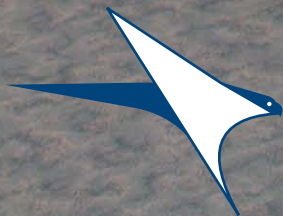


# C A T A L O G

**Columbia Basin College**  
2008-09





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# **General Information**



## About Columbia Basin College

### Welcome to Columbia Basin College!



Columbia Basin College is **your** community college. If you seek the first two years of a university education, want to pursue a two-year degree or certificate to begin a successful career, or earn your Bachelor of Applied Science degree in Applied Management, CBC is your first choice for higher education.

CBC is also your first choice to improve your English language skills, qualify for a GED certificate, increase your personal enrichment, or assist you with a business start-up.

We are here to help in many ways.

Columbia Basin College is **your** community college.

Richard Cummins, Ph.D., President

## Columbia Basin College Foundation

Columbia Basin College is a vital economic partner in Benton and Franklin counties, providing educational, professional/technical, and workforce training and cultural programs for our region.

The Columbia Basin College Foundation was organized in 1984 to provide new sources of financial support for Columbia Basin College programs and projects which are increasingly under-funded by state tax dollars.

Financial support is needed from private foundations, individuals, and corporations in order to keep pace with facilities and program needs designed to meet community needs.

The Columbia Basin College Foundation has an ongoing priority of providing capital and funding support for new programs at the College, in addition to offering scholarships annually to outstanding high school seniors and nontraditional students who intend to enroll at Columbia Basin College.

The Columbia Basin College Foundation Board of Directors represents a broad spectrum of alumni, business, civic, and professional leaders.

## College Overview

### Mission and Goals Statement

Columbia Basin College exists in an environment of diversity, fairness, and equity to ensure that the people of Benton and Franklin counties have access to educational programs providing sufficient knowledge for higher educational achievement, meaningful employment, cultural enrichment, physical/emotional well-being, and basic skills development.

CBC is a comprehensive two-year college that provides quality education and effective job preparation. Because of our comprehensive mission, CBC has a powerful impact on every segment of the community. We strive to provide:

- open and easy access to the College for all citizens of Benton and Franklin counties;
- an excellent and affordable academic program for students who plan to transfer to four-year institutions;
- an effective career and workforce program to train and retrain workers for jobs in present and future industries;

- diversity in art, music, drama, and athletics that enrich the entire community;
- opportunities to obtain physical and emotional well-being;
- appropriate basic skills and gateway courses with effective support services.

## Accreditation

Columbia Basin College is accredited by the Northwest Commission on Colleges and Universities, an institutional accrediting body recognized by the Council for Higher Education Accreditation and/or the Secretary of the U.S. Department of Education.

**Northwest Commission on Colleges and Universities**  
**8060 165th Avenue N.E.**  
**Suite 100**  
**Redmond, WA 98052**

## College-Wide Learning Outcomes

Students who graduate from Columbia Basin College will be able to identify and demonstrate their knowledge in a variety of general education areas. The outcome of their learning experience is demonstrable in the areas embodied in the college-wide Learning Outcomes. CBC provides the opportunity for students to successfully complete courses which incorporate knowledge in six areas. Upon completion, these students will be eligible for transfer to a Washington state-supported university or be prepared for employment.

Columbia Basin College's Learning Outcomes are:

### Think Critically

- Understand, analyze, and evaluate the elements of one's environment and one's habits of thought
- Conceptualize alternatives to both

### Reason Quantitatively and Symbolically

- Develop a sense of number and pattern
- Analyze, evaluate, and synthesize symbolic statements and quantitative arguments

### Communicate Effectively

- Use spoken and written language to express opinions, discuss concepts, and persuade an audience
- Synthesize ideas and supporting information to create effective messages

### Apply Information Tools and Resources

- Accurately assess information needs
- Select appropriate information tools and resources and use them efficiently
- Evaluate, manage, and use information effectively and responsibly

### Develop Cultural Awareness

- Respect self and others
- Explore and appreciate different cultures in an increasingly diverse, global community
- Challenge culture-bound assumptions

### Master Program Learning Outcomes

- Become familiar with a body of knowledge
- Demonstrate ability to know or do the stated program learning outcomes, which are developed by each department and program and assessed annually



## History

Columbia Basin College has served Benton and Franklin counties for half a century.

The first classes at Columbia Basin College were authorized by the State Board of Education in May 1955. Classes began in September 1955 in temporary quarters at the former Pasco Naval Base.

The Pasco School District received title to more than 150 acres of land for the present campus site in Pasco. CBC's first permanent building was completed in 1957 and is the current V building. CBC's capital construction program has since added 18 permanent buildings.

The Community College Act of 1967 separated the College from the Pasco School District and Columbia Basin College became the 19th community college district in the state of Washington.

CBC continually expands and renovates programs and structures to meet the community's needs. The enrollment of the College has grown from 299 students in 1955 to more than 7,000 students per quarter today. The faculty includes 125 full-time instructors and 300 part-time instructors.

In 2003, Columbia Basin College received federal designation as a Hispanic Serving Institution (HSI) by the U.S. Department of Education. This designation is received when an institution has an enrollment of at least 25% Hispanic students, of which 50% are designated as low-income. As a HSI, Columbia Basin College is eligible to apply for federal grant programs designed to meet our unique needs.

## CBC Richland

Columbia Basin College has operated a branch campus in Richland since 1974. In 2006, the campus underwent immense growth with a new four-story, 66,000 square foot building for health science programs. The Columbia Basin College Health Science Center opened in fall 2006. The facility is a cooperative effort between CBC and Kadlec Medical Center. The Health Science Center houses nearly all of CBC's health science programs. The old Richland campus is the site of Delta High School, the new Science, Technology, Engineering, and Mathematics high school.

The older facilities will continue to house CBC's Fire Science program. CBC Richland is located at 1011 Northgate Dr., next to the Richland Public Library.

## College Schedule

Columbia Basin College's academic year is divided into four quarters: fall, winter, spring (approximately eleven weeks each), and a summer session (approximately eight weeks long).

Day classes usually meet for 60 minutes. Most classes are scheduled Monday through Thursday. Columbia Basin College offers evening, weekend, fast track, and distance learning classes. Please refer to the quarterly class schedule for days and times.

Administrative offices for the Pasco campus are open Monday through Friday, 7:30 a.m. to 4:30 p.m. Many Student Services offices offer extended hours, as does the CBC Library and Bookstore. Please refer to the quarterly class schedule for these times. Summer quarter administrative hours may change somewhat. Please refer to the CBC website.

## College Costs

### Costs of Attending CBC

The costs listed below are estimated expenses. Actual costs may vary depending on credits enrolled and lifestyle.

	Resident Dependent Living With Parents	Resident Living Away From Parents
<b>One Quarter</b>		
Tuition & Fees*	\$978	\$978
Books & Supplies	\$308	\$308
Room & Board	\$866	\$2,684
Transportation	\$418	\$366
Personal Expenses	\$530	\$647
<b>Total</b>	<b>\$3,100</b>	<b>\$4,983</b>
<b>Three Quarters</b>		
Tuition & Fees	\$2,936	\$2,936
Books & Supplies	\$924	\$924
Room & Board	\$2,598	\$8,052
Transportation	\$1,254	\$1,098
Personal Expenses	\$1,590	\$1,941
<b>Total</b>	<b>\$9,292</b>	<b>\$14,943</b>

\*Based on 2008-2009 rates for 15 credits. \*Does not include special course fees. Costs are subject to change. See quarterly schedules for specific credit costs and special fees.

\* International students may be charged \$2,452 per quarter.

### Student Status for Tuition and Fee Purposes

Full-time student: student registered for 10 or more credits per quarter.

Part-time student: student registered for 9 or fewer credits per quarter.

### Student Status for Financial Aid

Full-time student: student registered for 12 or more credits per quarter.

Three-quarter-time student: student registered for 9 to 11 credits per quarter.

Half-time student: student registered for 6 to 8 credits per quarter.

Less-than-half-time student: student registered for 1 to 5 credits.

### Residency Requirements for In-State Tuition

A resident student is one who is a U.S. citizen and has met specific requirements demonstrating permanent residence in the state of Washington. Permanent residence in the state of Washington is evidenced by physical presence in the state as well as having a sufficient number of permanent Washington documents. Documentation should be dated 1 year and 1 day prior to the commencement of the quarter for which a student is applying for residency status.

These documents can include:

- Voter's Registration
- Washington State Driver's License
- Car Registration
- Bank Accounts
- Federal Tax Return (required)

Students wishing to change their residency classification must complete a residency questionnaire and provide necessary documentation. Application for reclassification prior to registration into classes is preferred. Residency reclassification must take place within 30 calendar days of the first day of the quarter.

Special tuition allowances may apply to some eligible non-citizens, Washington higher education employees, and to military personnel and their dependents stationed in the state of Washington. For further information, contact the Admissions and Registration office.



