferable Elective (GTE) credits, and 15 General Elective credits.
- ENGL& 101 English Composition I - required
- COLLG 110 College Success required during the first or second quarter of attendance
- Earn the lesser of (at least) 20 college level credits or 25% of the credits applicable to the degree or certificate 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 GTE courses is required unless stated otherwise
- "Pass" (P) grades, independent study and cooperative work experience/work-based learning credits may be used for general elective credits only
- Once a course has been successfully completed, credits earned may be used in only one category

Core Requirements

Communication Skills (10 Credits)

ENGL& 101 requires a 2.0 or higher grade. Second communications course requires a 1.5 or higher grade.

- ENGL& 101 English Composition I (5)

Select one:

- ENGL& 102 Composition II: Argumentation and Research (5)
- ENGL 107 Composition III: Writing About Literature (5)

Quantitative/Symbolic Reasoning Skills (5 Credits)

MATH& 151 requires a 1.5 or higher grade.

- MATH& 151 Calculus I (5)

Humanities (15 Credits)

Requires a 1.5 or higher grade. At least **two** disciplines. No more than **five** credits in world language and no more than **five** credits in performance/skills courses are allowed.

- CMST& 220 Public Speaking (5) required
- ART& 100 Art Appreciation (5)
- ART 105 Introduction to Art (5)
- ART 145 History of Art - Contemporary (5)
- ART 215 Art for Teachers (5)
- ART 243 History of Art – Ancient World Through the Middle Ages (5)
- ART 244 History of Art – Renaissance Through Rococo (5)
- ART 245 History of Art – The Modern World (5)
- ASL& 121 American Sign Language I (5)
- ASL& 122 American Sign Language II (5)
- ASL& 123 American Sign Language III (5)
- ASL& 221 American Sign Language IV (5)
- ASL& 222 American Sign Language V (5)
- ASL& 223 American Sign Language VI (5)
- CMST& 101 Introduction to Communications (5)
- CMST& 102 Introduction to Mass Media (5)
- CMST 105 Intercultural Communication (5)
- CMST& 230 Small Group Communication (5)
- DRMA& 101 Introduction to the Theatre (5)
- DRMA 160 Introduction 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 204 The Bible as Literature (5)
- ENGL 205 Introduction to Mythology (5)
- ENGL 207 Native American Literature (5)
- ENGL 210 Introduction to American Literature (5)
- ENGL 214 Screenwriting I (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& 235 Technical Writing (5)
- ENGL& 236 Creative Writing I (5)
- ENGL& 237 Creative Writing II (5)
- ENGL& 238 Creative Writing 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 249 Creative Writing: Special Projects (5)
- ENGL 264 Literature of U.S. Slavery and Abolition (5)
- ENGL 265 American Literature: Comedy, Humor and Satire (5)
- ENGL 266 Women Writers: Voices from the International Mosaic (5)

- FRCH& 121 French I (5)
- FRCH& 122 French II (5)
- FRCH& 123 French III (5)
- GERM& 121 German I (5)
- GERM& 122 German II (5)
- GERM& 123 German III (5)
- HUM& 101 Introduction 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 120 Introduction to Folklore (5)
- HUM 161 Western Thought and Culture I: The Classical World (5)
- HUM 162 Western Thought and Culture II: The Middle Ages (5)
- HUM 163 Western Thought and Culture III: Birth of the Modern World (5)
- HUM 164 Western Thought and Culture IV: The Modern World (5)
- HUM 204 American Popular Culture (5)
- HUM 209 The Civil Rights Movement: From the Ground Up (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 Japanese I (5)
- JAPN& 122 Japanese II (5)
- JAPN& 123 Japanese III (5)
- JOURN 103 Introduction to Feature Writing (1-5)
- JOURN 125 The Documentary: A Social Force (5)
- KREA& 121 Korean I (5)
- KREA& 122 Korean II (5)
- KREA& 123 Korean III (5)
- MUSC 100 Introduction to Rock & Roll (5)
- MUSC 102 American Popular Music (5)
- MUSC 103 Introduction to Jazz (5)
- MUSC& 105 Music Appreciation (5)
- MUSC 106 World Music (5)
- MUSC& 141 Music Theory I (5)
- MUSC& 142 Music Theory II (5)
- MUSC& 143 Music Theory III (5)
- MUSC& 241 Music Theory IV (5)
- MUSC& 242 Music Theory V (5)
- MUSC& 243 Music Theory VI (5)
- PHIL& 101 Introduction to Philosophy (5)
- PHIL 110 Introduction to Bioethics (5)
- PHIL& 115 Critical Thinking (5)
- PHIL 150 Introduction to Ethics (5)
- PHIL 210 Philosophy of Western Religion (5)
- PHIL 220 Introduction to Eastern Philosophy (5)
- PHIL 230 Contemporary Moral Problems (5)

- RUSS& 121 Russian I (5)
- RUSS& 122 Russian II (5)
- RUSS& 123 Russian III (5)
- SPAN& 121 Spanish I (5)
- SPAN& 122 Spanish II (5)
- SPAN& 123 Spanish III (5)
- SPAN& 221 Spanish IV (5)

Humanities Performance/Skills

- ART 101 Design, Beginning (5)
- ART 102 Design, Intermediate (5)
- ART 107 Photography, Beginning (5)
- ART 111 Drawing, Beginning (5)
- ART 112 Drawing, Intermediate (5)
- ART 113 Drawing, Advanced (5)
- ART 115 3-Dimensional Design (5)
- ART 150 Printmaking, Beginning (5)
- ART 201 Painting, Beginning (5)
- ART 202 Painting, Intermediate (5)
- ART 203 Painting, Advanced (5)
- ART 204 Watercolor, Beginning (5)
- ART 211 Beginning Sculpture (5)
- ART 260 Art in Motion: Real and Recorded (5)
- DRMA 170 Technical Film and Theatre I (5)
- DRMA 171 Technical Film and Theatre II (5)
- DRMA 172 Technical Film and Theatre III (5)
- DRMA 260 Acting for Stage and Digital Film I (5)
- DRMA 261 Acting for Stage and Digital Film II (5)
- DRMA 262 Acting for Stage and Digital Film III (5)
- DRMA 280 Production Practicum I (1-3)
- DRMA 281 Production Practicum II (1-3)
- DRMA 282 Production Practicum III (1-3)
- DRMA 283 Production Practicum IV (1-3)
- DRMA 284 Production Practicum V (1-3)
- DRMA 285 Production Practicum VI (1-3)
- MUSC 126 Beginning Class Guitar (1)
- MUSC 127 Intermediate Class Guitar (1)
- MUSC 144 Concert Choir (2)
- MUSC 147 Chamber Choir (2)
- MUSC 150 College Band (2)
- MUSC 154 College Orchestra (1)
- MUSC 157 Jazz Band (2)
- MUSC 160 Private Instruction: Arranging (1)
- MUSC 161 Private Instruction: Improvisation (1)
- MUSC 162 Private Instruction: Brass (1)
- MUSC 163 Private Instruction: Woodwind (1)

- MUSC 164 Private Instruction: Percussion (1)
- MUSC 165 Private Instruction: Voice (1)
- MUSC 166 Private Instruction: Orchestral Strings (1)
- MUSC 167 Private Instruction: Keyboard (1)
- MUSC 168 Private Instruction: Plectrum Strings (1)
- MUSC 170 Brass Ensemble (1)
- MUSC 171 Woodwind Ensemble (1)
- MUSC 172 Percussion Ensemble (1)
- MUSC 173 String Ensemble (1)
- MUSC 174 Vocal Ensemble (1)
- MUSC 181 Beginning Class Piano (1)
- MUSC 182 Intermediate Class Piano (1)
- MUSC 183 Advanced Class Piano (1)
- MUSC 244 Concert Choir (2)
- MUSC 247 Chamber Choir (2)
- MUSC 250 College Band (2)
- MUSC 254 College Orchestra (1)
- MUSC 257 Jazz Band (2)
- MUSC 260 Private Instruction: Arranging (1)
- MUSC 261 Private Instruction: Improvisation (1)
- MUSC 262 Private Instruction: Brass (1)
- MUSC 263 Private Instruction: Woodwind (1)
- MUSC 264 Private Instruction: Percussion (1)
- MUSC 265 Private Instruction: Voice (1)
- MUSC 266 Private Instruction: Orchestral Strings (1)
- MUSC 267 Private Instruction: Keyboard (1)
- MUSC 268 Private Instruction: Plectrum Strings (1)
- MUSC 270 Brass Ensemble (1)
- MUSC 271 Woodwind Ensemble (1)
- MUSC 272 Percussion Ensemble (1)
- MUSC 273 String Ensemble (1)
- MUSC 274 Vocal Ensemble (1)

Social Sciences (15 Credits)

Requires a 1.5 grade or higher. Credits selected must be from at least **two** disciplines. PSYC& 200 strongly recommended. At least one course in another area other than psychology. Select a multicultural elective by advisement.

- PSYC& 100 General Psychology (5) required
- ANTH& 100 Survey of Anthropology (5)
- ANTH& 104 World Prehistory (5)
- ANTH& 106 The American Mosaic (5)
- ANTH 107 Archaeology of Ancient Civilizations (5)
- ANTH& 204 Archaeology (5)
- ANTH& 205 Biological Anthropology (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 Introduction to Business (5)
- BUS& 201 Business Law (5)
- CJ& 105 Corrections in America (5)
- CJ 112 Criminal Justice in America (5)
- CJ 202 Concepts of Criminal Law (5)
- ECED& 105 Introduction to Early Childhood Education (5)
- ECED 335 Law and Ethics (3)
- ECON 110 Survey of Economics (5)
- ECON& 201 Microeconomics (5)
- ECON& 202 Macroeconomics (5)
- EDUC& 115 Child Development (5)
- GEOG 100 Introduction to Geography (5)
- GEOG 150 The Americas, Australia, Europe and New Zealand (5)
- GEOG 160 Africa, Middle East and Asia (5)
- GEOG 200 Human Geography (5)
- GEOG 207 Economic Geography (5)
- HIST& 126 World Civilizations I (5)
- HIST& 127 World Civilizations II (5)
- HIST& 128 World Civilizations III (5)
- HIST& 156 History of U. S. I (5)
- HIST& 157 History of U. S. II (5)
- HIST& 158 History of U.S. III (5)
- HIST& 159 History of U.S. IV (5)
- HIST 168 Vietnam War as History (5)
- HIST 175 A Brief History of Global Leadership (5)
- HIST& 214 Pacific Northwest History (5)
- HIST 260 History of Russia and the Soviet Union (5)
- HIST 265 History of Latin American Since 1810 (5)
- HIST 266 History of Europe Since 1870 (5)
- HIST 267 History of Africa Since 1800 (5)
- HIST 270 Introduction to the Far East (5)
- HIST 272 Survey of Middle East History (5)
- HIST 277 The Cold War (5)
- HIST 280 Introduction to Chinese Civilization (5)
- HIST 284 Introduction to the Balkans (5)
- HIST 287 History of Japan Since Antiquity (5)
- INTS 107 Introduction 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 in the Modern World (5)
- INTS 300 Social Studies for Teachers (5)
- POLS& 101 Introduction to 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& 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 Intro to Personality (5)
- SOC& 101 Introduction 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 235 Race and Ethnicity (5)

Natural Sciences (15 Credits)

Requires a 1.5 grade or higher. No more than **ten** credits allowed from any **one** discipline. At least **ten** credits in physical, biological and/or earth sciences (i.e., physics, chemistry, geology or biology). Must include **one** lab indicated by (L).

- MATH& 152 Calculus II (5) required
- ANTH& 205 Biological Anthropology (5)
- (L) ANTH& 236 Forensic Anthropology (5)
- ASTR& 100 Survey of Astronomy (5)
- (L) ASTR& 101 Introduction to Astronomy (5)
- (L) ASTR 105 Survey of Astrobiology (5)
- (L) ASTR& 110 The Solar System (5)
- (L) ASTR& 115 Stars, Galaxies and the Cosmos (5)
- (L) ATMOS 101 Introduction to Weather (5)
- (L) BIOL& 100 Survey of Biology (5)
- (L) BIOL& 160 General Biology w/Lab (5)
- (L) BIOL& 170 Human Biology: Anatomy & Physiology (5)
- (L) BIOL& 175 Human Biology w/Lab: Anatomy & Physiology (5)
- (L) BIOL& 211 Majors: Cellular (5)
- (L) BIOL& 212 Majors: Animals (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 with 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 General Chemistry with Lab I (5)
- (L) CHEM& 162 General Chemistry with Lab II (5)

- ① CHEM& 163 General Chemistry with Lab III (5)
- ① CHEM& 261 Organic Chemistry with Lab I (6)
- ① CHEM& 262 Organic Chemistry with Lab II (6)
- CHEM& 263 Organic Chemistry with Lab III (6)
- ENGR 101 Introduction to Engineering (5)
- ENV& 100 Survey of Environmental Science (5)
- ENV& 140 Western Water Problems (5)
- ENV& 150 Environmental Issues (5)
- ① ENV& 155 Applied Environmental Methods (5)
- GEOG 205 Physical Geography (5)
- ① GEOG 210 Physical Geography (5)
- ① GEOL& 101 Introduction to Physical Geology (5)
- ① GEOL& 103 Historical Geology (5)
- ① GEOL 107 Exploring Earth Science (5)
- ① GEOL& 110 Environmental Geology (5)
- ① GEOL& 115 Geology of National Parks (5)
- ① GEOL& 120 Volcanoes (5)
- ① GEOL& 208 Geology of Pacific Northwest (5)
- ① GEOL 220 Earth Resources and the Environment (5)
- ① GEOL 283 Regional Geology (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 Introduction to Statistics (5)
- MATH 147 Business Precalculus (5)
- MATH& 148 Business Calculus (5)
- MATH& 151 Calculus I (5)

Additional Math Requirements (15-20 Credits)

Requires a 1.5 grade or higher.

- MATH& 153 Calculus III (5)
- MATH 205 Linear Algebra (5)
- MATH 224 Multivariate Calculus (5)
- MATH 238 Differential Equations (5) (recommended)

Education Requirements (8-10 Credits)

- EDUC 190 Education Practicum (3-5)
- EDUC& 202 Introduction to Education (5)

General Electives (10 Credits)

Minimum grade of 1.0 is required. 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. A maximum of three physical activity (PE) credits can be applied to this degree.

- COLLG 110 College Success (3) required with a 2.0 or higher grade

Total Credits Required 93-100

Notes

- Students completing this degree will receive the same priority consideration for admission to the baccalaureate institution as they would by completing the direct transfer associate degree and will be given junior status by the receiving institution.
- 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.
- Students should be advised that some baccalaureate institutions require physics with calculus to meet specific pre-major science category.
- Students are responsible for checking specific major requirements of baccalaureate institutions in the year prior to transferring.

Program Code: EDMT

Mathematics Major

Mathematics Major

This planning sheet lists only the courses related to the mathematics major. Students planning to transfer as mathematics majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. Mathematics majors should work closely with a faculty advisor to plan an overall program of study.

The following courses should be taken:

- 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)

Note:

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.

Medical Billing and Coding Associate

For students wishing to complete an Associate degree, the Medical Billing and Coding Associate prepares students for employment as medical billers, patient account representatives, medical claims reviewers, medical office administrators, and other medical support positions. 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. Students are also prepared to sit for national certification upon completion of this degree. As this degree prepares students to return to the workforce, students who intend to transfer to a four-year institution should work closely with an advisor and complete AA-DTA requirements.

BTECA/BTECM Requirements (57 Credits)

- COLLG 110 College Success (3)
- BTECA 102 Keyboard Skill Development: Alpha and Technical Improvement (1)
- BTECA 103 Keyboard Skill Development: Alphanumeric and Technical Improvement (1)
- BTECA 136 Ten-Key Mastery (1)
- BTECA 145 Records and Database Management (5)
- BTECM 149 Introduction to the Medical Office (5)
- BTECM 150 Medical Terminology I (5)
- BTECM 151 Medical Terminology II (5)
- BTECA 245 Cooperative Work Experience I (3)
- BTECA 246 Cooperative Work Experience II (3)
- BTECM 250 Medical Forms and Referral Management (5)
- BTECM 254 CPT Coding (5)
- BTECM 256 Advanced Billing and Coding (5)
- BTECM 255 Diagnosis Coding (5)
- BTECM 257 Electronic Health Records (5)

Select 10 credits from the following:

- BTECA 109 Introduction to Windows (3)
- BTECA 110 Microsoft Word: Prepare and Edit Documents (1)
- BTECA 111 Microsoft Word: Enhance and Customize Documents (1)
- BTECA 112 Microsoft Word: Create Tables and Merge Documents (1)
- BTECA 121 Microsoft Excel: Prepare Format Basic Worksheets (1)
- BTECA 122 Microsoft Excel: Insert Formulas and Enhancements (1)
- BTECA 123 Microsoft Excel: Create Charts and Diagrams (1)
- BTECA 130 Microsoft PowerPoint: Create and Modify a Powerpoint Presentation (1)
- BTECA 131 Microsoft PowerPoint: Format and Add Visual Element (1)
- BTECA 132 Microsoft PowerPoint: Customize and Share a Presentation (1)
- BTECA 140 Microsoft Access: Create and Modify a Database (1)
- BTECA 141 Microsoft Access: Create and Queries and Forms (1)
- BTECA 142 Microsoft Access: Create Reports, Charts and Web Pages (1)
- BTECA 150 Microsoft Outlook: Using E-Mail and the Calendar (1)

- BTECA 151 Microsoft Outlook: Managing Tasks, Contacts and Inbox (1)
- BTECA 152 Microsoft Outlook: Customizing and Integrating Outlook (1)

General Requirements (28 Credits)

- BTECA 115 Business English I (5) *
- BTECA 116 Business English II (3) *
- BTECA 117 Business Mathematics (5) *
- MNGT 130 Customer Relationship Management (5) *
- MNGT 186 Professional Development (5)

Select one:

- BIOL& 170 Human Biology: Anatomy & Physiology (5)
- BIOL& 175 Human Biology w/Lab: Anatomy & Physiology (5)

Total Credits Required 95

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

Program code: 565A

Last revision: 2017-18

Medical Billing and Coding Certificate

Students in the program learn diagnosis and procedural coding and prepare for employment as medical billers, patient account representatives, medical claims reviewers, and a variety of other medical support positions. 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 or Medical Billing and Coding Associate degrees. Students who intend to transfer to a four-year institution should work closely with an advisor and complete AA-DTA requirements.

BTECA/BTECM Requirements (56 Credits)

- COLLG 110 College Success (3)
- BTECA 102 Keyboard Skill Development: Alpha and Technical Improvement (1)
- BTECA 103 Keyboard Skill Development: Alphanumeric and Technical Improvement (1)
- BTECA 104 Keyboard Skill Development: Alphanumeric Improvement (1)
- BTECA 105 Keyboard Skill Development: Further Alphanumeric Improvement (1)

- BTECA 136 Ten-Key Mastery (1)
- BTECA 145 Records and Database Management (5)
- BTECM 149 Introduction to the Medical Office (5)
- BTECM 150 Medical Terminology I (5)
- BTECM 151 Medical Terminology II (5)
- BTECA 245 Cooperative Work Experience I (3)
- BTECM 250 Medical Forms and Referral Management (5)
- BTECM 254 CPT Coding (5)
- BTECM 255 Diagnosis Coding (5)
- BTECM 257 Electronic Health Records (5)

Select 5 credits from the following:

- BTECA 109 Introduction to Windows (3)
- BTECA 110 Microsoft Word: Prepare and Edit Documents (1)
- BTECA 111 Microsoft Word: Enhance and Customize Documents (1)
- BTECA 112 Microsoft Word: Create Tables and Merge Documents (1)
- BTECA 121 Microsoft Excel: Prepare Format Basic Worksheets (1)
- BTECA 122 Microsoft Excel: Insert Formulas and Enhancements (1)
- BTECA 123 Microsoft Excel: Create Charts and Diagrams (1)
- BTECA 130 Microsoft PowerPoint: Create and Modify a Powerpoint Presentation (1)
- BTECA 131 Microsoft PowerPoint: Format and Add Visual Element (1)
- BTECA 132 Microsoft PowerPoint: Customize and Share a Presentation (1)
- BTECA 140 Microsoft Access: Create and Modify a Database (1)
- BTECA 141 Microsoft Access: Create and Queries and Forms (1)
- BTECA 142 Microsoft Access: Create Reports, Charts and Web Pages (1)
- BTECA 150 Microsoft Outlook: Using E-Mail and the Calendar (1)
- BTECA 151 Microsoft Outlook: Managing Tasks, Contacts and Inbox (1)
- BTECA 152 Microsoft Outlook: Customizing and Integrating Outlook (1)

General Requirements (15 Credits)

- BTECA 115 Business English I (5) *
- BTECA 117 Business Mathematics (5) *

Select one:

- BIOL& 170 Human Biology: Anatomy & Physiology (5)
- BIOL& 175 Human Biology w/Lab: Anatomy & Physiology (5)

Total Credits Required 73

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

Program Code: 565B

Last revision: 2017-18

Medical Office Assistant 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 (50-51 Credits)

- COLLG 110 College Success (3)
- BTECA 102 Keyboard Skill Development: Alpha and Technical Improvement (1)
- BTECA 103 Keyboard Skill Development: Alphanumeric and Technical Improvement (1)
- BTECA 104 Keyboard Skill Development: Alphanumeric Improvement (1)
- BTECA 105 Keyboard Skill Development: Further Alphanumeric Improvement (1)
- BTECA 136 Ten-Key Mastery (1)
- BTECA 145 Records and Database Management (5)
- BTECM 149 Introduction to the Medical Office (5)
- BTECM 150 Medical Terminology I (5)
- BTECA 245 Cooperative Work Experience I (3)
- BTECM 250 Medical Forms and Referral Management (5)
- BTECM 257 Electronic Health Records (5)

Select both:

- BTECA 248 Business Information Technology Seminar I (2)
- BTECA 249 Business Information Technology Seminar II (2)

or select:

- MNGT 186 Professional Development (5)

Select 10 credits from the following:

- BTECA 110 Microsoft Word: Prepare and Edit Documents (1)

- BTECA 111 Microsoft Word: Enhance and Customize Documents (1)
- BTECA 112 Microsoft Word: Create Tables and Merge Documents (1)
- BTECA 121 Microsoft Excel: Prepare Format Basic Worksheets (1)
- BTECA 122 Microsoft Excel: Insert Formulas and Enhancements (1)
- BTECA 123 Microsoft Excel: Create Charts and Diagrams (1)
- BTECA 140 Microsoft Access: Create and Modify a Database (1)
- BTECA 141 Microsoft Access: Create and Queries and Forms (1)
- BTECA 142 Microsoft Access: Create Reports, Charts and Web Pages (1)
- BTECA 130 Microsoft PowerPoint: Create and Modify a Powerpoint Presentation (1)
- BTECA 131 Microsoft PowerPoint: Format and Add Visual Element (1)
- BTECA 132 Microsoft PowerPoint: Customize and Share a Presentation (1)
- BTECA 150 Microsoft Outlook: Using E-Mail and the Calendar (1)
- BTECA 151 Microsoft Outlook: Managing Tasks, Contacts and Inbox (1)
- BTECA 152 Microsoft Outlook: Customizing and Integrating Outlook (1)

General Requirements (23 Credits)

- BTECA 115 Business English I (5) *
- BTECA 116 Business English II (3) *
- BTECA 117 Business Mathematics (5) *
- BUS 240 Human Relations in the Workplace (5) *
- MNGT 130 Customer Relationship Management (5) *

Total Credits Required 73-74

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

Program code: 312C

Last revision: 2017-18

Music (DTA/MRP)

Pierce College's Music Department offers a transfer degree for students wishing to complete the first two years of study leading to a baccalaureate degree. As part of the Associate in Music DTA/MRP student take two years of music theory and ear training, one year of keyboard instruction, and quarterly lessons and participation in ensembles. The cornerstone of our Music Department is our vocal and instrumental performing groups, including Concert Choir, Chamber Choir, Concert Band and Orchestra. Throughout the year, these groups perform in a variety of settings, from our quarterly concerts on campus to various events in the community and tours.

Degree Outcomes

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 General Transferable Elective (GTE) credits, and 15 General Elective credits.
- ENGL& 101 English Composition I - required
- COLLG 110 College Success required during the first or second quarter of attendance
- Earn the lesser of (at least) 20 college level credits or 25% of the credits applicable to the degree or certificate 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 GTE courses is required unless stated otherwise
- "Pass" (P) grades, independent study and cooperative work experience/work-based learning credits may be used for general elective credits only
- Once a course has been successfully completed, credits earned may be used in only one category

Core Requirements

Communication Skills (10 Credits)

ENGL& 101 requires a 2.0 or higher grade. Second communications course requires a 1.5 or higher grade.

- ENGL& 101 English Composition I (5) required

Select one:

- ENGL& 102 Composition II: Argumentation and Research (5)
- ENGL 107 Composition III: Writing About Literature (5)
- ENGL& 235 Technical Writing (5)
- JOURN 102 Introduction to News Writing (5)

Quantitative/Symbolic Reasoning Skills (5 Credits)

Requires 1.5 or higher grade. **PREREQ:** - Intermediate Algebra with 2.0 or higher or equivalent coursework, or appropriate assessment scores.

- 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 Introduction to Statistics (5)
- MATH 147 Business Precalculus (5)
- MATH& 148 Business Calculus (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)
- PHIL& 120 Symbolic Logic (5)

Humanities (15 Credits)

Requires a 1.5 grade or higher. Select from **two** disciplines. **Ten** quarter credits of Music Theory and **five** quarter credits from a different discipline. No more than **five** credits are allowed in world language.

- MUSC& 141 Music Theory I (5) required
- MUSC& 142 Music Theory II (5) required
- ART& 100 Art Appreciation (5)
- ART 105 Introduction to Art (5)
- ART 145 History of Art - Contemporary (5)
- ART 215 Art for Teachers (5)
- ART 243 History of Art – Ancient World Through the Middle Ages (5)
- ART 244 History of Art – Renaissance Through Rococo (5)
- ART 245 History of Art – The Modern World (5)
- ASL& 121 American Sign Language I (5)
- ASL& 122 American Sign Language II (5)
- ASL& 123 American Sign Language III (5)
- ASL& 221 American Sign Language IV (5)
- ASL& 222 American Sign Language V (5)
- ASL& 223 American Sign Language VI (5)
- CMST& 101 Introduction to Communications (5)
- CMST& 102 Introduction to Mass Media (5)
- CMST 105 Intercultural Communication (5)
- CMST& 220 Public Speaking (5)
- CMST& 230 Small Group Communication (5)
- DRMA& 101 Introduction to the Theatre (5)
- DRMA 160 Introduction 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 204 The Bible as Literature (5)
- ENGL 205 Introduction to Mythology (5)
- ENGL 207 Native American Literature (5)
- ENGL 210 Introduction to American Literature (5)
- ENGL 214 Screenwriting I (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& 236 Creative Writing I (5)

- ENGL& 237 Creative Writing II (5)
- ENGL& 238 Creative Writing 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 249 Creative Writing: Special Projects (5)
- ENGL 264 Literature of U.S. Slavery and Abolition (5)
- ENGL 265 American Literature: Comedy, Humor and Satire (5)
- ENGL 266 Women Writers: Voices from the International Mosaic (5)
- FRCH& 121 French I (5)
- FRCH& 122 French II (5)
- FRCH& 123 French III (5)
- GERM& 121 German I (5)
- GERM& 122 German II (5)
- GERM& 123 German III (5)
- HUM& 101 Introduction 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 120 Introduction to Folklore (5)
- HUM 161 Western Thought and Culture I: The Classical World (5)
- HUM 162 Western Thought and Culture II: The Middle Ages (5)
- HUM 163 Western Thought and Culture III: Birth of the Modern World (5)
- HUM 164 Western Thought and Culture IV: The Modern World (5)
- JAPN& 121 Japanese I (5)
- JAPN& 122 Japanese II (5)
- JAPN& 123 Japanese III (5)
- JOURN 103 Introduction to Feature Writing (1-5)
- JOURN 125 The Documentary: A Social Force (5)
- KREA& 121 Korean I (5)
- KREA& 122 Korean II (5)
- KREA& 123 Korean III (5)
- PHIL& 101 Introduction to Philosophy (5)
- PHIL 110 Introduction to Bioethics (5)
- PHIL& 115 Critical Thinking (5)
- PHIL 150 Introduction to Ethics (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 Russian I (5)
- RUSS& 122 Russian II (5)
- RUSS& 123 Russian III (5)
- SPAN& 121 Spanish I (5)
- SPAN& 122 Spanish II (5)
- SPAN& 123 Spanish III (5)

- SPAN& 221 Spanish IV (5)

Social Sciences (15 Credits)

Requires a 1.5 grade or higher. Select from **two** disciplines.

- ANTH& 100 Survey of Anthropology (5)
- ANTH& 104 World Prehistory (5)
- ANTH& 106 The 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 Introduction to Business (5)
- BUS& 201 Business Law (5)
- CJ& 105 Corrections in America (5)
- CJ 112 Criminal Justice in America (5)
- CJ 202 Concepts of Criminal Law (5)
- ECED& 105 Introduction to Early Childhood Education (5)
- ECED 335 Law and Ethics (3)
- ECED& 355 Social and Political Context of Early Childhood Education (3)
- ECON 110 Survey of Economics (5)
- ECON& 201 Microeconomics (5)
- ECON& 202 Macroeconomics (5)
- EDUC& 115 Child Development (5)
- GEOG 100 Introduction to Geography (5)
- GEOG 150 The Americas, Australia, Europe and New Zealand (5)
- GEOG 160 Africa, Middle East and Asia (5)
- GEOG 200 Human Geography (5)
- GEOG 207 Economic Geography (5)
- HIST& 126 World Civilizations I (5)
- HIST& 127 World Civilizations II (5)
- HIST& 128 World Civilizations III (5)
- HIST& 156 History of U. S. I (5)
- HIST& 157 History of U. S. II (5)
- HIST& 158 History of U.S. III (5)
- HIST& 159 History of U.S. IV (5)
- HIST 168 Vietnam War as History (5)
- HIST 175 A Brief History of Global Leadership (5)
- HIST& 214 Pacific Northwest History (5)
- HIST 260 History of Russia and the Soviet Union (5)
- HIST 265 History of Latin American Since 1810 (5)
- HIST 266 History of Europe Since 1870 (5)
- HIST 267 History of Africa Since 1800 (5)
- HIST 270 Introduction to the Far East (5)

- HIST 272 Survey of Middle East History (5)
- HIST 277 The Cold War (5)
- HIST 280 Introduction to Chinese Civilization (5)
- HIST 284 Introduction to the Balkans (5)
- HIST 287 History of Japan Since Antiquity (5)
- INTS 107 Introduction 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 in the Modern World (5)
- INTS 300 Social Studies for Teachers (5)
- POLS& 101 Introduction to 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 Intro to Personality (5)
- SOC& 101 Introduction 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 235 Race and Ethnicity (5)

Natural Sciences (15 Credits)

Requires a 1.5 grade or higher. Select from two disciplines. Must include one lab indicate by an ①.

- ANTH& 205 Biological Anthropology (5)
- ① ANTH& 236 Forensic Anthropology (5)
- ASTR& 100 Survey of Astronomy (5)
- ① ASTR& 101 Introduction to Astronomy (5)
- ① ASTR 105 Survey of Astrobiology (5)
- ① ASTR& 110 The Solar System (5)
- ① ASTR& 115 Stars, Galaxies and the Cosmos (5)
- ① ATMOS 101 Introduction to Weather (5)
- ① BIOL& 100 Survey of Biology (5)
- ① BIOL& 160 General Biology w/Lab (5)
- BIOL& 170 Human Biology: Anatomy & Physiology (5)
- ① BIOL& 175 Human Biology w/Lab: Anatomy & Physiology (5)

- ① BIOL& 211 Majors: Cellular (5)
- ① BIOL& 212 Majors: Animals (5)
- ① BIOL& 213 Majors: Plant (5)
- ① BIOL& 241 Human Anatomy and Physiology 1 (6)
- ① BIOL& 242 Human Anatomy and Physiology 2 (6)
- ① BIOL& 260 Microbiology (5)
- CHEM& 100 Preparatory Chemistry (5)
- ① CHEM& 110 Chemical Concepts with Lab (5)
- ① CHEM& 121 Intro to Chemistry (5)
- ① CHEM& 131 Intro to Organic/Biochemistry (6)
- CHEM& 139 General Chemistry Prep (5)
- ① CHEM& 161 General Chemistry with Lab I (5)
- ① CHEM& 162 General Chemistry with Lab II (5)
- ① CHEM& 163 General Chemistry with Lab III (5)
- ① CHEM& 261 Organic Chemistry with Lab I (6)
- ① CHEM& 262 Organic Chemistry with Lab II (6)
- ① CHEM& 263 Organic Chemistry with Lab III (6)
- ENGR 101 Introduction to Engineering (5)
- ENVS& 100 Survey of Environmental Science (5)
- ENVS 140 Western Water Problems (5)
- ENVS 150 Environmental Issues (5)
- ① ENVS 155 Applied Environmental Methods (5)
- GEOG 205 Physical Geography (5)
- ① GEOG 210 Physical Geography (5)
- ① GEOL& 101 Introduction to Physical Geology (5)
- ① GEOL& 103 Historical Geology (5)
- ① GEOL 107 Exploring Earth Science (5)
- ① GEOL& 110 Environmental Geology (5)
- ① GEOL& 115 Geology of National Parks (5)
- ① GEOL& 120 Volcanoes (5)
- ① GEOL& 208 Geology of Pacific Northwest (5)
- ① GEOL 220 Earth Resources and the Environment (5)
- ① GEOL 283 Regional Geology (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 Introduction to Statistics (5)
- MATH 147 Business Precalculus (5)
- MATH& 148 Business Calculus (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)

- ① NSCI 150 Nature (5)
- ① NSCI 160 Environmental Biology (5)
- NSCI 300 Inquiry Based Science for Teachers (5)
- NUTR& 101 Nutrition (5)
- ① OCEA& 101 Introduction to Oceanography (5)
- ① OCEA 170 Marine Biology (5)
- PHIL& 120 Symbolic Logic (5)
- ① PHYS& 110 Physics for Non-Science Majors (5)
- ① PHYS& 114 General Physics I (5)
- ① PHYS& 115 General Physics II (5)
- ① PHYS& 116 General Physics III (5)
- ① PHYS& 221 Engineering Physics I (6)
- ① PHYS& 222 Engineering Physics II (6)
- ① PHYS& 223 Engineering Physics III (6)
- ① PS 101 Introduction to Physical Science (5)

General Transferable Electives (20 Credits)

Requires a 1.5 grade or higher.

- MUSC& 143 Music Theory III (5)
- MUSC& 241 Music Theory IV (5)
- MUSC& 242 Music Theory V (5)
- MUSC& 243 Music Theory VI (5)

General Electives (24 Credits)

For ensemble, private lessons, keyboard/piano a minimum grade of 1.5 is required.

12 credits of ensemble required

- MUSC 144 Concert Choir (2)
 - MUSC 147 Chamber Choir (2)
- 6 credits private lessons required
- MUSC 160 Private Instruction: Arranging (1)
 - MUSC 161 Private Instruction: Improvisation (1)
 - MUSC 162 Private Instruction: Brass (1)
 - MUSC 163 Private Instruction: Woodwind (1)
 - MUSC 164 Private Instruction: Percussion (1)
 - MUSC 165 Private Instruction: Voice (1)
 - MUSC 166 Private Instruction: Orchestral Strings (1)
 - MUSC 167 Private Instruction: Keyboard (1)
 - MUSC 168 Private Instruction: Plectrum Strings (1)
- 3 credits keyboard/piano required
- MUSC 181 Beginning Class Piano (1)
 - MUSC 182 Intermediate Class Piano (1)
 - MUSC 183 Advanced Class Piano (1)

- COLLG 110 College Success (3) Required with a 2.0 or higher grade

Total Credits Required 104

Program code: AAFP

Music Major

Music Major

This planning sheet lists only the courses related to the music major. Students planning to transfer as music majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. Music majors should work closely with a faculty advisor to plan an overall program of study.

The following courses should be taken:

- MUSC& 141 Music Theory I (5)
- MUSC& 142 Music Theory II (5)
- MUSC& 143 Music Theory III (5)
- MUSC 181 Beginning Class Piano (1)
- MUSC 182 Intermediate Class Piano (1)
- MUSC 183 Advanced Class Piano (1)
- MUSC& 241 Music Theory IV (5)
- MUSC& 242 Music Theory V (5)
- MUSC& 243 Music Theory VI (5)

Recommended Courses

- MUSC 144 Concert Choir (2)
- MUSC 244 Concert Choir (2)
- MUSC 150 College Band (2)
- MUSC 250 College Band (2)
- MUSC 154 College Orchestra (1)
- MUSC 254 College Orchestra (1)
- MUSC 157 Jazz Band (2)
- MUSC 257 Jazz Band (2)
- MUSC 160 Private Instruction: Arranging (1)
- MUSC 161 Private Instruction: Improvisation (1)
- MUSC 162 Private Instruction: Brass (1)
- MUSC 163 Private Instruction: Woodwind (1)
- MUSC 164 Private Instruction: Percussion (1)

- MUSC 165 Private Instruction: Voice (1)
- MUSC 166 Private Instruction: Orchestral Strings (1)
- MUSC 167 Private Instruction: Keyboard (1)
- MUSC 168 Private Instruction: Plectrum Strings (1)
- MUSC 260 Private Instruction: Arranging (1)
- MUSC 261 Private Instruction: Improvisation (1)
- MUSC 262 Private Instruction: Brass (1)
- MUSC 263 Private Instruction: Woodwind (1)
- MUSC 264 Private Instruction: Percussion (1)
- MUSC 265 Private Instruction: Voice (1)
- MUSC 266 Private Instruction: Orchestral Strings (1)
- MUSC 267 Private Instruction: Keyboard (1)
- MUSC 268 Private Instruction: Plectrum Strings (1)

Nursing (ADN) (PY Only)

REQUIREMENTS FOR ADMISSION

Applicants must meet general entrance requirements for Pierce College as well as the specific pre-nursing course requirements. Prerequisite courses typically take one to two years depending on the number of credits taken per quarter. Some nursing prerequisite courses may have prerequisites. 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 early spring 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, essays which are scored according to a faculty established rubric.

Prospective students who have proof of unencumbered Washington State LPN license or Certificate of Completion from a Washington State approved practical nurse training program may apply on a space available basis to enter the program in the fourth quarter of the program. This LPN-RN bridge program is limited in space and the student must take assessment tests and a specific LPN-RN bridge course at Pierce College. Please see the nursing advisor for more information.

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 or St. Martins University 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.

Prerequisites - Minimum Qualifications

The following must be completed with a grade of 3.0 (B) or higher and be completed within the last seven years of the date of the student's application.

All courses have pre-requisites that cannot be waived. Please work closely with a pre-nursing advisor.

- 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)
- ENGL& 101 English Composition I (5) *
- PSYC& 200 Lifespan Psychology (5) *

Pierce College Requirement beginning summer 2015:

For all students beginning college courses and pre-nursing prerequisites at Pierce College, COLLG 110 College Success must be taken within the first two quarters of starting coursework at Pierce College. You may be exempt from this requirement. Check with your advisor for the latest information.

Transfer-Ready Requirements

Must be completed with a grade of 2.0 (C) or higher:

- MATH& 146 Introduction to Statistics (5)
- World Language 121 and 122 (10) **
- ASL& 121 American Sign Language I (5)
- ASL& 122 American Sign Language II (5)
- FRCH& 121 French I (5)
- FRCH& 122 French II (5)
- GERM& 121 German I (5)
- GERM& 122 German II (5)
- JAPN& 121 Japanese I (5)
- JAPN& 122 Japanese II (5)
- KREA& 121 Korean I (5)
- KREA& 122 Korean II (5)
- RUSS& 121 Russian I (5)
- RUSS& 122 Russian II (5)
- SPAN& 121 Spanish I (5)
- SPAN& 122 Spanish II (5)

Recommended Coursework

Must be completed with a grade of 2.0 (C) or higher:

- CHEM& 131 Intro to Organic/Biochemistry (6)

Note:

* The 10-year limitation on ENGL& 101 and PSYC& 200 may be waived if the course was completed as part of a degree from an accredited institution of higher learning.

** No time limit on the World Language requirement. Two years of the same high school world language will also satisfy this requirement. Native speakers can satisfy this requirement following UW guidelines. See a Nursing advisor for details.

First Year (37 Credits)

Quarter I (11 Credits)

- HSCI 114 Therapeutic Communication in Healthcare Settings (3)
- NURS 111 Fundamentals of Nursing Practice (3)
- NURS 112 Fundamentals of Nursing Clinical Practice (3)
- HSCI 116 Pharmacology for Allied Health I (2)

Quarter II (12 Credits)

- NURS 121 Introduction to Medical-Surgical/Psychiatric Nursing (4)
- NURS 122 Introduction to Nursing Clinical Practice (5)
- NURS 125 Family Nursing (3)

Quarter III (14 Credits)

- HSCI 117 Pharmacology for Allied Health II (2)
- NURS 130 Intermediate Medical-Surgical/Psychiatric Nursing (6)
- NURS 132 Intermediate Nursing Clinical Practice (6)

Total Credits (Quarters I, II, III) 37

Second Year (39 Credits)

Quarter IV (13 Credits - ADN Students (17 Credits-Bridge)

- NURS 210 Advanced Topics in Nursing (4)
- NURS 211 Advanced Nursing Clinical Practice (6)
- NURS 214 Advanced Concepts in Family Centered Nursing Care (3)
- NURS 218 Associate Degree Nursing Articulation Seminar (2) (Bridge only)

Quarter V (14 Credits)

- NURS 222 Professional Nursing Clinical Practice (5)
- NURS 223 Advanced Psychiatric Nursing (3)
- NURS 224 Professional Role Transition (3)
- NURS 230 Advanced Topics in Nursing II (3)

Quarter VI (12 Credits)

- HSCI 235 Issues and Trends in Health Care Management (4)
- NURS 233 Acute Care Nursing Practicum (8)

Total Credits (Quarters IV, V, VI) 39

Total Credits (Quarters I-VI) 76

includes theory, lab, preceptorship and service-connected learning

Total Credits including prerequisites 129

Each ADN course must be completed with a minimum grade of 2.7 and all courses must be completed in the designated quarter.

Program code: 323

Last revision: 2016-17

Nursing Assistant Certified

Contact: Ronda Durano, MN, RN

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. The first part of the NAC coursework consists of nursing assistant theory and skills lab. Upon successful completion of these two courses, student progress to the clinical portion of the program where they practice knowledge and skills learning in a long-term care setting with patients. Student must successfully complete a background check prior to the beginning of the courses. The three courses prepare the student to take the written and skills portion of the Nursing Assistant exam. Successful completion of the exam enables the person to be employed as a Certified Nursing Assistant or Nursing Assistant Certified.

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.

Prerequisite: Students need to score a minimum of 85 on the college reading assessment test.

The Nursing Assistant Certified is part of the Pierce College Integrated Basic Education and Skills Training (I-BEST) and is open to all Pierce College Adult Diploma (PCAD), Adult Basic Education (ABE), General Education Development (GED), English as a Second Language (ESL), and pre-college level adult learners. I-BEST programs provide high 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, Business Information 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

NAC Program Requirements

The NAC program is one quarter in length and is 12 credits. All skills necessary will be taught and practiced in the skills lab course. Evening hours are available for additional skills practice.

- NAC 101 Nursing Assistant Theory (7)
- NAC 105 Nursing Assistant Lab (3)
- NAC 107 Nursing Assistant Clinical (2)

Total Credits Required 12

Student Learning Outcomes available at www.pierce.ctc.edu/nursing-nac

Program code: 329P

Last revision: 2016-17

Occupational Safety and Health Technician (AAS-T)

General 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 Introduction to Statistics (5)

Humanities, Social Science and Science (20 Credits)

- BIOL& 170 Human Biology: Anatomy & Physiology (5)
- CHEM& 110 Chemical Concepts with Lab (5)
- PSYC& 100 General Psychology (5)

Select one:

- CMST& 101 Introduction to Communications (5)
- CMST& 220 Public Speaking (5)

Computer Requirement (5 Credits)

- CIS 130 Productivity Software (5)

Management and Career Skills (13 Credits)

- BUS 240 Human Relations in the Workplace (5)
- BUS 260 Project Management I: Planning (5)
- OSH 291 OSH Internship (3)

Safety and Health Requirements (42 Credits)

- CONST 250 Construction Safety and Accident Prevention (3)
- OSH 100 Introduction to Occupational Safety and Health (5)
- OSH 110 Safety Management (5)
- OSH 140 Regulatory Environment (3)
- OSH 150 Workers Compensation & 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 (4)
- HSCI 228 CPR for the Professional Rescuer, with First Aid and Blood Borne Pathogens (2)

Additional Safety and Health Requirements (4-7 Credits)

- BUS 261 Project Management II: Managing (5)
- COLLG 110 College Success (3) required
- OSH 155 Special Topics in OSH - I (2)
- OSH 255 Special Topics in OSH II (1-3)
- CONST 140 Construction Drawings: Print Reading (5)
- CONST 160 Materials and Methods (5)
- HSEM 102 Introduction to Emergency Management (5)
- HSEM 120 All Hazards Emergency Planning (3)

Total Credits Required 99-102

Program code: 844

Last revision: 2016-17

Oceanography Major

Oceanography Major - General Emphasis

This planning sheet lists only the courses related to the oceanography major. Students planning to transfer as oceanography majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students can also follow the Associate of Science (AS-T) Degree Track 1. Students should check with the transfer institution regarding specific requirements and transferable credits. Oceanography majors should work closely with a faculty advisor to plan an overall program of study.

- ATMOS 101 Introduction to Weather (5)
- BIOL& 160 General Biology w/Lab (5)
- CHEM& 161 General Chemistry with Lab I (5)
- CHEM& 162 General Chemistry with Lab II (5)
- CHEM& 163 General Chemistry with Lab III (5)
- GEOL& 101 Introduction to Physical Geology (5)
- MATH& 146 Introduction to Statistics (5)
- OCEA& 101 Introduction to Oceanography (5)
- OCEA 170 Marine Biology (5)

Recommended math/physics sequence:

- MATH& 141 Precalculus I (5)

- MATH& 142 Precalculus II (5)
- MATH& 151 Calculus I (5)
- MATH& 152 Calculus II (5)
- MATH& 153 Calculus III (5)
- PHYS& 221 Engineering Physics I (6)
- PHYS& 222 Engineering Physics II (6)
- PHYS& 223 Engineering Physics III (6)

Oceanography Major - Biology Emphasis

- BIOL& 211 Majors: Cellular (5)
- BIOL& 212 Majors: Animals (5)
- BIOL& 213 Majors: Plant (5)
- CHEM& 161 General Chemistry with Lab I (5)
- CHEM& 162 General Chemistry with Lab II (5)
- CHEM& 163 General Chemistry with Lab III (5)
- OCEA& 101 Introduction to Oceanography (5)
- OCEA 170 Marine Biology (5)

Recommended math/physics sequence:

- MATH& 151 Calculus I (5)
- MATH& 141 Precalculus I (5)
- MATH& 142 Precalculus II (5)
- PHYS& 114 General Physics I (5)
- PHYS& 115 General Physics II (5)
- PHYS& 116 General Physics III (5)

Office Assistant 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.

BTECA Requirements (29-30 Credits)

- COLLG 110 College Success (3)
- BTECA 102 Keyboard Skill Development: Alpha and Technical Improvement (1)
- BTECA 103 Keyboard Skill Development: Alphanumeric and Technical Improvement (1)
- BTECA 104 Keyboard Skill Development: Alphanumeric Improvement (1)
- BTECA 105 Keyboard Skill Development: Further Alphanumeric Improvement (1)
- BTECA 136 Ten-Key Mastery (1)
- BTECA 145 Records and Database Management (5)
- BTECA 160 Business Document Formatting: Basic (1)
- BTECA 245 Cooperative Work Experience I (3)

Select both:

- BTECA 248 Business Information Technology Seminar I (2)
- BTECA 249 Business Information Technology Seminar II (2)

or select:

- MNGT 186 Professional Development (5)

Select 8 credits from the following:

- BTECA 109 Introduction to Windows (3)
- BTECA 110 Microsoft Word: Prepare and Edit Documents (1)
- BTECA 111 Microsoft Word: Enhance and Customize Documents (1)
- BTECA 112 Microsoft Word: Create Tables and Merge Documents (1)
- BTECA 121 Microsoft Excel: Prepare Format Basic Worksheets (1)
- BTECA 122 Microsoft Excel: Insert Formulas and Enhancements (1)
- BTECA 123 Microsoft Excel: Create Charts and Diagrams (1)
- BTECA 130 Microsoft PowerPoint: Create and Modify a Powerpoint Presentation (1)
- BTECA 131 Microsoft PowerPoint: Format and Add Visual Element (1)
- BTECA 132 Microsoft PowerPoint: Customize and Share a Presentation (1)
- BTECA 140 Microsoft Access: Create and Modify a Database (1)
- BTECA 141 Microsoft Access: Create and Queries and Forms (1)
- BTECA 142 Microsoft Access: Create Reports, Charts and Web Pages (1)
- BTECA 150 Microsoft Outlook: Using E-Mail and the Calendar (1)
- BTECA 151 Microsoft Outlook: Managing Tasks, Contacts and Inbox (1)
- BTECA 152 Microsoft Outlook: Customizing and Integrating Outlook (1)

General Requirements (23 Credits)

- BTECA 115 Business English I (5) *
- BTECA 116 Business English II (3) *
- BTECA 117 Business Mathematics (5) *
- BTECA 250 Business Communications (5) *
- MNGT 130 Customer Relationship Management (5) *

Total Credits Required 52-53

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

Program code: 559B

Last revision: 2016-17

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.

BTECA Requirements (48-49 Credits)

- ACCT 101 Survey of Accounting (5)
- COLLG 110 College Success (3)
- BTECA 102 Keyboard Skill Development: Alpha and Technical Improvement (1)
- BTECA 103 Keyboard Skill Development: Alphanumeric and Technical Improvement (1)
- BTECA 104 Keyboard Skill Development: Alphanumeric Improvement (1)
- BTECA 105 Keyboard Skill Development: Further Alphanumeric Improvement (1)
- BTECA 136 Ten-Key Mastery (1)
- BTECA 145 Records and Database Management (5)
- BTECA 160 Business Document Formatting: Basic (1)
- BTECA 161 Business Document Formatting: Advanced (1)
- BTECA 205 Office Procedures (3)
- BTECA 245 Cooperative Work Experience I (3)
- BTECA 246 Cooperative Work Experience II (3)

Select both:

- BTECA 248 Business Information Technology Seminar I (2)
- BTECA 249 Business Information Technology Seminar II (2)

or select:

- MNGT 186 Professional Development (5)

Select 15 credits from the following:

- BTECA 109 Introduction to Windows (3)
- BTECA 110 Microsoft Word: Prepare and Edit Documents (1)
- BTECA 111 Microsoft Word: Enhance and Customize Documents (1)
- BTECA 112 Microsoft Word: Create Tables and Merge Documents (1)

- BTECA 121 Microsoft Excel: Prepare Format Basic Worksheets (1)
- BTECA 122 Microsoft Excel: Insert Formulas and Enhancements (1)
- BTECA 123 Microsoft Excel: Create Charts and Diagrams (1)
- BTECA 130 Microsoft PowerPoint: Create and Modify a Powerpoint Presentation (1)
- BTECA 131 Microsoft PowerPoint: Format and Add Visual Element (1)
- BTECA 132 Microsoft PowerPoint: Customize and Share a Presentation (1)
- BTECA 140 Microsoft Access: Create and Modify a Database (1)
- BTECA 141 Microsoft Access: Create and Queries and Forms (1)
- BTECA 142 Microsoft Access: Create Reports, Charts and Web Pages (1)
- BTECA 150 Microsoft Outlook: Using E-Mail and the Calendar (1)
- BTECA 151 Microsoft Outlook: Managing Tasks, Contacts and Inbox (1)
- BTECA 152 Microsoft Outlook: Customizing and Integrating Outlook (1)

General Requirements (43 Credits)

- BTECA 115 Business English I (5) *
- BTECA 116 Business English II (3) *
- BTECA 117 Business Mathematics (5) *
- BUS& 201 Business Law (5)
- BUS 240 Human Relations in the Workplace (5) *
- BTECA 250 Business Communications (5)
- MNGT 130 Customer Relationship Management (5) *
- MNGT 283 Principles of Management (5)
- MNGT 295 Human Resource Management (5)

Total Credits Required 91-92

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

Program code: 559A

Last revision: 2016-17

Personal Training Certificate

General Requirements (44 Credits)

The KINS courses are offered at the Fort Steilacoom campus only.

- COLLG 110 College Success (3)
- KINS 155 Applied Anatomy and Physiology for the Health and Fitness Professional (5)

- KINS 250 Kinesiology (5)
- KINS 252 Nutrition and Exercise (3)
- KINS 253 Essentials of Weight Management (2)
- KINS 254 Essentials of Fitness Training (5)
- KINS 256 Exercise Physiology for the Health and Fitness Professional (5)
- KINS 257 Client Care and Marketing for the Health and Fitness Professional (3)
- KINS 258 Athletic Training and Acute Injury Management (3)
- KINS 259 Special Populations Care for the Health and Fitness Professional (3)
- KINS 260 Health Appraisal and Fitness Assessment (3)
- KINS 267 Internship (3)

Physical Education (1 Credit)

- Students are required to complete a one credit Physical Education course. (1)

Total Credits Required 44

Program code: 351P

Last revision: 2016-17

Philosophy Major

Philosophy Major - General Emphasis

This planning sheet lists only the courses related to the philosophy major. Students planning to transfer as philosophy majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. Philosophy majors should work closely with a faculty advisor to plan an overall program of study.

The following courses should be taken:

- CMST& 220 Public Speaking (5)
- ENGL 107 Composition III: Writing About Literature (5)
- HIST& 126 World Civilizations I (5)
- HIST& 127 World Civilizations II (5)
- HIST& 128 World Civilizations III (5)
- PHIL& 101 Introduction to Philosophy (5)
- PHIL& 120 Symbolic Logic (5)
- PHIL 150 Introduction to Ethics (5)

Philosophy Major - Values Emphasis (Ethics, Aesthetics)

The following courses should be taken:

- ANTH& 100 Survey of Anthropology (5)
- ART 105 Introduction to Art (5)
- ENGL& 114 Intro to Dramatic Literature (5)
- ENGL& 102 Composition II: Argumentation and Research (5)
- MUSC& 105 Music Appreciation (5)
- PHIL& 101 Introduction to Philosophy (5)
- PHIL& 120 Symbolic Logic (5)
- PHIL 150 Introduction to Ethics (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:

- ANTH& 206 Cultural Anthropology (5)
- PHIL& 101 Introduction to Philosophy (5)
- PHIL& 120 Symbolic Logic (5)
- PHIL 150 Introduction to Ethics (5)

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 prerequisites 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 prerequisites at Pierce College. Once students have been admitted to the PTA program, they will become a student at WCC, completing all coursework online and attending labs one weekend per month in Bellingham.

Physics Major

Physics Major

This planning sheet lists only the courses related to the physics major. Students planning to transfer as physics majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students can also follow the Associate of Science (AS-T) Degree Track 1. Students should check with the transfer institution regarding specific requirements and transferable credits. Physics majors should work closely with a faculty advisor to plan an overall program of study.

- PHYS& 221 Engineering Physics I (6)
- PHYS& 222 Engineering Physics II (6)
- PHYS& 223 Engineering Physics III (6)
- 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 with Lab I (5) and
- CHEM& 162 General Chemistry with Lab II (5)
(or 10 credits of physical science, not physics or math)

Pierce College Adult Diploma (PCAD)

Faculty: Teah Bergstrom, Way Jeng, Bill Orrange, Sandra Stevens

The Pierce College Adult Diploma (PCAD) program offers a flexible curriculum based on student credit needs that helps students achieve their goals. Regardless of how long it has been since a student's education was interrupted, students can get back on track, earn college credit, and obtain a Washington state high school diploma. Classes are available mornings, afternoons or evenings. All classes meet four times per week M-Th.

A high school diploma requires 20 high school credits, including the completion of Pierce College's required courses of College Success and an ITRANS college transitional class in English, reading or math. Graduates from Pierce College's high school program will have developed college-ready skills.

This program is for adults who are age 21 or older. However, students who are 19 or 20 years old are welcome to take classes, but the high school credits that are earned will not appear on Pierce's transcripts until the student turns 21.

Students who are 16-18 years old will need a release from their high school to enroll in the GED program.

New students need to meet with a high school completion adviser to evaluate their transcripts (transcripts can be unofficial to enter the program, however, official high school transcripts must be on file before a high school diploma can be issued). After meeting with the advisor, the student will attend an orientation and be scheduled for the state required CASAS testing. Students are then enrolled in classes based on their skills assessment results.

For questions, more information, or to start your enrollment process, please call:

- Fort Steilacoom (253) 964-6657
- Puyallup (253) 840-8455

Pierce College Endorsement For Written Communication

Students may earn an endorsement for written communication by completing a total of twenty-three 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.

Core Courses (10 Credits)

Must be completed with a grade of 2.0 or better.

- ENGL& 101 English Composition I (5)

and select one of the following:

- ENGL& 102 Composition II: Argumentation and Research (5)
- ENGL 107 Composition III: Writing About Literature (5)
- ENGL& 235 Technical Writing (5)

Elective Courses (10 Credits)

Must be completed with a grade of 2.0 or better. Complete an additional ten credits (two classes) from the remaining composition courses. Courses may not be repeated for credits.

- ENGL& 102 Composition II: Argumentation and Research (5)
- ENGL 107 Composition III: Writing About Literature (5)
- ENGL& 235 Technical Writing (5)

Capstone Course (3 Credits)

Must be completed with a grade of 3.0 or better.

- ENGL 256 Advanced Composition - Portfolio (3)

Total Credits Required 23

Political Science Major

Political Science Major

This planning sheet lists only the courses related to the political science major. Students planning to transfer as political science majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the

transfer institution regarding specific requirements and transferable credits. Political Science majors should work closely with a faculty advisor to plan an overall program of study.

- POLS& 101 Introduction to Political Science (5)
- POLS& 202 American Government (5)
- POLS& 203 International Relations (5)

Recommended courses:

Communications Skills

- ENGL& 101 English Composition I (5)
- ENGL& 102 Composition II: Argumentation and Research (5)

Quantitative/Symbolic Reasoning Skills

- MATH& 146 Introduction to Statistics (5)

Humanities

- CMST& 102 Introduction to Mass Media (5)
- CMST& 220 Public Speaking (5)
- PHIL& 101 Introduction to Philosophy (5)

Social Science

Two disciplines and POLS

- CJ 112 Criminal Justice in America (5)
- HIST& 156 History of U. S. I (5)
- HIST& 157 History of U. S. II (5)
- HIST& 158 History of U.S. III (5)
- POLS& 200 Introduction to Law (5)
- PSYC& 100 General Psychology (5)
- SOC& 101 Introduction to Sociology (5)

Select one:

- ANTH& 206 Cultural Anthropology (5)
- GEOG 207 Economic Geography (5)

Natural Science

Three disciplines, including one lab course indicated by an ①.

- ANTH& 205 Biological Anthropology (5)
- GEOG 205 Physical Geography (5)
- ① OCEA& 101 Introduction to Oceanography (5)

Select one:

- ① GEOL& 101 Introduction to Physical Geology (5)
- ① GEOL& 110 Environmental Geology (5)

Pre-Nursing (DTA/MRP)

Website: www.pierce.ctc.edu/nursing

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.

Due to high interest and limited space in BSN programs, admission to all BSN programs is highly competitive with many qualified applicants finding themselves on waiting lists for admission.

Degree Outcomes

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 General Transferable Elective (GTE) credits, and 15 General Elective credits.
- ENGL& 101 English Composition I - required
- COLLG 110 College Success required during the first or second quarter of attendance
- Earn the lesser of (at least) 20 college level credits or 25% of the credits applicable to the degree or certificate 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 GTE courses is required unless stated otherwise
- "Pass" (P) grades, independent study and cooperative work experience/work-based learning credits may be used for general elective credits only
- Once a course has been successfully completed, credits earned may be used in only one category

Core Requirements

Communication Skills (10 Credits)

ENGL& 101 requires a 2.0 or higher grade. Second communications course requires a 1.5 or higher grade. Northwest University and Walla Walla College require that the second English composition class be a research writing class.

- ENGL& 101 English Composition I (5)
- ENGL& 102 Composition II: Argumentation and Research (5)

Quantitative/Symbolic Reasoning Skills (5 Credits)

MATH& 146 requires a 1.5 or higher grade. UW-Seattle and Seattle University require 10 credits in quantitative/symbolic reasoning with the addition class in college algebra or precalculus (at UW-Seattle, a class in Logic also serves for the additional). Intermediate Algebra proficiency is required.

- MATH& 146 Introduction to Statistics (5)

Humanities (15 Credits)

Requires a 1.5 or higher grade. No more than **10** credits per discipline area. No more than **five** credits in world language at the 100 level. No more than **five** credits in performance/skills courses are allowed.

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.

See the humanities choices in the WSU "Diversity Course Identification Guidelines" for possible selection or choose courses that include minority, non-western, ethnic or other "area" studies. Selected from at least two disciplines.

- CMST& 220 Public Speaking (5) required
- ART& 100 Art Appreciation (5)
- ART 105 Introduction to Art (5)
- ART 145 History of Art - Contemporary (5)
- ART 215 Art for Teachers (5)
- ART 243 History of Art – Ancient World Through the Middle Ages (5)
- ART 244 History of Art – Renaissance Through Rococo (5)
- ART 245 History of Art – The Modern World (5)
- ASL& 121 American Sign Language I (5)
- ASL& 122 American Sign Language II (5)
- ASL& 123 American Sign Language III (5)
- ASL& 221 American Sign Language IV (5)
- ASL& 222 American Sign Language V (5)
- ASL& 223 American Sign Language VI (5)
- CMST& 101 Introduction to Communications (5)
- CMST& 102 Introduction to Mass Media (5)
- CMST 105 Intercultural Communication (5)
- CMST& 230 Small Group Communication (5)

- DRMA& 101 Introduction to the Theatre (5)
- DRMA 160 Introduction 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 204 The Bible as Literature (5)
- ENGL 205 Introduction to Mythology (5)
- ENGL 207 Native American Literature (5)
- ENGL 210 Introduction to American Literature (5)
- ENGL 214 Screenwriting I (5)
- ENGL& 220 Intro to Shakespeare (5)
- ENGL& 226 British Literature I (5)
- ENGL& 227 British Literature II (5)
- ENGL& 236 Creative Writing I (5)
- ENGL& 237 Creative Writing II (5)
- ENGL& 238 Creative Writing 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 249 Creative Writing: Special Projects (5)
- ENGL 264 Literature of U.S. Slavery and Abolition (5)
- ENGL 265 American Literature: Comedy, Humor and Satire (5)
- ENGL 266 Women Writers: Voices from the International Mosaic (5)
- FRCH& 121 French I (5)
- FRCH& 122 French II (5)
- FRCH& 123 French III (5)
- GERM& 121 German I (5)
- GERM& 122 German II (5)
- GERM& 123 German III (5)
- HUM& 101 Introduction 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 120 Introduction to Folklore (5)
- HUM 161 Western Thought and Culture I: The Classical World (5)
- HUM 162 Western Thought and Culture II: The Middle Ages (5)
- HUM 163 Western Thought and Culture III: Birth of the Modern World (5)
- HUM 164 Western Thought and Culture IV: The Modern World (5)
- HUM 204 American Popular Culture (5)
- HUM 209 The Civil Rights Movement: From the Ground Up (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 Japanese I (5)

- JAPN& 122 Japanese II (5)
- JAPN& 123 Japanese III (5)
- JOURN 103 Introduction to Feature Writing (1-5)
- JOURN 125 The Documentary: A Social Force (5)
- KREA& 121 Korean I (5)
- KREA& 122 Korean II (5)
- KREA& 123 Korean III (5)
- MUSC 100 Introduction to Rock & Roll (5)
- MUSC 102 American Popular Music (5)
- MUSC 103 Introduction to Jazz (5)
- MUSC& 105 Music Appreciation (5)
- MUSC 106 World Music (5)
- MUSC& 141 Music Theory I (5)
- MUSC& 142 Music Theory II (5)
- MUSC& 143 Music Theory III (5)
- MUSC 205 Music for Teachers (5)
- MUSC& 241 Music Theory IV (5)
- MUSC& 242 Music Theory V (5)
- MUSC& 243 Music Theory VI (5)
- PHIL& 101 Introduction to Philosophy (5)
- PHIL 110 Introduction to Bioethics (5)
- PHIL& 115 Critical Thinking (5)
- PHIL 150 Introduction to Ethics (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 Russian I (5)
- RUSS& 122 Russian II (5)
- RUSS& 123 Russian III (5)
- SPAN& 121 Spanish I (5)
- SPAN& 122 Spanish II (5)
- SPAN& 123 Spanish III (5)
- SPAN& 221 Spanish IV (5)

Humanities Performance/Skills

- ART 101 Design, Beginning (5)
- ART 102 Design, Intermediate (5)
- ART 107 Photography, Beginning (5)
- ART 111 Drawing, Beginning (5)
- ART 112 Drawing, Intermediate (5)
- ART 113 Drawing, Advanced (5)
- ART 115 3-Dimensional Design (5)
- ART 150 Printmaking, Beginning (5)
- ART 201 Painting, Beginning (5)
- ART 202 Painting, Intermediate (5)

- ART 203 Painting, Advanced (5)
- ART 204 Watercolor, Beginning (5)
- ART 211 Beginning Sculpture (5)
- ART 260 Art in Motion: Real and Recorded (5)
- DRMA 170 Technical Film and Theatre I (5)
- DRMA 171 Technical Film and Theatre II (5)
- DRMA 172 Technical Film and Theatre III (5)
- DRMA 260 Acting for Stage and Digital Film I (5)
- DRMA 261 Acting for Stage and Digital Film II (5)
- DRMA 262 Acting for Stage and Digital Film III (5)
- DRMA 280 Production Practicum I (1-3)
- DRMA 281 Production Practicum II (1-3)
- DRMA 282 Production Practicum III (1-3)
- DRMA 283 Production Practicum IV (1-3)
- DRMA 284 Production Practicum V (1-3)
- DRMA 285 Production Practicum VI (1-3)
- MUSC 126 Beginning Class Guitar (1)
- MUSC 127 Intermediate Class Guitar (1)
- MUSC 144 Concert Choir (2)
- MUSC 147 Chamber Choir (2)
- MUSC 150 College Band (2)
- MUSC 157 Jazz Band (2)
- MUSC 160 Private Instruction: Arranging (1)
- MUSC 161 Private Instruction: Improvisation (1)
- MUSC 162 Private Instruction: Brass (1)
- MUSC 163 Private Instruction: Woodwind (1)
- MUSC 164 Private Instruction: Percussion (1)
- MUSC 165 Private Instruction: Voice (1)
- MUSC 166 Private Instruction: Orchestral Strings (1)
- MUSC 167 Private Instruction: Keyboard (1)
- MUSC 168 Private Instruction: Plectrum Strings (1)
- MUSC 170 Brass Ensemble (1)
- MUSC 171 Woodwind Ensemble (1)
- MUSC 172 Percussion Ensemble (1)
- MUSC 173 String Ensemble (1)
- MUSC 174 Vocal Ensemble (1)
- MUSC 181 Beginning Class Piano (1)
- MUSC 182 Intermediate Class Piano (1)
- MUSC 183 Advanced Class Piano (1)
- MUSC 244 Concert Choir (2)
- MUSC 247 Chamber Choir (2)
- MUSC 250 College Band (2)
- MUSC 254 College Orchestra (1)
- MUSC 257 Jazz Band (2)
- MUSC 260 Private Instruction: Arranging (1)
- MUSC 261 Private Instruction: Improvisation (1)
- MUSC 262 Private Instruction: Brass (1)
- MUSC 263 Private Instruction: Woodwind (1)

- MUSC 264 Private Instruction: Percussion (1)
- MUSC 265 Private Instruction: Voice (1)
- MUSC 266 Private Instruction: Orchestral Strings (1)
- MUSC 267 Private Instruction: Keyboard (1)
- MUSC 268 Private Instruction: Plectrum Strings (1)
- MUSC 270 Brass Ensemble (1)
- MUSC 271 Woodwind Ensemble (1)
- MUSC 272 Percussion Ensemble (1)
- MUSC 273 String Ensemble (1)
- MUSC 274 Vocal Ensemble (1)

Social Sciences (15 Credits)

Requires a 1.5 grade or higher.

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 the junior year.

See the sociology choices in the WSU "Diversity Course Identification Guidelines" for possible selection or choose courses that include minority, non-western, ethnic or other "area" studies.