## How To Get Started – Admissions

### How to Enroll in a Class at CBC

Student Category	Enrollment Procedures
New students working on a degree or certificate	<ul style="list-style-type: none"> <li>Submit Application for Admission with processing fee to the New Student Center.</li> <li>Take ASSET/COMPASS test.</li> <li>Attend Student Orientation to Advising and Registration (SOAR).</li> </ul>
Students working on a degree or certificate, transferring credits from another college	<ul style="list-style-type: none"> <li>Submit Application for Admission with processing fee.</li> <li>Submit official transcripts from other colleges. To be official, transcript must be in a sealed envelope from the college that issued it.</li> <li>If you have not completed English and math at your previous college, take the ASSET/COMPASS test.</li> <li>Attend a SOAR session and/or register for classes with a counselor/advisor.</li> </ul>
Students returning after an absence of one quarter but less than four quarters and planning to work on a degree or certificate	<ul style="list-style-type: none"> <li>Contact the Admissions/Registration office to reactivate file.</li> <li>Register for courses according to dates in class schedule.</li> <li>Students on academic probation must meet with a counselor to register.</li> </ul>
Students returning after an absence of more than four quarters and planning to work on a degree	<ul style="list-style-type: none"> <li>Submit Application for Admission with processing fee.</li> <li>Register for courses according to dates in class schedule.</li> <li>Students on academic probation must meet with a counselor to register.</li> </ul>
New students returning or transfer not seeking a degree or certificate	<ul style="list-style-type: none"> <li>Submit Application for Admission with processing fee.</li> <li>Register for courses according to dates in class schedule.</li> <li>Students on academic probation must meet with a counselor to register.</li> </ul>
High School Completion students, new or transfer	<ul style="list-style-type: none"> <li>Submit Application for Admission with processing fee.</li> <li>Meet with high school completion advisor for registration.</li> </ul>
Students in the Running Start program	<ul style="list-style-type: none"> <li>High school juniors and seniors should contact their high school counselor or the CBC Running Start office at (509) 542-4481 for eligibility information.</li> </ul>
High school students taking courses for High School Enrichment	<ul style="list-style-type: none"> <li>Submit an Application for Admission with processing fee.</li> <li>Submit High School Enrichment form.</li> <li>Submit official high school transcript.</li> <li>Take ASSET/COMPASS test if required to meet prerequisite for the course.</li> <li>Students may not register until the first day of the quarter on a space available basis.</li> </ul>
Students attending English as a Second Language (ESL), Adult Basic Education (ABE), or GED preparation courses	<ul style="list-style-type: none"> <li>Students interested in these programs should contact the department at (509) 542-5501 for registration.</li> <li>WorkFirst also offers GED preparation classes. Contact their office for information at (509) 542-4719.</li> </ul>
Students planning to take Community Service, or other non-credit courses	<ul style="list-style-type: none"> <li>Students wishing to take regular college classes under the Gold Card rate may register to audit a class beginning the third day of the quarter on a space-available basis.</li> <li>For other non-credit courses, students may register at the Admissions/Registration office.</li> </ul>



If you need accommodations for ASSET/COMPASS testing based on a disability, please contact the Resource Center (509) 547-0511, ext. 2325 TDD/TTY: (509) 546-0400.

## Admission Information

Columbia Basin College maintains an open door admission policy and grants admission to applicants who are at least 18 years of age and/or have graduated from high schools accredited by a regional accrediting association or have a GED Certificate. Home school graduates and graduates from non-accredited high schools are admitted based on their ASSET/COMPASS assessment scores.

Applicants who are less than 16 years of age and/or do not meet Columbia Basin College admission requirements may be admitted through a special admission process.

Contact the Admissions and Registration office for the special admissions policy and procedure.

Admission to Columbia Basin College does not guarantee admission to all degree or certificate programs. Typically, incoming students must meet minimum English and mathematics requirements before being admitted into a professional/technical program. In addition, some programs have special applications and admission procedures and limited entry dates. Students should consult the catalog for admission requirements in specific programs.

### Transfer Policy

Columbia Basin College subscribes to the statewide policy on Inter-Collegiate Transfer and Articulation, as endorsed by the public and private colleges and universities of Washington and the State Board for Community and Technical Colleges as adopted by the Higher Education Coordinating Board.

The policy addresses the rights and responsibilities of students and the process for review and appeal in transfer credit disputes.

The college recognizes academic credit earned at regionally accredited collegiate institutions, providing the credit is essentially equivalent in academic level and nature to courses offered at Columbia Basin College.

For more detailed information, contact Admissions.

### How to Apply for General Admission

Applicants should apply at least one month prior to the start of the quarter in which they plan to enroll. To begin the admission process, applicants must complete and submit an Application for Admission form, available at Admissions in the Student Services Center on the Pasco campus. Applicants may download an Application for Admission form from the CBC website at [www.columbiabasin.edu/admissions](http://www.columbiabasin.edu/admissions). A non-refundable application fee must be submitted with all new applications. Students who are absent for more than four consecutive quarters from the last quarter of enrollment activity will be charged the application fee. When an applicant's file is complete, the applicant will receive notification of acceptance and registration instructions.

Applicants transferring from another college must submit an official transcript from each accredited college attended. Certain processes such as financial aid or admission to some programs may be delayed without transcripts from prior schools.

High school transcripts generally are not required from applicants 18 years of age or older. However, some degree programs require a high school transcript as part of the admission criteria and for evaluation of prerequisites. Refer to the catalog for specific program requirements.

### Admission to High School Completion Program

The High School Completion program is offered for people 18 years or older and for those whose high school class has graduated. The purpose is re-entry into the educational system for individuals who desire a high school diploma.



Applicants must submit a completed Application for Admissions form and an official high school transcript and must complete the ASSET/COMPASS assessment. For general information about the High School Completion program, contact the Counseling and Student Development Center. To schedule an ASSET/COMPASS testing appointment, contact the Assessment Center.

Anyone whose high school class has not graduated, who has not earned a GED, or who is between 16 and 18 years of age, must submit a special request letter to the Admission/Graduation Committee. It must be from appropriate high school personnel and parent(s). The letter must address three specific areas:

- the student's academic ability to function in the collegiate environment;
- the student's social and emotional ability to function in the collegiate environment;
- the specific extenuating circumstances in which the student cannot complete the diploma through the high school.

## Admission to High School Enrichment Program

Students enrolled in Benton or Franklin County high schools may take courses at Columbia Basin College for enrichment. The high school enrichment program is available to students 16 years of age or older who are high school seniors. Enrollment is limited to:

- a maximum of two courses per quarter;
- registration on the first day of the quarter on a space available basis.

Admission procedures require submitting the following:

- a completed Application for Admission form;
- a nonrefundable application processing fee;
- an official high school transcript;
- High School Enrichment Release form signed by parent or legal guardian and by an appropriate high school official (form available in the Admissions and Registration office).

Students with junior standing and at least 16 years of age or older may be considered for admission upon special request to the Admissions/Graduation Committee.

Enrichment students are charged regular tuition and fees per credit.

## Admission to Running Start

Running Start is a program created by the Washington State Legislature to provide high school juniors and seniors an opportunity to enroll in college classes that will meet high school graduation requirements, as well as apply toward a college degree. Students are not charged tuition. They are, however, required to pay lab and comprehensive fees, books, supplies, and transportation costs.

To participate in the program, students are required to complete the ASSET/COMPASS assessment and must qualify for reading at college level and qualify for either ENG 101 or MTH 154. Running Start students may not enroll in any courses below the 100 level. Students who qualify should first meet with their high school counselors to develop their academic schedule.

Eligible Running Start students must complete and submit to the Running Start coordinator: (1) a CBC admission application, (2) a Running Start pre-enrollment form, and (3) an official high school transcript.

After the initial enrollment, students will be required to complete the pre-enrollment form each quarter prior to registration.

## College in the High School

College in the High School is a cooperative program between local school districts and Columbia Basin College. It allows high school students to simultaneously earn high school and college credit for work done in one or more pre-approved advanced high school courses. The courses are taught by qualifying high school teachers who work closely with CBC faculty mentors to insure that the work the students perform in the high school course is equivalent to similar courses taught on campus.

Students can accelerate their academic studies in this dual credit program. The courses included in the program are those most often required in the freshman coursework of Washington's community colleges and universities. Classes are challenging and similar in content and rigor to the classes taught on campus. They are more intensive and often require more time and effort outside the classroom than high school students are used to. Upon successful completion, the course is transcribed with the college's course title and number, just as it appears in the catalog. Grades awarded for college credit (and posted to the college transcript) will be determined using the CBC grading scale, and may be different from the high school grade awarded. Students in the program must pay fees to CBC and purchase required textbooks.

The College in the High School program is coordinated by the Tech Prep Coordinator, Ying-Chen Milbrath. She may be contacted at (509) 542-4559 or by email at [ymilbrath@columbiabasin.edu](mailto:ymilbrath@columbiabasin.edu).

## International Student Admission

Columbia Basin College welcomes qualified international students.

Admission procedures require submitting the following:

- a completed Columbia Basin College international student application form, filled out in the student's own handwriting;
- a completed Columbia Basin College application. An application fee must accompany the application. Funds are to be in U.S. dollars;
- official transcripts translated into English by a certified translation agency from all previous high schools, colleges, or universities;
- a Columbia Basin College certificate of financial responsibility and other supporting documents showing proof of ability to pay tuition, fees, and living expenses for the school year. A bank official's signature and bank seal is required on the certification. International students are required to pay the international tuition amounts for each term of study, regardless of their length of stay in Washington state;
- an official TOEFL (Test of English as a Foreign Language) score of 500 (paper-based testing), or 173 (computer-based testing), or above. This is only required of applicants from areas where English is not a native language.

In addition to the above requirements, international students transferring from another school in the United States must also submit the following:

- a photocopy of all previously issued I-20 forms;
- the I-94 card;
- transfer eligibility form to be completed by your current or former international student advisor.