- PSYC& 100 General Psychology (5)
- PSYC& 200 Lifespan Psychology (5)

Select one:

- SOC& 101 Introduction 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)

Natural Sciences (38 Credits)

Requires a 1.5 grade or higher. 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 junior year.

At the time of application when some of the course work may not yet be completed, 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.

- 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/Biochemistry (6)
- NUTR& 101 Nutrition (5)

General Electives (10 Credits)

Minimum of 1.0 grade is required. Five credits that meet the CM, QS, HM, NS or SS designation as stated on the AA-DTA degree lists. Up to five credits that are numbered 100 or above. A maximum of three physical activity (PE) credits can be applied to this degree.

- COLLG 110 College Success (3) required with a 2.0 or higher grade

Total Credits Required 93

Notes

- Admissions application deadlines vary; students must meet the deadline for the university or universities to which they plan to apply for admission to transfer.
- For admission to nursing as a major it is critical to note that grade point average requirements vary and admission is competitive across the several programs in Nursing.
- Certain schools may have additional "university-specific" requirements that are not pre-requisites 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. Contact with advisor 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.
- 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, for example, requires 10 credits of a world language if the applicant has not completed two years of a single language in high school; PLU requires a year of a world language at the college level, if two years of high school world language has not been completed.

Program Code: PREN

Project Management Certificate

Course Requirements (31-33 Credits)

- BTECA 117 Business Mathematics (5)
- BUS 240 Human Relations in the Workplace (5) †
- BUS 260 Project Management I: Planning (5) **
- BUS 261 Project Management II: Managing (5) **
- COLLG 110 College Success (3)

Select one:

- BTECA 115 Business English I (5) +
- ENGL& 101 English Composition I (5) +

Total Credits Required 31-33

†Meets related instruction requirements for professional/technical programs.

**Prerequisite required

Program code: 292C

Last revision: 2016-17

Project Management Short Certificate

Course Requirements (10 Credits)

- BUS 260 Project Management I: Planning (5) *
- BUS 261 Project Management II: Managing (5) *

Total Credits Required 10

*Prerequisite required

Program code: 292S

Last revision: 2016-17

Psychology Major

Psychology Major

This planning sheet lists only the courses related to the psychology major. Students planning to transfer as psychology majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the

transfer institution regarding specific requirements and transferable credits. Psychology majors should work closely with a faculty advisor to plan an overall program of study.

Recommended Courses:

- PSYC& 100 General Psychology (5)

Two of the following:

*Check with the transfer institution for its preference/transferability of more than two 200 level psychology courses.

- 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) *

The following courses are recommended as part of the requirements for the AA-DTA degree:

Communication Skills

- ENGL& 101 English Composition I (5)
- ENGL& 102 Composition II: Argumentation and Research (5)

Quantitative/Symbolic Reasoning Skills

**For UW Seattle - see their requirements

- MATH& 146 Introduction to Statistics (5) **

Social Science

Two disciplines

- PSYC& 100 General Psychology (5)
- SOC& 101 Introduction to Sociology (5)
- SOC 211 Family and Intimate Relationships (5)
- ANTH& 100 Survey of Anthropology (5)
- ANTH& 106 The American Mosaic (5)
- ANTH& 206 Cultural Anthropology (5)

Humanities

Two disciplines

- PHIL& 101 Introduction to Philosophy (5)
- CMST& 101 Introduction to Communications (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)

Natural Science

Two disciplines, including one lab course indicated by an ①

- ① BIOL& 170 Human Biology: Anatomy & Physiology (5)
- BIOL& 175 Human Biology w/Lab: Anatomy & Physiology (5)
- ① BIOL& 160 General Biology w/Lab (5)
- NUTR& 101 Nutrition (5)
- Natural Science of your choice (5)

Retail Management Certificate

Course Requirements (53 Credits)

In addition to the requirements listed below, students are encouraged to take ACCT 101.

- CIS 130 Productivity Software (5)
- COLLG 110 College Success (3)
- MNGT 130 Customer Relationship Management (5) *
- MNGT 182 Creative Sales (5)
- MNGT 275 Introduction to Visual Promotion (5)
- MNGT 282 Principles of Marketing (5)
- MNGT 284 Small Business Planning (5)
- MNGT 293 Retailing and Merchandising (5)

Select one:

- BUS 240 Human Relations in the Workplace (5) *
- MNGT 186 Professional Development (5)

Select one:

- BTECA 115 Business English I (5) * †
- ENGL& 101 English Composition I (5) * †

Select one:

- BTECA 117 Business Mathematics (5) * †
- MATH& 146 Introduction to Statistics (5)

Total Credits Required 53

* Meets related instruction requirements for professional/technical programs.

† Prerequisite required.

Program code: 251

Last revision: 2017-18

Sales Certificate

Course Requirements (43 Credits)

In addition to the requirements listed below, students are encouraged to take ACCT 101.

- CIS 130 Productivity Software (5)
- COLLG 110 College Success (3)
- MNGT 130 Customer Relationship Management (5)
- MNGT 182 Creative Sales (5)
- MNGT 186 Professional Development (5)
- MNGT 282 Principles of Marketing (5)
- MNGT 284 Small Business Planning (5)

Select one:

- BTECA 117 Business Mathematics (5) * †
- MATH& 146 Introduction to Statistics (5)

Select one:

- BTECA 115 Business English I (5) * †
- ENGL& 101 English Composition I (5) * †

Total Credits Required 43

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

† Prerequisite required.

Program code: 252

Last revision: 2017-18

Social Media Marketing Certificate

Course Requirements (39 Credits)

- BUS 134 Introduction to Social Media (5)
- BUS 135 Introduction to Online Marketing (5)
- COLLG 110 College Success (3)
- MNGT 136 Online Selling and Web Usability (5)
- MNGT 137 Independent Contracting (3)
- MNGT 138 Information Design for Business (5)
- MNGT 139 Social Media Digital Content for Business (5)
- MNGT 141 Professional Portfolio (3)
- MNGT 282 Principles of Marketing (5)

Total Credits Required 39

Program code: 245S

Last revision: 2017-18

Social Service/Mental Health (AA-DTA) with Optional Certificate

(AA-DTA) Requirements

General Requirements (63 Credits)

College Success (3 Credits)

- COLLG 110 College Success (3)

Communications (10 Credits)

- ENGL& 101 English Composition I (5)
- CM GER Electives (ENGL& 102 recommended) (5)

Quantitative/Symbolic Reasoning Skills (5 Credits)

- QS GER Electives (MATH& 146 recommended) (5)

Humanities (15 Credits)

Select from two disciplines:

- HM GER Electives (10)

Select one:

- CMST& 101 Introduction to Communications (5)
- CMST& 220 Public Speaking (5)

Social Science (15 Credits)

- PSYC& 100 General Psychology (5)
- SOC& 101 Introduction to Sociology (5)

Select one:

- ANTH& 206 Cultural Anthropology (5)
 - ECON 110 Survey of Economics (5) *
- *ECON 110 recommended for transfer to social work at UW

Natural Science (15 Credits)

Select from two disciplines - lab class required:

- NS GER Electives (10)

Select one:

- BIOL& 100 Survey of Biology (5)
- BIOL& 160 General Biology w/Lab (5)
- BIOL& 170 Human Biology: Anatomy & Physiology (5)

Social Service/Mental Health Core/Certificate (36 Credits)

Psychology Courses (5 Credits)

Select one:

- PSYC& 180 Human Sexuality (5)
- PSYC& 200 Lifespan Psychology (5)
- PSYC 201 Psychology of Personal Growth (5)
- PSYC 210 Social Psychology (5)
- PSYC 215 Group Experience (5)
- PSYC& 220 Abnormal Psychology (5)
- PSYC 230 Intro to Personality (5)

Sociology Courses (5 Credits)

Select one:

- 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)

Social Service Mental Health Courses (26 Credits)

- SSMH 100 Introduction 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 Caregivers (3)
- SSMH 215 Law and Ethics in Social Services (5)

Select one:

- SSMH 185 Identity and Values in the Family (3)
- SSMH 230 Abuse in the Family (3)

Total Credits Required 99

Social Service/Mental Health Associate

General Requirements (28 Credits)

College Success

- COLLG 110 College Success (3)

Communications (10 Credits)

- ENGL& 101 English Composition I (5)

Select one:

- CMST& 101 Introduction to Communications (5)
- CMST& 220 Public Speaking (5)

Computation/Quantitative/Symbolic Reasoning Skills (5 Credits)

Any course meeting the AA-DTA QS requirement:

- 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 Introduction to Statistics (5)
- MATH 147 Business Precalculus (5)

- MATH& 148 Business Calculus (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)
- or
- BTECA 117 Business Mathematics (5)

Human Relations (10 Credits)

- PSYC& 100 General Psychology (5)

Select one:

- ANTH& 106 The American Mosaic (5)
- ANTH& 206 Cultural Anthropology (5)
- SOC& 101 Introduction to Sociology (5)

Social Service/Mental Health Core (64 Credits)

Social Service Foundation (18 Credits)

- HSSA& 101 Introduction to Chemical Dependency (3)
- PSYC& 220 Abnormal Psychology (5)
- SSMH 202 Social Service-Mental Health Field Experience 2 (5)

Select one:

- BIOL& 100 Survey of Biology (5)
- BIOL& 160 General Biology w/Lab (5)
- BIOL& 170 Human Biology: Anatomy & Physiology (5)

Social Service Mental Health Courses (46 Credits)

- SSMH 100 Introduction 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 Caregivers (3)
- SSMH 215 Law and Ethics in Social Services (5)

- 12 Electives approved by SSMH advisor (12)
(Any psychology, sociology, multicultural course or course related to career path)

Select one:

- SSMH 185 Identity and Values in the Family (3)
- SSMH 230 Abuse in the Family (3)

Psychology Courses (5 Credits)

Select one:

- PSYC& 180 Human Sexuality (5)
- PSYC& 200 Lifespan Psychology (5)
- PSYC 201 Psychology of Personal Growth (5)
- PSYC 210 Social Psychology (5)
- PSYC 215 Group Experience (5)
- PSYC 230 Intro to Personality (5)

Sociology Courses (5 Credits)

Select one:

- 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)

Total Credits Required 92

**Students must earn a minimum grade of 2.0 in all SSMH courses to earn an SSMH associate degree.*

Program code: 369

Last revision: 2016-17

Social Service/Mental Health Certificate

General Requirements (39 Credits)

College Success (3 Credits)

- COLLG 110 College Success (3)

Social Service Mental Health Courses (26 Credits)

- SSMH 100 Introduction 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 Caregivers (3)
- SSMH 215 Law and Ethics in Social Services (5)

Select one:

- SSMH 185 Identity and Values in the Family (3)
- SSMH 230 Abuse in the Family (3)

Psychology Courses (5 Credits)

Select one:

- 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 215 Group Experience (5)
- PSYC 230 Intro to Personality (5)

Sociology Courses (5 Credits)

Select one:

- SOC& 101 Introduction 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)

Total Credits Required 39

**Students must earn a minimum grade of 2.0 in all SSMH courses to earn an SSMH certificate.*

Program code: 369C

Last revision: 2016-17

Sociology Major

Sociology Major

This planning sheet lists only the courses related to the sociology major. Students planning to transfer as sociology majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. Sociology majors should work closely with a faculty advisor to plan an overall program of study.

The following courses are recommended:

- ANTH& 106 The American Mosaic (5)
- ANTH& 206 Cultural Anthropology (5)
- BIOL& 160 General Biology w/Lab (5)
- ENGL& 101 English Composition I (5)
- ENGL& 102 Composition II: Argumentation and Research (5)
- HIST& 126 World Civilizations I (5)
- HIST& 127 World Civilizations II (5)
- HIST& 128 World Civilizations III (5)
- MATH& 141 Precalculus I (5)
- MATH& 146 Introduction to Statistics (5)
- PSYC& 100 General Psychology (5)
- PSYC 210 Social Psychology (5)
- SOC& 101 Introduction 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)

State Early Childhood Education Certificate

The State Early Childhood Education Certificates are part of the Integrated Basic Education and Skills Training (I-BEST) which is open to all Pierce College Adult Diploma (PCAD), Adult Basic Education (ABE), General Education Development (GED), English as a Second Language (ESL), and pre-college level adult learners. I-BEST programs provide high 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, Business Information 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

Professional/technical program competencies can be found at www.pierce.ctc.edu/dept/ece/outcomes

General Education Requirements (21-23 Credits)

College Success (3 Credits)

- COLLG 110 College Success (3)

Communications (5 Credits)

- ENGL& 101 English Composition I (5)

Computation/Quantitative/Symbolic Reasoning Skills (3-5 Credits)

Select one:

- ECED 109 Introduction to Math for Early Childhood Education (3)
- MATH 111 College Math for Early Childhood Education (5)

Early Childhood Education Requirements (27 Credits)

- ECED& 105 Introduction to Early Childhood Education (5)
- ECED& 107 Health, Nutrition and Safety (5)
- EDUC& 115 Child Development (5)
- ECED& 120 Practicum: Focus on Relationships (2)
- EDUC& 130 Guiding Behavior (3)

- EDUC& 150 Child, Family and Community (3)
- ECED& 160 Curriculum Development (5)
- ECED& 170 Environments for Young Children (3)
- ECED& 180 Language and Literacy Development (3)
- ECED& 190 Observation and Assessment (3)

Total Credits Required 48-50

Program code: 46E

Last revision: 2016-17

State Initial Early Childhood Education Certificate

The State Early Childhood Education Certificates are part of the Integrated Basic Education and Skills Training (I-BEST) which is open to all Pierce College Adult Diploma (PCAD), Adult Basic Education (ABE), General Education Development (GED), English as a Second Language (ESL), and pre-college level adult learners. I-BEST programs provide high 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, Business Information 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

Professional/technical program competencies can be found at www.pierce.ctc.edu/dept/ece/outcomes

Course Requirements (12 Credits)

- ECED& 105 Introduction to Early Childhood Education (5)
- ECED& 107 Health, Nutrition and Safety (5)
- ECED& 120 Practicum: Focus on Relationships (2)

Total Credits Required (12)

Program code: 40E

Last revision: 2016-17

State Short Early Childhood Education Certificate of Specialization - Administration

Course Requirements (20 Credits)

- ECED& 105 Introduction to Early Childhood Education (5)
- ECED& 107 Health, Nutrition and Safety (5)
- EDUC& 115 Child Development (5)
- ECED& 120 Practicum: Focus on Relationships (2)
- ECED& 139 Administration of Early Learning (3)

Total Credits Required 20

Program code: 45E

Last revision: 2016-17

State Short Early Childhood Education Certificate of Specialization - Family Child Care

Course Requirements (20 Credits)

- ECED& 105 Introduction to Early Childhood Education (5)
- ECED& 107 Health, Nutrition and Safety (5)
- EDUC& 115 Child Development (5)
- ECED& 120 Practicum: Focus on Relationships (2)
- ECED& 134 Family Child Care (3)

Total Credits Required 20

Program code: 44E

Last revision: 2016-17

State Short Early Childhood Education Certificate of Specialization - General

The State Early Childhood Education Certificates are part of the Integrated Basic Education and Skills Training (I-BEST) which is open to all Pierce College Adult Diploma (PCAD), Adult Basic Education (ABE), General Education Development (GED), English as a Second Language (ESL), and pre-college level adult learners. I-BEST programs provide high 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, Business Information 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

Professional/technical program competencies can be found at www.pierce.ctc.edu/dept/ece/outcomes

Course Requirements (20 Credits)

- ECED& 105 Introduction to Early Childhood Education (5)
- ECED& 107 Health, Nutrition and Safety (5)
- EDUC& 115 Child Development (5)
- ECED& 120 Practicum: Focus on Relationships (2)
- EDUC& 130 Guiding Behavior (3)

Total Credits Required 20

Program code: 41E

Last revision: 2016-17

State Short Early Childhood Education Certificate Of Specialization - Infants and Toddlers

Course Requirements (20 Credits)

- ECED& 105 Introduction to Early Childhood Education (5)
- ECED& 107 Health, Nutrition and Safety (5)
- EDUC& 115 Child Development (5)
- ECED& 120 Practicum: Focus on Relationships (2)
- ECED& 132 Infants and Toddlers (3)

Total Credits Required 20

Program code: 42E

Last revision: 2016-17

State Short Early Childhood Education Certificate of Specialization - School Age Care

Course Requirements (20 Credits)

- ECED& 105 Introduction to Early Childhood Education (5)
- ECED& 107 Health, Nutrition and Safety (5)
- EDUC& 115 Child Development (5)
- ECED& 120 Practicum: Focus on Relationships (2)
- EDUC& 136 School Age Care (3)

Total credits required 20

Program code: 43E

Last revision: 2016-17

Supervision and Management Certificate

Course Requirements (53 Credits)

- CIS 130 Productivity Software (5)
- BUS 240 Human Relations in the Workplace (5) *
- COLLG 110 College Success (3)
- MNGT 186 Professional Development (5)
- MNGT 194 Principles of Leadership (5)
- MNGT 276 Employment Law: Human Resource Legal Issues (5)
- MNGT 283 Principles of Management (5)
- MNGT 295 Human Resource Management (5)

Select one:

- ACCT 101 Survey of Accounting (5)
- ACCT& 201 Principles of Accounting I (5)

Select one:

- BTECA 115 Business English I (5) * †
- ENGL& 101 English Composition I (5) * †

Select one:

- BTECA 117 Business Mathematics (5) * †
- MATH& 146 Introduction to Statistics (5)

Total Credits Required 53

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

† Prerequisite required.

Program code: 245A

Last revision: 2017-18

Teaching (BAS-T)

Faculty: Dr. Krissy Kim, Angela Merritt, Leesa Thomas (FS)

The need for certificated teachers and baccalaureate prepared early childhood educators continues to grow in Washington State. The Bachelor of Applied Science in Teaching builds on our strong professional technical program in early childhood education. With an Associate of Applied Science-Transferable (AAS-T) degree in ECE, graduate can seamlessly transition into the BAS-T program which is designed to prepare students to teach in a variety of setting serving children ages prenatal through third grade. This degree leads to a Washington State Residency Certificate and both P-3 endorsements in Early Childhood Education (ECE) and Early Childhood Special Education (ECSE).

To apply for the program, students must have an early childhood associate degree or demonstrate competency of the AAS-T program outcomes with a minimum of 90 college level credits including 40 core credits in English, math, social sciences, humanities, and natural sciences. They must complete the BAS-T application (see BAS-T website for application deadlines), provide evidence of good moral character and personal fitness as required by law, and meet the entry testing requirements outlined below.

ENTRY TESTING

All teacher candidates are required to demonstrate proficiency in reading, writing and math prior to acceptance into a teacher preparation program in the State of Washington. This can be accomplished through the Washington Educator Skills Test-Basic (WEST-B), the SAT or ACT. Candidates entering a Washington approved teaching preparation program may substitute a passing score on one or more sections of the SAT or ACT for the equivalent passing scores on the WEST-B. The adopted passing scores for SAT and ACT are listed below.

CUT SCORE COMPARISON TABLE

Subject	WEST-B	SAT (prior to 3/1/16)	SAT (prior to 3/1/16)	ACT (prior to 9/15/15)	ACT (prior to 9/15/15)
Math	240	515	530	22	22
Reading	240	500	27	22	22
Writing	240	490	28	8	23

More information on the WEST-B, including how to register for the exams, can be found on the West-B Testing website.

In the event that there are more applicants who meet the entry requirements than spaces available in the cohort of 24, a committee will evaluate the applications to rank them for admission into the program.

Once enrolled in the program, students will complete 45 credits of coursework. This coursework prepares them for the required content exams for endorsements in Washington State. There are two exams required:

The Washington Educator Skills Test- Endorsement (WEST-E) in Early Childhood Special Education (071) and the National Evaluation Series (NES) in Early Childhood Education (101)

Students earn the remaining 45 credits for a bachelor degree by completing a one-year residency in the public school system. During the winter residency, students must submit their edTPA , which is a performance-based, portfolio assessment required for teacher licensure in Washington State.

Successful completion of coursework earns graduates a BAS-T. Successful completion of coursework with a minimum of a 2.0 grade in all ECED courses plus passing scores of the WEST-E, NES, and edTPA earn graduates a Residency Certificate and endorsements in ECE and ECSE.

Graduates of this program are well qualified for employment in a variety of general and special education settings such as primary schools, preschools, child care programs, Head Start, Early Head Start, ECEAP, home visiting, early intervention

programs, etc. They are also eligible for admission into graduate programs to continue their study of early childhood education or educational leadership.

Bachelor of Applied Science in Teaching (BAS-T)

Early Childhood Education Requirements (69 Credits)

- ECED 307 Health and Fitness (2)
- ECED 325 Advanced Math Methods (3)
- ECED 340 Assessment and Evaluation (5)
- ECED 365 Observations, Documentation and Monitoring (3)
- ECED 370 Adaptations, Modifications and Planning (5)
- ECED 385 Advanced Language and Literacy Methods (3)
- ECED 395 Collaboration and Supervision (3)
- ECED 479 Fall Residency (15)
- ECED 489 Winter Residency (15)
- ECED 499 Spring Residency (15)

Communications (5 Credits)

- ENGL& 102 Composition II: Argumentation and Research (5)

Social Science (11 Credits)

- ECED 335 Law and Ethics (3)
- ECED& 355 Social and Political Context of Early Childhood Education (3)
- INTS 300 Social Studies for Teachers (5)

Natural Science (5 Credits)

- NSCI 300 Inquiry Based Science for Teachers (5)

Total Credits Required 90

Program code: TBA

Last revision: 2016-17

Veterinary Technology Associate

Faculty: Markiva Contris, LVT; Salvador Hurtado, DVM (FS)

Web site: www.pierce.ctc.edu/vet-tech

NOTE: The Veterinary Technology courses are taught only at the Fort Steilacoom campus.

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. The selection process is competitive; therefore, not all applicants will be accepted. Candidates with the highest total scores will be notified of their acceptance status in late May (Tier I applicants) or early September (Tier II applicants) preceding the fall quarter for which they applied. See www.pierce.ctc.edu/vet-tech.

Professional/technical program competencies can be found at www.pierce.ctc.edu/dept/vettech/outcomes

All candidates must have the following courses, these courses may require prerequisites based upon placement scores.

- College-level biology (i.e. BIOL& 100, 5 credits)
- College-level chemistry (i.e., CHEM& 100, 5 credits)
- Intermediate algebra (i.e., MATH 096, 7 credits or MATH 098, 5 credits)
- College-level English (i.e. ENGL& 101, 5 credits)
- College-level medical terminology (i.e., BTECA 150, min. 3 credits)
- Grade of 2.0 or better for each program prerequisite course
- Program assessment 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. 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.

Starting in summer 2015, all new Pierce College students will be required to take COLLG 110 College Success within the first two quarters of starting coursework at Pierce College. Select students may be exempt from this requirement, including some students transferring in to Pierce College.

First Year

Fall Quarter (17 Credits)

- VT 100 Introduction to Veterinary Technology (2) *
- VT 101 Animal Nursing I Lecture (2)
- VT 102 Animal Nursing I Laboratory (2)
- VT 107 Medical Dosage for Veterinary Technicians (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 (16 Credits)

- VT 104 Animal Nursing II (5)
- VT 111 Ward Care Laboratory II (1)
- VT 123 Large Animal Nursing (4)
- VT 126 Animal Anatomy and Physiology II (3)
- VT 155 Nutrition and Complementary Therapies (2)
- VT 161 Applied Behavior Techniques II (1)

Spring Quarter (15 Credits)

- VT 105 Animal Nursing III (3)
- VT 112 Ward Care Laboratory III (1)
- VT 150 Clinical Microbiology and Public Health (6)
- VT 162 Applied Behavior Techniques III (1)
- VT 166 Hematology for Veterinary Technicians (4)

Second Year

Fall Quarter (15 Credits)

- VT 230 Anesthesiology (4)
- VT 250 Radiology for Veterinary Technicians (3)
- VT 251 Pharmacology for Veterinary Technicians (3)
- VT 266 Veterinary Clinical Pathology and Parasitology (5)

Winter Quarter (16 Credits)

- VT 215 Animal Hospital Office Procedures (2)
- VT 224 Veterinary Clinical Laboratory Principles (2)

- VT 240 Animal Diseases (3)
- VT 260 Emergency and Critical Care (3)
- VT 265 Clinical Techniques Laboratory (6)

Spring Quarter (14 Credits)

- VT 233 Veterinary Clinical Practice (14) (Clinics)

Total Credits Required 93

**VT 100 is open to all interested students, not just to those enrolled in the Veterinary Technology program.*

Program code: 115

Last revision: 2016-17

Virtual Construction for Construction Management Certificate

The Certificate in Virtual Construction for Construction Management is provided in response to the needs of the construction industry. A Building Information Model or BIM provides the contractor with the ability to analyze, in a collaborative digital environment, a facility's key physical and functional attributes before breaking ground. The BIM can improve the entire process from bidding, planning, controlling and commissioning.

The program is intended for individuals who have completed certificates or degrees in construction management or have work experience in construction management, estimating, scheduling, coordination and project supervision.

To meet the needs of working adults, courses are offered in the evenings. The curriculum introduces students to BIM tools and platforms, basic and intermediate modeling, project coordination using BIM tools and platforms and estimation and scheduling with BIM.

Core Requirements (23 Credits)

- CONST 270 Introduction to Virtual Design and Construction (3)
- CONST 271 Basic Modeling (5)
- CONST 272 Intermediate Modeling (5)
- CONST 274 Model Based Collaboration (5)
- CONST 275 Model Integration: Estimation and Scheduling (5)

Total Credits Required 23

Program code: 570V

Last revision: 2016-17

World Languages Major

This planning sheet lists only the courses related to the world languages major. Students planning to transfer as world languages majors **must** complete the degree requirements for the Associate of Arts (AA-DTA). Students should check with the transfer institution regarding specific requirements and transferable credits. World languages majors should work closely with a faculty advisor to plan an overall program of study.

Western European Language Majors

Students wishing to major in Western European languages or area studies may find the following courses particularly useful:

- ANTH& 100 Survey of Anthropology (5)
- ART 145 History of Art - Contemporary (5)
- HIST& 127 World Civilizations II (5)
- HIST& 128 World Civilizations III (5)
- INTS 107 Introduction to International Studies (5)
- INTS 140 Contemporary Issues in International Studies (5)

Asian Language Majors

- ANTH& 100 Survey of Anthropology (5)
- ART 145 History of Art - Contemporary (5)
- HIST& 127 World Civilizations II (5)
- HIST& 128 World Civilizations III (5)
- HIST 270 Introduction to the Far East (5)
- HIST 280 Introduction to Chinese Civilization (5)
- INTS 107 Introduction to International Studies (5)
- INTS 140 Contemporary Issues in International Studies (5)

Course Descriptions

Accounting

ACCT 101 Survey of Accounting (5)

Fundamental theories and concepts of accounting. Emphasizes applications of accounting information to various career programs such as Management and Computer Information Systems.

ACCT 131 QuickBooks (5)

Prereq: ACCT 150 or ACCT& 201.

Beginning course in processing business transactions using QuickBooks software. Course covers creating company files, transaction processing and banking.

ACCT 150 Introduction to Accounting and Bookkeeping I (5)

Prereq: MATH 096 or MATH 098 with a grade of at least 2.0.

Introduction to basic accounting concepts and procedures. Recording transactions and applying the accounting cycle to prepare financial statements for the sole proprietor for service enterprises.

ACCT 151 Introduction to Accounting and Bookkeeping II (5)

Prereq: ACCT 150 or ACCT 201

A continuation of the study of accounting concepts and procedures. Accounting procedures for merchandising business and partnerships. Basics of accounting for corporations.

ACCT 179 Federal Income Tax Preparation (5)

Federal income tax law and preparation with primary emphasis on individual income tax.

ACCT 180 Accounting Systems (5)

Prereq: CIS 110 or CIS 121, and BTECA 100, and ACCT 101 or ACCT& 201, or instructor permission.

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 Principles of Accounting I (5)

Prereq: MATH 096 or 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 Principles of Accounting II (5)

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 Principles of Accounting III (5)

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 275 Payroll and Business Taxes (5)

Prereq: ACCT 101 or ACCT& 201 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 276 Nonprofit Management and Reporting (5)

Prereq: ACCT 150 or ACCT 201 .

This course provides the fundamentals of financial management and reporting requirements for not-for-profit organizations and the rules and regulations covering them.

ACCT 287 Income Tax Practicum (3)

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.

American Sign Language

ASL& 121 American Sign Language I (5)

GER-HM

Prereq: Placement in ENGL 101.

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 American Sign Language II (5)

GER-HM

Prereq: ASL& 121 with grade of 2.0 or better; or one year HS equivalent or instructor permission, plus completion of ENGL 101.

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 nonmanual signals with more ease. They will be introduced to basic storytelling using these new skills and techniques as well as learn more about deaf culture and grammar.

ASL& 123 American Sign Language III (5)

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 storytelling 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 American Sign Language IV (5)

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 American Sign Language V (5)**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 American Sign Language VI (5)**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 storytelling. 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& 100 Survey of Anthropology (5)****GER-SS**

A survey of biological anthropology, archaeology, cultural anthropology and linguistic anthropology.

ANTH& 104 World Prehistory (5)**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 The American Mosaic (5)

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 Archaeology of Ancient Civilizations (5)

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 150 Special Topics in Anthropology (3)

This course provides the flexibility to offer special topics of interest and significance in anthropology at the introductory level and at the same time develop college level learning skills. The six-week course may study a particular anthropological problem or focus upon a particular cultural or geographic area. Designation of specific topic and/or approach will be made at the time of the course offering. Offerings are more specific and focused than in introductory courses; examples might include the anthropology of food or digital anthropology.

ANTH 151 Special Topics In Anthropology (2)

This course provides the flexibility to offer special topics of interest and significance in anthropology at the introductory level and at the same time develop college level learning skills. The four-week course may study a particular anthropological problem or focus upon a particular cultural or geographic area. Designation of specific topic and/or approach will be made at the time of the course offering. Offerings are more specific and focused than in introductory courses; examples might include the anthropology of food or digital anthropology.

ANTH 167 Cross Cultural Studies - Life and Culture (2-5)

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 Archaeology (5)

GER-SS

Introduction to archaeological method and theory.

ANTH& 205 Biological Anthropology (5)

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 Cultural Anthropology (5)

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 Indians of North America (5)

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 Northwest Coast Indians (5)

GER-SS

Exploration of the culture and lifeways of Indians of the Northwest Coast culture area, past and present.

ANTH& 236 Forensic Anthropology (5)

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 Women in Cross Cultural Perspectives (5)**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& 100 Art Appreciation (5)****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 majors and there are no prerequisites.

ART 101 Design, Beginning (5)**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 Design, Intermediate (5)**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 105 Introduction to Art (5)

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 Photography, Beginning (5)**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 111 Drawing, Beginning (5)**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, written sequential instruction, and historical/contemporary examples.

ART 112 Drawing, Intermediate (5)**GER-HM/Performance**

Prereq: ART 111 or instructor permission

This intermediate course is an extension of the fundamentals of representational drawing. This course is designed to allow the serious student to develop skills as a draftsman and broaden capabilities for personal expression.

ART 113 Drawing, Advanced (5)**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 3-Dimensional Design (5)

GER-HM/Performance

A non-computer hands on sculpture studio lab course that introduces the student to various approaches to constructing three-dimensional forms.

ART 145 History of Art - Contemporary (5)

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 150 Printmaking, Beginning (5)

GER-HM/Performance

A studio/lab course covering the various basic processes of fine art printmaking. Students will learn how to make mutable original prints from personally designed compositions. The methods used to create artwork will include the Intaglio print processes such as dry-point, monotype and solar plate. The Relief system will be emphasized by the completion of woodcuts and lino-cuts. Students will leave the class with several editions of prints and a basic knowledge of hand-pulled printmaking practices.

ART 201 Painting, Beginning (5)

GER-HM/Performance

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 application. This is a studio-laboratory course with intensive in-class experience supplemented by lectures, demonstrations and critiques.

ART 202 Painting, Intermediate (5)

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 given to independent problem solving and personal expression.

ART 203 Painting, Advanced (5)

GER-HM/Performance

Prereq: ART 202 or instructor permission

An advanced 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 given to independent problem solving and personal expression.

ART 204 Watercolor, Beginning (5)

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 also gain a historical overview of water soluble based media and explore an assortment of its applications in the visual arts.

ART 211 Beginning Sculpture (5)

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 215 Art for Teachers (5)

GER-HM

A general introduction to the visual arts as applied to the development of young children birth through grade 3. Explores theories, techniques and curriculum design in order to offer a wide variety of developmentally appropriate art media to children and create a comprehensive art curriculum.

ART 243 History of Art – Ancient World Through the Middle Ages (5)

GER-HM

A concise chronological history of paintings, sculpture, drawings and architecture from the dawn of recorded art to the gothic movement and related issues.

ART 244 History of Art – Renaissance Through Rococo (5)

GER-HM

A concise chronological history of paintings, sculpture, drawings, printmaking and architecture from the early Renaissance of the 15th century to the Neoclassical style of the middle mark of the 19th century and related issues.

ART 245 History of Art – The Modern World (5)**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.

ART 260 Art in Motion: Real and Recorded (5)**GER-HM/Performance**

A studio laboratory course that will provide an introduction to basic concepts of time-based artwork using a variety of processes and media. Students explore concepts of sequence, performance, interactivity, process and documentation through video, audio and other time-based projects. Student research and critical discourse/theory will be an integral part of each project.

Astronomy**ASTR& 100 Survey of Astronomy (5)****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 Introduction to Astronomy (5)**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 Survey of Astrobiology (5)**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 The Solar System (5)

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 Stars, Galaxies and the Cosmos (5)

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 101 Introduction to Weather (5)

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 meteorology including solar radiation, temperature, air pressure, wind, clouds, precipitation, and severe weather. Environmental issues including global climate change will also be discussed. Appropriate for non-science and science majors. Lab included.

Biology

BIOL& 100 Survey of Biology (5)

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 General Biology w/Lab (5)

GER-NS

Prereq: Completed MATH 096 with a 2.0 or eligible for MATH 098 AND ENGL& 101. Completed CHEM& 100 with a 2.0 grade or better 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 Human Biology: Anatomy & Physiology (5)

GER-NS

(formerly BIOL 118)

Prereq: College level reading, by placement assessment or successful completion of READ 099.

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 Human Biology w/Lab: Anatomy & Physiology (5)

GER-NS

(formerly BIOL 120)

Prereq: College level reading, by placement assessment or successful completion of READ 099.

A comprehensive study of the human body, its structure and its function. A laboratory course appropriate for non-science majors or for students beginning study in life sciences.