If all the admission requirements are satisfied and the student is admitted to Columbia Basin College, an I-20 for F-1 student status will be issued.

This college has four quarters; fall, winter, spring, and summer. Students may begin any quarter. International students must enroll for 12 credits each quarter and maintain a 2.0 GPA or better. International students are allowed to take one quarter off per academic year, once they have completed three consecutive quarters.

All international students are required to have major medical insurance. Students must purchase insurance through the College or provide proof of equivalent insurance from their own country.

International students are not eligible for federal/state student financial assistance. They may be eligible for some scholarships and private loans. Opportunities for on-campus employment are extremely limited.

International students are not eligible to work off-campus except in some very special circumstances; they should assume no money or employment would be available from the College while they are attending Columbia Basin College.

Further information and appropriate forms may be obtained from: Columbia Basin College Admissions and Registration, 2600 N. 20th Ave., Pasco, WA 99301, USA.



## Admission to ESL

### *(English as a Second Language)*

The English as a Second Language (ESL) program provides six levels of English language instruction to immigrants and refugees. Depending on levels, classes are held on the Pasco campus, at the Chase Center in Pasco, and at various sites around our service district. Students must be 18 years or older and will be tested to determine their speaking, listening, reading, and writing skills prior to being placed into an appropriate class. In addition, CBC offers ESL courses that focus on workplace skills and provide support to ESL students enrolled in vocational programs. Contact the ESL registration at (509) 542-5501 for additional program and registration information. There is a \$25 tuition charge per quarter.

## Admission to GED

### *(General Educational Degree)*

The GED program offers classes for people 18 years or older who left high school without receiving a diploma. The GED exam provides participants with a means to qualify for educational and employment opportunities. The GED test consists of five areas: writing skills, social studies, science, interpreting literature and arts, and mathematics. Admission to the GED program is fulfilled by:

- scheduling an orientation with ABE/GED support staff, at (509) 542-5501;
- participating in the orientation;
- taking the CASAS entry test;
- completing WABERS (Washington Adult Basic Education Reporting System) registration;
- making a payment of \$25 for quarterly tuition.



*Individuals with a disability can qualify for accommodations on the GED test. Contact the Resource Center (509) 542-5525 TDD/TTY: (509) 546-0400.*

## Admission to HEP

### *(High School Equivalency Program)*

The HEP program is funded by the U.S. Department of Education and implemented through the Diversity Division of the college. It is a secondary migrant education program designed to meet the special needs of migrant and seasonal farm workers in pursuit of the GED, a certificate of high school equivalency. The intent of the program is to assist qualified students in preparing for the GED test and to help them establish long-range goals.

Admission to the program is open to migrant or seasonally employed agricultural workers and/or their children who:

- within the past 24 months, have worked a minimum of 75 days in migrant/seasonal farm work; or been eligible or have participated in a migrant education program or in a JTPA Section 402 program (now WIA Section 167);
- are at least 16 years of age or older;
- are not currently enrolled in high school;
- have not earned a high school diploma or its equivalent;
- demonstrate a willingness to study in preparation for the GED exam;
- demonstrate a score above 6.0 level on the entrance exam;
- demonstrate a willingness to conform to the rules of the program.

## Student Orientations

All new, degree and certificate seeking students and students who have earned 30 or less quarter-based college-level credits are required to attend Student Orientation to Advising and Registration (SOAR). SOAR is offered prior to each quarter to review important information from the College catalog and quarterly schedule. Students will learn about various resources on campus, general information about CBC degrees, and how to register for classes. Students meet in small groups lead by Educational Planners and Counselors who will assist them in the registration and advising processes.

At SOAR, students will register for First Year Introduction (FYI), a 12-hour transition workshop. FYI prepares new students for academic and social success by providing them with critical knowledge and strategies to be a successful college student. As part of FYI, students will build relationships with staff, faculty, and other students --- a necessary experience for academic integration and success. As a result of attending FYI, students will be able to identify key College resources, improve critical thinking, and be able to better articulate how they learn.

Students who have earned 30 quarter-based college-level credits or more, from accredited institution and have a cumulative college-level GPA of at least 2.0 may request that the FYI requirement be waived. Please contact the Office of Student Success and Retention if you have further questions about this process.

## Transfer Intent Students

Students who intend to transfer to a baccalaureate institution to complete a four-year degree are strongly recommended to work closely with Columbia Basin College Counselors and Educational Planners when planning their curricula. Additionally, students should familiarize themselves with the requirements and procedures of the institution to which they wish to transfer as soon as possible in their college experience. These are generally found in the baccalaureate institution's catalog or on their website.

The following tips may be helpful to transfer intent students:

- students should know the admission requirements for transfer;
- students should know the general graduation requirements and the recommended courses for the first two years of college in their field of interest or major;
- courses numbered 100 and above will usually transfer to most baccalaureate institutions. However, acceptance of CBC courses, non-traditional credits, credits by examination, and transfer GPA computation remain a prerogative of the receiving baccalaureate institution. Most professional-technical courses are not designated for transfer and are subject to the 15 credit limitation within the Associate in Arts and Science degree;
- any change in major or choice of baccalaureate institution may necessitate adjustment of a student's curriculum to meet the admission and/or course transfer requirements of the different baccalaureate institution. Students should meet with their CBC Counselor or Educational Planner as soon as possible to discuss the impact of any change in their curricula;
- students should attend Columbia Basin College transfer workshops when they are offered;
- students should schedule meetings with representatives of the institution to which they wish to transfer whenever they may be on the CBC campus to meet with prospective students;
- apply to the baccalaureate institution according to the institution's procedures and deadlines, and students should forward their official Columbia Basin College transcript as requested to the baccalaureate institution;
- before transferring, students should arrange to visit the campus of the baccalaureate institution which allows students to see the facilities and visit with an advisor in their major. Students should take a Columbia Basin College transcript of their grades with them to facilitate the advisory meeting.



## How to Get Started – Registration


### Registration

Registration precedes the beginning of each quarter. Students are not allowed to attend a class unless they are officially registered for those classes. The registration process includes selection of classes, enrollment, and payment of tuition and fees. You will find detailed instructions and procedures in the quarterly class schedule.

### Registration Procedures

After completing the admissions process, registration times are assigned on a first-come, first-serve basis. Early application for admission is strongly encouraged. Currently enrolled students are assigned registration times based on cumulative credit hours earned at Columbia Basin College and/or transfer credits officially evaluated by the transcript department.

Any degree-seeking student or any student wishing to register for a math or English course or a course with a math or English prerequisite must complete an ASSET/COMPASS assessment. Contact the Assessment Center to schedule an appointment. There is a charge to take the ASSET/COMPASS assessment. Transfer students who have completed math and/or English from an accredited college will not be required to complete ASSET/COMPASS, provided an official college transcript is submitted that documents the attainment of the necessary prerequisites.

 *If you need accommodations for ASSET/COMPASS testing based on a disability, please contact the Resource Center (509) 542-5525 TDD/TTY: (509) 546-0400.*

### Student Identification Card

Students enrolled at Columbia Basin College may obtain a student identification card. It is required for checking out library materials and using the computer labs and/or the fitness lab. It also may be used to participate in college and community activities.

### Gold Cards

A reduced tuition fee is available to those individuals 60 years or older who wish to take classes without credit. Applications are available for Gold Card membership at the Admissions and Registration office. Course registration for Gold Card members is on a space available basis, for audit status only, beginning the third day of the quarter.

### Kiosk Information System

[www.columbiabasin.edu/student](http://www.columbiabasin.edu/student)

**A kiosk is a computerized student information system where students may perform the following actions:**

- check registration access times
- register for classes
- make schedule changes
- make student information changes
- access and print class schedules, degree audits, financial aid data, grades, Hope Scholarship information, and transcripts
- pay tuition online

Students may add a class within the first three instructional days of the fall, winter, and spring quarters. Students may drop a class through the 40th day\* of the quarter. Students must complete a Schedule Change form and submit it to Admissions/Registration or use Web Registration ([www.columbiabasin.edu/student](http://www.columbiabasin.edu/student)). For summer session and classes scheduled for less than a full quarter, students should contact the Registration office for deadline dates.

## Withdrawal Policy and Procedures

The student must initiate withdrawal from a course by submitting a Schedule Change form to the Registration office before the deadlines published in the quarterly class schedule. Students are encouraged to meet with their Counselor or Educational Planner and instructor prior to withdrawing from a class or from college. The Counselor or Educational Planner will review with the student the implications of withdrawing and other possible options.

Any student receiving financial aid is advised to speak with Financial Services staff prior to withdrawing from a class. When a student withdraws from class, they may be required to repay money received from a financial aid award. Withdrawing from a class may negatively impact the student's ability to receive financial aid in the future.

Final withdrawal deadlines based upon 75 percent of the scheduled class meetings. A student may withdraw from a full-term course with no record on the transcript if the withdrawal has been processed by the 10th day\* of the quarter. A student withdrawing from a full-term course from the 11th to the 40th day\* of the quarter shall have a "W" recorded on his/her transcript. For summer quarter and all alternative class schedules (i.e. Fast Track courses) call the Registration office for withdrawal deadlines.

### Types of Withdrawals

**Student withdrawal:** Initiated by the student (refer to the quarterly schedule for deadlines). Consideration for withdrawal after the deadline requires a student to submit a Petition for Exception with supporting documentation of extenuating circumstances to Admissions/Registration. If approved, a "W" will be recorded on the transcript.

**College initiated withdrawal:** Initiated by the instructor and/or an administrator. This withdrawal may be the result of excessive absences or, if in the instructor's opinion, further participation in the class will be of little value to the student and/or detrimental to the best interest of the class. An instructor initiated withdrawal must be submitted to the Registrar in order to be processed by the 40th day\*.

*\* check the quarterly schedule for dates*



## Refund Policy

CBC will refund tuition and refundable fees if official withdrawal from the college or course(s) occurs within the specified time frame listed below. Certain fees are non-refundable or refundable only if withdrawal occurs prior to the first day of instruction. The first day of instruction is defined as the first day of scheduled classes for the quarter. Instruction days are Monday through Friday. Calendar days are all days including weekend days and holidays. If a deadline for refund falls on a weekend day or a holiday on which the College is closed, the deadline will be the next weekday that the College is open for business.

REFUNDS	CBC will refund tuition & refundable fees if official withdrawal occurs:	
Full Sessions	up to 100% REFUND (on or before)	up to 50% REFUND (on or before)
Fall, Winter, Spring	5th day of the quarter	6th day of the quarter and within first 20 calendar days
Summer	3rd day of the quarter	4th day of the quarter and within first 15 calendar days
Mini-Sessions	up to 100% REFUND (on or before)	up to 50% REFUND (on or before)
Half-quarter courses	2nd day of the session	3rd day of the session and within first 10 calendar days
Four-week courses	2nd day of the session	3rd day of the session and within first 7 calendar days
Three-week courses	1st day of the session	2nd day of the session and within first 5 calendar days
Two-week courses	1st day of the session	2nd or 3rd day of the session
One-week or less courses	Before 1st day of the session	On 1st day of the session

## Refund Exceptions

### Non-Refundable Fees

The Admissions application fee is non-refundable. The auditorium fee, per-credit comprehensive fee, and lab fees are not refundable unless withdrawal occurs prior to the first day of instruction.

### Small Balance Refund Amount

No refund checks will be processed for credit balances that are less than \$10. These refunds may be applied to future CBC charges or redeemed in cash from the Cashier's office (cash balances permitting).

### Special Courses

The refund policy may not apply to contract classes, continuing education classes, workshops, or other courses on special schedules.

## Title IV Federal Financial Assistance

Students receiving Title IV federal financial assistance should refer to student Financial Services for adding, dropping, and withdrawal policies. Federal regulations supersede CBC's refund policy. Warning: withdrawal may result in the student owing amounts to the Title IV and State Need Grant programs AND to CBC. Consult the student Financial Services office and the Cashier's office before withdrawing.

## Financial Aid

### Student Financial Services

Student Financial Services personnel assist Columbia Basin College students and their parents to find funding for basic educational costs. Consumer information is available in English and Spanish in the Student Financial Services office.

Financial aid programs at Columbia Basin College follow policies and philosophies established nationally, statewide, and institutionally. They are based on the assumption that the family is primarily responsible for paying educational costs. Financial aid is intended only to fill the gap between the family's contributions and the student's yearly academic expenses.

### Eligibility Requirements

A student must fulfill all the following requirements to be eligible for financial aid:

- be a U.S. citizen or an eligible non-citizen;
- be determined to have financial need based upon congressional methodology (except for Unsubsidized Stafford Loan and PLUS);
- have a high school diploma, GED certificate; or ability to benefit;
- be seeking one of the eligible degrees or certificates available at Columbia Basin College;
- not owe a repayment on a federal student grant or be in default on a federal student loan;
- be enrolled for eligible number of credits and be maintaining satisfactory progress according to the Financial Aid Satisfactory Academic Progress Policy available in the Student Financial Services office. Previous academic progress at Columbia Basin College will be considered even if the student was not receiving financial aid at that time;
- not be receiving financial aid at another institution at the same time;
- be registered with Selective Service (if required);
- sign a statement on the Free Application for Federal Student Aid (FAFSA) stating that student aid will be used only for educational purposes;
- have a valid social security number;
- have satisfied federal guidelines regarding any conviction of illegal drug offense, if applicable.

### How to Apply

The applicant must complete and submit the Free Application for Federal Student Aid (FAFSA) or Renewal Application and the CBC Financial Aid Data Sheet. Applications are available on the web at [www.fafsa.ed.gov](http://www.fafsa.ed.gov) and at [www.columbiabasin.edu/finaid](http://www.columbiabasin.edu/finaid). Applications should be made in January or February preceding the school year. Each quarterly deadline is printed in each class schedule.

## Financial Aid Programs

Students will be considered for all aid programs for which they are eligible and for which funding is available. Three major forms of aid available are: gift aid, employment, and loans.

### Gift Aid

#### Pell Grant

Federal grant program for undergraduate students.



## Supplemental Education Opportunity Grant

Federal aid program for students with exceptional need. Must be enrolled in at least six credits and eligible for a Pell Grant.

## State Need Grant

Washington state program for resident students who meet financial criteria and are enrolled in at least three credits.

## Columbia Basin College Grant

State-funded institutional grant for resident students with demonstrated need.

## Scholarships

Scholarships are awarded by organizations based on a variety of criteria. Visit [www.columbiabasin.edu/finaid/scholar](http://www.columbiabasin.edu/finaid/scholar) for details.

## Employment

*(refer to Career and Employment Services Center for more details)*

### Federal College Work Study

Program to provide jobs on campus to financially qualified students. Must be enrolled in at least six credits.

### State Work Study

State program to provide career-related employment on or off campus to financially qualified students. Must be enrolled in at least six credits.

## Loans

### Federal Stafford Loan

Federal need-based loan program with deferred payment and low interest (rate is set annually). Must be enrolled in at least six credits. Currently, maximum amount is \$3,500 for first-year students and \$4,500 for second-year students.

### Federal Unsubsidized Stafford Loan

Non-need-based loan for students. Must be enrolled in at least six credits. Interest is charged from the time the loan is disbursed;

### Federal Plus Loan

Non-need based federal loan program for parents of undergraduate, dependent students.

### Alternative Loan

Non-need based private loans based on criteria determined by individual lending institutions.

## Worker Retraining

A state program for unemployed students and displaced homemakers who meet the criteria. See Career and Employment Services Center section for details.

## Wage Progression Tuition Assistance

A state program for low income parents. See Career and Employment Services Center section for details.

## Veterans Benefits

A veteran eligible to use educational benefits from the Department of Veterans Affairs must meet with the Veterans coordinator located in the Student Financial Services office on the Pasco campus.

## Academic Policies

### Attendance

Students who choose to attend Columbia Basin College also choose to participate actively in the learning process offered by the College. Students are expected to attend all class sessions; a student may be officially withdrawn from a course by the instructor for excessive absences. Please refer to the course syllabus for attendance requirements.

Attendance in online distance learning classes is determined by login records and by communication with the instructor. A student who does not log into a distance learning class during the first week of an academic term may be officially withdrawn from the class at the discretion of the instructor. A student who does not log into a class for more than one week during an academic term and who otherwise does not communicate with the instructor may also be withdrawn at the discretion of the instructor. Students should consult their course syllabi for specific attendance policies in online classes.

### Credit Hours

In general, a lecture class that meets for one hour per week for one quarter will earn the successful student one credit; a lecture class that meets five hours per week for one quarter will earn the student five credits.

Laboratory and certain other courses vary from this pattern. The quarter hours of credit for each course are shown after the course titles in the Course Descriptions section of this catalog.

Students earn credit only for those courses in which they are officially registered for credit. Credit is not earned for courses in which the student enrolls on an audit basis.

### Grading Policy

Grades are available on the CBC website at [www.columbiabasin.edu/](http://www.columbiabasin.edu/) student approximately one week after the end of the quarter. Students may also submit a self-addressed envelope prior to the end of the quarter if they wish to receive a quarterly grade report.

Columbia Basin College uses a decimal grading system for all lecture and laboratory courses numbered 100 and above, and for MTH 95, 96, 97, and 98.

Numerical grades may be considered equivalent to letter grades as shown below.

Decimal	Letter
Grades	Grade
4.0 - 3.8	A
3.7 - 3.5	A-
3.4 - 3.2	B+
3.1 - 2.9	B
2.8 - 2.6	B-
2.5 - 2.3	C+
2.2 - 2.0	C
1.9 - 1.6	C-
1.5 - 1.3	D+
1.2 - 1.0	D
0.9 - 0.7	D-
0.0	F

Note: Each instructor determines individual course grading procedures. Grading information is contained in course syllabi presented at the beginning of each course.



## Letter Grades

Letter grades are awarded in the following categories:

- I** - Incomplete - no grade points (see statement on incomplete grade policy)
- N** - Audit\*\* - enrollment under non-credit status
- P** - Passing\* - has no grade point value and is not used in grade calculations
- W** - Official withdrawal - not calculated in grade point average
- Y** - No grade reported
- Z** - No credit award\*

*\*All buy-time options, cooperative work education programs, supervised employment, practica, workshops, and all courses numbered below 100 will be graded in either the P or Z category, except MTH 95, 96, 97, and 98.*

*\*\* A student enrolled in a non-credit or audit course does not receive credit for the course and does not receive a grade. Students must pay regular tuition and fees for the non-credit or audit course and may not be required to do the assigned work or take examinations. Students may change from audit to credit on or before the 10th day of instruction. A change, however, from credit to audit requires instructor permission and must be made on or before the 40th day of instruction. Contact the Registration office for the proper procedures.*

## Pass/Fail Grades

- With the exception of College Board Advanced Placement credits, Columbia Basin College does not issue pass/fail grades for college-level, academic transfer courses.
- With the exception of College Board Advanced Placement courses, no course designated as meeting the Associate of Arts and Science degree distribution requirements, the Associate of Science Transfer degree distribution requirements or the academic transfer elective requirements may be graded as pass/fail.
- A "P" grade posted to a transcript for military credit and experience, experiential learning credit, course challenge credit, CLEP, DANTES, and International Baccalaureate credit is limited to use within the restricted electives of the Associate of Arts and Science degree.
- A "P" grade will be issued for courses numbered 100 or above when performance is certified at a 2.0 grade point minimum.
- A "P" graded course may satisfy a prerequisite requirement if the performance level is certified at the established minimum defined in the course description. For certification procedures, contact the Admissions/Registration office.