BIOL& 211 Majors: Cellular (5)

GER-NS

Prereq: BIOL & 160 with a minimum grade of 2.0 is required; CHEM & 121 or CHEM & 139 with a minimum grade of 1.5, or instructor permission.

Structure and function of living cells including metabolism, genetics, differentiation and microevolution. For science majors. Lab included.

BIOL& 212 Majors: Animals (5)

GER-NS

Prereq: BIOL& 160 with a minimum grade of 2.0 is required; CHEM& 139 or CHEM& 121 with a minimum grade of 1.5, or instructor permission.

Examination and comparisons of the major animal taxa with emphasis on development, physiology, anatomy, taxonomy, adaptations and behavior. Examination and evidence for evolution. Lab and/or field excursions included.

BIOL& 213 Majors: Plant (5)**GER-NS**

Prereq: BIOL& 160 with a minimum grade of 2.0 is required; CHEM& 139 or CHEM& 121 with a minimum grade of 1.5, or instructor permission

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. Lab included.

BIOL& 241 Human Anatomy and Physiology 1 (6)**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. Lab 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 Human Anatomy and Physiology 2 (6)**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. Lab includes cardiovascular system of the cat and human, human hematology, urinalysis, immunology, respiratory, digestive (including chemistry) and reproductive systems.

BIOL& 260 Microbiology (5)

GER-NS

Prereq: BIOL& 160 and CHEM& 100 or instructor permission

Diversity, structure and physiology of beneficial and harmful microbes. Lab practice in identification of microbial species through culturing, staining and biochemical testing. Lab included.

Business

BTECA 116 Business English II (3)

Formerly: BUS 106

Prereq: BTECA 115 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.

BTECA 117 Business Mathematics (5)

Formerly: BUS 107

Prereq: MATH 054 with a 2.0 or higher.

Mathematics applications in banking, merchandising, inventory, depreciation and promissory notes. Introduction to simple statistics and the metric system.

BTECA 250 Business Communications (5)

Formerly: BUS 250

Prereq: Grade of 2.0 or better in BTECA 115 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& 101 Introduction to Business (5)

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 134 Introduction to Social Media (5)

Students explore emerging social media technologies and processes and study their application in a variety of contemporary organization and business settings. Students will explore how businesses evaluate and use social media as well as how to use and author content for online tools such as blogs, microblogs, collaboration mechanisms, podcasts, RSS feeds, video, bookmarking and other emerging web technologies. The course will also study how to use these technologies to monitor conversations on the Internet, engage online communities, identify influencers and establish thought leadership.

BUS 135 Introduction to Online Marketing (5)

How organizations use online marketing strategies including websites, media sharing, social media networking, search engine optimization, and online advertising to market goods and services.

BUS& 201 Business Law (5)

GER-SS

Prereq: ENGL& 101 or BTECA 115, with a 2.0 grade or better or instructor permission

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 240 Human Relations in the Workplace (5)

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 Global Business (5)

Introduction and essentials for the student interested in pursuing the study of international trade and culture.

BUS 260 Project Management I: Planning (5)

Prereq: Grade of 2.0 or better in BTECA 115 or ENGL& 101.

Introduce project management best practices from the Project Management Institute (PMI®) in the Project Management Body of Knowledge (*PMBOK*® Guide). Introduce project management Initiate and Plan Process Groups framework, terminology, concepts, the tools and techniques to build a project plan. Part one of a two part series.

BUS 261 Project Management II: Managing (5)

Prereq: BUS 260.

A continuation of the study of project management best practices from the Project Management Institute (PMI®) in the Project Management Body of Knowledge (*PMBOK*® Guide). Introduce project management Execute, Monitor/Control and Close Process Groups framework, terminology, concepts and the tools and techniques to build a project plan. Introduce the fundamentals of a project management scheduling tool. Part two of a two-part series.

BUS 279 Personal Finance and Money Management (5)

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

BTECA 100 Business Keyboarding: Key the Alphabet by Touch (1)

Formerly: BTECH 115A

Students use a computer keyboarding program to learn to keyboard by touch.

BTECA 101 Business Keyboarding: Key Numbers and Symbols by Touch (1)

Formerly: BTECH 115B

Prereq: BTECA 100 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.

BTECA 102 Keyboard Skill Development: Alpha and Technical Improvement (1)

Formerly: BTECH 116A

Prereq: BTECA 100 with grade of at least 2.0, or touch typing at 15 wpm, or instructor permission.

This course assists students with continuous development of keyboard speed, accuracy and technique.

BTECA 103 Keyboard Skill Development: Alphanumeric and Technical Improvement (1)

Formerly BTECH 116B

Prereq: BTECA 102 with grade of at least 2.0 or touch typing at 20 wpm, or instructor permission.

This course assists students with continuous development of keyboard speed, accuracy and technique.

BTECA 104 Keyboard Skill Development: Alphanumeric Improvement (1)

Formerly: BTECH 116C

Prereq: BTECA 102 with grade of at least 2.0 or touch typing at 20 wpm, or instructor permission.

This course assists students with continuous development of keyboard speed, accuracy and technique.

BTECA 105 Keyboard Skill Development: Further Alphanumeric Improvement (1)

Formerly: BTEVH 116D

Prereq: BTECA 102 with grade of at least 2.0 or touch typing at 20 wpm, or instructor permission.

Courses that assists students with continuous development of keyboard speed, accuracy and technique.

BTECA 106 PC Operating System: Navigating and Customized Operating Systems (1)

Formerly: BTECH 118A

Prereq: BTECA 100 and BTECA 101 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: Navigating and Customizing the Operating System.

BTECA 107 PC Operating System: Manage Files and Using Help (1)

Formerly: BTECH 118B

Prereq: BTECA 100 and BTECA 101 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: Managing Files and Using Help.

BTECA 108 PC Operating System: Using the Internet and Basic Apps (1)

Formerly: BTECH 118C

Prereq: BTECA 100 and BTECA 101 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: Using the Internet and Basic Applications.

BTECA 109 Introduction to Windows (3)

Formerly: BTECH 120

Prereq: BTECA 100 and BTECA 101 with a grade of 2.0 or better, or type by touch at 15 wpm and 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.

BTECA 110 Microsoft Word: Prepare and Edit Documents (1)

Formerly: BTECH 200A

Prereq: BTECA 109 with grade of at least 2.0, touch typing at 25 wpm, instructor permission.

Students can work through all levels of Microsoft Word features.

BTECA 111 Microsoft Word: Enhance and Customize Documents (1)

Formerly: BTECH 200B

Prereq: BTECA 110 or instructor permission.

Students can work through all levels of Microsoft Word features.

BTECA 112 Microsoft Word: Create Tables and Merge Documents (1)

Formerly: BTECH 200C

Prereq: BTECA 110 or instructor permission.

Students can work through all levels of Microsoft Word features.

BTECA 115 Business English I (5)

Formerly: BUS 105

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.

BTECA 121 Microsoft Excel: Prepare Format Basic Worksheets (1)

Formerly: BTECH 210A

Prereq: BTECA 110 with at least a 2.0 or instructor permission.

Students can choose to work through one or more Excel features.

BTECA 122 Microsoft Excel: Insert Formulas and Enhancements (1)

Formerly: BTECH 210B

Prereq: BTECA 121 with at least a 2.0 or instructor permission.

Students can choose to work through one or more Excel features.

BTECA 123 Microsoft Excel: Create Charts and Diagrams (1)

Formerly BTECH 210C

Prereq: BTECA 121 with at least a 2.0 or instructor permission.

Students can choose to work through one or more Excel features.

BTECA 130 Microsoft PowerPoint: Create and Modify a Powerpoint Presentation (1)

Formerly: BTECH 225A

Prereq: BTECA 110 with at least a 2.0, or instructor permission.

Students can choose to work through one or more PowerPoint topics.

BTECA 131 Microsoft PowerPoint: Format and Add Visual Element (1)

Formerly BTECH 225B

Prereq: BTECA 130 with at least a 2.0, or instructor permission.

Students can choose to work through one or more PowerPoint topics.

BTECA 132 Microsoft PowerPoint: Customize and Share a Presentation (1)

Formerly: BTECH 225C

Prereq: BTECA 130 with at least a 2.0, or instructor permission.

Students can choose to work through one or more PowerPoint topics.

BTECA 136 Ten-Key Mastery (1)

Formerly: BTECH 136

Learn to input data by touch on the computer keyboard ten-key pad. Focus will be on speed, accuracy, and proper technique when keying numeric data.

BTECA 140 Microsoft Access: Create and Modify a Database (1)

Formerly: BTECH 220A

Prereq: BTECA 110 with at least a 2.0, or instructor permission.

Students can choose to work through one or more Access topics.

BTECA 141 Microsoft Access: Create and Queries and Forms (1)

Formerly: BTECH 220B

Prereq: BTECA 140 with at least a 2.0, or instructor permission.

Students can choose to work through one or more Access topics.

BTECA 142 Microsoft Access: Create Reports, Charts and Web Pages (1)

Formerly: BTECH 220C

Prereq: BTECA 140 with at least a 2.0, or instructor permission.

Students can choose to work through one or more Access topics.

BTECA 145 Records and Database Management (5)

Formerly: BTECH 145

Prereq: BTECA 109, 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.

BTECA 150 Microsoft Outlook: Using E-Mail and the Calendar (1)

Formerly BTECH 226A

Prereq: BTECA 109 with grade of at least 2.0, touch typing at 25 wpm, instructor permission.

Students can choose to work through one or more Outlook topics.

BTECA 151 Microsoft Outlook: Managing Tasks, Contacts and Inbox (1)

Formerly: BTECH 226B

Prereq: BTECA 150 or instructor permission.

Students can choose to work through one or more Outlook topics.

BTECA 152 Microsoft Outlook: Customizing and Integrating Outlook (1)

Formerly: BTECH 226C

Prereq: BTECA 150 or instructor permission.

Students can choose to work through one or more Outlook topics.

BTECA 160 Business Document Formatting: Basic (1)

Formerly: BTECH 117A

Prereq: BTECA 100 with grade of at least 2.0 or touch typing at 20 wpm, or instructor permission.

Use word processing software to create basic and advanced business documents.

BTECA 161 Business Document Formatting: Advanced (1)

Formerly BTECH 117B

Prereq: BTECA 160 or instructor permission.

Use word processing software to create basic and advanced business documents.

BTECA 205 Office Procedures (3)

Formerly: BTECH 205

Prereq: BTECA 100, BTECA 101, BTECA 110, BTECA 121, BTECA 160 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.

BTECA 245 Cooperative Work Experience I (3)

Formerly: BTECH 245

Prereq: Permission from a Business Information Technology Instructor.

Emphasis on relating and applying the skills and attitudes learned in college to the workplace. Students complete a 90-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. Professional liability insurance required for this course. See instructor for more information.

BTECA 246 Cooperative Work Experience II (3)

Formerly: BTECH 246

Prereq: Completion or concurrent enrollment in BTECA 245.

Students work in an office setting related to their chosen Business Information Technology program(s). Emphasis continues from BTECA 245 on practicing the skills and attitudes learned in their college courses. Professional liability insurance required for this course. See instructor for more information.

BTECA 248 Business Information Technology Seminar I (2)

Formerly: BTECH 248

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 telephone techniques.

BTECA 249 Business Information Technology Seminar II (2)

Formerly: BTECH 249

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.

BTECM 149 Introduction to the Medical Office (5)

Formerly BTECH 149

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.

BTECM 150 Medical Terminology I (5)

Formerly: BTECH 150

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.

BTECM 151 Medical Terminology II (5)

Formerly: BTECH 151

Prereq: Grade of 2.0 or better in BTECM 150.

A continuation of BTECM 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.

BTECM 244 Medical Office Simulation (3)

Formerly: BTECH 244

Prereq: Permission from a Business Information Technology Instructor.

A capstone service learning course primarily focused on the cumulative application of skills of a medical office assistant including professional networking for future employment.

BTECM 250 Medical Forms and Referral Management (5)

Formerly: BTECH 250

Prereq: Grade of 2.0 or better in BTECM 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.

BTECM 254 CPT Coding (5)

Formerly: BTECH 254

Prereq: Grade of 2.0 in BTECM 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 health-care settings.

BTECM 255 Diagnosis Coding (5)

Formerly: BTECH 255

Prereq: Grade of 2.0 in BTECM 151.

Basic procedural coding for medical office and hospital billing. Students will learn entry-level current International Classification of Diseases, current revision, and Clinical Modification coding for physician's offices and outpatient health-care facilities.

BTECM 256 Advanced Billing and Coding (5)

Formerly: BTECH 256

Prereq: BTECM 254 or BTECM 255 with a grade of 2.0.

Advanced application of both diagnosis and procedural outpatient coding as well as the business of coding and billing. Students build their coding knowledge and skill through intensive coding practice and practical experience using the international

classification of diseases, current revision, clinical modification, current procedural terminology, and health care common procedure coding system manuals and applying those concepts to complex coding scenarios.

BTECM 257 Electronic Health Records (5)

Prereq: BTECA 109 or CIS 130.

This course will prepare students for the management of health information through the use of electronic health records. Students will complete common work tasks and practice data entry while creating a variety of electronic medical records (EMRs) in both inpatient and outpatient settings using training software. The course will also provide background on existing and evolving government-driven standards and regulations as they apply to the health-care environment.

Business Management

MNGT 130 Customer Relationship Management (5)

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 136 Online Selling and Web Usability (5)

Students will explore the concepts of website usability, create a foundation in user-centered design, information visualization, and concepts of interactive design and understand the role of users, business and technology. They will study the evolution of usability, map out the design process and consider design concepts such as navigation, presentation, etc. Students will also identify and explore methods and tools typically used by businesses to test and analyze website usability and online user behavior.

MNGT 137 Independent Contracting (3)

An introduction to running one's own business. Students will explore the techniques and responsibilities for successfully managing an independent career.

MNGT 138 Information Design for Business (5)

Students will explore techniques and strategies for effective technical writing and writing for the web. They will look at how the

use of typography, color, layout and design components influence the design of marketing pieces. They will learn the basic principles of information design for business and marketing and analyze how users read and process information on the web. They will study the pioneers of information design. The class will evaluate a variety of software and web applications used for web design, graphics creation and video editing. Students will create a multi-media marketing piece.

MNGT 139 Social Media Digital Content for Business (5)

Students will explore the creation of effective and engaging digital content including the tools, strategies and characteristics required to help consumers take action. They will look at the advantages and constraints of different types of communication mediums, and issues of ownership and copyright. They will explore software applications and apply fundamental graphic and information design principles to create effective marketing content. They will create a marketing portfolio.

MNGT 141 Professional Portfolio (3)

Prereq: BUS 134, MNGT 138, and 15 credits minimum of completed college-level credits or a certificate or instructor permission.

This course is a portfolio creation experience. Students will choose a portfolio platform and assemble and present a broad-based selection of significant student work for evaluation by the instructor and peers during the term of the course. A final professional portfolio will be presented for appraisal by industry experts and faculty and evaluated based on student performance and professional development. The final portfolio will reflect the depth and breadth of a student's educational growth over time and demonstrate mastery and application of the knowledge, skills and abilities developed while in a program of study. Portfolios may include, but are not limited to class projects, journals, writing samples, publishable scholarship, professional projects, multi-media presentations, annotated bibliographies and artistic endeavors.

MNGT 182 Creative Sales (5)

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 Professional Development (5)

Provides 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 Career Communication Skills (5)

Students will learn the essentials for professional communication through career skills strategies, oral presentations, individual projects and group exercises.

MNGT 194 Principles of Leadership (5)

Principles and techniques of leadership and supervision including leadership and motivation theory and application, strategic planning, team development, workplace diversity and conflict management.

MNGT 198 Work-Based Learning (3)

Prereq: MNGT 186 and MNGT 187

Students will pursue an organized career path plan by obtaining work experience in their chosen field. This course is for the Associate in Business Professional Technical degree students only.

MNGT 275 Introduction to Visual Promotion (5)

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 Employment Law: Human Resource Legal Issues (5)

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 278 Introduction to Labor Management Relations (5)

An overview of the elements and relationships which characterize workplace interactions between the workforce and management in the modern business organization.

MNGT 282 Principles of Marketing (5)

A study of the business activities concerned with the flow of goods and services from producers to consumers.

MNGT 283 Principles of Management (5)

Principles and practices of management as applied to for-profit and not-for-profit organizations. Real world scenarios in business are used to help the student apply principles to contemporary management problems.

MNGT 284 Small Business Planning (5)

Planning and organizing a small business to include developing a preliminary business plan.

MNGT 293 Retailing and Merchandising (5)

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 Human Resource Management (5)

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 Current Trends in Human Resources (5)

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& 100 Preparatory Chemistry (5)

GER-NS

Introductory course in chemistry for students intending to take CHEM& 121 and CHEM& 131. Discussion of basic chemical concepts including atomic structure, periodic properties, chemical bonding, and chemical nomenclature.

CHEM& 110 Chemical Concepts with Lab (5)**GER-NS**

The relationship of basic chemical concepts to issues in modern society will be discussed. Intended for non-science majors.

CHEM& 121 Intro to Chemistry (5)**GER-NS**

Prereq: CHEM& 100, high school chemistry or instructor permission. MATH 096 or MATH 098 or concurrent enrollment in MATH 098 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 Intro to Organic/Biochemistry (6)**GER-NS**

Prereq: CHEM& 121

Continuation of CHEM& 121. The course includes an introduction to organize functional groups and a study of carbohydrates, optical isomerism, lipids, proteins, enzymes, nucleic acids and metabolism. Lab included.

CHEM& 139 General Chemistry Prep (5)**GER-NS**

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 General Chemistry with Lab I (5)

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, thermochemistry, and an introduction to solutions. Lab included.

CHEM& 162 General Chemistry with Lab II (5)**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 General Chemistry with Lab III (5)**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 Organic Chemistry with Lab I (6)**GER-NS**

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 Organic Chemistry with Lab II (6)**GER-NS**

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 Organic Chemistry with Lab III (6)

GER-NS

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 biomolecules. Lab included.

College Success

COLLG 107 Study Skills for Math and Science (2)

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 College Success (3)

College Success is designed to prepare students to navigate the college system and enhance opportunities for success. The course emphasizes college success strategies, self assessment, goal setting, career exploration, effective study habits, campus resources, efficient use of online tools for learning, educational planning, and enrollment.

COLLG 111 TRiO College Success (5)

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, online learning styles, communication skills (oral, written, electronic), and self-awareness. Students cannot receive credit for both COLLG 110 and 111 toward degree requirements.

COLLG 112 College Transfer Planning (2)

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 Overcoming Math Anxiety (2)

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& 101 Introduction to Communications (5)

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 Introduction to Mass Media (5)

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 Intercultural Communication (5)

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 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 Public Speaking (5)

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 Small Group Communication (5)

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 131 Introduction to Personal Computers (1)

Introduction to personal computer terminology, hardware components and software. Students will also gain hands-on practice using the Windows operating system, word processing, spreadsheets and internet browser software.

Computer Information Systems

CIS 103 Online Learning: Getting Started (2)

Prereq: Regular access to the Internet; familiarity with Web and email

Through an introductory online experience, the student will learn about how courses work and the personal preparation required for successful learning. Topics covered include technical preparation, navigating the course environment, 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 into their educational activities.

CIS 110 Introduction to Microcomputer Business Applications (3)

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 Introduction to Computer Information Systems (5)

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 Introduction to Computer Programming (5)

Prereq: CIS 121 and MATH 096 or 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 Introduction to Object Oriented Programming (OOP) (5)

Prereq: CIS 122 with 2.0 or higher 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 Productivity Software (5)

Prereq: CIS 110 or CIS 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 and note taking purposes using various local and cloud-based storage.

CIS 134 Computer Operating Systems (5)

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 Spreadsheet Applications (3)

Prereq: MATH 096 or higher; or instructor permission.

This course introduces basic spreadsheet design and development. Topics will include creation and manipulation of spreadsheets, conversion to charts and graphs, and creation of macros.

CIS 155 Special Topics in Computer Information Systems (5)

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 Intermediate Object Oriented Programming (OOP) (5)

Prereq: CIS 123 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 210 Business Analysis (5)

Prereq: CIS 130 with 2.0 or higher and BUS 240, other Human Relations course; or instructor permission.

A study of the Business Analyst profession and generally accepted best practices. This course addresses analysis of the business environment, definition of stakeholder needs and recommendation for IT solutions that enable the organization to achieve its goals.

CIS 215 Client-Side Web Development (5)

Prereq: CIS 122 with a 2.0 or higher; or instructor permission.

Addresses Web forms utilizing HTML; dynamic client-side Web forms that utilize JavaScript and JQuery; server-side code that can receive, process and return Extensible Markup Language (XML) data from the client-side; relevant object models and creation of multiple forms to move data; Web forms that utilize techniques such as cascading style sheets; separation of the presentation and application layers; error handling; Simple Object Access Protocol (SOAP) and Representational State Transfer (REST).

CIS 216 Server-Side Web Development (5)

Prereq: CIS 123 and CIS 215, both with a 2.0 or higher; or instructor permission.

This course covers the fundamental concepts of server-side web development using ASP.NET, through practical application. Topics will include using session state, connecting web pages to a database, and using error handling.

CIS 260 Database Management Systems (5)

Prereq: CIS 122, or concurrent, with 2.0 or above, or instructor permission.

Concepts, theory, analysis and design of relational database management systems (RDBMS). This project-based class explores Entity Relationship modeling and database design fundamentals. Practical application includes case study analysis within the health-care industry and comparison to other industries as applicable.

CIS 261 Structured Query Language (5)

Prereq: CIS 122 or CIS 123, and CIS 260, each with 2.0 or better (may be taken concurrently); or instructor permission.

Introduction to Structured Query Language (SQL), the industry-standard language for storing, retrieving, displaying, and updating data in a relational database. Includes an introduction to extensions to standard SQL such as a procedural language extension such as Procedural Language-SQL PL/SQL or Transact-SQL (T-SQL).

CIS 262 Database Administration Backup and Recovery (5)

Prereq: CIS 260 and CIS 261, each with 2.0 or above, or instructor permission

This course addresses the key tasks and functions required of a database administrator in a production environment. Students will

gain experience creating and implementing a database, managing data, expanding the size of the database, implementing basic security and data integrity measures, and granting data access privileges to individual users.

CIS 264 CIS Project Capstone (5)

Prereq: CIS 262 and CIS 269 both with 2.0 or higher; or instructor permission.

Project-based capstone course. Students will demonstrate proficiency of prior core course outcomes by analyzing, designing, developing, implementing and evaluating a real-life data driven application project using one or more software development life cycles.

CIS 265 Data Communications and Networks (5)

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 269 Advanced SQL Programming and Tuning (5)

Prereq: CIS 261 with 2.0 or better; or instructor permission

An advanced course in Structure Query Language (SQL). Students will develop script files, stored procedures, and procedural language units, as well as diagnose and tune performance problems.

CIS 270 Wireless Networking (5)

Prereq: CNE 242 with a 2.0 or higher; or instructor permission.

This course introduces Radio Frequency (RF) and 802.11 technology essentials along with installing, configuring, monitoring and basic troubleshooting tasks needed to support small to medium business and enterprise wireless networks.

CIS 275 Business Analytics/Intelligence (5)

Prereq: CIS 261 and CIS 136, both with a 2.0 or higher; or instructor permission.

Practical application developing business intelligence (BI) solutions, including data cleansing, Extract Transform Load (ETL), and Data Warehouse implementation. BI tools will be used for reporting (SSRS), integration (SSIS), and analysis (SSAS). Cubes and marts will be created to feed presentation layers for dashboards and Key Performance Indicators (KPIs) providing needed user analytics.

CIS 280 Systems Analysis and Design (5)

Prereq: CIS 210 with 2.0 or above; or instructor permission.

This course introduces students to a systematic approach to defining needs, creating specifications and designing information systems. Course discussion and hands-on case studies providing practical knowledge and experience. Waterfall and agile systems analysis and design techniques will be used to develop and document effective computer-based information systems projects. Students will also learn project management standards and create project plans using currently available project management application software.

CIS 290 Supervised Internship (5)

Prereq: CIS majors only with instructor or CIS program coordinator permission.

This 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 155 Special Topics Related to Computer Network Engineering (5)

Prereq: Instructor permission only.

Detailed coverage of important and/or evolving topics in computer network engineering.

CNE 231 Implementing Windows Client Operating Systems (5)

Prereq: CIS 265 with a grade of at least 2.0 or instructor permission

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 Installing and Configuring Windows Server (5)

Prereq: CIS 265 or CNE 241 with a grade of at least 2.0, or instructor permission.

Install and configure Windows Server with Active Directory, Network Services, Local Storage, File and Print Services, Group Policy and virtualization.

CNE 235 Administering Windows Server (5)

Prereq: CNE 232 with a grade of at least 2.0 or instructor permission.

Administer Windows Server, Active Directory, DNS, Remote Access, Network Policy Server, File System Security and Update Management.

CNE 237 Configuring Advanced Windows Server Services (5)

Prereq: CNE 232 with a grade of 2.0 or better or instructor permission.

This course addresses the implementation of advanced Windows Server services. Students will install, configure and administer advanced Windows Server services including network services, file services, dynamic access control, network load balancing, failover clustering, disaster recovery, Active Directory Certificate Services, and Active Directory Federation Services.

CNE 238 Designing Security for a Windows Network (5)

Prereq: CNE 232 with 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 Computer Hardware Troubleshooting (5)

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 241 CNA 1: Introduction to Networks (5)

Prereq: CIS 121 (or concurrent with CIS 121); or instructor permission.

This is the first of a four-course sequence designed to prepare students for the Cisco CCNA certification. This course introduces the architecture, structure, functions, components and models of the Internet and other computer networks. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media and operations are introduced to provide a foundation for the curriculum. By the end of the course, students will be able to build simple local area networks (LANs), perform basic configurations for routers and switches, and implement IP addressing schemes.

CNE 242 CCNA 2: Routing and Switching Essentials (5)

Prereq: CNE 241 with grade of 2.0 or better, or instructor permission.

This is the second of a four course sequence designed to prepare students for the Cisco CCNA certification. This course describes the architecture, components and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with Routing Information Protocol (RIPv1, RIPv2), single area and multi-area Open Shortest Path First (OSPF), Virtual Local Area Networks (VLAN), and inter-VLAN routing in both IPv4 and IPv6 networks.

CNE 243 CCNA 3: Scaling Networks (5)

Prereq: CNE 242 with grade of 2.0 or better, or instructor permission.

This is the third of a four-course sequence designed to prepare students for the Cisco CCNA certification. This course describes the architecture, components and operations of routers and switches in a larger and more complex network. Students learn how to configure routers and switches for advanced functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with OSPF, Enhanced Interior Gateway Routing Protocol (EIGRP), Spanning Tree Protocol (STP), and Virtual Trunking Protocol (VTP) in both IPv4 and IPv6 networks. Students will also develop the knowledge and skills needed to implement DHCP and DNS operations in a network.

CNE 244 CCNA 4: Connecting Networks (5)

Prereq: CNE 243 with grade of 2.0 or better, or instructor permission.

This is the last of a four course sequence designed to prepare students for the Cisco CCNA certification. This course discusses the Wide Area Network (WAN) technologies and network services required by converged applications in a complex network. The

course enables students to understand the selection criteria of network devices and WAN technologies to meet network requirements. Students learn how to configure and troubleshoot network devices and resolve common issues with data link protocols. Students will also develop the knowledge and skills needed to implement IP Security (IPSec) and virtual private network (VPN) operations in a complex network.

CNE 246 Designing and Implementing a Server Infrastructure (5)

Prereq: CNE 232 with a 2.0 grade or better or instructor permission.

This course teaches students the skills and knowledge necessary to design and implement a Windows Server Infrastructure.

CNE 247 Windows Server Enterprise Administration (5)

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 Infrastructure.

CNE 251 Unix Administration (5)

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 set up, manage and use basic network services, including security and email.

CNE 254 Fundamentals of Network Security (5)

Prereq: CIS 265 with a grade of at least 2.0 or instructor permission.

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 260 Cisco CCNA Security (5)

Prereq: CNE 242 with a 2.0 grade or better, or instructor permission.

This course provides an introduction to the core security concepts and skills needed for the installation, troubleshooting, and monitoring of network devices to maintain the integrity, confidentiality, and availability of data and devices, with an emphasis on Cisco routers and Adaptive Security Appliances.

CNE 270 Wireless Networking (5)

Prereq: CNE 242 with a 2.0 grade or better, or instructor permission.

This course introduces Radio Frequency (RF) and 802.11 technology essentials along with installing, configuring, monitoring and basic troubleshooting tasks needed to support small to medium business and enterprise wireless networks.

CNE 290 Supervised Internship (5)

Prereq: CNE Majors Only.

Supervised work experience of 25 hours per week in a network support environment (250 hours).

Computer Science

CS& 141 Computer Science I (5)

Prereq: MATH& 141 with a grade of 2.0 or better, 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 one or more software development life cycle methodologies, and lab assignments to allow the student to interact with computer technology, hardware and concepts.

CS 202 Computer Science II (5)

Prereq: CS& 141 with a 2.0 or higher; or instructor permission.

Introduction to Object Oriented Programming (OOP). Application of the concepts of inheritance, polymorphism, abstraction and encapsulation. Addresses classes, objects and methods utilizing maintainability/modularization/and reusability techniques. Introduces techniques for effective program coding; testing and establishing error handling techniques.

Construction Management

CONST 101 Introduction to Construction Management (5)

Prereq: ENGL 099 with a grade of 2.0 or better or placement into ENGL& 101, MATH 054 with a grade of 2.0 or better or placement into MATH 096. Completion of BTECA 110, BTECA 111 or instructor permission.

Construction management processes are introduced, including industry terminology, business practices, estimating/bidding, scheduling, project management, field operations and career pathways.

CONST 140 Construction Drawings: Print Reading (5)

Prereq: ENGL 099 with a grade of 2.0 or better or placement into ENGL& 101, MATH 054 with a grade of 2.0 or better or placement into MATH 096. Completion of BTECA 110, BTECA 111 or instructor permission.

Introduction to construction drawings with emphasis on reading, interpreting and communicating the content of the documents.

CONST 150 Construction Documents (5)

Prereq: 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 Materials and Methods (5)

Prereq: 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 Building Codes (5)

A study of the application and administration of electrical, plumbing and mechanical codes.

CONST 198 Work-Based Learning (3)

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 Estimating (5)

Prereq: CONST 150 and CONST 160, with a 2.0 or better and completion of BTECA 121, BTECA 122, BTECA 123 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 project.

CONST 230 Scheduling and Planning (5)

Prereq: CONST 200

Principles of scheduling and planning to control and manage a construction project.

CONST 250 Construction Safety and Accident Prevention (3)

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 Construction Project Management (5)

Prereq: CONST 230

Project organization, documentation and control methods utilized to manage all facets of a project from start to completion.

CONST 270 Introduction to Virtual Design and Construction (3)

Prereq: CONST 101, CONST 140, CONST 150, and CONST 160 all with a grade of 2.0 or better or instructor/program coordinator permission.

Virtual Design and Construction (VDC)\Building Information Modeling (BIM) are introduced. Students will gain an understanding of how these construction management processes improve the coordination and control of a construction project.

CONST 271 Basic Modeling (5)

Prereq: CONST 270 with a grade of 2.0 or better or instructor/program coordinator permission.

Students are introduced to various BIM tools, BIM platforms and basic model modification and creation.

CONST 272 Intermediate Modeling (5)

Prereq: CONST 271 with a minimum grade of 2.0 or instructor/coordinator permission.

Students will learn intermediate to advanced model creation from the focus of a general or specialty contractor.

CONST 274 Model Based Collaboration (5)

Prereq: CONST 272 with a minimum grade of 2.0 or instructor/program coordinator permission.

Students will use the building model and other building information modeling (BIM) tools and platforms for project collaboration and management of project information.

CONST 275 Model Integration: Estimation and Scheduling (5)

Prereq: CONST 274 with a minimum grade of 2.0 or instructor/program coordinator permission.

Students will learn to use BIM tools and platforms to manage, schedule and control construction projects.

Criminal Justice

CJ 102 Introduction to Criminal Law (5)

Basic introduction to the elements of criminal law and justice in the United States.

CJ 103 Criminal Justice: Success Seminar (1)

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& 105 Corrections in America (5)

GER-SS

(formerly CJ 140)

A study of the theories and practices in the correctional field in the United States. Surveys programs, issues and trends relating to the corrections field, including state and federal legislation and employment prospects.

CJ 112 Criminal Justice in America (5)

GER-SS

An examination of the Criminal Justice system with specific emphasis on the theories and principles of criminology; programs, issues and trends relating to the criminal justice system; structures, functions and actors of the United States, state and federal courts; and the impact of state and federal legislation.

CJ 115 Juvenile Justice System (5)

A historical and ideological examination of the juvenile justice system in the United States: analysis of policies, practices, laws, treatments, rights, current research, partner agencies and their impact upon crime, juveniles and the community.

CJ 120 Constitutional Rights (5)

An examination of the evolution and current judicial interpretation of the first, second, fourth, fifth, sixth, eighth and fourteenth Amendments to the United States Constitution. Compare and contrast the basic principles and theoretical foundations of Constitutional Law versus Restorative Justice.

CJ 128 Criminal Justice Wellness (5)

An introductory course designed to build the physical requirements for work in criminal justice agencies through the application of personal wellness plans.

CJ 130 Criminal Justice Operational Skills (5)

Prereq: Instructor permission.

Identification of practical applications for solutions to frequent criminal justice tasks and problems. Emphasizes use of information gathering, communications, problem solving and decision-making skills.

CJ 144 Corrections Special Populations and Case Management (5)

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 Policing in America (5)

An examination of the history, philosophy and current practices of policing, including the social, political, organizational and legal environments where the police perform their roles in the United States.

CJ 200 Crime and Justice in America: Issues (5)

Prereq: ENGL& 101

This course examines issues of social justice and privilege (race, gender, class, sexual orientation, etc.) and the effect upon self, clients, systems and public policy.

CJ 202 Concepts of Criminal Law (5)

GER-SS

An analysis of the fundamental concepts of both English Common Law and current statutory criminal law and defenses. To include: scope and nature of law; classification of offense; acts and intents and elements of major criminal statutes.

CJ 205 Investigative Technology (5)

An analysis of the history of crime science investigations, practical use of technical equipment and scientific methods to assist in crime detection. This includes fingerprint identification, fingerprinting, casting, sketching and crime scene photography.

CJ 215 Drugs and Society (5)

An analysis of political and social conditions, drug trafficking, laws and current treatment philosophies regarding drug use, abuse, addiction and recovery.