**Caution:** *Other colleges and universities may not accept a "P" graded course in fulfillment of graduation and program requirements.*

## Incomplete Grades

An incomplete grade (I) indicates work in progress. Incomplete grades are subject to instructor's discretion. An incomplete grade will be changed to a failing grade if the work is not completed within the first 20 calendar days of the succeeding quarter. The exception is when the incomplete is given in the spring quarter. In this case, the succeeding quarter is the following fall quarter, not the summer quarter.

## Computation of Grade Point Averages (GPA)

Grade point averages are calculated by dividing grade points earned at Columbia Basin College by the credit hours attempted. Classes numbered 100 and above, not graded with an I, N, P, W, Z, are included in the GPA. Credits/GPA earned at previous institutions may be factored into the evaluation of graduation requirements.

## Grade Appeal Process

Students have responsibility for familiarizing themselves with Columbia Basin College's academic policies and practices as found in the College catalog and website and in course syllabi. Additionally, students are responsible for learning the content of a course of study according to the standards of performance established by the faculty as outlined in course syllabi. Evaluations shall represent instructors' professional judgments of student performance.

If a student has reason to believe that a mistake was made in the computation of a course grade or otherwise believes a problem exists in a course grade that has been assigned, a student may request an appeal of the course grade. Students should understand, however, that a grade appeal may result in a higher grade, a lower grade, or no change in a grade.

The following procedures may be initiated no later than the end of the quarter following the one wherein the course was undertaken (excluding summer quarter):

- the student should engage the instructor of record in an informal meeting to discuss the course grade. If the instructor is no longer employed by CBC or is otherwise unavailable during that quarter, the student should discuss the matter with the appropriate division dean;
- the student should be able to present copies of all assessments and other relevant coursework/materials considered in the computation of the grade that were returned to the student so that an effective review of the course grade may be undertaken;
- if an error is discovered that would change the course grade, the instructor or appropriate division dean will complete the necessary administrative process for a grade change.

## Grade Forgiveness Policy

A student may petition to set aside (forgive) grade records for courses taken at CBC. Forgiving grade records does not remove the records from a student's transcript, rather, a "set aside" notation is marked on the transcript to identify course(s) that will be disregarded when calculating a new cumulative grade point average. (Note: Federal Financial Aid regulations do not recognize grade forgiveness.)

Petitions to set aside grade records are available in the Admissions and Registration office. Students must submit petitions to the Registrar no later than one quarter before graduation. Students may petition to set aside grade records provided:

- they are enrolled at Columbia Basin College;
- the grade records to be set aside are at least three years old and the student has not attended CBC during that three-year period;
- they have earned a minimum of 30 credits consecutively with at least a 2.5 cumulative GPA at Columbia Basin College after the set-aside period.

Students may not choose specific courses or quarters to be set aside. Once the set aside has been granted, grade records may not be reinstated to satisfy graduation or prerequisite requirements. Grade records may be set aside only once toward a degree or certificate. It is important that students understand that financial aid does not recognize Grade Forgiveness.

## Course Repeat Policy

Courses may be repeated to improve the grade earned. Students are required to contact the Transcript office after completing the repeat so that credit is given only once and the highest grade earned is used to compute the GPA. All courses and earned grades will remain on the transcript however. Students receiving financial aid or veterans benefits should consult the respective office prior to repeating a course as financial penalties may be imposed. Transfer students should consult with a Counselor prior to repeating a course. Courses repeated more than three times are subject to all instructional costs that are equivalent to non-resident tuition.



A student who takes a course at Columbia Basin College and subsequently repeats the course at another fully accredited college or university shall be granted a repeat, upon request, for that course with the following conditions:

- the student must be enrolled at Columbia Basin College;
- the course must be evaluated by CBC and verified as substantially equivalent in credit and content;
- all courses and earned grades will remain on the transcript. A repeat indicator will appear on the CBC transcript and the original grade will be removed from the GPA;
- a notation will be entered on the transcript indicating the course was repeated via transfer.

## Quarterly Honors Designations

Students who earn 12 credits in courses 100 or above within the quarter and achieve a quarterly GPA of 3.50-3.84 will be named to the Deans' Honor Roll.

Students who earn 12 credits in courses 100 or above within the quarter and achieve a quarterly GPA of 3.85-4.00 will be named to the President's Honor Roll.

## Graduation Honors Designations

Students who graduate with a cumulative GPA of 3.50-3.84 will graduate "with Honors".

Students who graduate with a cumulative GPA of 3.85-4.00 will graduate "with High Honors".

## Standards of Academic Progress and Performance

A student's enrollment at Columbia Basin College is a partnership among the student, the College, and the State of Washington. Columbia Basin College has a responsibility to each student, but also to the State that helps fund each student's college education, to develop standards of academic progress and performance. SB 5135 (enacted July 2003) requires timely completion of degrees and certificates in order to make the most efficient use of instructional resources and provide capacity within colleges for additional students.

The overall objectives of Columbia Basin College's Standards of Academic Progress and Performance are to improve the performance of students having academic difficulty and to support CBC's efforts to provide sound educational programs of the highest quality. Therefore in conformance with SB 5135, the College utilizes various resources and support programs to assist students toward program completion and successful academic performance:

- the College provides detailed information about degree and certificate requirements and the College's Standards of Academic Progress and Performance at mandatory advising, registration, and orientation programs for new degree and certificate seeking students;
- the College monitors student progress and academic performance throughout enrollment and intervenes when expectations are not being met.

In complying with SB 5135, Columbia Basin College does not intend to discourage or penalize students who are sincerely trying to make good use of the College's instructional services. Nevertheless, there may be instances when the College may determine that a student is not benefiting from continued enrollment. In such cases, the College may take steps to do either of the following:

- the College may limit or deny future enrollment to that student;
- the College may continue enrollment with the student bearing more of the cost.

In order to assist students in the timely completion of degrees and certificates, Columbia Basin College monitors student progress at pivotal stages of their enrollment.

- As they begin their studies at CBC, students are provided detailed information about degree and certificate requirements. During our mandatory transition workshop for all new degree- and certificate-seeking students (FYI: First Year Introduction), students develop an educational plan that maps out a strategy to meet degree or certificate requirements.
- At approximately 65 percent of credits required for degree or certificate completion, the College will invite students to meet with Counselors to review their academic progress and to prepare a graduation application. At this time, Counselors may advise that students make changes in their educational plans as necessary to complete their degrees or certificates within a reasonable time.

In the unusual case where a student has earned more than 125 percent of the credits required for degree or certificate completion and has not yet completed a graduation application, CBC may require advisor or Counselor approval in selecting courses to ensure relevance to their educational program plan.

## Academic Progress Policy

- Columbia Basin College will monitor all students indicating degree or certificate intent to ensure completion of their stated intent within a reasonable time. Only college-level credits will be monitored.
- Students are provided detailed information about degree and certificate requirements when they begin their studies at CBC. During the mandatory transition workshop for all new degree- and certificate-seeking students (FYI: First Year Introduction), students develop an educational plan that maps out a strategy to meet degree or certificate requirements.
- At approximately 65% of credits required for degree or certificate completion, students are requested to meet with counselors to review their academic progress and to prepare graduation applications. At this time counselors may advise that students make changes in their educational plans as necessary to complete their degrees or certificates within a reasonable time.
- In the unusual case where a student has earned more than 125% of the credits required for degree or certificate completion and has not yet completed a graduation application, CBC may require advisor or counselor approval in selecting courses to ensure relevance to their educational program plan.

## Academic Performance Policy

Columbia Basin College's (CBC) Academic Performance Policy includes both grade performance and credit completion components. Students in a degree or certificate program must maintain a minimum cumulative, college-level grade point average (GPA) of 2.0. Additionally, excessive withdrawals from classes will be monitored.

Academic Alert - Faculty will identify and alert students in their classes who are having academic difficulty.

Early Warning - Students, not on academic probation or suspension, who receive a quarterly, college-level GPA below 2.0 will receive the following:

- Notice of the various academic resources available to them and
- Strong encouragement to meet with an advisor or counselor before subsequent registration.

Academic Sanctions - Students who have a cumulative, college-level GPA below 2.0 will be placed on academic probation that may progress to academic suspension or dismissal. In all such situations, CBC will block students' ability to register for future classes until they have met with an advisor or Counselor at which time they will receive focused advice on course selection and scheduling and assistance with the identification of appropriate resources and other academic services. CBC will remove the probation or suspension status when the student's cumulative GPA is improved to 2.0 but reserves the right to continue to monitor student progress and performance as it deems appropriate. (Please refer to "Academic Monitoring.")



- **Probation 1** – This sanction applies to the first quarter a student receives a cumulative, college-level GPA below 2.0.
- **Probation 2** – This sanction applies to the second consecutive quarter a student receives a cumulative, college-level GPA below 2.0. **WARNING:** The next academic sanction is suspension.
- **Academic Suspension** – CBC will academically suspend the student after the third consecutive quarter s/he receives a cumulative, college-level GPA below 2.0. The normal duration for suspension is one quarter, excluding summer quarter. During academic suspension, the student may not register for any courses and may not participate in any events or activities reserved for students.
- **Waiver of Academic Suspension** – A student may request the College to waive the one-quarter suspension by submitting a "Petition to Waive One-Quarter Suspension" and meeting with a Counselor prior to the first day of the quarter. If the Counselor approves the waiver, the student will be placed on conditional enrollment. If the waiver is not approved, the student will be unable to enroll for a minimum of one quarter and, upon returning to CBC, will be placed on conditional enrollment.
- **Conditional Enrollment** – A student who re-enrolls following academic suspension must obtain a minimum 2.0 in each class or obtain a minimum 2.0 cumulative, college-level GPA.
- **Academic Dismissal** – A student who has not fulfilled the performance standards while on conditional enrollment will be academically dismissed for a period of one year.
- A student may appeal the academic dismissal based on extraordinary circumstances that affected his/her performance during the quarter leading to the academic dismissal. The student must submit an "Appeal of Academic Dismissal" form to the Vice President for Student Services no later than 30 calendar days from the date of the dismissal. The appeal will be reviewed by a committee consisting of the Vice President for Student Services, the Director of Student Success and Retention, and a Counselor. A majority decision will prevail.
  - (a) If the appeal is granted, the student will be allowed to register at the start of the next quarter. Students who fail to maintain the academic standards for conditional enrollment (above) will be academically dismissed for a period of one year without the right to a second appeal.
  - (b) If the appeal is not granted, the student will not be allowed to re-enroll at CBC until a year has passed and then must petition for conditional reinstatement.
- **Conditional Reinstatement** – A student wishing to return to CBC after the one year academic dismissal must petition for reinstatement by submitting a "Petition for Reinstatement after Academic Dismissal" form to the Vice President for Student Services no later than 90 calendar days prior to the quarter in which s/he wishes to return. The student will be expected to meet with a Reinstatement Committee, consisting of the Vice President for Student Services, the Director of Student Success and Retention, a Counselor, and an instructional faculty member. The committee will determine if the student is to be reinstated. A student who is reinstated must:
  - obtain a minimum 2.0 grade in every class taken or
  - obtain a minimum 2.0 cumulative, college-level GPA.

A student who does not fulfill the performance standards while on conditional reinstatement may continue to enroll in CBC classes, but will be assessed a financial penalty due to continued unsatisfactory performance.

**Academic Monitoring** – A student who has previously been academically suspended or dismissed may be considered at-risk even when s/he is able to bring his/her cumulative, college-level GPA to a minimum of 2.0. Thus, at the discretion of the College, a student may be required to continue working with a counselor in order to register and to monitor his/her continued academic progress.

## Non-Traditional Credit

Columbia Basin College acknowledges opportunities for mastering specific skills and competencies that can be gained outside of a formal classroom experience. Columbia Basin College recognizes various non-traditional programs and awards college credit and/or advanced placement. These programs are subject to standards established by the academic or professional/technical departments concerned.

- One-fourth of the total credits required for a CBC Associate in Arts and Science degree, Associate of Science-Transfer degree, Associate in Applied Science degree or a certificate program may be earned by non-traditional credit.
- Non-traditional credits do not count toward the minimum residency requirement.
- With the exception of a College Board Advanced Placement course, a P graded nontraditional course is limited to use within the restricted electives of the Associate of Arts and Science degree.
- Non-traditional credits may not be accepted by other educational institutions.
- For further information on non-traditional credits, contact the Admissions and Registration office.

## Credit for Prior Experiential Learning

Columbia Basin College grants credit for learning that ties prior experiences to the theories, data, and skills in the discipline. Assessment of prior experiential learning for credit is the responsibility of faculty who are content specialists. Each department that offers credit for prior experiential learning establishes specific methods for evaluation.

Prior experiential learning credit is granted only for classes that are regularly offered at Columbia Basin College. No credit will be awarded if the student has earned credit in a similar course. Before a student can be granted credit for prior experiential learning, and before the credit can become part of a student's permanent record, the student must have earned 15 or more credits at Columbia Basin College with a GPA of 2.0 or better. The general guidelines for granting credit for prior experiential learning are:

- to be eligible, the student must be enrolled at Columbia Basin College during the quarter the credit is awarded;
- a non-refundable fee per each credit must be paid for the experiential learning assessment. Contact the Cashier's office;
- each request for prior experiential learning should be directed to the appropriate instructional department lead;
- credits awarded will be recorded with a "P" grade and are specifically identified as credits for prior experiential learning on the transcript.

## Military Credit and Experience

Columbia Basin College recognizes learning acquired in the military by accepting the credit recommendations of the Guide to the Evaluation of Educational Experiences in the Armed Services. In addition, a student may earn credits awarded by institutions listed in the ACE National Guide to Educational Credit for Training Program and the Directory of the National Program on Non-collegiate Sponsored Instruction, provided that the courses are at the college level. Only those courses actually listed in these directories which have been approved for a specific period of time and which correspond to the actual time the student completed the course will be acceptable as college credit. Other non-collegiate training will be evaluated on a case-by-case basis.

Credits will be evaluated only from official transcripts requested by the student from the American Council on Education's Registry of Credit Recommendations from the organization that provided the training. Military credits will be evaluated only from official military documents.



A maximum of three Physical Education credits will be awarded for physical conditioning and all other military credit is limited to a 15-credit maximum in the restricted electives for the Associate of Arts and Science degree. Credits awarded for military training and education are recorded with a pass or fail grade.

## Course Challenge

Certain courses at Columbia Basin College may be challenged for credit through the process of a departmental challenge examination. Individual departments will determine which, if any, of their courses may be challenged. Contact Admissions and Registration to obtain an application and the procedure for credit by examination.

The general guidelines for a course challenge are:

- the student must be enrolled at Columbia Basin College during the term the course is challenged;
- if the student is enrolled in the course, it must be challenged within the first week of the course;
- the course being challenged must be offered during the term in which it is being challenged unless otherwise specified by the department policy;
- the student has never received college credit(s) for the course or for one similar to the course being challenged;
- a course may only be challenged once;
- an examination fee per credit (non-refundable) must be paid prior to the examination (contact cashiering);
- only full-time Columbia Basin College instructors or adjunct instructors with permission of department lead or division dean can administer challenge examinations. In the Math/Science division, lab courses cannot be challenged;
- challenge examinations can be given any time before grades are due at the end of the quarter, except as noted;
- credit(s) and grade earned will be recorded on the transcript

## College Level Examination Program (CLEP)

A score of 50 in the subject examination will be equated to the specific course and credit. Students must submit their score report to the Transcript office for evaluation.

## DANTES Subject Test

A score of 500 will earn credit for a specific course and credit.

## College Board Advanced Placement

A score of 3 or higher will earn five credits. A score of 4 or 5 on a World Languages advanced placement test will earn ten credits. For further information on AP credits, contact the Transcript office.

## International Baccalaureate

Students may receive college credit for the International Baccalaureate higher level subjects when a score of 4 or higher is earned in selected subjects. No credit is awarded for:

- English as a Second Language (English B);
- any science course with a lab, unless a score of 5 or higher has been attained;
- foreign language B (if language is the student's native language);
- music and art (see department).

## Records and Transcripts

### Education Records

#### Confidentiality of Student Records

The Family Educational Rights and Privacy Act (FERPA) afford students and the College certain rights with respect to education records.

They are:

- 1. The right of the student to inspect and review their education records within 45 days of the day Columbia Basin College (hereinafter referred to as "the College") receives a request for access.**

Students should make a written request to the College Registrar, identifying the records they wish to inspect. The Registrar will notify the student of the time and place where the records may be inspected. If the records the student wishes to inspect are not maintained by the Registrar, the Registrar will forward the request to the appropriate College official who will notify the student of the time and place where the records may be inspected.

Student records will be maintained according to the retention policy set out by the State Board for Community and Technical Colleges.

The College reserves the right to refuse to permit the inspection and review of:

- financial statements of the student's parents;
- confidential letters and confidential statements of recommendation placed in the education record if the student has waived his or her right to inspect and review those letters and statements and the letters and statements related to the student's admission to a program, an application for employment, or receipt of an honor or honorary recognition;
- confidential letters and statements placed in the education record except when these documents have been used for any purpose other than that for which they were originally intended;
- records that contain information about other students;
- documents excluded from the FERPA definition of education records.

- 2. The right of the student to request the amendment of their education records that the student believes is inaccurate, misleading, or otherwise in violation of the student's privacy or other rights.**

Students may request that the College amend a record that they believe is inaccurate, misleading, or otherwise inappropriate. They should submit their request in writing to the appropriate College official responsible for the record, clearly identifying the part of the record they want changed and specifying why the record is inaccurate, misleading, or otherwise inappropriate.

The College will provide a written response to student requests, either demonstrating the change in the record which has been made or the decision not to amend the record as requested. In the latter case, the College will notify the student of his/her right to a hearing regarding the request for the amendment as well as provide additional information regarding the hearing procedures.