CJ 220 Special Topics in Criminal Justice (2)

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 221 Special Topics in Criminal Justice (3)

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 222 Special Topics in Criminal Justice (4)

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 223 Special Topics in Criminal Justice (5)

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 Victimology and Advocacy (5)

An overview of current victim issues, laws, resources, treatments, recovery and advocacy for victims of crime and other social problems.

CJ 226 Criminal Justice Response to Terrorism (5)

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 Funding and Program Development for Crime Prevention (5)

A course designed to familiarize students with the basics of the grant funding process for social programs (state and federal), and how to develop a prevention idea into a program that can be funded and measured.

CJ 228 Community Emergency Response Teams (2)

Basic skills needed to respond to a community's and individual's immediate needs in the aftermath of a disaster when emergency services are not immediately available.

CJ 245 Introduction to Investigation and Evidence (5)

Prereq: CJ 112

A survey of the laws governing the admission of evidence, federal rules of evidence, requirements for presenting and ensuring the reliability of various types of evidence (such as witness competence, questioning, objections, best evidence requirements for documents, exceptions, exclusions, etc.). Analysis of case decisions on the collection and presentation of evidence in criminal trials, and the application of laws to the law enforcement profession.

CJ 250 Criminal Justice Work-Based Learning (3)

Prereq: Program coordinator or instructor approval required.

On the job experience in a criminal justice agency that allows students to apply criminal justice theories to practice.

CJ 251 Criminal Justice Work-Based Learning (4)

Prereq: Program coordinator or instructor approval required.

On the job experience in a criminal justice agency that allows students to apply criminal justice theories to practice.

CJ 252 Criminal Justice Work-Based Learning (5)

Prereq: Program coordinator or instructor approval required.

On the job experience in a criminal justice agency that allows students to apply criminal justice theories to practice.

CJ 253 Criminal Justice Work-Based Learning (6)

Prereq: Program coordinator or instructor approval required.

On the job experience in a criminal justice agency that allows students to apply criminal justice theories to practice.

CJ 254 Criminal Justice Work-Based Learning (7)

Prereq: Program coordinator or instructor approval required.

On the job experience in a criminal justice agency that allows students to apply criminal justice theories to practice.

CJ 255 Criminal Justice Work-Based Learning (8)

Prereq: Program coordinator or instructor approval required.

On the job experience in a criminal justice agency that allows students to apply criminal justice theories to practice.

CJ 260 Law Enforcement Operational Skills: Explorer/Cadet (5)

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. Professional liability insurance required for this course. See instructor for more information.

CJ 280 Criminal Justice Culminating Project (1)

Prereq: Must have taken or be currently completing all core Criminal Justice courses prior to this course. Successful completion of BTECA 130 or proficiency in PowerPoint demonstrated prior to registration. Instructor permission is required.

Students will complete and deliver to the college and industry personnel their culminating portfolio project which demonstrates student learning of all outcomes (FAK, PTO, and CAO) for all specified criminal justice degree(s) or certificate(s).

Dental Hygiene

DHYG 271 Health Care Foundations (4)

Prereq: Acceptance into the Bachelor of Applied Science in Dental Hygiene program.

This course introduces the student to the foundational theory, laws and regulations required of all health-care employees, but specifically, oral health-care employees in Washington state. It includes management of medical emergencies and infection control for the dental hygiene professional. The student's knowledge of personal, professional and community issues related to HIV disease are outlined as per the core curriculum of the WA State AIDS Omnibus ACT. This course meets state mandated HIV/AIDS curriculum as outlined in WAC 246-12-270 for dental hygiene licensure. It is the first in a series of eight linked courses.

DHYG 272 Dental Imaging I (3)

Prereq: Admittance into Bachelor of Applied Science in Dental Hygiene.

An introductory course in dental radiology, the first in a two-course series. Includes the history and principles of dental radiology, study of biological effects and patient safety, recommendations for dental radiographic examinations, evaluation and interpretation of dental radiographs, and clinical, digital intra-oral dental radiographic techniques.

DHYG 273 Oral Disease Prevention and Cariology I (2)

Prereq: Current accepted student in Bachelor of Applied Science in Dental Hygiene program.

Introduction to the basic principles of dental disease prevention. The relationship between cariology and preventive oral health concepts are introduced. An integrated component is scientific inquiry of quantitative and qualitative data using American Psychological Association (APA) guidelines.

DHYG 274 Biological Structures I: Dental Anatomy (1)

Prereq: Admittance into Bachelor of Applied Science in Dental Hygiene.

This is the first in a series of three courses. This course provides a comprehensive study of the human dentitions including primary and permanent tooth names, numbering conventions, eruption sequences, morphology and anatomy.

DHYG 277 Restorative Dentistry and Dental Materials I (3)

Prereq: Admittance into Bachelor of Applied Science in Dental Hygiene.

Develops foundational knowledge in restorative including properties of dental materials, chairside assisting and fabrication of select therapeutic oral devices.

DHYG 282 Dental Imaging II (2)

Prereq: Successful completion of DHYG 272 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

Second in a two course series focused on continued development of dental imaging techniques. Includes dental extra-oral and intraoral photography, intra-oral video imaging, advanced radiographic interpretation and evaluation to assist in treatment planning, techniques for special populations, oral cancer screening techniques and dental imaging film exposing, processing, and mounting techniques.

DHYG 283 Oral Disease Prevention and Cariology II (1)

Prereq: Successful completion of DHYG 273 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

This course continues to develop the principals of oral disease prevention, and includes an introduction of current skills/techniques for caries prevention. An integrated component is scientific inquiry of quantitative and qualitative data using American Psychological Association (APA) guidelines.

DHYG 284 Biological Structures II: Head and Neck Anatomy (2)

Prereq: Successful completion of DHYG 274 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in the Bachelor of Applied Science in Dental Hygiene program.

This is the second in a series of three courses. This course provides a comprehensive study of the structures and functions of the anatomy of the human head and neck region including oral structures, osteology, lymphatic system, salivary glands, muscles, arterial, venous, and nervous systems.

DHYG 287 Restorative Dentistry and Dental Materials II (3)

Prereq: Successful completion of DHYG 277 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

Develops foundational knowledge and skills in restorative dentistry for the expanded functions dental hygienist. Introduces the placement and finishing of dental amalgam restorations and composite restorations on the adult dentition.

DHYG 300 Fundamentals of Dental Hygiene Theory I (2)

Prereq: Successful completion of DHYG 271 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

The second in a series of eight linked courses to introduce and develop foundational knowledge and comprehension of dental hygiene theory and facilitate the growth of introductory dental hygiene clinical skills required for the safe and effective practice of dental hygiene in all clinical settings. Collect and analyze quantitative and qualitative data using (American Psychological Association) APA guidelines. Initial enrollment in this course must be for maximum credits.

DHYG 301 Fundamentals of Dental Hygiene Practice I (5)

Prereq: Successful completion of DHYG 271 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

The first in a series of seven linked courses to develop introductory dental hygiene clinical skills required for the safe and effective practice of dental hygiene. This course applies knowledge in dental hygiene theory and science from DHYG 310. Collect and analyze quantitative and qualitative data using American Psychological Association (APA) guidelines.

DHYG 305 General Pathology (2)

Prereq: Successful completion of DHYG 271 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

An introduction to the mechanisms of diseases, including basic genetics, and the recognition of characteristics of diseases encountered in the practice of dental hygiene.

DHYG 310 Fundamentals of Dental Hygiene Theory and Science II (2)

Prereq: Successful completion of DHYG 300 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

The third in a series of eight linked courses to further develop foundational knowledge and comprehension of dental hygiene theory and science in order to facilitate the growth of introductory dental hygiene clinical skills required for the safe and effective practice of dental hygiene. Collect and analyze quantitative and qualitative data using American Psychological Association (APA) guidelines.

DHYG 311 Fundamentals of Dental Hygiene Practice II (6)

Prereq: Successful completion of DHYG 301 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

The second in a series of seven linked courses to continue development of introductory dental hygiene clinical skills required for the safe and effective practice of dental hygiene. Collect and analyze quantitative and qualitative data using American Psychological Association (APA) guidelines.

DHYG 314 Biological Structures III: Embryology and Histology (2)

Prereq: Successful completion of DHYG 284 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

This is the third in a series of three courses. Content continues a comprehensive study of structures and functions of the human head and neck region and oral structures. These fundamentals are the building blocks for understanding the elements of healthy oral tissues and related pathology. An understanding of embryology is a key to understanding the etiology of many common congenital defects affecting the head, neck, face, oral structures and/or the teeth.

DHYG 315 Oral Pathology (2)

Prereq: Successful completion of DHYG 305 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

An introduction to the pathologic processes (including genetics), the recognition of oral diseases and oral manifestations of commonly encountered systemic diseases, and their considerations to the practice of dental hygiene.

DHYG 316 Pharmacology (3)

Prereq: Successful completion of DHYG 271 and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

The general pharmacology and therapeutic action of drugs used and encountered in dental and dental hygiene practice.

DHYG 317 Restorative Dentistry I (1)

Prereq: Successful completion of DHYG 287 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

Facilitates the growth of developing skills from DHYG 277 and DHYG 287 in the placement, carving and polishing of dental amalgam restorations on the adult dentition, and the placement, finishing and polishing of composite restorations on the adult dentition in a lab setting.

DHYG 318 Education Methodologies I: Patient Centered Care (1)

Prereq: Successful completion of DHYG 283 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

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 320 Fundamentals of Dental Hygiene Theory III (2)

Prereq: Successful completion of DHYG 310 as per the current Dental Hygiene Department Policy on Academic Standards as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

The fourth in a series of eight linked courses to further develop foundational knowledge and comprehension of dental hygiene theory and science in order to facilitate the growth of introductory dental hygiene clinical skills required for the safe and effective practice of dental hygiene. Collect and analyze quantitative and qualitative data using American Psychological Association (APA) guidelines.

DHYG 321 Fundamentals of Dental Hygiene Practice III (6)

Prereq: Successful completion of DHYG 311 as per the current Dental Hygiene Department Policy on Academic Standards as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

The third in a series of seven linked courses to further develop foundational knowledge and comprehension of dental hygiene theory and facilitate the growth of introductory dental hygiene clinical skills required for the safe and effective practice of dental

hygiene in all clinical settings. Collect and analyze quantitative and qualitative data using American Psychological Association (APA) guidelines. Initial enrollment in this course must be for maximum credits.

DHYG 325 Introduction to Periodontology I (3)

Prereq: Successful completion of DHYG 311 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

First in a series of three courses, DHYG 325, DHYG 405 and DHYG 415, 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 and periodontal instrumentation.

DHYG 326 Pain Management I: Local Anesthesia (3)

Prereq: Successful completion of DHYG 311 and DHYG 316 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

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 327 Restorative Dentistry II (1.5)

Prereq: Successful completion of DHYG 317 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

Development of advanced techniques in the placement, carving and polishing of dental amalgam restorations on the adult dentition and introductory techniques for the primary dentition, the placement, finishing and polishing of composite restorations on the adult dentition, and dental restorative theories related to advanced techniques and procedures of modern dental materials.

DHYG 328 Research Methodologies (2)

Prereq: Successful completion of DHYG 318 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

An introduction to the basic principles of oral health research design. The course includes public health theory and practice, determinants and indicators of health disparities, epidemiology, biostatistics, prevention and management of oral diseases.

DHYG 400 Dental Hygiene Theory and Nutrition (1.5)

Prereq: Successful completion of DHYG 320 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

The fifth in a series of eight linked courses to increase knowledge and comprehension of complex dental hygiene theory and science in order to facilitate the growth of advanced dental hygiene clinical skills required for the safe and effective practice of dental hygiene. Collect and analyze quantitative and qualitative data using American Psychological Association (APA) guidelines.

DHYG 401 Dental Hygiene Practice (6)

Prereq: Successful completion of DHYG 321 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

The fourth in a series of seven linked courses focused on advanced development of knowledge and dental hygiene clinical skills learned in DHYG 301, DHYG 311 and DHYG 321, required for the safe and effective practice of dental hygiene in a supervised clinical setting.

DHYG 405 Introduction to Periodontology II (2)

Prereq: Successful completion of DHYG 325 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

Second in a series of three periodontology courses, DHYG 325, 405 and 415, providing the dental hygienist information on recognition and therapy of periodontal diseases. Content includes non-surgical periodontal therapy, root morphology and the associated complications and variations to treatment.

DHYG 406 Pain Management II: Nitrous Oxide Sedation (1)

Prereq: Successful completion of DHYG 316 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science 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 407 Restorative Dentistry III (1.5)

Prereq: Successful completion of DHYG 327 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

Continued development of advanced techniques in the placement, carving and polishing of dental amalgam restorations and composite restorations on the adult dentition. Introduction of dental restorative theories related to advanced techniques and procedures of modern dental materials. A basic overview of endodontics and vitality testing included as part of assessing a patient's pain complaint.

DHYG 409 Ethics and Critical Reasoning (2)

Prereq: Current enrollment in the Bachelor of Applied Science Dental Hygiene program.

An integrative, critical reasoning and self-reflective course which focuses on the ethical and legal issues facing the dental hygienist of today and in the future.

DHYG 410 Advanced Dental Hygiene Theory and Practice Management I (1)

Prereq: Successful completion of DHYG 400 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

The sixth in a series of eight linked courses to increase knowledge and comprehension of complex dental hygiene theory, science and practice management in order to facilitate the growth of advanced dental hygiene clinical skills required for the safe and effective practice of dental hygiene. Collect and analyze quantitative and qualitative data using American Psychological Association (APA) guidelines.

DHYG 411 Advanced Dental Hygiene Practice I (7)

Prereq: Successful completion of DHYG 401 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

The fifth in a series of seven linked courses focused on advanced development of knowledge and dental hygiene clinical skills learned in DHYG 301, 311, 321 and 401, and required for the safe and effective practice of dental hygiene in a supervised clinical setting. Collect and analyze quantitative and qualitative data using American Psychological Association (APA) guidelines. Initial enrollment in this course must be for maximum credits.

DHYG 415 Advanced Periodontology (2)

Prereq: Successful completion of DHYG 405 as per the current Dental Hygiene Department Policy on Academic Standards and

current enrollment in Bachelor of Applied Science in Dental Hygiene program.

A continuation of DHYG 325 and 405 focused on advanced, scientific methods and technology used in dental hygiene examination, diagnosis and treatment of patients with periodontal diseases.

DHYG 416 Pain Management III: Adjunctive Techniques (.5)

Prereq: Successful completion of DHYG 326 and DHYG 406 as per the current Dental Hygiene Department Policy on Academic Standards.

This course builds on the foundations of Pain Management I (DHYG 326). 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.

DHYG 417 Clinical Restorative Dentistry I (2)

Prereq: Successful completion of DHYG 407 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

First in a series of three courses providing a culmination of the information and skills learned in didactic, lab and clinic settings from DHYG 277, 287, 317, 327 and 407, and transferred to beginning clinical restorative skills in the placement, carving and polishing of amalgam restorations and the placement and finishing of composite restorations on patients.

DHYG 418 Education Methodologies II: Service Learning and Special Populations (3)

Prereq: Successful completion of DHYG 318 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

An exploration of educational methodologies including a special focus regarding the physical, intellectual and health status changes in the aging process. Further addresses dental management issues of special needs patients in dental related settings. Aging strategies and disease prevention theories are employed to develop oral health curriculum for any patient and/or caregivers in institutional, assisted-living, and family-centered settings. Further develops the dental hygienist as an integral member of the global health-care team.

DHYG 420 Advanced Dental Hygiene Theory and Practice Management II (2)

Prereq: Successful completion of DHYG 410 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

The seventh in a series of eight linked courses to increase knowledge and comprehension of advanced dental hygiene theory, science and practice management in order to facilitate the growth of increasingly complex dental hygiene clinical skills required for the safe and effective practice of dental hygiene. Collect and analyze quantitative and qualitative data using American Psychological Association (APA) guidelines.

DHYG 421 Advanced Dental Hygiene Practice II (7)

Prereq: Successful completion of DHYG 411 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

The sixth in a series of seven linked courses to further develop advanced dental hygiene clinical skills required for the safe and effective practice of dental hygiene. Collect and analyze quantitative and qualitative data using American Psychological Association (APA) guidelines.

DHYG 427 Clinical Restorative Dentistry II (2)

Prereq: Successful completion of DHYG 417 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

Second in a series of three courses providing a culmination of the information and skills learned in didactic, pre-clinic and clinic settings from DHYG 277, 287, 317, 327, 407, 417, and transferred to developing clinical restorative skills in the placement, carving and polishing of amalgam restorations and the placement and finishing of composite restorations on patients.

DHYG 428 Service Learning: Health Care Teams Practicum (2)

Prereq: Successful completion of DHYG 418 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

An integration of instructional and research application. Entails exploring the role of the dental hygienist in public health agenda, community outreach services, advocacy, and business management as an integral member, leader, and agent of change in the inter-disciplinary healthcare team. Collect and analyze quantitative and qualitative data using American Psychological Association (APA) guidelines.

DHYG 430 Advanced Dental Hygiene Theory and Practice Management III (2)

Prereq: Successful completion of DHYG 420 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

The eighth in a series of eight linked courses to increase knowledge and comprehension of advanced dental hygiene theory, science and practice management in order to facilitate the growth of increasingly complex dental hygiene clinical skills required

for the safe and effective practice of dental hygiene. Collect and analyze quantitative and qualitative data using American Psychological Association (APA) guidelines.

DHYG 431 Advanced Dental Hygiene Theory Practice III (7)

Prereq: Successful completion of DHYG 421 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

The seventh in a series of seven linked courses to further develop competence in dental hygiene clinical skills required for the safe and effective practice of dental hygiene. Collect and analyze quantitative and qualitative data using American Psychological Association (APA) guidelines.

DHYG 437 Clinical Restorative Dentistry III (2)

Prereq: Successful completion of DHYG 427 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

Third in a series of three courses providing a culmination of the information and skills learned in didactic, pre-clinic and clinic settings from DHYG 277, 287, 317, 327, 407, 417, 427, and transferred to developing clinical restorative skills in the placement, carving and polishing of amalgam restorations and the placement and finishing of composite restorations on patients.

DHYG 438 Community Oral Health Practicum (1)

Prereq: Successful completion of DHYG 428 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

A course incorporating dental public health agenda and the development and implementation of community based targeted outreach services.

DHYG 439 Senior Seminar Capstone (1)

Prereq: Successful completion of DHYG 428 as per the current Dental Hygiene Department Policy on Academic Standards and enrollment in the Bachelor of Applied Science in Dental Hygiene program.

Develop career strategies and leadership to build interdisciplinary teams that expand the vision of oral health professionals, culminating in a capstone project as part of an exiting ePortfolio.

DHYG 441 Extramural Practice I (2)

Prereq: Successful completion of DHYG 411 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

Externships in community dental facilities in Pierce, Thurston, Kitsap or King Counties that include specialty practice providers and mobile clinics to underserved clients who may be disabled, medically/physically compromised and economically depressed.

DHYG 451 Extramural Practice II (2)

Prereq: Successful completion of DHYG 441 as per the current Dental Hygiene Department Policy on Academic Standards and current enrollment in Bachelor of Applied Science in Dental Hygiene program.

Externships in community dental facilities in Pierce and King Counties that include specialty practice providers and mobile clinics, for clients who may be medically compromised, low income, economically depressed, and high risk.

Digital Design

DDSGN 110 Introduction to Graphic Design and Rich Media (5)

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 Production Management (3)

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 Layout Design and Publishing (3)

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 Graphic Design II (5)

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 Techniques in Adobe Illustrator (5)

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 Fundamentals of 3D Modeling and Animation (5)

Prereq: CIS 121 or instructor permission.

Introduction to the theories and techniques necessary to produce high-quality 3D images and animation for publication through print and electronic media. Course looks at the history of the 3D industry, design philosophy and other vital elements of creative 3D design and animation.

DDSGN 141 Advanced 3D Modeling and Animation (5)

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 Web Design and CSS (5)

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 151 Web Design with WordPress (5)

Prereq: CIS 121 or equivalent computer experience.

Develop skills necessary to implement and maintain a web site using WordPress, a Content Management System (CMS). Students will install and modify templates, create efficient site navigation using menus, organize a site using components and enhance a site with plugins. Students are also introduced to basic principles of site management, business strategies and information architecture.

DDSGN 160 Fundamentals of Digital Photography and Adobe Photoshop (5)

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 Advanced Adobe Photoshop (5)

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 Fundamentals of Video Production (5)

Prereq: CIS 121 or instructor permission.

Production techniques utilizing current and historical elements of design and composition theory to integrate digital video, still images, sound and music into various digital formats. Class explores and implements interface theory and authoring techniques for video DVDs.

DDSGN 180 Fundamentals of 3D Game Design (5)

Prereq: CIS 121 or equivalent computer experience. 3D modeling experience recommended.

Learn how to make high quality 3D video games using Unity 3D. Students will learn game development design principles and practices. Learn how to create, acquire, modify and integrate assets such as sounds, music and 3D models all while learning how to build interactive 3D worlds.

DDSGN 210 Fundamentals of Motion Graphics and Interactive Media (5)

Prereq: DDSGN 110-DDSGN 170 or equivalent computer experience.

Introduction to the principles and elements of motion graphic design through studio practices in animation. Introduction to the design and delivery of interactive media projects. Students learn the theoretical aspects of media and interactivity as they create content-driven design and animation in both 2D and 3D environments.

DDSGN 211 2D Animation with Adobe Animate (5)

Prereq: CIS 121 or equivalent computer experience.

Development of a variety of techniques to create 2D animations using Adobe Animate. Students will practice a variety of animation theories and techniques and analyze their impact on an audience. This course will review the technical and historical evolution of animation.

DDSGN 220 Integrated Digital Design I (5)

Prereq: DDSGN 110-DDSGN 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 Integrated Digital Design II (5)

Prereq: DDSGN 110-DDSGN 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 Supervised Internship (5)

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& 101 Introduction to the Theatre (5)

GER-HM

This course provides an overview of theatre including dramatic literature, theatre history, scene design, stage lighting, styles of acting and directing and play discussions.

DRMA 160 Introduction to Film and Video (5)

GER-HM

Introduction to and exploration of the world of movies, film, history, filmmaking, techniques and film direction. The social and economic influences of the American film will also be addressed.

DRMA 165 Digital Movie Making I (5)

This is an introductory class in making movies using the digital format. Storytelling, filming, editing and presentation will be covered.

DRMA 166 Digital Movie Making II (5)

Prereq: DRMA 165 with a grade of 2.0 or better.

This is an intermediate class in making movies using the digital format. Storytelling, filming, editing and presentation will be covered.

DRMA 167 Digital Movie Making III (5)

Prereq: DRMA 166 with a grade of 2.0 or better.

This is an advanced class in making movies using the digital format. Storytelling, filming, editing and presentation will be covered.

DRMA 170 Technical Film and Theatre I (5)

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 Technical Film and Theatre II (5)

GER-HM/Performance

An intermediate course in behind-the-scenes training for stage and digital film with emphasis on stage and digital film design.

DRMA 172 Technical Film and Theatre III (5)

GER-HM/Performance

Behind-the-scenes training for stage and digital film with emphasis on stage and digital film design.

DRMA 255 Shakespeare Festival (same as ENGL 250) (10)

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 Acting for Stage and Digital Film I (5)

GER-HM/Performance

Introduction to the methods employed in acting for the contemporary stage and digital film.

DRMA 261 Acting for Stage and Digital Film II (5)

GER-HM/Performance

Acting for the stage and digital film with emphasis on movement and character development.

DRMA 262 Acting for Stage and Digital Film III (5)

GER-HM/Performance

Acting for the stage and digital film with emphasis on styles of acting.

DRMA 280 Production Practicum I (1-3)

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.

DRMA 281 Production Practicum II (1-3)

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.

DRMA 282 Production Practicum III (1-3)

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.

DRMA 283 Production Practicum IV (1-3)

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.

DRMA 284 Production Practicum V (1-3)

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.

DRMA 285 Production Practicum VI (1-3)**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**ECED 102 Parent and Child (1)**

(formerly ECE 140D)

Prereq: Child is enrolled in campus Child Development Center and 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.

ECED 103 Parent and Child (1)

(formerly ECE 131)

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.

ECED 104 Parent and Child (2)

(formerly ECE 141)

Prereq: Parent participates with child, and 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.

ECED& 105 Introduction to Early Childhood Education (5)

GER-SS

(formerly ECE 111)

Explore the foundations of Early Childhood Education. Examine theories defining the field, issues and trends, best practices and program models. Observe children, professionals and programs in action.

ECED& 107 Health, Nutrition and Safety (5)

(formerly ECE 240)

Develop knowledge and skills to ensure good health, nutrition and safety of children in group care and education programs. Recognize the signs of abuse and neglect, responsibilities for mandated reporting and available community resources.

ECED 109 Introduction to Math for Early Childhood Education (3)

Prereq: MATH 050 with a grade of at least 2.0 or placement test score above MATH 050 or instructor's permission.

A course for early childhood educators focusing acquiring the math concepts needed to teach young children. Topics include patterns, sequencing, number systems and computation, 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.

ECED& 120 Practicum: Focus on Relationships (2)

(formerly ECE 222)

Prereq: ECED& 105 or concurrent enrollment

In an early learning setting apply best practice for engaging in nurturing relationships with children. Focus on keeping children healthy and safe while promoting growth and development.

ECED& 132 Infants and Toddlers (3)

Examine the unique developmental needs of infants and toddlers. Study the role of the caregiver, relationships with families, developmentally appropriate practices, nurturing environments for infants and toddlers and culturally relevant care.

ECED& 134 Family Child Care (3)

Learn the basics of home/family child care program management. Topics include: licensing requirements; business management; relationship building; health, safety and nutrition; guiding behavior and promoting growth and development.

ECED& 139 Administration of Early Learning (3)

Develop administrative skills required to develop, open, operate, manage and assess early childhood education and care programs. Explore techniques and resources available for Washington State licensing and NAEYC standard compliance.

ECED& 160 Curriculum Development (5)

(formerly ECE 213)

Investigate learning theory, program planning and tools for curriculum development promoting language, fine/gross motor, social-emotional, cognitive and creative skills and growth in young children (birth-age 8).

ECED 161 Mathematics for Early Childhood Education (5)

Prereq: MATH 050 with a grade of at least 2.0 or placement test score above MATH 050 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.

ECED& 170 Environments for Young Children (3)

(formerly ECE 112)

Design, evaluate and improve indoor and outdoor environments which ensure quality learning, nurturing experiences and optimize the development of young children.

ECED& 180 Language and Literacy Development (3)

(formerly ECE 213)

Develop teaching strategies for language acquisition and literacy skill development at each developmental stage (birth-age 8) through the four interrelated areas of speaking, listening, writing and reading.

ECED& 190 Observation and Assessment (3)

(formerly ECE 224)

Prereq: EDUC& 115 or concurrent enrollment

Collect and record observation of and assessment data on young children in order to plan for and support the child, the family, the group and the community. Practice reflection techniques, summarizing conclusions and communicating findings.

ECED 200 Introduction to Early Childhood Special Education (5)

An introductory course in understanding educational services and supports available to children birth through third grade who have diverse abilities; and state and federal laws regarding special education.

ECED 212 Survey of Special Education (3)

(formerly ECE 212)

An introductory course in understanding educational programs and state and federal laws regarding the education of children with special needs.

ECED 225 Math/Science for Children (5)

(formerly ECED 202)

Prereq: ECED& 105 AND one of the following: MUSC 205 or ART 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.

ECED 256 Early Childhood Field Experience (1)

Prereq: ECED 105, department permission, criminal background check required.

Supervised field experience in early childhood and/or elementary educational programs.

ECED 257 Early Childhood Field Experience (2)

Prereq: ECED 105, department permission, criminal background check required.

Supervised field experience in early childhood and/or elementary educational programs.

ECED 258 Early Childhood Field Experience (3)

Prereq: ECED 105, department permission, criminal background check required.

Supervised field experience in early childhood and/or elementary educational programs.

ECED 258 Early Childhood Field Experience (3)

Prereq: ECED 105 , department permission, criminal background check required.

Supervised field experience in early childhood and/or elementary educational programs.

ECED 259 Early Childhood Field Experience (4)

Prereq: ECED 105, department permission, criminal background check required.

Supervised field experience in early childhood and/or elementary educational programs.

ECED 260 Early Childhood Field Experience (5)

Prereq: ECED 105, department permission, criminal background check required.

Supervised field experience in early childhood and/or elementary educational programs.

ECED 270 Planning and Assessment for Student Teaching (3)

(formerly ECED 210)

Prereq: ART 215, ECED& 105, EDUC 115, EDUC& 130, ECED& 160, ECED& 170, ECED& 180, ECED 225 and MUSC 205 with minimum grades of 2.0 and department permission. Must be taken concurrently with ECED 275.

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.

ECED 275 Early Childhood Student Teaching (5)

(formerly ECED 220)

Prereq: ART 215, ECED& 105, EDUC 115 , ECED& 170, ECED& 180, ECED& 160, EDUC& 130, ECED 225 and MUSC 205 with minimum grades of 2.0 and department permission. Must be taken concurrently with ECED 270.

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.

ECED 280 Early Childhood Education Professional Portfolio (1)

(formerly ECE 280)

Prereq: Must be taking or have completed all core Early Childhood Education courses prior to this course. Instructor permission is required.

This course is a culmination of the student's Early Childhood Education curriculum resulting in the creation of an individualized professional portfolio.

ECED 307 Health and Fitness (2)

Plan for comprehensive health and fitness education in early learning programs serving children birth to grade three who are culturally, linguistically and ability diverse and their families, including the dimension of wellness such as physical, emotional and social well-being.

ECED 325 Advanced Math Methods (3)

Develop a deep understanding of the development of spatial and mathematical learning across all strands: number & operations, algebra, geometry, measurement, and data analysis & probability. There will be an emphasis on the content included in the state early learning guidelines and standards for children birth through grade three and their families who are culturally, linguistically and ability diverse.

ECED 335 Law and Ethics (3)

GER-SS

An overview of current laws concerning special education in particular, and education in general. Professional ethics and advocacy will also be addressed as it relates to early learning programs and working with families and their children birth through grade three who are culturally, linguistically and ability diverse.

ECED 340 Assessment and Evaluation (5)

Select, administer, score and interpret formal assessment tools. Evaluate students for placement into special education programs. Develop Individual Education Plans (IEPs), Individual Family Service Plans (IFSPs), and 504 plans for children birth to third grade who are culturally, linguistically and ability diverse and their families.

ECED& 355 Social and Political Context of Early Childhood Education (3)

GER-SS

Explore equity issues in early childhood education including the systems that are in place to perpetuate inequality and strategies for addressing them such as how to incorporate culturally responsive practices into early learning.

ECED 365 Observations, Documentation and Monitoring (3)

Develop skills and strategies for observing, documenting and monitoring children birth to grade 3 who are culturally, linguistically and ability diverse and their families. Strategies for tracking progress toward meeting Individual Education Plan (IEP) and Individual Family Service Plan (IFSP) goals will also be addressed.

ECED 370 Adaptions, Modifications and Planning (5)

Use evidence based strategies to adapt and modify curriculum and environments for individual children birth to grade three who are culturally, linguistically and ability diverse and their families. Create lesson plans for children based on Individual Education Plans (IEP), Individual Family Services Plans (IFSP) goals, and 504 plans.

ECED 385 Advanced Language and Literacy Methods (3)

Refine teaching strategies for language acquisition and literacy skill development for children who are culturally, linguistically and ability diverse at each developmental stage (birth-third grade) through the four interrelated areas of speaking, listening, writing and reading. There will be an emphasis on strategies for teaching reading and how to support each stage of literacy development across genres and purposes. Strategies for supporting families as they assist their children in learning language and literacy will also be addressed.

ECED 395 Collaboration and Supervision (3)

Develop skills needed to effectively collaborate with others including school personnel, community agency personnel and families to support children birth to third grade who are culturally, linguistically and ability diverse and their families. Supervision of assistants and paraprofessionals will also be addressed.

ECED 479 Fall Residency (15)

Experience working in an education setting with children birth through grade three who are culturally, linguistically and ability diverse and their families under the supervision of a certificated teacher with an emphasis on building relationships and guiding behavior.

ECED 489 Winter Residency (15)

Experience working in an education setting, with children birth through grade three who are culturally, linguistically and ability diverse and their families under the supervision of a certificated teacher, with an emphasis on pedagogy.

ECED 499 Spring Residency (15)

Experience working in an education setting, with children birth through grade three who are culturally, linguistically and ability diverse and their families under the supervision of a certificated teacher, with an emphasis on using data to improve practices.

ECED& 355 Social and Political Context of Early Childhood Education (3)

GER-SS

Explore equity issues in early childhood education including the systems that are in place to perpetuate inequality and strategies for addressing them such as how to incorporate culturally responsive practices into early learning.

Economics

ECON 110 Survey of Economics (5)

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 Microeconomics (5)

GER-SS

Prereq: MATH 096 or 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 Macroeconomics (5)

GER-SS

Prereq: MATH 096 or MATH 098 or equivalent with a grade of 2.0 or better or placement test score above MATH 098 or instructor permission.

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 and the Federal Reserve Banking System; monetary policy; interest rates; and international trade.

Education

EDUC& 115 Child Development (5)

GER-SS

Build a functional understanding of the foundation of child development, prenatal to early adolescence. Observe and document physical, social, emotional and cognitive development of children, reflective of cross-cultural and global perspectives.

EDUC& 130 Guiding Behavior (3)

(formerly ECE 112)

Examine the principles and theories promoting social competence in young children and creating safe learning environments. Develop skills promoting effective interactions, providing positive individual guidance and enhancing group experiences.

EDUC& 136 School Age Care (3)

Develop skills to provide developmentally appropriate and culturally relevant activities and care, specifically: preparing the environment, implementing curriculum, building relationships, guiding academic/social skill development and community outreach.

EDUC& 150 Child, Family and Community (3)

(formerly ECE 230)

Integrate the family and community contexts in which a child develops. Explore cultures and demographics of families in society, community resources, strategies for involving families in the education of their child, and tools for effective communication.

EDUC 190 Education Practicum (3-5)

An introduction to field experience in education that includes classroom observations and seminar discussions.

EDUC& 202 Introduction to Education (5)

An introduction to teaching: historical, organizational, legal, ethical, philosophical and social foundations of public education.

EDUC& 203 Exceptional Child (3)

(formerly ECE 212)

An introductory course in understanding educational programs and state and federal laws regarding the education of children with special needs.

EDUC 223 Practicum: Focus on Special Education (2)

(formerly ECE 223)

Prereq: EDUC& 203 or concurrent enrollment

Designed for students to observe and participate under qualified supervision in programs for young children throughout the community with a focus on special education.