- 3. The right of the College to release personally identifiable information contained in a student's education records, except to the extent that FERPA authorizes disclosure without consent (section 4).**

One exception, which permits disclosure without consent, is disclosure to College officials with legitimate educational interests. College officials include parties who contract with the College or are required by law to provide services to the College and have a legitimate educational interest in a student's education records.

A College official has a legitimate educational interest if the official is:

- performing a task or service specified in the official's position description or contract;
- performing an instructional task directly related to the student's education;



- performing a task related to the discipline of a student;
- performing as a faculty advisor, program director, or dean;
- providing a service or benefit related to the student or student's family, such as healthcare, counseling, job placement, financial aid, or health and safety emergency.
- providing legal services to the College.

#### **4. The right of the College to release directory information without student consent.**

The College considers the following to be directory information that may be disclosed without consent if it is determined the party requesting the information has a legitimate need for the information: name, address, telephone number, date of birth, email address, dates of attendance, degrees/awards received, previously attended educational institutions, participation in activities or sports, and weight and height of members of athletic teams. Additionally, the College is required to provide military recruiters with the following additional information: student's telephone listing and number of credits earned.

Columbia Basin College may disclose personally identifiable information designated as directory information from a student's education records without prior consent, unless the student informs the Registration and Records office in writing that directory information should not be released without their written approval. This request will prevent any release of information to a third party without a signed release from the student. In addition, the electronic record will be annotated preventing the electronic release of information, with the words "privacy block" in the student records. This certification does not preclude the verification of degrees awarded for graduation purposes.

#### **5. The right of the College to release educational records without student consent.**

Institutions may disclose to parents or legal guardians the educational records or components thereof without written consent by the student if it is determined that the student violated any federal, state, or local law or any institutional policy or rule governing the use of alcohol or controlled substances (refer to Article X of the CBC Code of Student Rights and Responsibilities) and the student is under the age of 21 at the time of the disclosure to the parent.

#### **6. The right to file a complaint with the U.S. Department of Education concerning alleged failures by Columbia Basin College to comply with the requirements of FERPA.**

The name and address of the office that administers FERPA is:

Family Policy Compliance Office

U.S. Department of Education

400 Maryland Avenue SW

Washington, DC 20202-4605

## Transcripts

An official transcript is a record of a student's permanent academic work at Columbia Basin College. It bears the College seal and the Registrar's signature. In compliance with the Family Education Rights and Privacy Act of 1974 (FERPA), a transcript of grades will be sent to a college, university, or other agency only upon the student's written request. Students may order an official transcript through Enrollment Services by submitting a written request by fax, mail, or in person or with a signed Transcript Order Form available on the College's website at [www.columbiabasin.edu/transcripts](http://www.columbiabasin.edu/transcripts). Please allow 7 business days for processing. Transcripts will not be released to a third party without written permission of the student. Unofficial transcripts are available at no cost on the college's website at [www.columbiabasin.edu/kiosk](http://www.columbiabasin.edu/kiosk). Holds on permanent records resulting from non-payment of financial obligations, or failure to return College-owned material, must be cleared by the student before transcripts will be released. Columbia Basin College does not release transcripts from high schools or

other educational institutions. Transcripts submitted during the admissions process are part of the student's official file and will not be returned to the student. For additional information on ordering transcripts, call (509) 542-4524.

## Record Retention

Columbia Basin College academic records will be maintained according to the state retention guidelines. For further information, contact the Registrar.

## General Policies

### Student Rights and Responsibilities

All students at Columbia Basin College are expected to comply with College policies, procedures, and regulations. Students are also provided with certain rights, including due process. These rights and responsibilities are fully outlined in the Code of Student Rights and Responsibilities. The Code is administered by the Vice President for Student Services and is available in the Library, the Office of the Vice President for Student Services, the ASCBC offices, and on the Columbia Basin College website at [www.columbiabasin.edu/rights & responsibilities](http://www.columbiabasin.edu/rights&responsibilities). For further information, please contact the Vice President for Student Services.

### Drug and Alcohol Abuse Prevention

In compliance with the Drug-Free Schools and Communities Act Amendment of 1989, Columbia Basin College has adopted and implemented a program to prevent the unlawful possession, use, or distribution of illicit drugs or alcohol by students and employees. The Columbia Basin College Code of Student Rights and Responsibilities specifically prohibits the possession, use, and distribution of drugs and alcohol where prohibited by law. Violation of these policies may result in mandatory referral for evaluation or treatment for substance/alcohol abuse and/or may be cause for disciplinary action.

### Sexual Harassment Policy

By upholding the requirements of Title VII of the Civil Rights Act of 1964, as amended, Columbia Basin College is committed to maintaining a college environment free from all forms of discrimination, including sexual harassment. This commitment applies to all levels and areas of Columbia Basin College operations and programs, to students, faculty, staff, and all other personnel. Sexual relationships between Columbia Basin College employees and students are deemed unwise.

Any Columbia Basin College employee or student who believes he or she has been subjected to sexual harassment, or who believes he or she has been charged wrongfully with a sexual harassment complaint, may utilize Columbia Basin College's sexual harassment complaint procedures by contacting any of the following:

- Title IX Officer
- Affirmative Action Officer
- Sexual Harassment Ombudsman
- Any Columbia Basin College administrator or supervisor.



## Student Resources

### Assessment Center

The Assessment Center provides a wide variety of testing services to assist students in the following areas:

ASSET/COMPASS: Assessment of skills in English, reading and math for appropriate college course placement.

CLEP (College Level Examination Program): College credits may be earned by taking exams in a variety of subjects.

GED Testing: Adults who have not graduated from high school may obtain a Certificate of Educational Competency by passing the GED test. Refer to Admissions Information section.

The Center also serves as the test site for a number of standardized educational exams, certification exams, and proctored exams for other colleges.



*If you need accommodations for assessment based on a disability, please contact the Resource Center at (509) 542-5525 (509) 546-0400.*

### Bookstore

The Columbia Basin College Bookstore is located in the Hawk Union Building (HUB). Store hours during fall, winter, and spring quarters are 7:30 a.m. - 7:00 p.m. Monday through Thursday and 7:30 a.m. - 1:00 p.m. on Friday. The bookstore is closed weekends and student holidays. Please call for hours during student non-attendance breaks (i.e. summer, winter, spring).

The bookstore is owned and operated as a service by Columbia Basin College for our students and the community. The store sells required and recommended textbooks, as well as general reading materials and study aids, school supplies, art and engineering supplies, emblematic clothing, greeting cards, and gift items. We welcome opportunities to serve you.

There are established refund, exchange, and buyback policies. These are available in the bookstore and at our website. Current quarter textbook information is available online <http://www.cbcbookstore.com>.

## Career and Employment Services

### Counseling/Advising Center

Career Counseling - Counselors help students and members of the community identify educational interests and assist in career exploration. They interpret interest and personality inventories to aid individuals who are making career and educational decisions or are undecided about a major or program. Career, transfer, job search, and personal/professional development workshops are scheduled throughout the year. They provide information and referrals to a wide range of resources both on and off campus.

### Student Employment Services

Students are referred to job openings throughout the Tri-Cities area. Interviews are scheduled on campus and resumes are mailed for specific career opportunities. Job openings and student resumes are posted on the Internet at <http://jobs.columbiabasin.edu>. Students may be referred through the Student Employment office at any time during the year.

### Student Employment

The Student Employment office provides employment information to Columbia Basin College students, graduates, and the community. Students may find part-time, full-time, temporary, and summer work through the office. The range of positions varies from unskilled, part-time work to highly skilled technical positions.

### Workshops

Workshops are held throughout the year to provide opportunities for students to meet with professionals in their career fields, design job-search strategies, and learn of future career opportunities.

### Career Expo

Career Expo is an annual event. Nearly 100 employers are invited on campus to meet with students, answer questions, and share job opportunities.

### State Work Study

Career-oriented opportunities throughout the Tri-Cities are available to students who qualify for financial aid. Students are placed in jobs that allow them to gain experience in their field of study.

### Job Search Assistance

The Student Employment office helps students with job search strategies, resume writing, interviewing techniques, and how and where to look for employment.

### WorkFirst

Located in the Career and Employment Services Center (CESC) in the Hawk Union Building (HUB), WorkFirst programs provide services and funds to eligible, low-income working parents to support some educational plans. WorkFirst programs offer:

- training specialists ready to assist you with career and educational planning;
- registration assistance;
- financial assistance for tuition, fees, and books for vocational, technical, and professional training programs;
- year-round WorkFirst, Work Study, for TANF recipients;
- customized, short-term training for TANF recipients designed in partnership with businesses ready to give hiring consideration to training completers;
- referral assistance for Working Connection Child Care services.

For more information, please contact WorkFirst, (509) 542-4719.

### Worker Retraining

Are you unemployed? Is your occupation or industry in decline? Are your skills no longer in demand? If you are unemployed, through no fault of your own, with limited opportunity to return to your previous occupation, receiving Washington State unemployment insurance or have exhausted your unemployment benefits within the last two years, you may be eligible for Worker Retraining program under Dislocated Worker.

Have you been a homemaker for the past two years and have lost your source of support? You may qualify for Worker Retraining as a Displaced Homemaker.

You may also qualify under the Expanded Eligibility if you are currently employed and meet two of the three following requirements: 1. your current job is a job not in demand, 2. your current employer requires that you take courses in order for you to keep your job or move up, 3. you have under 45 college credits.