EDUC 280 ESL Field Experience (3-5)

A field experience in teaching English to speakers of other languages that includes classroom observations and seminar discussions.

Emergency Medical Technician

EMT 210 Emergency Medical Technician I (5)

Prereq: CPR Certification as AHA "Healthcare Provider" or Red Cross "Professional Rescuer"

Applies the fundamental principles of the Emergency Medical Service (EMS) system, safety/well-being of the Emergency Medical Technician (EMT), medical/legal and ethical issues to the provision of emergency care. The student will be capable of applying evidence-based decision making when assessing the nature and seriousness of a patient's condition or injuries.

EMT 211 Emergency Medical Technician II (5)

Prereq: Successful completion of or current enrollment in EMT 210.

Emergency Medical Technician (EMT) students begin to differentiate the treatment between medical and trauma emergencies and use medical assessment to deduce nature of illness and routes of transmission for infectious disease. Students demonstrate cognitive/practical understanding in group and individual evaluations.

EMT 212 Emergency Medical Technician III (5)

Prereq: Successful completion of EMT 211 or current enrollment in EMT 210 or EMT 211.

Emergency Medical Technician students apply knowledge-based treatment to patients that are responsive/unresponsive using scenarios in monitored lab settings. Students differentiate between "unaltered mental status" and "altered mental status" to assess the nature and seriousness of a patient's condition or injuries. Skills learned in class labs are utilized by students in an Emergency Department rotation. Students are evaluated for cognitive and practical competency based on National Registry of Emergency Medical Services requirements.

EMT 221 Emergency Medical Technician Refresher (3)

Prereq: Certified Emergency Medical Professional.

National Standard focused EMT-Refresher for Certified Emergency Medical Professionals to demonstrate cognitive and practical competency in topics required for National Registry.

EMT 260 Emergency Medical Services (1-5)

Prereq: TBD based on course content.

Applies principles of the Emergency Medical Services (EMS) systems to meet specific educational requirements of military unit, civilian organization, state agency or group of individuals. Typical courses could include: EMS content required by DSHS for facility staff; courses to prepare EMT's to become certified Evaluators or Senior Emergency Services Instructors (SEI); selected EMS topics for military units; and EMS management content.

Engineering

ENGR 101 Introduction to Engineering (5)

GER-NS

Prereq: MATH 096 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 Engineering Graphics (5)

Prereq: CIS 121 or instructor permission.

An introduction to Computer Aided Design (CAD) using Auto-Cad. 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 Computer Programming (C++) for Engineers (5)

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& 204 Electrical Circuits (5)

Prereq: PHYS 223 and MATH 152 , MATH 238 is recommended.

An introduction to electrical engineering through basic circuit and system concepts. Topics include: resistors, sources, capacitors, inductors, operational amplifiers, node and mesh analysis, Thevenin and Norton equivalents and RLC circuits. Solution of first and second order linear differential equations associated with basic circuit forms will be used.

ENGR& 214 Statics (5)

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 Dynamics (5)

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 Thermodynamics (5)

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 Mechanics of Materials (5)

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 materials. 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 090 Spelling (2)

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 Vocabulary (2)

A course designed for the pre-college level reader and writer.

ENGL 096 Grammar, Punctuation and Spelling (2)

Focuses on sentence structure, grammar, spelling and punctuation; when taken in conjunction with ENGL 097 (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 097 Paragraph Composition (3)

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, this course will fulfill the same requirements as ENGL 098, the prerequisite for ENGL 099.

ENGL 098 Basic Writing Skills (5)

Prereq: Satisfactory placement test score.

Building upon the structure of sentences, paragraphs and essays, introduces students to the processes of reading and writing effective academic essays.

ENGL 099 Introduction to Composition (5)

Prereq: Satisfactory placement test score or ENGL 096 and ENGL 097 or ENGL 098 with a grade of 2.0 or better.

An introduction to college-level composition focusing on effective strategies for reading and writing academic essays, the writing process, sentence structure, grammar and mechanics.

ENGL& 101 English Composition I (5)

GER-CM

Prereq: Place or ENGL 099 with a grade of 2.0 or higher. College Level reading ability.

A composition course focusing on writing academic essays, developing rhetorical knowledge and critical reading skills, and applying effectively the principles of college writing.

ENGL& 102 Composition II: Argumentation and Research (5)

GER-CM

(formerly ENGL 103)

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 College Vocabulary (2)

A course designed for the college-level or upper-level pre-college reader and writer.

ENGL 107 Composition III: Writing About Literature (5)**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 Intro to Literature (5)**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 Intro to Fiction (5)**GER-HM**

Introduction to the literary genre of fiction, including short stories and novels.

ENGL& 113 Intro to Poetry (5)**GER-HM**

Course designed to familiarize students with form, content and expression in poetry from ancient to contemporary times.

ENGL& 114 Intro to Dramatic Literature (5)

GER-HM

Form and expression of great works of the theater from Ancient Greece to the present.

ENGL 145 Research for the 21st Century (5)

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 The Bible as Literature (5)

GER-HM

A course designed to show the themes, structures and literary merits of the Bible.

ENGL 205 Introduction to Mythology (5)

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 Native American Literature (5)

GER-HM

Native American Literature: its themes, issues, symbols, application to personal, family and regional cultures.

ENGL 210 Introduction to American Literature (5)

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 214 Screenwriting I (5)

GER-HM

A writer's workshop focused on outlining, structuring, formatting and writing a screenplay to meet the standards of the American film industry for feature film. The course will cover plotting a story, developing characters and scene creation. Students will complete a story outline (Treatment) and two acts of a feature film, or an outline of a feature length script and an entire twenty to thirty minute short.

ENGL& 220 Intro to Shakespeare (5)

GER-HM

To familiarize the student with Elizabethan England and the three major types of Shakespearean drama: comedy, history and tragedy.

ENGL& 226 British Literature I (5)

GER-HM

To familiarize the student with the main types of literature written during a specified period in England: 800 to 1660.

ENGL& 227 British Literature II (5)

GER-HM

To familiarize the student with the main types of literature written during a specified period in England: 1660 to 1832.

ENGL& 228 British Literature III (5)

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 Technical Writing (5)

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 Creative Writing I (5)**GER-HM**

A creative writing course which instructs in structure, form and content of fiction, poetry and plays.

ENGL& 237 Creative Writing II (5)**GER-HM**

Writing short stories.

ENGL& 238 Creative Writing III (5)**GER-HM**

Writing poetry.

ENGL 239 World Literature (5)**GER-HM**

Explores the rich diversity of world cultures through fiction, poetry and drama.

ENGL& 244 American Literature I (5)**GER-HM**

Survey of American literature from its early origins to the Civil War.

ENGL& 245 American Literature II (5)

GER-HM

Survey of American literature from mid-nineteenth century to World War I.

ENGL& 246 American Literature III (5)**GER-HM**

Survey of 20th Century literature to the present.

ENGL 249 Creative Writing: Special Projects (5)**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 Shakespeare Festival (10)

Familiarizes students with Shakespearean drama, elements of drama and elements of the theater. Students must attend the Ashland, Ore. festival.

ENGL 256 Advanced Composition - Portfolio (3)

Prereq: ENGL& 101, ENGL& 102, ENGL 107, and ENGL 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 257 Advanced Creative Writing (3)

Prereq: ENGL& 236 and ENGL& 237 or ENGL& 238 with a 2.0 or better.

Advanced study in creative writing concentrating on the workshop process, portfolio building and submitting/presenting work.

ENGL 264 Literature of U.S. Slavery and Abolition (5)

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 American Literature: Comedy, Humor and Satire (5)

GER-HM

Theory and practice of comedy, humor and satire. Concentration on American humor, its distinctive characteristics and importance in American Literature.

ENGL 266 Women Writers: Voices from the International Mosaic (5)

GER-HM

Emphasis on twentieth century women writers across the international spectrum.

Environmental Science

ENVS& 100 Survey of Environmental Science (5)

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 Western Water Problems (5)

GER-NS

Historical and contemporary exploration of the water resource and issues in the western United States.

ENVS 150 Environmental Issues (5)

GER-NS

An interdisciplinary investigation of topics of environmental concern covering a wide range of local, national and international case studies.

ENVS 155 Applied Environmental Methods (5)

GER-NS

Environmental science course involving field work in regional parks and natural 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.

ENVS 180 Seminar in Sustainability (2)

This seminar is an interdisciplinary approach to studying sustainability led by faculty from diverse disciplines. The course will examine and explore the three core dimensions of sustainability (environment, economy and society) with respect to one or more major sustainability related issues. Students will complete assigned readings and participate in weekly seminars. Throughout the quarter, students may be required to participate in various sustainability related activities: watching films and online lectures, listening to speakers, attending field trips and other events. The course will be presented with a different focus each time and may be taken twice.

Fashion Merchandising

FASH 160 Introduction to Fashion Merchandising (5)

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 Fashion Design and Clothing Construction Analysis (5)

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 Consumer Textiles (5)

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, care and renovation of textiles.

Fire Command

FCA 120 Basic Fire Investigation (3)

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 Technical Writing for Fire Service (3)

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 Introduction to System Design (5)

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 Building Construction (2)

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 Fire Instructor I (3)

This course is an introduction to a fire instructor's duties as written by the requirements of the National Fire Protection Agency (NFPA) 1041, Standard for Fire Service Instructor Qualifications. 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 Public Information Officer (2)

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 Tactics I (2)

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 Hazardous Materials Awareness (1)

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 173 Fire Service and Response to Terrorism (5)

Explores the many aspects of terrorist attacks from actions taken prior to an incident to operations at the scene and afterward. Provides fire service with comprehensive strategic and tactical information pertaining to prevention, preparedness, recognition, response and recovery from terrorist attacks. Special emphasis on explosive, chemical, biological, radiological and nuclear incidents. Other topics include Personal Protective Equipment (PPE), incident management, technical and mass decontamination, special operational considerations and lessons learned from actual global incidents.

FCA 175 Fire Safety Officer (2)

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 Wildland Urban Interface (3)

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 Fire Administration (3)

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 Fire Officer I (4)

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 Testing H2O Systems (3)

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 Fire Instructor II (3)

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 Administration, (NFPA) 1041, Standard for Fire Service Instructor Qualifications.

FCA 259 Legal Aspects of Fire Service (3)

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 Basic Incident Command System/National Incident Management System (2)

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 Hazardous Material On-Scene Incident Commander (2)

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 Disaster and Fire Defense Planning (4)

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 Fire Officer II (4)

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 Hazardous Materials Operations (2)

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 Negotiation (3)

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 Occupational Safety and Health for Fire Service (4)

This course introduces the basic concepts of occupational safety and health 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 Advanced Fire Administration (4)

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 Fire and Life Safety Educator (3)

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 Fire Officer III (4)

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*.

French

FRCH& 121 French I (5)

GER-HM

The first quarter of a sequential beginning course in spoken and written French language.

FRCH& 122 French II (5)

GER-HM

Prereq: FRCH& 121 with a grade of 2.0 or better, or 1 year high school French plus placement in ENGL& 101 or instructor permission.

Continuation of FRCH& 121 stressing speaking, reading, writing and understanding the French language.

FRCH& 123 French III (5)

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.

Geography

GEOG 100 Introduction to Geography (5)

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 subfields 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 The Americas, Australia, Europe and New Zealand (5)

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, Australia and 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 Africa, Middle East and Asia (5)

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 Human Geography (5)

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 Physical Geography (5)

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 Economic Geography (5)**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 Physical Geography (5)**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& 101 Introduction to Physical Geology (5)****GER-NS**

A study of minerals, rocks and the dynamic processes that shape the earth's surface over time, including 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 Historical Geology (5)**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, fossils, dinosaur and other mass extinctions, and meteor impact effects. Appropriate for non-science and science majors. Field trip required. Lab included.

GEOL 107 Exploring Earth Science (5)

GER-NS

An introductory Earth Science course that covers essential topics in geology, meteorology, oceanography, and astronomy. The focus is on the system 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, and elementary education majors. May require field trip or project. Lab included.

GEOL& 110 Environmental Geology (5)

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 Geology of National Parks (5)

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 Volcanoes (5)

GER-NS

A study of volcanoes, volcanic processes and volcanic hazards. Appropriate for non-science and science majors. Field trips required. Lab included.

GEOL& 208 Geology of Pacific Northwest (5)

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 Earth Resources and the Environment (5)

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 Regional Geology (5)

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& 121 German I (5)

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 German II (5)

GER-HM

Prereq: GERM& 121 with a grade of 2.0 or better, or 1 year high school German plus placement in ENGL& 101; or instructor permission.

Continuation of GERM& 121 stressing speaking, reading, writing and understanding German.

GERM& 123 German III (5)

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 114 Therapeutic Communication in Healthcare Settings (3)

Prereq: Placement for ENGL& 101.

An overview 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 co-workers in a variety of health care settings.

HSCI 116 Pharmacology for Allied Health I (2)

Prereq: CHEM& 121, BIOL& 241, BIOL& 242 and BIOL& 260.

Therapeutic use of medications, drug classifications, routes of administration and related laws. Computation skills in dosage calculation are emphasized. Includes classroom practice of medication computations, discussion of medication administration and use of technology.

HSCI 117 Pharmacology for Allied Health II (2)

Prereq: CHEM& 121, BIOL& 241, BIOL& 242, BIOL& 260 and HSCI 116.

This course is a continuation of Pharmacology I. The basics of clinical pharmacology principles are expanded. Medications used for treatment of conditions which affect the respiratory, circulation, neurosensory and acid-base balance are presented.

HSCI 119 Human Health and Disease (5)

A systematic overview of human anatomy, physiology and pathology. Intended for anyone interested in understanding health and disease interrelationships. A lab course for non-science majors.

HSCI 140 Contemporary Health Science Problems (5)

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. Lab course for non-science majors.

HSCI 151 Personal and Community Health (5)

Contemporary issues and trends in modern human health.

HSCI 180 An Introduction to "Stay Active and Independent for Life" (SAIL) (2)

This course is designed to equip the health and fitness professional with the knowledge and skills necessary to establish and lead a fitness program for older adults, with an emphasis on preventing falls in older adults.

HSCI 200 Human Stress - Its Nature and Control (5)

Examines human stress, its causes, consequences and benefits, while exploring specific strategies and techniques to control stress and use it for growth.

HSCI 210 Wellness (5)

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 CPR for the Professional Rescuer, with First Aid and Blood Borne Pathogens (2)

Course designed to teach those with a duty to act the skills needed to respond 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 Issues and Trends in Health Care Management (4)

Prereq: HSCI 114 and HSCI 116.

Management and leadership theories as applied to allied health settings. Explores challenges, issues and trends in health care to include skill building for managing care, leading groups and resolving conflict within organizations. Course includes student completion of a professional health care management portfolio.

History

HIST& 126 World Civilizations I (5)

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 World Civilizations II (5)

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 World Civilizations III (5)

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 History of U. S. I (5)

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 History of U. S. II (5)

GER-SS

A survey of the economic, social, political and diplomatic history of the United States from 1840 to 1900.

HIST& 158 History of U.S. III (5)

GER-SS

A survey of the economic, social, political and diplomatic history of the United States from 1900 to the present.

HIST& 159 History of U.S. IV (5)

GER-SS

A survey of the economic, social, political and diplomatic history of the United States from 1939 to the present.

HIST 168 Vietnam War as History (5)

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 175 A Brief History of Global Leadership (5)

GER-SS

This class is a brief history of global leadership. Emphasis is placed on post -1850 political, socioeconomic, scientific and cultural developments that leaders faced in America, Europe, Mesoamerica, Africa and Asia.

HIST& 214 Pacific Northwest History (5)

GER-SS

History of Washington and the Pacific Northwest: exploration, settlement, economic development, growth of government and social institutions.

HIST 260 History of Russia and the Soviet Union (5)

GER-SS

Explore the development of the Russian State from 700 A.D. 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 History of Latin American Since 1810 (5)**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 History of Europe Since 1870 (5)**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 History of Africa Since 1800 (5)**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 270 Introduction to the Far East (5)**GER-SS**

A survey of the major social, political and economic trends in the Far East with emphasis on developments since the early 1800s.

HIST 272 Survey of Middle East History (5)**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 The Cold War (5)

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 Introduction to Chinese Civilization (5)

GER-SS

A survey of the major aspects in the development of Chinese civilization from antiquity to the present day.

HIST 284 Introduction to the Balkans (5)

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 History of Japan Since Antiquity (5)

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 102 Introduction to Emergency Management (5)

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 Basic Incident Command System/National Incident Management System (2)

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 All Hazards Emergency Planning (3)

Prereq: HSEM 102

This course is designed to introduce students to 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 Technology in Emergency Management (3)

Prereq: HSEM 102

This class provides a detailed overview of the technology used in the field of emergency management and how it is applied. Students will learn how to utilize technology in emergency planning, response, recovery and mitigation efforts. They will 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, Geographic Information System (GIS) and Global Positioning System (GPS) capabilities.

HSEM 135 Mapping and Data Analysis Tools (3)

Mapping tools provide a series of visual maps including modeling or a simulation of disaster effects on a specific community. Introduces students to mapping tools and desktop applications for mapping to conduct emergency planning, data analysis and resource management for emergency management.

HSEM 157 Public Information Officer (2)

This 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 NFPA 1035.

HSEM 160 Emergency Response Awareness to Terrorism (5)

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. Students will gain insight into the key players involved in emergency management, local and state issues and interacting and working with FEMA and other federal agencies. Course components include identifying terrorism, causes of terrorism, preventing terrorist attacks, responding to terrorism attacks and avoiding communication and leadership collapse.

HSEM 175 Emergency Business Continuity Fundamentals (4)

Provides a foundation for business continuity management, including topics such as business continuity initiation, risk evaluation and control, business impact analysis, developing business continuity strategies and plans, developing training and exercise programs, coordinating with external agencies, and exposure to current, real-world, case studies.

HSEM 180 Public Administration (3)

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 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 Homeland Security Emergency Management Special Topics (1-5)

Prereq: HSEM 102, must have completed 12 HSEM credits or HSEM Program Coordinator approval.

Special topics will be developed for areas outside the usual course offerings in the Homeland Security Emergency Management degree. Topics developed will focus on a specific current issue or concept in the areas of homeland security or emergency management.

HSEM 200 Emergency Operations Center (2)

Prereq: HSEM 102 and HSEM 110.

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, staffing and operating, jurisdictional setting and the critical link between Incident Management Systems and emergency management operations.

HSEM 210 Exercise Design and Evaluation (3)

Prereq: HSEM 102 and 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 Developing and Managing Volunteer Resources (2)

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, training and motivating volunteers and maintaining 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 Disaster Response and Recovery (2)

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 Homeland Security Emergency Management Work-Based Learning (5)

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 Homeland Security Law and Ethics (3)

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 counterterrorism, investigating terrorism and other national security threats, crisis and consequence management.

HSEM 330 Risk Assessment for Homeland Security Emergency Management (5)

Prereq: HSEM 160

This course develops foundational skills to identify, analyze and evaluate risk in an organization within the context of all-hazards emergency management.

HSEM 340 Effective Organizational Communication and Public Speaking (4)

Prereq: HSEM 120

This course analyzes personal and group dynamics in emergency management including public speaking emphasizing speech, organization and audience analysis in the Homeland Security Emergency Management environment.

HSEM 357 External Affairs for Emergency Management (5)

Prereq: HSEM 157

This course provides an overview of how to lead a Homeland Security Emergency Management organization's external affairs program.

HSEM 360 Leadership in Homeland Security Emergency Management (5)

This course provides an introduction to leadership and organizational theory emphasizing principles and techniques of leadership and supervision including meta-leadership.

HSEM 365 Systems Thinking and Individual Leadership (5)

This course distinguishes traditional forms of analysis from the dynamics of systems thinking processes in a context of emergency and risk management.

HSEM 370 Continuity Planning for Business and Government (5)

Prereq: HSEM 180

This course provides an overview of the Business Continuity Planning (BCP) process for private sector organizations, and Continuity of Operations Planning (COOP) and Continuity of Government (COG) processes for operations focused on strategies to minimize the risk of disruptions to the normal business process.

HSEM 380 Risk Reduction for Homeland Security Emergency Management (5)

Prereq: HSEM 330

This course provides an introduction to the development of risk reduction strategies, business plans and budgets to support implementation.

HSEM 410 Ethics and Diversity in Homeland Security Emergency Management (5)

Prereq: HSEM 250

This course provides an analysis of ethical issues in Homeland Security Emergency Management.

HSEM 420 Technology and Cybersecurity in Homeland Security Emergency Management (5)

Prereq: HSEM 130

This course explores the applications and security of technology in Homeland Security and Emergency Management.

HSEM 430 Legal Issues in Homeland Security Emergency Management (5)

Prereq: HSEM 250

This course provides an overview in public policy and law related to public service and the Homeland Security Emergency Management field.

HSEM 440 Geographic Information Systems (GIS) for Homeland Security Emergency Management (3)

This course provides an introduction to mapping tools and desktop applications for conducting emergency planning, data analysis, and resource management for emergency management.

HSEM 449 Professional Development Seminar (2)

Prereq: Program Coordinator approval.

This course prepares the student for the Homeland Security and Emergency Management Workbased Learning experience. This includes the culmination of an ongoing and dynamic process to develop an individual professional portfolio documenting essential areas of study in homeland security emergency management and to plan short- and long-term professional improvement goals.

HSEM 450 Workbased Learning for Homeland Security Emergency Management (5)

Prereq: HSEM 449, HSEM BAS Senior Status or Program Coordinator approval.

The Homeland Security Emergency Management Workbased Learning (WBL) experience provides students with real world experiences. The focus of the WBL is application and an opportunity to refine and apply core skills, with a specific emphasis on leadership in an emergency management environment.

HSEM 460 Research Methods in Homeland Security Emergency Management (5)

Prereq: HSEM BAS Senior Status.

This is a comprehensive course covering major analytical and statistical tools used in Homeland Security Emergency Management program administration.

HSEM 470 Homeland Security Emergency Management Capstone Project (5)

Prereq: Acceptance into the BAS Degree Program, Program Coordinator approval, senior status in HSEM BAS program, all HSEM 100 level courses (or equivalent), HSEM 200 and HSEM 210.

The capstone project is a culminating academic and intellectual review demonstrating learning acquisition and practical application from all courses, theories, techniques and practical application of content taught in the Bachelor of Applied Science in Homeland Security Emergency Management Program.

Human Services Substance Abuse

HSSA& 101 Introduction to Chemical Dependency (3)

An orientation to chemical dependency and psychoactive drug abuse, including etiological theories of chemical dependency; history of alcohol and other psychoactive drugs; and basic principles of prevention, intervention and treatment.

Humanities

HUM& 101 Introduction to Humanities (5)

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 Black Thought and Culture (5)

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 Ethnic Thought and Culture (5)

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 Latin American Thought and Culture (5)**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 109 American Thought and Culture: The Harlem Renaissance (5)**GER-HM**

A study of the black American cultural movement of the late 1920s and 1930s 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 120 Introduction to Folklore (5)**GER-HM**

Introduction to Folklore 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 Western Thought and Culture I: The Classical World (5)**GER-HM**

A survey of western cultural ideas and expressions from early Aegean civilization to the 5th century. Topics include history, geography, culture, philosophy, religion, art, architecture and literature of the Greco-Roman world.

HUM 162 Western Thought and Culture II: The Middle Ages (5)**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 Western Thought and Culture III: Birth of the Modern World (5)

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 Western Thought and Culture IV: The Modern World (5)

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 American Popular Culture (5)

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 209 The Civil Rights Movement: From the Ground Up (5)

GER-HM

This course offers students a broad multicultural understanding of the American Civil Rights Movement through the Humanities: art, film, photography, oral histories, literature, theater and music of the reform era. The course highlights the experiences and impact of local activists and organizations through the arts, presenting the movement from a "ground-up" perspective rather than a "top-down" to enhance students' civic and multicultural literacy.

HUM 210 American Cinema and Society (5)

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 Great Directors and Auteurs (5)

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 Spielberg, 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 World Cinema (5)

GER-HM

Examines the films and filmmaking practices of countries around the world. This class explores such topics as the impact of technical changes and production standards on filmmaking. An 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 World Religions (5)

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 101 Research Essentials (2)

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 Problem Based Research Methods in Professional/Technical Programs (2)

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 107 Introduction to International Studies (5)

GER-SS

An introduction to global issues emphasizing the integrated and increasingly interdependent nature of the world, including: historical, political, economic, environmental and philosophical issues.

INTS 140 Contemporary Issues in International Studies (5)

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 Contemporary Rebel, Secessionist and Terrorist Organizations (5)

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 Border and Genocidal Conflicts in the Modern World (5)

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.

INTS 300 Social Studies for Teachers (5)

GER-SS

An overview of the main concepts in social studies for early childhood teachers including topics in history, civics, geography, economics and global issues.

Japanese

JAPN& 121 Japanese I (5)

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 Japanese II (5)

GER-HM

Prereq: JAPN& 121, one year of high school 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 Japanese III (5)

GER-HM

Prereq: JAPN& 122, two years of high school 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.

Journalism

JOURN 102 Introduction to News Writing (5)

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 Introduction to Feature Writing (1-5)

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.

JOURN 105 Student Newspaper Leadership (5)

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 via WordPress; AP style; policy and process; the basics of news, news style and the news market; and elements of libel and news ethics.

JOURN 111 College Newspaper: Reporting and Editing (1-5)

Prereq: Instructor permission required.

Practical experience in producing the college newspaper. Students may pursue specialty areas of interest such as writing, copy-editing, desktop publishing, market research and advertising.

JOURN 112 College Newspaper Photojournalism (1-5)

Practical experience in shooting and developing photos for the school newspaper. Students should already have a basic working knowledge of photography.

JOURN 120 Introduction to Broadcasting (5)

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 with various delivery platforms. Techniques include but are not limited to video production (shooting, editing, microphone, lighting); motion graphics (such as titles and animated maps) and audio editing.

JOURN 125 The Documentary: A Social Force (5)

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 211 College Newspaper: Reporting and Editing (1-5)

Prereq: Instructor permission required.

Practical experience in producing the college newspaper. Students may pursue specialty areas of interest such as writing, copy-editing, desktop publishing, market research, advertising.

JOURN 212 College Newspaper Photojournalism (1-5)

Practical experience in shooting, developing photos for the school newspaper. Students should already have a basic working knowledge of photography.

Kinesiology**KINS 155 Applied Anatomy and Physiology for the Health and Fitness Professional (5)**

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 and Fitness Technician Program. Course covers basic anatomy and physiology with an emphasis on its relationship to exercise, performance and health. Laboratory course required for certificate and degree candidates.

KINS 180 An Introduction to "Stay Active and Independent for Life" (SAIL)

This course is designed to equip the health and fitness professional with the knowledge and skills necessary to establish and lead a fitness program for older adults, with an emphasis on preventing falls in older adults.

KINS 250 Kinesiology (5)

Prereq: KINS 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.

KINS 252 Nutrition and Exercise (3)

A course designed to familiarize the health and fitness professional with the fundamentals of exercise and nutrition for health assessment and health prescription.

KINS 253 Essentials of Weight Management (2)

A course designed to familiarize the health and fitness professional with the fundamentals of weight management, exercise and nutrition.

KINS 254 Essentials of Fitness Training (5)

Prereq: KINS 155, KINS 250, KINS 253, KINS 256 and KINS 258.

A course designed to familiarize the health and fitness professional with the fundamentals of fitness training and health prescription.

KINS 256 Exercise Physiology for the Health and Fitness Professional (5)

Prereq: KINS 155, KINS 252 and KINS 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.

KINS 257 Client Care and Marketing for the Health and Fitness Professional (3)

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.

KINS 258 Athletic Training and Acute Injury Management (3)

Prereq: KINS 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.

KINS 259 Special Populations Care for the Health and Fitness Professional (3)

Prereq: KINS 155, KINS 250, KINS 254, KINS 256 and KINS 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.

KINS 260 Health Appraisal and Fitness Assessment (3)

Prereq: KINS 155, KINS 250, KINS 252, KINS 253, KINS 254 and KINS 256 or instructor permission.

The course incorporates current industry standards for health appraisal and fitness assessment techniques to optimize client safety during exercise participation.

KINS 261 Principles of Coaching (2)

An introductory course designed to equip the health and fitness professional with the knowledge, skills and capabilities necessary for a career in coaching.

KINS 262 Internship (5)

Prereq: KINS 155, KINS 250, KINS 252, KINS 253, KINS 254, KINS 256, KINS 257, KINS 258, KINS 259 and KINS 260 or instructor permission.

A course designed to provide the health and fitness professional with work-based learning experience.

KINS 263 Applied Sport Psychology (5)

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.

KINS 264 Drugs and Sports (3)

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.

KINS 266 Internship (2)

Prereq: KINS 155, KINS 250, KINS 252, KINS 253, KINS 254, KINS 256, KINS 257, KINS 258, KINS 259, and KINS 260 or instructor permission.

A course designed to provide the health and fitness professional with work-based learning experience.

KINS 267 Internship (3)

Prereq: KINS 155, KINS 250, KINS 252, KINS 253, KINS 254, KINS 256, KINS 257, KINS 258, KINS 259, and KINS 260 or instructor permission.

A course designed to provide the health and fitness professional with work-based learning experience.

Korean

KREA& 121 Korean I (5)

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 Korean II (5)

GER-HM

Prereq: KREA& 121 or instructor permission.

Continuation of KREA& 121 stressing speaking, reading, writing and understanding the Korean language.

KREA& 123 Korean III (5)

GER-HM

Prereq: KREA& 122 or instructor permission.

Continuation of KREA& 122 stressing speaking, reading, writing and understanding the Korean language.

Mathematics

MATH 050 Basic Mathematics (5)

Prereq: Satisfactory placement test score or instructor permission.

Operations and applications with whole numbers, fractions, decimals and integers. Order of operations. Converting among number representations and placing numbers in order. Basic applications, including use of percent and geometry. Study strategies.

MATH 054 Beginning Algebra (5)

Prereq: Satisfactory placement test score or MATH 050 with a grade of at least 2.0 or instructor permission.

Operations with fractions, decimals, percents and signed numbers. Simplify algebraic expressions. Solve linear equations. Solve a variety of application problems. Square roots, exponents and coordinate graphing. Determine area, perimeter and volume. Calculate statistical measures of center and interpret graphs.

MATH 096 Intermediate Algebra in Context (7)

Prereq: Satisfactory placement test score or MATH 054 with a grade of at least 2.0 or instructor permission.

This course integrates numeracy, proportional reasoning, algebraic skills and functional reasoning. Students will represent quantitative relationships in multiple ways in order to solve problems from a variety of authentic contexts. Linear and exponential functions, along with logarithms and radicals will be studied and applied. Modeling and interpreting quantitative data is emphasized.

MATH 098 Intermediate Algebra (5)

Prereq: Satisfactory placement test score or MATH 060 or MATH 096 with a grade of at least 2.0 or instructor permission.

Algebraic skills, concepts and applications. Simplifying and operating with polynomial, rational and radical expressions. Use of quadratic, rational, and radical models to solve problems encountered in the real world. Solving quadratic, rational, radical and absolute value equations and systems of linear equations. Function concepts and graphs.

MATH& 107 Math in Society (5)

GER-NS, QS

Prereq: MATH 096 or MATH 098 or equivalent, with a grade of at least 2.0 or satisfactory placement test score.

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 111 College Math for Early Childhood Education (5)

Prereq: MATH 096 or MATH 098 or equivalent with a grade of at least 2.0 or satisfactory placement test score and eligible for ENGL 101.

A course for early childhood educators providing the mathematical foundations for quantitative concepts appropriate for children from birth through Grade 3. Topics include patterns, sequencing, number systems and computation, models for operations, problem-solving strategies, functions, geometry, measurement, and basic concepts of statistics and probability. Methods used are interactive, activity-based, and guided by national and state mathematics education standards. Emphasizes conceptual understanding, connections among topics, and communication of mathematical thinking.

MATH 114 Applied Algebra, Geometry and Trigonometry (5)

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& 131 Math for Elem Educ 1: Number Systems and Problem Solving (5)

GER-QS

(formerly MATH& 171)

Prereq: MATH 096 or MATH 098 or equivalent with a grade of at least 2.0 or satisfactory placement test score and eligible for

ENGL& 101 and READ 101 .

The first of two 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& 132 Math for Elem Educ 2: Geometry and Statistics (5)

GER-QS

(formerly MATH& 172 and MATH& 173)

Prereq: MATH& 131 with a grade of at least 2.0 or instructor permission.

This is the second of two courses for prospective elementary teachers focusing on the foundation underlying modern elementary school math. Topics include geometry, measurement, probability and descriptive statistics. This course emphasizes deep conceptual understanding of content, connections among topics, and communication of mathematical ideas. Appropriate technology is incorporated.

MATH& 141 Precalculus I (5)

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 Precalculus II (5)

GER-NS, QS

Prereq: MATH& 141 with a grade of at least 2.0, satisfactory placement test score 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 Introduction to Statistics (5)

GER-NS, QS

Prereq: MATH 096 or MATH 098 or equivalent with a grade of at least 2.0 or satisfactory placement test score.

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 147 Business Precalculus (5)

GER-NS, QS

(formerly MATH 147/MATH 156 Finite Mathematics)

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& 148 Business Calculus (5)

GER-NS, QS

Prereq: MATH& 141 or MATH 147 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 Calculus I (5)

GER-NS, QS

Prereq: MATH& 142 with a grade of at least 2.0 or satisfactory placement test score or instructor permission.

Families of algebraic and transcendental functions and their derivatives. Limits, including indeterminate forms. Applications of differential calculus. Anti-derivatives.

MATH& 152 Calculus II (5)

GER-NS, QS

Prereq: MATH& 151 with a grade of at least 2.0 or higher 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 Calculus III (5)

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 205 Linear Algebra (5)

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 224 Multivariate Calculus (5)

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 Differential Equations (5)

GER-NS, QS

Prereq: MATH 205 and MATH 224 with a grade of 2.0 or higher or 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.

Music

MUSC 100 Introduction to Rock & Roll (5)

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 American Popular Music (5)**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 Introduction to Jazz (5)**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 and 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 Music Appreciation (5)**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 that pertain to art music and its performance are covered. 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 World Music (5)**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 Audio Production I: Beginning (2.5)

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 Audio Production II: Intermediate (2.5)

Prereq: MUSC 107

An intermediate, hands-on course that covers midi sequencing, sound reinforcement, microphone construction and application, signal processing equipment and analog multi-track recording.

MUSC 109 Audio Production III: Advanced (2.5)

Prereq: MUSC 107 and MUSC 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 Beginning Class Guitar (1)

GER-HM/Performance

A performance course designed for the beginning guitarist. No prior experience expected. Students must furnish their own guitar.

MUSC 127 Intermediate Class Guitar (1)

GER-HM/Performance

Prereq: MUSC 126 or equivalent.

A performance course designed for the intermediate guitarist. Students must furnish their own guitar.

MUSC& 141 Music Theory I (5)

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 Music Theory II (5)

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 Music Theory III (5)

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 Concert Choir (2)

GER-HM/Performance

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. Course is repeatable for additional credit up to three times in the degree.

MUSC 147 Chamber Choir (2)

GER-HM/Performance

Prereq: Audition and/or instructor permission.

An auditioned vocal performance group geared towards providing more experienced singers that read music with an opportunity to rehearse and perform choral literature appropriate to their stage of education. Quarterly concerts are a requirement. Course is repeatable for additional credit up to three times in the degree.

MUSC 150 College Band (2)

GER-HM/Performance

A large performance group open to all students with experience reading and performing instrumental band literature. Non-music major participation encouraged. Course is repeatable for additional credit up to three times in the degree.

MUSC 154 College Orchestra (1)**GER-HM/Performance**

A large performance group open to all students with experience reading and performing orchestra literature. Non-music major participation encouraged. Course is repeatable for additional credit up to three times in the degree.

MUSC 157 Jazz Band (2)**GER-HM/Performance**

A jazz instrumental performing group established to provide the experienced instrumentalist an opportunity to rehearse and perform selected jazz literature. Non-major participation encouraged. Course is repeatable for additional credit up to three times in the degree.

MUSC 160 Private Instruction: Arranging (1)**GER-HM/Performance**

Prereq: MUSC 143

An individual instruction course geared towards advancing beginning levels of arranging. Course is repeatable for additional credit up to three times in the degree.

MUSC 161 Private Instruction: Improvisation (1)**GER-HM/Performance**

An individual instruction course geared towards advancing all levels of student music performance in improvisation. Course is repeatable for additional credit up to three times in the degree.

MUSC 162 Private Instruction: Brass (1)**GER-HM/Performance**

An individual instruction course geared towards advancing all levels of student music performance in brass. Course is repeatable for additional credit up to three times in the degree.

MUSC 163 Private Instruction: Woodwind (1)

GER-HM/Performance

An individual instruction course geared towards advancing all levels of student music performance in woodwinds. Course is repeatable for additional credit up to three times in the degree.

MUSC 164 Private Instruction: Percussion (1)

GER-HM/Performance

An individual instruction course geared towards advancing all levels of student music performance in percussion. Course is repeatable for additional credit up to three times in the degree.

MUSC 165 Private Instruction: Voice (1)

GER-HM/Performance

An individual instruction course geared towards advancing all levels of student music performance in voice. Course is repeatable for additional credit up to three times in the degree.

MUSC 166 Private Instruction: Orchestral Strings (1)

GER-HM/Performance

An individual instruction course geared towards advancing all levels of student music performance in orchestral strings. Course is repeatable for additional credit up to three times in the degree.

MUSC 167 Private Instruction: Keyboard (1)

GER-HM/Performance

An individual instruction course geared towards advancing all levels of student music performance in keyboard. Course is repeatable for additional credit up to three times in the degree.

MUSC 168 Private Instruction: Plectrum Strings (1)

GER-HM/Performance

An individual instruction course geared towards advancing all levels of student music performance in plectrum. Course is repeatable for additional credit up to three times in the degree.

MUSC 170 Brass Ensemble (1)**GER-HM/Performance**

Prereq: Instructor permission required.

A small performance group open to all students with experience in reading and performing brass ensemble literature (i.e., brass quartet). Outside performances required. Student self-initiative is a vital component of success in this class. Course is repeatable for additional credit up to three times in the degree.

MUSC 171 Woodwind Ensemble (1)**GER-HM/Performance**

Prereq: Instructor permission required.

A small performance group open to all students with experience in reading and performing woodwind ensemble literature (i.e., flute trio, woodwind quintet). Outside performances required. Student self-initiative is a vital component of success in this class. Course is repeatable for additional credit up to three times in the degree.

MUSC 172 Percussion Ensemble (1)**GER-HM/Performance**

Prereq: Instructor 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. Course is repeatable for additional credit up to three times in the degree.

MUSC 173 String Ensemble (1)**GER-HM/Performance**

Prereq: Instructor 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. Course is repeatable for additional credit up to three times in the degree.

MUSC 174 Vocal Ensemble (1)

GER-HM/Performance

Prereq: Instructor 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. Course is repeatable for additional credit up to three times in the degree.

MUSC 181 Beginning Class Piano (1)

GER-HM/Performance

Basic introduction to playing the piano by establishing good reading habits and rhythmic orientation. Building a strong technical background and learning basic fundamentals of music theory.

MUSC 182 Intermediate Class Piano (1)

GER-HM/Performance

Prereq: MUSC 181 or instructor permission.

A continuation of MUSC 181 by establishing better reading habits and rhythmic orientation. Building a stronger technical background and learning more fundamentals of music theory.

MUSC 183 Advanced Class Piano (1)

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 205 Music for Teachers (5)

GER-HM

A general introduction to music as applied to the developmental foundation of learning in young children. Explores theories, techniques, cultural influences, and curriculum design.

MUSC& 241 Music Theory IV (5)

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 Music Theory V (5)

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 Music Theory VI (5)

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.

MUSC 244 Concert Choir (2)

GER-HM/Performance

Prereq: Audition may be required.

A non-auditioned vocal performance group geared toward providing the experienced singer with an opportunity to rehearse and perform choral literature. Quarterly concerts a requirement. Non-music major participation encouraged. Course is repeatable for additional credit up to three times in the degree.

MUSC 247 Chamber Choir (2)

GER-HM/Performance

Prereq: Audition and/or instructor permission.

An auditioned vocal performance group geared toward providing more experienced singers that read music with an opportunity to rehearse and perform choral literature appropriate to their stage of education. Quarterly concerts are a requirement. Course is repeatable for additional credit up to three times in the degree.

MUSC 250 College Band (2)**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. Course is repeatable for additional credit up to three times in the degree.

MUSC 254 College Orchestra (1)**GER-HM/Performance**

A large performance group open to all students with experience reading and performing orchestra literature. Non-music major participation encouraged. Course is repeatable for additional credit up to three times in the degree.

MUSC 257 Jazz Band (2)**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. Course is repeatable for additional credit up to three times in the degree.

MUSC 260 Private Instruction: Arranging (1)**GER-HM/Performance**

Prereq: MUSC 143

An individual instruction course geared towards advancing beginning levels of arranging. Course is repeatable for additional credit up to three times in the degree.

MUSC 261 Private Instruction: Improvisation (1)

GER-HM/Performance

An individual instruction course geared towards advancing all levels of student music performance in improvisation. Course is repeatable for additional credit up to three times in the degree.

MUSC 262 Private Instruction: Brass (1)

GER-HM/Performance

An individual instruction course geared towards advancing all levels of student music performance in brass. Course is repeatable for additional credit up to three times in the degree.

MUSC 263 Private Instruction: Woodwind (1)

GER-HM/Performance

An individual instruction course geared towards advancing all levels of student music performance in woodwinds. Course is repeatable for additional credit up to three times in the degree.

MUSC 264 Private Instruction: Percussion (1)

GER-HM/Performance

An individual instruction course geared towards advancing all levels of student music performance in percussion. Course is repeatable for additional credit up to three times in the degree.

MUSC 265 Private Instruction: Voice (1)

GER-HM/Performance

An individual instruction course geared towards advancing all levels of student music performance in voice. Course is repeatable for additional credit up to three times in the degree.

MUSC 266 Private Instruction: Orchestral Strings (1)

GER-HM/Performance

An individual instruction course geared towards advancing all levels of student music performance in orchestral strings. Course is repeatable for additional credit up to three times in the degree.

MUSC 267 Private Instruction: Keyboard (1)

GER-HM/Performance

An individual instruction course geared towards advancing all levels of student music performance in keyboard. Course is repeatable for additional credit up to three times in the degree.

MUSC 268 Private Instruction: Plectrum Strings (1)

GER-HM/Performance

An individual instruction course geared towards advancing all levels of student music performance in plectrum. Course is repeatable for additional credit up to three times in the degree.

MUSC 270 Brass Ensemble (1)

GER-HM/Performance

Prereq: Instructor permission required.

A small performance group open to all students with experience in reading and performing brass ensemble literature (i.e., brass quartet). Outside performances required. Student self-initiative is a vital component of success in this class. Course is repeatable for additional credit up to three times in the degree.

MUSC 271 Woodwind Ensemble (1)

GER-HM/Performance

Prereq: Instructor permission required.

A small performance group open to all students with experience in reading and performing woodwind ensemble literature (i.e., flute trio, woodwind quintet). Outside performances required. Student self-initiative is a vital component of success in this class. Course is repeatable for additional credit up to three times in the degree.

MUSC 272 Percussion Ensemble (1)

GER-HM/Performance

Prereq: Instructor 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. Course is repeatable for additional credit up to three times in the degree.

MUSC 273 String Ensemble (1)

GER-HM/Performance

Prereq: Instructor 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. Course is repeatable for additional credit up to three times in the degree.

MUSC 274 Vocal Ensemble (1)

GER-HM/Performance

Prereq: Instructor 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. Course is repeatable for additional credit up to three times in the degree.

Natural Science

NSCI 150 Nature (5)

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 adaptations to the environment. The course focuses on the observation of nature for both scientific and recreational purposes. Includes lab and field studies.

NSCI 160 Environmental Biology (5)

GER-NS

Inter-relationship of humans, animals, plants, soil, water and air. Application to contemporary environmental problems. Field trips with lab.

NSCI 300 Inquiry Based Science for Teachers (5)

GER-NS

An overview of the main concepts in natural science for early childhood teachers including topics in earth/space science, life science, physical science, and engineering design. Lab included.

Nursing

NURS 111 Fundamentals of Nursing Practice (3)

Prereq: Admission to the Associate Degree Nursing program.

Introduces basic concepts in nursing practice according to the Nursing Process 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 Fundamentals of Nursing Clinical Practice (3)

Prereq: Admission to the Associate Degree Nursing program and NURS 111.

Application of basic nursing skills 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 Nursing Process Model are used to guide developing nursing practice.

NURS 113 Nursing Success Seminar (3)

Prereq: Admission to the Associate Degree Nursing program.

Provide new nursing students with tools for success for the nursing program to include the introduction to medical terminology, med math basics, APA writing, introduction to presentation formats, study tips and strategies for answering NCLEX (National Council Licensure Exams) style questions.

NURS 121 Introduction to Medical-Surgical/Psychiatric Nursing (4)

Prereq: HSCI 114, HSCI 116 and NURS 112.

Introduction to basic medical concepts in nursing practice, according to the Nursing Process Model. Students will practice and demonstrate use of the nursing process in order to care for individuals experiencing disorders of the musculoskeletal, sensory and endocrine systems. The Nursing Process will be explored in order to understand introductory concepts in Psychiatric Nursing.

NURS 122 Introduction to Nursing Clinical Practice (5)

Prereq: HSCI 114, HSCI 116, NURS 111, NURS 112 and NURS 121.

Application of basic nursing skills in the classroom laboratory and long term care setting, while assuming responsibility for clients throughout the lifespan. Includes roles and responsibilities of the nurse, nursing theory, critical thinking, the nursing process and an introduction to related technology. The application of medication administration skills will also be covered. Concepts of the Nursing Process Model are used to guide developing nursing practice to individuals in the community.

NURS 125 Family Nursing (3)

Prereq: Admission to the Associate Degree Nursing program.

Introduction to basic medical concepts in family centered nursing care, according to the Nursing Process Model. The principles necessary for the care of clients in a variety of settings throughout the lifespan will be explored, focusing on care of the well mother and child and pediatric clients. Course also includes the life stages and caring for the geriatric clients within the community.

NURS 130 Intermediate Medical-Surgical/Psychiatric Nursing (6)

Prereq: HSCI 114, HSCI 116, NURS 111, NURS 112, NURS 121, NURS 122, NURS 125 and NURS 132.

Intermediate medical concepts in medical-surgical/psychiatric nursing practice, according to the Nursing Process 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.

NURS 132 Intermediate Nursing Clinical Practice (6)

Prereq: HSCI 114, HSCI 116, NURS 111, NURS 121, NURS 122, NURS 125 and NURS 130.

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.

NURS 210 Advanced Topics in Nursing (4)

Prereq: Year one in the nursing program, or NURS 218 with current LPN license.

Advanced medical concepts in medical-surgical nursing practice will be explored. 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.

NURS 211 Advanced Nursing Clinical Practice (6)

Prereq: Year one of the nursing program, or NURS 218 and 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 Nursing Process are used to guide developing nursing practice to individuals in the community in a variety of settings.

NURS 214 Advanced Concepts in Family Centered Nursing Care (3)

Prereq: Year one of the nursing program, or current LPN license.

Advanced medical concepts in nursing practice, according to the Nursing Process. 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 obstetric, neonatal and pediatric clients to include reproductive health.

NURS 217 Practical Nurse Preparation Seminar (1)

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 practical nurse.

NURS 218 Associate Degree Nursing Articulation Seminar (2)

Prereq: Admission as an LPN transition student into the 4th quarter of the nursing program.

Articulation course for Licensed Practical Nurse (LPN) transition 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 Professional Nursing Clinical Practice (5)

Prereq: NURS 210, NURS 211, NURS 214 and concurrent enrollment in NURS 223 and NURS 224.

Application of advanced nursing skills 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 Nursing Process are used to guide nursing practice in a variety of community settings.

NURS 223 Advanced Psychiatric Nursing (3)

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 Nursing Process as a guide.

NURS 224 Professional Role Transition (3)

Prereq: NURS 210, NURS 211, and NURS 214.

Synthesis of advanced nursing concepts in nursing practice, according to the Nursing Process Model. Nursing law, ethical responsibilities, and cultural awareness will be explored. Basic leadership skills including delegation, working with groups and critical thinking strategies are emphasized, with a focus on self-care to optimize professional performance.

NURS 230 Advanced Topics in Nursing II (3)

Prereq: NURS 210, NURS 211, NURS 214, NURS 222, NURS 223, NURS 224, NURS 233 and HSCI 235.

Advanced medical concepts in medical/surgical/psychiatric nursing practice. 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 on providing nursing care in critical care, telemetry, oncology, neonatal intensive care units and emergency departments as well as other specialized settings. The nursing role in disaster preparedness and during a catastrophic event is also discussed.

NURS 233 Acute Care Nursing Practicum (8)

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 Nursing Process 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.

Nursing Assistant Certified

NAC 101 Nursing Assistant Theory (7)

Prereq: Reading placement test with a minimum of 85. Admission into NAC course. See Pre-Nursing Advisor for application.

Introduction to the role, scope and practice of the Nursing Assistant. Student will learn patient and resident rights, communication skills, infection control principles and safety principles. Concepts learned will be applied in the nursing lab.

NAC 105 Nursing Assistant Lab (3)

Prereq: Successful completion of NAC 101. Up-to-date immunizations. Successful completion of appropriate background check.

Concepts and principles learned in theory will be applied in the nursing skills lab. Important skills are communication, safe care and transferring, appropriate bathing, feeding and personal care of residents. Emphasis is on safety, risk and hazard reduction and resident-centered care.

NAC 107 Nursing Assistant Clinical (2)

Prereq: Successful completion of NAC 101 and NAC 105. Up-to-date immunizations; current American Heart Association Health-Care Provider CPR card.

Knowledge and skills learned in theory and lab are applied in the clinical area with patients and residents, primarily in long-term care facilities. In addition, important practices to be learned and applied are time management, prioritization in changing patient situations, team and interpersonal communication, and appropriate documentation.

Nutrition

NUTR& 101 Nutrition (5)

GER-NS

Prereq: College level reading, by placement assessment or successful completion of READ 099.

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 100 Introduction to Occupational Safety and Health (5)

Overview of occupational safety and health, including introduction to regulatory agencies, financial and human impact of occupational injuries and 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 Safety Management (5)

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 by developing site-specific programs, policies and procedures.

OSH 140 Regulatory Environment (3)

Introduction to regulatory bodies and overview of 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 Workers Compensation & Risk Management (3)

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 Washington State Disability Act will be explored. Covers business insurance, claims process, transfer, assumption, assessment of risk and lines of insurance.

OSH 155 Special Topics in OSH - I (2)

Topics covered will vary or rotate depending on current events and changes in the field of Occupational Safety and Health. Sample topics include: workplace violence, transportation safety, medical surveillance, health epidemics, agriculture safety, etc.

OSH 160 Incident Investigation (3)

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 Training Techniques (5)

Overview of different learning styles and effective methods for providing training to employees. Advantages and disadvantages of different training media and associated costs. Opportunities to provide training to other class members on selected safety topics and use different training methodologies.

OSH 190 Industrial Security (3)

Overview of the All Hazards Approach to industrial security. Site-specific vulnerability assessments and development of Emergency Action Plans, loss prevention, industrial security, history of terrorism and terrorist threats and workplace violence. The National Incident Management System (NIMS) will be introduced.

OSH 220 Industrial Hygiene (3)

Basics of industrial hygiene programs and relationship to company safety plan. Addresses chemical absorption into the body; physical and airborne hazards; sampling techniques; how to identify and apply hazard control techniques; and using Material Safety Data Sheet (MSDS).

OSH 230 Ergonomics (3)

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 Handling Hazardous Materials (4)

Overview of regulations on hazard recognition, protective equipment, biological and radiological toxicology, monitoring decontamination. Includes 40 hours of OSHA required safety training and certification for workers and supervisors. This hands-on course covers all regulations. Site simulations are conducted.

OSH 255 Special Topics in OSH II (1-3)

Topics covered will vary or rotate depending on current events and changes in the field of Occupational Safety and Health, sample topics include workplace violence, transportation safety, medical surveillance, health epidemics, agriculture safety, etc.

OSH 291 OSH Internship (3)

Prereq: Enrollment in the Occupational Safety and Health Program and instructor permission.

Participants will obtain and participate in an occupational safety and health extramural work experience in their chosen area of interest.

Oceanography

OCEA& 101 Introduction to Oceanography (5)

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, tides, 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 Marine Biology (5)

GER-NS

Prereq: BIOL& 160 or OCEA& 101 recommended.

An introduction to the plant and animal life found in estuarine and marine ecosystems and environments. Topics include lifestyles, adaptation, habitats, diseases, effects of pollution, interrelationships and taxonomic identification of marine organisms. Field trip required. Labs included.

Philosophy

PHIL& 101 Introduction to Philosophy (5)

GER-HM

An introduction to the important problems and figures of philosophy. Students will examine what philosophers are trying to find out and how a philosophical project differs from the projects of other disciplines. Questions posed may include, among others: Do we have free will? What can we know? What makes right acts right?

PHIL 110 Introduction to Bioethics (5)**GER-HM**

An introduction to the major ethical issues concerning genetics, biotechnology and modern medicine, including ethical issues surrounding stem cell research, human and animal cloning, genetically modified plants and gene therapy.

PHIL& 115 Critical Thinking (5)**GER-HM**

(formerly PHIL 115)

An informal, non-symbolic introduction to logic and critical thinking emphasizing real-life examples, natural language applications and the informal logical fallacies.

PHIL& 120 Symbolic Logic (5)**GER-QS, NS**

(formerly PHIL& 106)

Prereq: MATH 096 or equivalent with a 2.0 or higher or placement test score above MATH 096. College level reading and writing recommended.

Introduction to modern symbolic logic emphasizing sentence logic with translation and proofs and quantificational logic with translation and proofs.

PHIL 130 Introduction to Systems Thinking (2)

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 Integrated Systems Thinking (3)

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 Introduction to Ethics (5)

GER-HM

An introduction to the study of morality. Helps students understand and analyze competing ethical claims based on happiness, duty, human nature and custom. Questions include: What makes 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 210 Philosophy of Western Religion (5)

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 Introduction to Eastern Philosophy (5)

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 they relate to self, reality, value, knowledge and religion.

PHIL 230 Contemporary Moral Problems (5)

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 euthanasia.

PHIL 238 Philosophy of Human Rights (5)

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 119 Cycling (1)

An introduction to cycling (both road & mountain bike), designed to improve cardiovascular endurance, muscular strength, muscular endurance, flexibility and body composition.

PE 121 Spin (1)

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 Lifestyle Fitness (1)

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 Hard Core (1)

This is a challenging core fitness workout using balance, coordination, stability and control. Stability balls, free weights, bands, Bosu and Pilates techniques are used.

PE 127 Power Step (1)

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 129 Cardio Pump (1)

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 Body Conditioning (1)

An independent fitness course that will provide the student with the necessary information to start on a path to fitness and wellness by adhering to a healthy lifestyle. This course will enable the student to develop a personal program that promotes lifetime physical fitness, preventative health care, and personal wellness.

PE 132 Jogging (1)

Progressive running program to improve cardio-vascular endurance, to build stamina important in performing everyday skills and activities, to lower fat percentage and to improve overall health.

PE 139 Yoga-Special Topics (1)

Yoga Special Topics is a diverse approach to the modern practice of Yoga with varying topics being introduced. It includes yoga, dance and yoga sculpt in practical workouts to reduce stress while improving strength and flexibility.

PE 140 Total Fitness (2)

Total Fitness is a current approach to establishing and promoting physical fitness for better health. Combination lecture and lab, stressing the importance of life-long fitness. Course will include individual assessment and self-evaluation, development of exercise prescription and implementation of program.

PE 153 Beginning Salsa (1)

Beginning Salsa dance skills designed to improve cardiovascular endurance, self-esteem, social confidence and motor skills.

PE 158 Zumba (1)

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 Yoga-Pilates (1)

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 Basic Basketball Skills (1)

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 Advanced Basketball Skills (1)

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 167 Court Sports (1)

This course is designed to introduce the skills, and rules of the following recreational and competitive sports: Volleyball, Pickle Ball and Badminton.

PE 168 Indoor Soccer (1)

This is a course designed to allow students to participate in small sided indoor soccer games.

PE 169 Volleyball (1)

This course is designed to introduce students to the skills of volleyball, rules of the game and introductory team tactics.

PE 170 Introduction to Weight Training (1)

This course is designed to introduce students to weight training as a form of exercise to build muscular strength and endurance.

PE 171 Soccer (1)

An introduction to soccer skills utilizing both indoor and outdoor facilities.

PE 175 Mixed Martial Arts for Fitness (1)

An introduction to mixed martial arts for fitness focusing on the fundamentals of grappling, striking and submission skills.

PE 180 Baseball/Softball Conditioning (1)

This is a baseball/softball conditioning course designed to help students improve all components of fitness for baseball and softball performance, using both indoor and outdoor facilities.

PE 185 Naturally Fit (1)

A health and fitness class designed to improve cardiovascular endurance, muscular strength, muscular endurance, flexibility and body composition by utilizing the "nature gym" afforded us in the outdoor environment. Students achieve this goal by utilizing the varied fitness resources available both in and around the natural environment of Pierce College and in the Health Education Center to become "Naturally Fit."

PE 190 Independent Fitness Activities (1)

An independent physical activity course designed to be monitored through self-reporting to the instructor. Students will implement a comprehensive personal fitness program that promotes lifetime physical fitness. Students are expected to self-monitor themselves and manipulate the variables of exercise to promote improvements in each of the health related and skill related components of fitness.

PE 191 Independent Fitness Activities (1)

An independent physical activity course designed in a series (PE 190-191) so students can continue to self-monitor their physical fitness progress. Students will continue to build on concepts learned in PE 190 and implement a comprehensive personal fitness

program that promotes lifetime physical fitness. Students will continue to manipulate the variables of exercise to promote improvements in each of the health related and skill related components of fitness.

PE 192 Independent Fitness Activities (1)

Prereq: PE 190 or PE 191.

An independent physical activity course designed and monitored through self-reporting to the instructor. Students will implement comprehensive independent fitness programs that are flexible and convenient to promote cardiovascular endurance, muscular strength, muscular endurance, flexibility and improve body composition.

PE 225 Intermediate Lifestyle Fitness (1)

An exercise class designed to build upon and further improve cardiovascular endurance, muscular strength, muscular endurance, flexibility and body composition. Students achieve this goal by utilizing the varied fitness resources available in the Health Education Center as well as walking, running, inline skating and cycling in and around the natural environment of Pierce College.

PE 226 Advanced Hard Core (1)

Prereq: PE 126 or instructor permission.

This is an advanced core fitness workout using balance, coordination, stability and control. Stability balls, free weights, bands, Bosu and Pilates techniques are used.

PE 231 Intermediate Body Conditioning (1)

A self-paced and independent fitness program designed to build upon and improve fitness and health. This course is monitored during three class seminars designed to improve cardiovascular endurance, muscular strength, muscular endurance, flexibility and body composition using both aerobic and anaerobic exercises.

PE 232 Intermediate Jogging-Walking (1)

This is an intermediate jogging/walking course designed for students to further develop a progressive running/walking program. This course will also help students to further improve cardio-vascular endurance and to build muscular endurance to assist with activities of daily living and overall personal health.

PE 253 Advanced Salsa (1)

Prereq: PE 153 or instructor permission.

An advanced salsa course designed to introduce advanced level steps in salsa and further improve upon fundamental skills learned in beginning salsa.

PE 259 Intermediate Yoga-Pilates (1)

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.

PE 268 Intermediate Indoor Soccer (1)

This is an intermediate course designed to build upon and improve existing indoor soccer skills.

PE 269 Intermediate Volleyball (1)

This is an intermediate course designed to build upon and improve existing volleyball skills.

PE 270 Intermediate Weight Training (1)

This is an intermediate course designed to build upon and improve weight training skills to build muscular strength and endurance.

PE 271 Intermediate Soccer (1)

This is an intermediate course designed to build upon and improve existing outdoor soccer skills.

Physical Science

PS 101 Introduction to Physical Science (5)

GER-NS

Prereq: High school algebra or MATH 096 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& 110 Physics for Non-Science Majors (5)

GER-NS

(formerly PHYS& 100)

Prereq: High school algebra or MATH 096 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 Preparation for General Physics (4)

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& 114 General Physics I (5)

GER-NS

(formerly PHYS& 121)

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 equilibrium. Lab included.

PHYS& 115 General Physics II (5)

GER-NS

(formerly PHYS& 122)

Prereq: PHYS& 114 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& 116 General Physics III (5)

GER-NS

(formerly PHYS& 123)

Prereq: PHYS& 114 with a grade of at least 2.0.

The third quarter of a three-quarter sequence in algebra-based physics dealing with the topics of electric forces and fields, electric potential, capacitance, current, resistance, electrical power, direct current circuits, magnetism, electromagnetic induction and alternating current circuits. Lab included.

PHYS 120 Data and Error Analysis in the Science Laboratory (3)

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 139 Preparation for Engineering Physics (3)

Prereq: MATH 141 with a grade of at least 2.0 or instructor permission.

Intended to prepare students for success in calculus based physics series. Covering graphical and analytical techniques in data processing and error analysis, vector algebra, and quantitative problem solving as it pertains to solving introductory physics topics.

PHYS& 221 Engineering Physics I (6)

GER-NS

Prereq: High school physics or PHYS 114 with a grade of at least 2.0 or PHYS 139 with a grade of at least 2.0 or better and concurrent enrollment in or 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 Engineering Physics II (6)

GER-NS

Prereq: PHYS& 221 and MATH& 152 with grades of at least 2.0 in both.

The second quarter of a threequarter sequence in calculusbased 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 Engineering Physics III (6)

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 current circuits. Lab included.

Political Science

POLS& 101 Introduction to Political Science (5)

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 Introduction to Law (5)

GER-SS

Prereq: ENGL& 101 or BTECA 115 with a 2.0 grade or better or instructor permission.

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 American Government (5)

GER-SS

A description and analysis of the institutions, processes and ideas that make up the American political and governmental systems.

POLS& 203 International Relations (5)

GER-SS

Designed to develop the ability to identify the terms and concepts common to international relations, analyze the problems inherent in a multi-polar, interdependent nation-state political system, and evaluate the ways in which the various global actors attempt to deal with these problems.

POLS 208 U.S. Campaigns and Elections (5)

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 State and Local Government (5)

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& 100 General Psychology (5)

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& 180 Human Sexuality (5)

GER-SS

Human sexual behavior covering the psychological, biological and sociological aspects of human sexuality.

PSYC 192 Career Development: Theory and Application (3)

Rooted in psychological career development theories, students will study and apply theoretical approaches of self and career exploration. Additional application will include cognitive processes, adjustment theory and developmental factors that enable and affirm a decision-making process necessary to research, discern and identify career and/or vocational paths that are consistent with results. Career development theories will include personality, trait-factor, developmental and social family of origin. Class includes administration and professional interpretation of APA endorsed personality, values and interest assessments.

PSYC& 200 Lifespan Psychology (5)

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 Psychology of Personal Growth (5)

GER-SS

The study of personality, adjustment, love and relationships, self-actualization and the application of psychological principles to problems met by normal people in everyday life.

PSYC 210 Social Psychology (5)

GER-SS

Prereq: PSYC& 100

Social psychology surveys how people are affected by the world around them. Social influence includes obedience, conformity, and sales and negotiation strategies. Social relations includes stereotyping, love and liking. Social thinking includes identity, how we think about ourselves and how we explain the world.

PSYC 215 Group Experience (5)

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 psychology.

PSYC& 220 Abnormal Psychology (5)

GER-SS

Prereq: PSYC& 100

A study of the history, etiology, diagnosis and treatment of abnormal behavior.

PSYC 230 Intro to Personality (5)

GER-SS

Prereq: PSYC& 100

A survey of contemporary personality theory, assessment and change.

Reading

READ 099 Reading for College (5)

Prereq: Placement assessment.

Transition to college-level reading through developing a variety of reading skills for academic and career purposes as well as personal enrichment.

Russian

RUSS& 121 Russian I (5)

GER-HM

The first quarter of a first-year sequential course to give the student the ability to speak, read, write and understand Russian.

RUSS& 122 Russian II (5)**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 Russian III (5)**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 Service/Mental Health**SSMH 100 Introduction to Human Services (5)**

A survey of social service field history, philosophy, theory and exploration of career paths, values, education and skills needed.

SSMH 125 Observation and Intervention Skills (4)

Behavioral observation and recording techniques, report formats, interview styles, basic behavior management and referral techniques.

SSMH 170 Mental Health Interviewing and Assessment (5)

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 Identity and Values in the Family (3)

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 201 Social Service-Mental Health Field Experience 1 (5)

Prereq: Instructor permission and SSMH 100, 101, SSMH 170 or SSMH 215.

A career-related work experience, under qualified supervision, introducing the student in application of professional and technical knowledge, values and skills as preparation for employment in the social service-mental health field. Completion of 120 hours of field work is required.

SSMH 202 Social Service-Mental Health Field Experience 2 (5)

Prereq: Instructor permission and SSMH 100, 101, SSMH 170 or SSMH 215.

A career-related work experience, under qualified supervision, introducing the student in application of professional and technical knowledge, values and skills as preparation for employment in the social service-mental health field. Completion of 120 hours of field work is required.

SSMH 203 Social Service-Mental Health Field Experience 3 (5)

Prereq: Instructor permission and SSMH 100, SSMH 170 or SSMH 215.

A career-related work experience, under qualified supervision, introducing the student in application of professional and technical knowledge, values and skills as preparation for employment in the social service-mental health field. Completion of 120 hours of field work is required.

SSMH 210 Self-Care for Caregivers (3)

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 Law and Ethics in Social Services (5)

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 230 Abuse in the Family (3)

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& 101 Introduction to Sociology (5)

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 Social Problems (5)

GER-SS

A critical exploration 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 institutions.

SOC 211 Family and Intimate Relationships (5)

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 Death, Dying and Bereavement (5)

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 health care 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 Gender Roles in Society (5)

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 235 Race and Ethnicity (5)

GER-SS

A sociological exploration of race and ethnicity in contemporary society. Course may include, but is not limited to, a survey of theories, problems, nature, and the dynamics of racism - power and inequality; prejudice and discrimination; racial and ethnic identity; stratification; segregation; and patterns of racial/ethnic relations. Topics are examined conceptually and historically, using data from scientific, philosophical, sociopolitical, legal and cultural sources.

Spanish

SPAN& 121 Spanish I (5)

GER-HM

A first-year sequential course to give the student the ability to speak, read, write and understand Spanish.

SPAN& 122 Spanish II (5)

GER-HM

Prereq: SPAN& 121 grade of 2.0 or better, 1 year of high school Spanish plus placement in ENGL& 101; or instructor permission.

Second quarter of first-year Spanish stressing speaking, reading, writing and understanding Spanish.

SPAN& 123 Spanish III (5)

GER-HM

Prereq: SPAN& 122 with a grade of 2.0 or better; or 2 years of high school Spanish plus placement in ENGL& 101; or instructor permission.

A continuation of first-year Spanish stressing speaking, writing, reading and understanding Spanish.

SPAN& 221 Spanish IV (5)

GER-HM

Prereq: SPAN& 123 or 3 years of 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.

Veterinary Technology

VT 100 Introduction to Veterinary Technology (2)

Survey of the veterinary medical profession and the role of the technician within the profession. Outlines job opportunities, ethics, husbandry terms for various species including breed identification, and common infectious diseases of dogs and cats.

VT 101 Animal Nursing I Lecture (2)

Prereq: First-year standing in the Veterinary Technology program.

Discussion of the handling and restraint of small animals in medical nursing. Clinical applications of veterinary nursing care. Discussion of the administration of medication as related to nursing care of the hospitalized animal.

VT 102 Animal Nursing I Laboratory (2)

Prereq: First year standing in the Veterinary Technology program.

The handling and restraint of small animals in medical nursing. Administration of medication as related to nursing care of the hospitalized animal.

VT 104 Animal Nursing II (5)

Prereq: First-year standing in the Veterinary Technology 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 Animal Nursing III (3)

Prereq: First-year standing in the Veterinary Technology program.

Basic care and treatment of exotic pet species with an overview of common medical problems and their management.

VT 107 Medical Dosage for Veterinary Technicians (2)

Prereq: First-year standing in the Veterinary Technology program.

A course designed to help the Veterinary Technology student determine accurate veterinary medicine dosage calculations and conversions.

VT 110 Ward Care Laboratory I (1)

Prereq: First year standing in the Veterinary Technology 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 111 Ward Care Laboratory II (1)

Prereq: First year standing in the Veterinary Technology 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 112 Ward Care Laboratory III (1)

Prereq: First year standing in the Veterinary Technology 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 Large Animal Nursing (4)

Prereq: First year standing in the Veterinary Technology program.

Large animal husbandry techniques and procedures for basic restraint and treatment of horses and food animals.

VT 125 Animal Anatomy and Physiology I (6)

Prereq: First year standing in the Veterinary Technology program.

Study of animal body structure and function beginning with cellular components and including selected major body systems.

VT 126 Animal Anatomy and Physiology II (3)

Prereq: First-year standing in the Veterinary Technology program.

Continuation of VT 125 to study animal body structure and function by including additional major body systems.

VT 150 Clinical Microbiology and Public Health (6)

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 Nutrition and Complementary Therapies (2)

Prereq: First-year standing in the Veterinary Technology 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 Applied Behavior Techniques I (2)

Prereq: First-year standing in the Veterinary Technology 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 and solutions seen in the veterinary field.

VT 161 Applied Behavior Techniques II (1)

Prereq: First-year standing in the Veterinary Technology 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 Applied Behavior Techniques III (1)

Prereq: First-year standing in the Veterinary Technology 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 and 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 Hematology for Veterinary Technicians (4)

Prereq: First-year standing in the Veterinary Technology 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 Animal Hospital Office Procedures (2)

Prereq: Second-year standing in the Veterinary Technology program.

Veterinary Technology course offering a broad view of typical veterinary clinic office procedures. Emphasis placed on the role of a veterinary technician in various professional settings.

VT 222 Hematology for Veterinary Technicians (4)

Prereq: Second-year standing in the Veterinary Technology program.

Study of blood formation, including recognition of normal and abnormal blood cells from domestic and exotic animals, and accurate performance of the CBC.

VT 224 Veterinary Clinical Laboratory Principles (2)

Prereq: Second-year standing in the Veterinary Technology program.

Lecture course covering advanced laboratory principles and techniques in hematology, urinalysis, cytology, bacteriology and parasitology.

VT 230 Anesthesiology (4)

Prereq: Second-year standing in the Veterinary Technology program.

Small animal anesthesia techniques focusing on agents, administration and management of the anesthetized patient.

VT 233 Veterinary Clinical Practice (14)

Prereq: Second-year standing in the Veterinary Technology program.

Practical field experience with weekly seminar.

VT 240 Animal Diseases (3)

Prereq: Second-year standing in the Veterinary Technology program.

Lecture course covering the fundamentals of animal disease, including etiology, nursing care and laboratory procedures which apply to the particular disease syndrome.

VT 250 Radiology for Veterinary Technicians (3)

Prereq: Second-year standing in the Veterinary Technology program.

A course emphasizing radiography focusing on basic machine 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 Pharmacology for Veterinary Technicians (3)

Prereq: Second-year standing in the Veterinary Technology 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 Emergency and Critical Care (3)

Prereq: Second year standing in the Veterinary Technology program.

Overview of common small animal emergencies and the role the veterinary technician plays in the management of these patients.

VT 265 Clinical Techniques Laboratory (6)

Prereq: Second-year standing in the Veterinary Technology program.

Advanced laboratory principles and techniques for veterinary technicians.

VT 266 Veterinary Clinical Pathology and Parasitology (5)

Prereq: Second-year standing in the Veterinary Technology 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.

Appendix

Personnel

FULL-TIME FACULTY & ADMINISTRATION

| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z |

AIGNER, SCOTT

Assistant Professor, Art; (PY); B.A., M.A., Eastern Illinois University; M.F.A. Ohio State University

ARNOLD, DENISE L.

Professor/Coordinator, Social Service/Mental Health (FS); B.A., University of Washington; MHR, University of Oklahoma; Ph.D., Gonzaga University

AYUK, GILBERT

Assistant Professor, Physics; M.A., Wayne State University; M.A., University of Buea

BAILLON, AMBER

Assistant Professor, College Success; B.A., St. Norbert College; M.S., Miami University

BAKER, DIANA R.

Manager, Workforce Job Connections; B.A., Pacific Lutheran University

BARIA, JOANN W.

Vice President for Workforce, Economic and Professional Development; B.S., M.S., University of North Texas

BASSETT, KATHY B.

Professor, Dental Hygiene (FS); B.S.D.H., Eastern Washington University; Graduate Certificate, City University; M.Ed., Lesley College; R.D.H.

BEMIS, CHAD

Assistant Professor, Mathematics (FS); B.A., M.A. Mathematics, California State University Sacramento

BENEDETTI, BRIAN B.

Director, Marketing and Communications; B.A., Central Washington University; M.Ed., Lesley University

BENSON, KELLY K.

Dean, Student/Enrollment Services, Pierce College Military Program; BS, Central Washington University; MPA, Washington State University Vancouver

BERGSTROM, TEAH C.

Professor/Coordinator, Adult Basic Education (PY); B.A., Western Washington University; M.A., City University

BLAGG, ONEIDA

Executive Officer for Equity, Diversity & Inclusion; M.A. Pacific Lutheran University; Studied Equal Opportunities at the Defense Equal Opportunity Management Institute. B.A. from Pacific Lutheran University

BLOOMER, CIARAN P.

Professor/Coordinator, Computer Network Engineering (PY); B.S., M.S., London University; M.S., University of Manchester Institute of Science and Technology

BLUM, DALE E.

Professor, Biological and Health Science (PY); B.A., M.S., Ph.D., University of Washington

BRAZELL, GREGORY C.

Director, Center for Engagement and Learning (CEAL); B.A., Central Washington University; M.A., Lesley University

BREWER, IRENE C.

Associate Professor/Coordinator, Reading/College Success (FS); B.A., Eastern Washington University; B.A., Western Washington University; M.Ed., Lesley University

BROOKS, EVELYN M.L.

Coordinator, PierceWorks!; B.S., Southern Illinois University; M.A., Chapman University

BROXSON, THOMAS A.

Instructional Dean; B.A., M.A., California State University, Fullerton

BURGHAGEN, SABINE

Assistant Professor, ESL (PY); M.Ed., Staatliche Realschule Erlangen 2

BRUNNEMER, KRISTIN C.

Professor, English (FS); B.A., University of California, Santa Barbara; M.A., Ph.D., University of California, Riverside

BURKHOLDER, BRET G.

Professor, Faculty Counselor/Advisor (PY); A.A.S., Fort Steilacoom Community College; B.A., M.A., Pacific Lutheran University

BUSH, THOMAS A.

Professor, Earth Sciences (PY); B.S., University of Washington; M.S., Washington State University

CABLE, SUSAN A.

Director, Workforce Development (FS); A.A., Allan Hancock College; B.A., Chapman College

CALDWELL, LESLEY

Professor, Systems and Instruction Librarian (FS/PY); B.S., M.S., University of Texas

CAMPBELL, MATTHEW

Vice President, Learning and Student Success (PY); B.A. Political Science, University of Delaware; M.Ed. Educational Leadership and Policy Studies, University of Washington; Ed.D. Educational Leadership and Policy Studies, Temple University

CATES-CARNEY, JOSEPH

Associate Professor, Human Biology/Health Science (PY); B.A., Seattle University; B.S., N.D. Bastyr University

CAVALLUZZI, MARTY R.

President, Pierce College Puyallup; A.A., Orange Coast College; B.S. Fisheries, Humboldt State; M.A., Ph.D. Marine Science, The College of William and Mary University

CHENG, BENJAMIN

Assistant Professor, Earth Sciences; M.A., University of Kentucky; Ph.D., University of Illinois

COLEMAN, LINDA E.

Associate Professor, Basic Skills (WSH); B.A., University of Maryland; M.Ed., Gallaudet University; Ed.D, Pepperdine University

CONTRIS, MARKIVA V.

Professor, Veterinary Technology (FS); Associate in Veterinary Technology, Pierce College; B.A., Western Washington University

COOKE, SEAN

Director, Student Life (PY); A.A., Pierce College; B.A., University of Washington Tacoma; M.Ed., Western Washington University

COX, CAMERON

Director, Student Life (FS); B.A., William Jessup University; M.A., Geneva College

CRERAR, LINDA G.

Director, Homeland Security/CE; B.A., Evergreen State College; M.ABS, Whitworth College

CROSWAITE, SANDRA J.

Professor, Psychology (PY); B.A., B.Ed., M.S., Central Washington University

DAUGHERTY, HENRY P.

Professor, Communication/Theatre/Film (FS); B.A., University of Tulsa; M.A., Louisiana Tech University

DEMING, ELS E. E.

Director, Enrollment Services (PY); B.A., University of Washington Tacoma

DRAPER DAVIS, JULIE

District Conduct Officer; B.A., University of Portland; M.A., Michigan State University; Ph.D., Colorado State University

DURFLINGER, NATALIE

Assistant Professor, Criminal Justice; B.A., University of Washington; Ph.D., Gonzaga University of Law

DURANO, RHONDA

Assistant Professor, Nursing (PY); A.A., Big Bend Community College; B.S.N., M.A. Nursing, University of Washington Tacoma

EDWARDS, COURTNEY

Assistant Professor, English (PY); B.A. English, Appalachian State University; M.A. English (Rhetoric/Composition), Western Carolina University

FLYNN, CHRISTIE J.

Dean, Libraries and Learning Resources; B.A., Southwestern University; MLIS, University of Texas at Austin

FORSYTHE, DEENA D.

Director, Employee Relations/Compliance; B.S.H.R., Western Washington University; M.B.A., Brandman University

FOSTER-GRAHLER, ROBERTA D.

Professor/Coordinator, Criminal Justice (FS); A.A., Big Bend Community College; B.A., Eastern Washington University; M.A., The Evergreen State College

FREY, VALERIE J.

Manager, Running Start (PY); B.S., Bloomsburg University of Pennsylvania; M.A., The University of Oklahoma

FRYE, SARAH M.

Assistant Professor, Reference/Instruction Librarian (FS); B.A., Hanover College; M.L.S., Indiana University

GALAGAN, MARY J.

Professor, Dental Hygiene (Public Health) (FS); A.A., Clark College; B.S., Rutgers University; M.H.A., University of Washington; R.D.H.

GARCIA, ROSE A.

Manager, District Events; B.S., Florida International University

GAVINO, JOSE

Director of IT Integration; B.A., Seattle University

GERHARDT, PAUL

Professor/Coordinator, Business Management and Marketing (FS); A.A., Highline College; B.A., The Evergreen State College; Graduate Certification (Human Resources), M.A., Chapman University; Ph.D., Capella University

GERON, JO ANNE

Professor, Psychology (FS); B.A., Tel Aviv University; M.A., Antioch University; Ph.D., Pacifica Graduate Institute

GILCHRIST, DEBRA L.

Vice President, Learning and Student Success (FS); B.S., California State University Northridge; M.A., University of Denver; M.S., South Dakota State University; Ph.D., Oregon State University

GIMNESS, ERIK S.

Director, Institutional Research; B.A., University of Puget Sound; M.Ed., University of Washington

GOON, RACHEL E.

Professor, Reference/Instruction Librarian; B.A., M.L.I.T., University of Washington

GORSKI, HOLLY M.V.

Vice President, Human Resources; B.A., Westminster College of Salt Lake City

GRACE, ANTHONY J.

Distance Learning Retention Specialist/Campus Manager; B.S., University of Phoenix

GRANATA, ANTHONY T.

Professor, Mathematics (PY); A.A.S., Pierce College; B.S., M.S., Western Washington University

GREEN, TERRENCE D.

Associate Professor, Faculty Counselor/Advisor, TRIO Student Support Services; A.A.S., Pierce College; BSPEd., Washington State University; M.Ed., City University

GRIFFIN, LORI A.

Instructional Dean; B.A., Pacific Lutheran University; M.A., Chapman University

HALLADAY, CHOI

Vice President, Administrative Services; B.S. Economics, University of Puget Sound; M.A. Economics, University of Iowa

HANDLER, NICHOLAS (MAX)

Assistant Professor, Environmental Science/Geography (PY); B.A. Spanish Language and Literature, Pomona College; M.A., Ph.D. Geography, University of Minnesota

HARTLEY, DENISE J.

Professor, English & Humanities (FS); B.A., San Francisco State University; M.F.A., Mills College

HASKINS, MARK S.

Executive Director, Pierce College at JBLM; B.S., Pacific Lutheran University; M.A., University of Oklahoma

HEILSTEDT, MARTIN R.

Instructional Dean; B.E., Vanderbilt University; M.S., Naval Post Graduate School

HENSON-WILLIAMS, PAULA M.

CTC Link Project Manager

HESS, MEGAN C.

Associate Professor, Chemistry (FS); A.A., Pierce College; B.S., M.A.T., The Evergreen State College; M.S., Illinois Institute of Technology

HILL, CAROL

Opportunity Grant Program Manager/Washington Achiever Mentor Coordinator (FS); A.A.S., Fort Steilacoom Community College; B.A., St. Martin's College

HORBACK, SACHI

Instructional Dean; B.A., Millersville University; M.A., Immaculata College; Psy.D., Chestnut Hill College

HOSPENTHAL, MONICA L.

Professor/Program Director, Dental Hygiene (FS); B.S., University of Washington; M.Ed., University of Puget Sound; R.D.H. Washington

HOWELL-WILLIAMS, VICKI J.

Professor, Faculty Counselor/Advisor (PY); B.A., Le Moyne-Owen College; M.A., Trevecca Nazarene College

HURTADO, LISA

Assistant Professor, English (PY); B.A. English, Tufts University; M.A., Ph.D., University of California San Diego

HURTADO, SALVADOR G.

Professor/Program Director, Veterinary Technology (FS); B.S., D.V.M., Washington State University

IGNACIO, MARLENE D.

Professor, Physics (PY); B.S., Mindanao State University-Philippines; M.S., Ateneo de Manila University-Philippines

IRBY, MEGAN

Faculty Counselor; B.A., University of Colorado; M.A., Lewis & Clark College;

JACOBS, TAMI L.

Dean, Student Success (FS); B.A., Eastern Washington University; M.Ed., Concordia University

JAFFE, STEWART N.

Professor, Mathematics (PY); B.A., University of Maryland; B.S.N.E., University of Florida

JAMES, SYLVIA D.

Director, Fiscal Services; B.A., Brandman University

JOHNSON, JAMES M.

Special Assistant Program Manager/Coordinator for Instruction/IT/Network Operations (JBLM); B.A., University of Maryland; MCSE, MCT, CTT+

JOHNSON, MICHELE L.

Chancellor and CEO, Pierce College District; B.S., M.A., Washington State University; Ph.D., University of Oregon

JOHNSON, ROBERT D.

Professor, Biological Sciences (FS); A.S., Wayne County Community College; B.S., Saginaw Valley State University; M.S., Wayne State University

JONES, STEPHEN L.

Professor, Economics/Business (PY); B.A., Salisbury State University; M.A., Temple University - Tokyo, Japan campus

KASLIK, PETER J.

Professor, Mathematics (FS); B.S., James Madison University; M.S., Oregon State University

KEITH, KATHRYN E.

Professor, Anthropology (PY); B.A., Boise State University; M.A., University of Arizona; Ph.D., University of Michigan

KEMP, ALAN R.

Professor, Sociology (FS); B.A., California State University Northridge; M.S.W., University of Washington; M.Div., Sophia Divinity School; D.Min., St. Stephen's College; D.C.S.W., L.I.C.S.W., L.M.F.T., L.M.H.C.

KETCHESON, LINDA E.

Professor, Faculty Counselor/Advisor (PY); B.A., Central Washington University; M.A., St. Martin's College

KHALSA-MÄULEN, LEON G.

Professor, Sociology (PY); M.A. Psychology, M.A. Public Policy Analysis, M.A. Social Science, University of Chicago

KIM, KRISTINE M.

Professor/Director, Educational Programs, Early Childhood Education (FS); B.A., Pacific Oaks College; M.S., Drexel University; Ed.D., Northeastern University

KOETJE, MICHAEL L.

Director, District Child Development Centers; B.S., State University of New York, College at Oswego

KULBACKI, EMILY

Professor/Coordinator, Philosophy (FS); B.A., Utah State University; M.A., Norwich University

LAL, RAJESH

Associate Professor, Mathematics (FS); B.S., M.S., Michigan State University

LARIS, ARTURO

Assistant Professor, Spanish; M.A., Loyola University Chicago; Ph.D., University of California Davis

LEAVELL, LAWRENCE (BRET)

International Marketing Manager; B.A., Oregon State University; M.A., Montana State University

LEEK, SHARENE

Early Achievers Grant POC; B.A., City University; M.A., Walden University

LINK, THOMAS G.

Professor, Psychology (FS); B.S., Pennsylvania State University; Ph.D., University of Washington

LIPPMAN, DAVID R.

Professor, Mathematics (FS); A.A.S., Whatcom Community College; B.S., M.S., Western Washington University

LOZANO, SUZANNE

Assistant Professor, Accounting (FS); A.A.S., Pierce College; B.S., Accounting, University of the State of New York-Regents College; M.B.A. Finance, City University of Seattle

LUCAS, PETER JOHN

Professor, Political Science (PY); B.A., University of Washington; Ph.D., Indiana University

MANNERING, SCOTT A.

Director, WSH, Special Funded; B.A., North Park University; M.Ed., Lesley University

MARTIN, BRIAN J.

Professor/Coordinator, Digital Design (FS); B.A., M.S., Eastern Washington University

MAULE, TIFFANIE

Assistant Professor, Business Information Technology (PY); B.A., Interdisciplinary Child Development, Western Washington University

MAY, RONALD H.

Instructional Dean; B.S., M.S., University of Idaho

MBUJA, ELYSIA

Assistant Professor, Biology (FS); B.S., M.Ed., Arizona State University; M.S., University of Nebraska

MCCLINTON, J. DUNCAN

Professor, English (PY); A.A.S., Whatcom Community College; B.A., M.A., Central Washington University

MCCOLLOM, THOMAS J.

Professor, Mathematics (PY); B.A.Ed., M.A., Arizona State University

MCGINNIS, RACHELLE L.

CE Program Developer/Manager; B.A., Pacific Lutheran University; M.A., Chapman University

MCPHEE, SUSAN J.

Manager, Access and Disability Services (FS); A.A., Peninsula College; B.A., Western Washington University; M.A., Seattle University

METZGER, FREDERICK G.

Professor/Coordinator, Communication/Theatre/Film (FS); B.A., Marymount College; M.A., University of Northern Colorado

MEULBLOK, MARY C.

Manager, International Student Services (FS); B.A., Western Washington University

MICHAEL, LESLIE

Professor, English (FS); B.S., University of Wisconsin-Stout; M.A., Idaho State University

MILLER, JEANETTE M.

Manager, Basic Food and Employee Training; B.A., University of Washington, Tacoma

MORA, MARQUITA I.

Director, Financial Aid; B.A., Washington State University; M.A., Keller Graduate School of Management

MORAN, DONNA M.

HIIT Grant Manager; B.A., M.B.A., Winthrop University; M.A.B.S., Leadership Institute of Seattle

MORAN, SEAN

Assistant Professor, Information Technology; B.S., Bellevue University

MURRAY, LISA

Associate Professor/Coordinator, Health Education/Wellness/Physical Education (FS); B.S., Barry University; M.S., University of Kentucky

NEWMAN, SHANNON

Assistant Professor, High School Science; B.S., Lawrence University of Wisconsin; Ph.D., University of Washington

NICHOL, MADISYN

Faculty Recruitment & HR Specialist; B.A., Central Washington University; M.A., Fitchburg State University

NORMAN, ELIZABETH S.

Professor/Coordinator, Earth Sciences (FS); B.S., Portland State University; M.S., University of Utah

NUCCIARONE, MONICA A.

Associate Professor, Faculty Counselor/Advisor (FS); B.S., M.S., California State University Fullerton

OLSEN-TIGLAO, KATHERINE A.

Professor, Chemistry (PY); B.A., Willamette University; M.S., Ph.D., University of Washington

ORRANGE, WILLIAM R.

Professor/Coordinator, GED/ABE (FS); B.S., Syracuse University; M.Ed., Western Washington University

OWEN, KENNETH L.

Professor, Music (PY); B.M., University of Utah; M.M., Brigham Young University; D.M.A., Arizona State University

PARK, MYUNG

Executive Director, International Education; M.B.A, City University

PARKS, MICHAEL W.

Professor/Coordinator, Journalism/Pioneer Advisor (FS); B.A., Seattle Pacific University; B.A., M.C., University of Washington

PASINATO, MISHELLE

Assistant Professor, Intensive English - International Education (FS); B.A., Washington State University; M.Ed., City University

PHELPS, THOMAS D.

Professor, Mathematics/Economics (FS); A.A., Green River Community College; B.A., Pacific Lutheran University; M.A., Washington University in St. Louis

POPPEN-EAGAN, NIKKI M.

Associate Professor/Coordinator, Communication Studies, (PY); B.A., Pacific Lutheran University; M.A., University of Oregon

POTTER, JOSHUA

Assistant Professor, Communications and Theater (PY); B.A. Speech Communication, Ithaca College; M.A. Media and Communication Studies, Florida State University

PUTMAN, BARRY

Assistant Professor, Biology (JBLM); A.A., Cuesta College; B.S., M.S., Cal Poly San Luis Obispo; M.A., University of California at Santa Barbara

RASMUSSEN, MELONIE

Professor, Mathematics (FS); B.A.E., Pacific Lutheran Univ.; M.S., Western Washington University

REED, DAWN E.

Director, TRiO Student Support Services Program; B.A., University of Alaska Fairbanks; M.B.A., University of Phoenix

ROBERTON, CAROLYN D.

Professor, Dental Hygiene (FS); A.S.D.A., B.S.D.H., Loma Linda University; R.D.H.

ROHOLT, J. DAVID

Associate Professor/Coordinator, Art (FS); B.F.A., Utah State University; M.F.A., Colorado State University

RUSSELL, MARY L.

Professor, Anthropology (FS); B.A., The Evergreen State College; M.A., Ph.D., University of Oregon

SAARELA, LINDA

Professor, Business Management (PY); B.A. Business Administration, Pacific Lutheran University; M.A. Business Administration, University of Colorado

SABETI, ROYA R.

Professor, Mathematics (PY); B.S., M.S., Ph.D., University of Missouri-Columbia

SALAK, ANN M.

Professor/Coordinator, English (PY); A.B., M.A., John Carroll University

SAMPLE, KURTIS F.

Computer Clubhouse Coordinator; B.S., Massachusetts Maritime Academy

SAMUELSON, JAMIE

Assistant Professor, Business Information Technology; Adult Education Certificate, Renton Technical College; B.A., Seattle University

SANDENO, JULIE

Associate Professor/Coordinator, ESL (FS); B.A., MA., Seattle Pacific University

SCANNELL, VICKI L.

Professor, English (FS); B.A., M.A., University of Washington

SCOTT, SAMUEL T.

Associate Professor, Computer Information Systems (FS); B.S., Southwest Missouri State University; M.S., University of Southern California

SECRIST, WENDY

Web Content Manager; B.A., Brigham Young University; M.A., University of Idaho; Certification from University of Washington

SHUSTER, LAURIE M.

Professor, Reference/Instruction Librarian (FS); B.S., St. Joseph's University; M.S., Drexel University

SIEVING, ALLISON L.

Director, Educational Outcomes and Effectiveness; B.S., Bowling Green State University; M.S., Ph.D., Wayne State University

SIMPSON, JOHN M.

Professor, History (FS); B.A., Central Michigan University; M.A., Pacific Lutheran University

SMITH, HOLLY

Instructional Dean; B.A., Southeast Missouri State; M.A., Illinois State University; Ph.D., University of Florida

SOILEAU, DEIDRE

Vice President, Advancement/Executive Director; B.F.A., Cleveland Institute of Art; M.B.A., Virginia Tech University

SOREM, BLAKE D.

Professor/Coordinator, Economics (FS); B.A., University of California Berkeley; M.A., University of Maryland College Park

STARR, JANINA L.

Professor/Coordinator, American Sign Language (PY); M.A., California State University Northridge

STAPP, APRIL

Assistant Professor of Sociology; B.A., University of Missouri; M.A., Ph.D., Virginia Tech

STEPHENS, HILLARY

Associate Professor, Astronomy/Physics (FS); B.S., University of Washington; M.A., Ph.D., University of Wisconsin-Madison

STEVENS, M. ELIZABETH

Professor, English (PY); B.A., M.A., Central Washington University

STEVENS, SANDRA W.

Associate Professor/Coordinator, ESL (FS); B.S., Miami University; M.B.A., University of Puget Sound

STEVENSON, DUNCAN K.

Director, Athletics (FS); B.A., Western Washington University

STEWART, AGNES BARRON

Dean, Student Success (PY); B.S., Southern Illinois University; M.Ed., University of Washington Tacoma

STOCKE, MICHAEL F.

Chief Information Officer; A.A., Community Colleges of the Air Force; B.S., Southern Illinois University at Carbondale

SUH, DANIEL H.

Assistant Professor, Sociology; B.A., University of California Riverside; M.A., California State University; Ph.D., University of California Riverside

SWART, KATHLEEN A.

Professor, Reference/Instruction Librarian (PY); M.A., University of Connecticut; MLIS, University of Washington

SWEET, MERRILL (SCOTT)

Associate Professor, Biological Sciences (PY); B.S., M.S., Ph.D., Texas A&M University

TAYLOR, JAMES T.

Director, Facilities and Construction Management; B.A., Texas A&M University

TAYLOR, SUSAN

SEVIS Manager; B.A., University of Montana; M.A., Washington University

THOMAS, LEESA

Assistant Professor, Early Childhood Education; B.A., Western Washington University; M.S., Erikson Institute

THOMS, BETH

Professor, Reference/Instruction Librarian (PY); B.A., University of Maryland; M.A., Gonzaga University; M.S.L.S., Catholic University of America

TODD, PHILLISE

Assistant Professor, Physics; B.A., M.A., Ph.D., University of California

VANNESON, CHRISTOPHER T.

Professor, History/Geography/Political Science (PY); B.S., M.S., Kliment Okhriski University, Sofia; M.Div., St. Vladimir's Seminary/SUNY; M.A., California State University; B.A., B.S., M.L.S., City University of New York

VERBERNE, JASON

Administrative & Human Resources Specialist; B.A. Southeastern Louisiana University

VONDERSCHEER, ANDREA M.

Military Program Student Support Manager (JBLM); B.S., Pacific Lutheran University

WARAKSA, CHRISTOPHER J.

Manager, Intensive English Program; M.A., University of Wisconsin; J.D., University of Washington

WARMINGTON, CURTIS W.

Professor/Coordinator, English (FS); B.S., Southern Oregon State; M.A., University of Washington

WEBBER, ELIZABETH

Assistant Professor, Nursing (PY); A.A., Highline Community College; B.S. Animal Science, Washington State University; M.S. Nursing, Saint Joseph's College

WEST, LEE

Assistant Professor, Chemistry (FS); B.S. Chemistry, Flinders University of South Australia; M.S. Physical and Inorganic Chemistry, Flinders University of South Australia; Ph.D. Chemistry, The University of Adelaide

WEST, CARRIE Q.

Open Educational Resources Project Manager; B.A., M.A., Marylhurst University; M.L.S., Emporia State University

WHITE, ANNE

Dean, Enrollment and Financial Aid Services; Registrar; B.M., University of South Alabama; M.A., Chapman University

WHITTEMORE, ANDREA

Assistant Professor, Intensive English - International Education (FS), B.A., M.A., Eastern Washington University

WILSON, SHANNON

Assistant Professor, English; B.A., M.A., Central Washington University

WISEMAN, LAWRENCE F.

Professor/Coordinator, Mathematics (PY); B.A., B.S., University of Washington; M.A., University of California San Diego

WOLBRECHT, JENNIFER

Director of Development; B.A., Luther College; Certification, Tacoma Community College

WOLDEN, LUANN

Professor, Business Information Technology (FS); B.A., M.S., Central Washington University

WOOD, THEODORE J.

Professor, Chemistry (FS); B.S., University of Maryland; M.S., University of Colorado

WYCOFF, CORRINA M.

Professor, English (PY); B.A., M.A., University of Illinois; IM.F.A., University of Oregon

YCHUM, DENISE R.

President, Pierce College Fort Steilacoom; B.A., California Polytechnic State University; M.A., San Diego State University

EMERITI

| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z |

BALL, MARION S.

Director of Military Programs

BATH-BALOGH, MARY

Biological Sciences

BOYDEN, WALTER L.

German, French

BOYER, BARRY L.

Economics, General Business

BRANSFORD, DEBORAH

Faculty Counselor

BROOKS, NORMA

Early Childhood Education

BROWN, MARY KAY
Early Childhood Education

BUCKNER, HAL R.
Art

CAMNER, SHARON M.
Mathematics

CAVENDISH, PATRICK
Director, International Education

CHEEK, BARBARA N.
Director, Puyallup ALC; ABE/GED

CLINTON, PAUL
Art

COBB, F. HEATH
History, Interdisciplinary Studies, Political Science; Honors Program Coordinator

COFFEY, MICHAEL
Mathematics

COLLERAN, KAREN L.
Chair, Social Science Division; Early Childhood Education

COOK, NORMA M.
Director, Alternative Learning Center (PY)

COOPER, AUTHULA P.
Real Estate

DARCHER, MICHAEL J.
English

DAVIES, JO
Reference/Instruction Librarian

DAVIS, PATRICIA
Mathematics

DE JARDIN, JUDITH K.
Division Chair, Business & Social Science; Early Childhood Education

DEVINY, DR. JOHN J.
Dental Hygiene

DOWNIE, DIANE K.
Mathematics

EDISON, DOUGLAS
Business Management

EGAN, RAYMOND J.
General Business

ERICKSON, JAMES R.

Mathematics

FALCIONI, DEBORAH

Mathematics

FIKAR, PHYLLIS

Mathematics

FORMAN, KEITH M.

Sociology

GENTRY, DR. CANDACE

Business Information Technology

GOLIGHTLY, DR. SHARON S.

Program Director/Instructor, Dental Hygiene

HALVERSON, JAN

Office Professions

HARDING, KAREN E.

Chemistry Instructor

HASART, TANA L.

President, Pierce College Puyallup

HEABERLIN, ROBERT E.

Psychology

HENDRICKS, JAMES

Computer Information Systems

HESS, L. JERRY

Physics

HILDEBRANT, DR. KENNETH C.

Executive Dean of Instruction

HOGAN, PATRICK

Business Management

HULET, RUSSELL N.

English, Journalism, Humanities

ICO, LYDIA

English

JAECH, STEPHEN

English

JENSEN, DOUGLAS

Business and Political Science

JEPSEN, THOMAS C.

Mathematics

JEWELL, BARBARA

Business, Office Professions

JOHNSON, DR. BURTON L.

Life Sciences

KERR, DOUG

Division Chair, Speech/Theatre

KNUDTSEN, JERE

Music

KOBER, STEPHEN G.

Business

KOOPMANS, GRACE M.

Early Childhood Education

KRIEGER, DR. WILLIAM C.

English; Director, Thoreau Cabin Project and Writing Camps

KWOK, KOON W.

Accounting

LAI, MOSES P.

Geography, East Asian History

LAMKA, MICHAEL E.

Mathematics

LEIFSON, RANDY W.

Professor, Mathematics

LEWIS, SANDRA

Biological and Health Sciences

LOBDELL, R. MARTIN

Psychology

LONG, ROSSE V.

Director, International Programs

LOTTIER, RAYMOND L.

Accounting

MAYORGA, VICTORIA

World Languages

MCGONAGILL, CAROL L.

Business Information Technology

MEDVED, KATHLEEN

Computer Information Systems

MIR, DR. QUI-CHEE A.

Chemistry

MIRANDE, THERESE

World Languages

MOGG, DICK

History

MORTON, DENNIS A.

Sociology

MULLEN, G. JAMES

Psychology

NEWTON, PATRICIA J.

English; Director, Learning Asst. Services

OWENS-EWING, KAREN J.

Disability Support Services Coordinator/Academic Advisor

PAN, ROSALIE

English as a Second Language

PAYNE, MARGARET A.

Division Chair, Arts & Humanities, English

PAYNE, RICHARD L.

Business, Accounting, Business Management

PEDERSEN, MORRIS R.

Division Chair, Arts & Humanities; Music

PHILLIPS, RANDALL

Chemistry

PISETZNER, JEFFREY

Reading/Study Skills

RADCLIFFE, KATHERINE A.

ESL

RADES, WILLIAM L.

Fine Arts

RUSSELL, D. SHARON

English

SAGER, ROBERT J.

Earth and Space Sciences

SCHILLAR, DR. THOMAS A.

Business Management

SCOTT, ELIZABETH

Natural and Social Sciences

SEMSEN, PATRICIA

Library/Media

STAPLES, RAYE

Medical Office Professions, Business

STOUT, ORVILLE H.

Director, Media Services

TEEPLE, DR. TERRY

Veterinary Technology

TOOHEY, MARY ANN

Developmental Education

TOWNSEND, CATHERINE J.

Business, Business Management, Marketing

TWEED, NORMAN S.

Biological and Health Sciences

URICH, LESLIE

Physics

WALL, STEVE

Chancellor; President, Pierce College Puyallup

WATTS, LESLIE

Faculty Counselor; Health Career Advisor;

WILLIAMS, DR. ELLAWESE O.

Ethnic Humanities, English

WRIGHT, THOMAS C.

Business Management, Fashion Merchandising

YOUNGER, VIRGINIA C.

English

Glossary

| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z |

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.

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.

Inter-college Relations Commission (ICRC): A voluntary organization working to improve transfer among higher education institutions in the state of Washington.

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, 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) and Associate of Science (AS)).

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 on-line 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.*

Pierce College Photo and Video Disclaimer

All students are advised that the Pierce College Marketing & Communications department takes photographs and shoots videos throughout the year which may include images and recordings of members of the student body, faculty and staff which may be used for publicity and marketing purposes. These images and recordings are in areas on campus or at any Pierce College-sponsored event off campus where subjects do not have normal and reasonable expectations of privacy. All such photographs and recordings are the property of Pierce College and may be used for the college's promotional purposes without prior permission of the subjects.

As a general practice, however, Pierce College will attempt to collect individual photo release forms from students. Also, if students do not wish to be photographed or recorded for this purpose they can stipulate this in writing to the Marketing & Communications office at the beginning of the quarter. It is also expected that such students will excuse themselves from photo/video sessions and inform the Pierce College photographer that they do not wish to be included.

The 2017-18 Catalog was produced by Pierce College District Marketing and Communication Department in collaboration with Instructional Services in Aug. 2017.

The information in this catalog is effective as of Fall Quarter 2017.

Production Credits

Brian Benedetti

Director of Marketing and Communications

Marjo Burdick

Instruction & Curriculum Support Consultant

Kate Burrows

Communications and Public Relations Specialist

Amy Foster

Graphics Designer

Wendy Secrist

Web Content Manager