Financial assistance for training in technical or vocational programs may be available if you qualify for any of the above categories.

For more information about program eligibility, call Columbia Basin College Worker Retraining office at (509) 542-4446.



## College Assistance Migrant Program (CAMP)

The College Assistance Migrant Program is a unique educational program designed to help students from migrant and seasonal farm worker backgrounds succeed in college. The program is funded by the U.S. Department of Education and is administered through the Office of Diversity and Outreach at Columbia Basin College.

Our mission is to provide students with the academic foundation they need to successfully reach their educational and career goals. CAMP will provide students with intensive academic, career, financial, and support services during their first year of college. For more information, please contact the CAMP office at (509) 542-4602.

## Counseling and Advising Center

The primary responsibility of the Counseling and Advising Center is to assist students in their personal, educational, and professional growth and planning. The Center provides a variety of services:

**Educational Planning** - Educational Planners assist students in their transition into CBC by providing information about the College's processes, procedures, and policies. They participate in College orientation and initial registration activities and, most importantly, assist students in developing educational plans to meet individual goals.

**Academic and Transfer Advising** - Although a variety of individuals at CBC provide academic advice to students, faculty counselors are primarily responsible for assisting students in making decisions about academic or occupational goals. They provide specific information about Columbia Basin College courses and programs, as well as specialized training options and transfer requirements for other educational institutions.

**Career Counseling** - Counselors help students and members of the community identify educational interests and assist in career exploration. They interpret interest and personality inventories to aid individuals who are making career and educational decisions or are undecided about a major or program. Career, transfer, job search, and personal/professional development workshops are scheduled throughout the year. They provide information and referrals to a wide range of resources both on and off campus.

**Personal Counseling** - Faculty Counselors are registered by the state of Washington to provide personal counseling and assist students with issues that may affect their academic performance or progress in meeting their educational goals. They offer workshops and other interventions aimed at improving student educational success and personal development. Counselors refer students wanting prolonged counseling to community mental health professionals.

To schedule an appointment with a Faculty Counselor or Educational Planner, please call the Counseling and Advising Center at (509) 542-5505.

## High School Equivalency Program (HEP)

The High School Equivalency Program (HEP) is a federally funded program that assists migrant and seasonal farm workers to earn their General Education Development (GED) Certificate.

The goal of HEP is to help students enhance their survival skills and knowledge so that they may qualify for more rewarding employment or for entry into vocational or technical schools, two-year community colleges, four-year universities, or the military service. Classes are offered in both English and Spanish. For more information call, (509) 542-4775.

## International Student Services

International Student Services coordinates with students and the Admissions and Registration office to ensure all admission requirements are met and students are in compliance with international student guidelines.

Services we provide include:

- class advising;
- college transfer assistance;
- assisting students with questions and concerns;
- ensuring students are in compliance with international student guidelines.

For more information, please contact the International Student Services office at (509) 542-5500.

## Library Services

Students, faculty, staff, and other interested individuals are encouraged to use the resources available at the Columbia Basin College Library, located in the L building on the Pasco campus.

The Library provides access to numerous computerized resources for educational purposes including databases that index periodicals, with more than 6,700 titles in full text. The Library has approximately 60,000 books; an excellent collection of more than 2,400 sound recordings on compact discs and LPs; more than 3,000 instructional videos, and other audiovisual materials. The Library has study space for individuals, rooms for group study, and a large computer lab for instruction.

The Benton-Franklin County Regional Law Library is located in the northwest corner of the CBC library. The Columbia Basin Regional Medical Library, a branch library for Columbia Basin College, is located on the third floor of the CBC Health Science Center in Richland. The medical library provides resources, services, training, and professional assistance to students, faculty, physicians, and other healthcare professionals in Benton and Franklin counties.

Reference librarians are available during library hours to provide assistance to library users. Library orientation sessions are available upon request at the main library and the medical library or through remote access, providing information on effective use of the library resources.

The Columbia Basin College student identification card serves as a library card. Students are encouraged to stop by the Library to fill out a registration form so they may borrow material from the Library and access specialized computer resources. The College catalog and several of the computerized resources can be accessed remotely at [www.columbiabasin.edu](http://www.columbiabasin.edu). Current students may request passwords and user information at the Library or [library@columbiabasin.edu](mailto:library@columbiabasin.edu). The quarterly password is also available through student WebCT accounts.

The main campus library hours for fall, winter, and spring quarters are Monday through Thursday from 7:30 a.m. to 9:00 p.m., Friday 7:30 a.m. to 5:00 p.m., and Saturday from 9:00 a.m. to 5:00 p.m. Contact the Library regarding hours for the medical library, interim, and summer quarter hours at (509) 542-4887 or TDD/TTY (509) 546-0400.



## Office of Diversity & Outreach

In July 2001, in an effort to provide educational access and support to all of the residents of Benton and Franklin counties, particularly those traditionally underserved by the higher education system, CBC established the Office of Diversity. Through this office, the College's goal is to make CBC a more open and inviting place for students, faculty, and staff. CBC values and respects diversity as a necessary foundation for a healthy learning and working community and is committed to diversity in its curricula, student body, faculty, staff, architecture, art, and activities.

The Office of Diversity actively pursues opportunities that will ensure diversity in all aspects of campus life, including developing relationships with external partners in education, government, and the community. The College initiates special programs to assist traditionally underserved students and/or students with limited access to higher education. These special programs include:

- High School Equivalency Program, to help local farm workers obtain a GED;
- College Assistance Migrant Program, to help migrant farm workers and children of farm workers achieve success in college;
- Title V Developing Hispanic-Serving Institutions Cooperative Grant, to improve online advising and at-risk student success in math and science;
- Community Based Job Training Grant, to develop a radiologic sciences training program;
- Upward Bound, to assist low-income and potential first-generation college students from local high schools prepare for and pursue higher education; and
- Student Support Services, to support low-income and first-generation college students succeed in college.

Given that diversity is integral to all dimensions of the CBC Mission, the College believes that it is important for strategies that promote diversity be embedded in all CBC programs. Therefore, diversity initiatives are integrated and supported within programs and services described throughout this catalog.

## Office of Student Success and Retention

The Office of Student Success and Retention develops programs to assist students in completing their educational goals in a timely and efficient fashion. The office coordinates the First Year Introduction (FYI) workshops, as well as, the Tutor Center.

### First Year Introduction – FYI

First Year Introduction is a 12-hour mandatory college transition workshop for all new degree and certificate seeking students. FYI assists new students by providing a thorough introduction to college and to CBC. Students are required to complete the workshop prior to enrollment in their second quarter of classes at Columbia Basin College. Students register for this workshop while registering for their first quarter classes. Students who have more than 30 transfer credits with a minimum of a 2.0 GPA, students who are taking less than 15 credits at CBC prior to transferring to another institution, students who are taking courses for personal enrichment only, and/or students in short-term certificate programs, are exempt from taking FYI.

### Tutor Center

The Tutor Center provides free help with studies for Columbia Basin College students for most departments on campus. Drop-in help is available for math, science, writing, and other subjects for which there is generally high demand during regular Tutor Center hours. Please visit the Tutor Center located in the Math/Science Building (TD-434) on the Pasco Campus or refer to the Tutor Center website for current hours and drop-in subject availability.

Private tutoring is also available in subjects for which there is no drop-in tutoring or in other extraordinary circumstances upon approval by the Tutor Center Staff.

e-Tutoring is available to all CBC students in a variety of subjects. e-Tutoring provides both synchronous and asynchronous instructional support for students enrolled in live and online courses at CBC. Students may access e-tutoring from the Tutor Center website or at [www.etutoring.org](http://www.etutoring.org)

For writing assistance, students bring in assignments or drafts and tutors offer suggestions on how to develop ideas, revise, and edit. Writing tutors will assist students with essays, science lab reports, summaries, term research papers, book reviews/reports, letters of application and inquiry, short stories, and other forms of writing. Students can drop in during the regular hours or they can send essay drafts to the writing tutors via email to [cbcwriting@columbiabasin.edu](mailto:cbcwriting@columbiabasin.edu).

For more information, please contact the Tutor Center at (509) 542-4676 or visit the website at [www.columbiabasin.edu/tutor](http://www.columbiabasin.edu/tutor).

## Research and Instructional Assessment

Columbia Basin College's commitment to its mission and goals requires conducting regular evaluations of progress in achieving those goals. Testing and surveying at various points in students' educational journeys are essential parts of this evaluation process. In addition, students may be asked to cooperate in various surveys, interviews, focus groups, and other data collection efforts by the College.

Since the goals of Columbia Basin College are directed to the education of the whole person, student achievement can be measured only by evidence concerning the whole person. To protect confidentiality of data, the Office of Institutional Research never releases personal information about individuals and, wherever possible, avoids attaching names to personal data during analysis.

## Resource Center

The Resource Center is dedicated to assisting students and community members in reaching their personal and professional goals. The Resource Center is open to those who want to begin college but are not sure how to get started, as well as, to currently enrolled students who need assistance to overcome obstacles that make reaching their educational goals more difficult.

The Center offers counseling and advising, as well as, services in three major areas:

### Family Services

- childcare reimbursement\*
- Don't Quit Workshop
- community referrals
- Holiday Program\*
- support groups

### Disability Services

- test accommodations, including ASSET/COMPASS, GED, CASAS
- sign language interpreters
- adaptive equipment
- academic accommodations

### Student Assistance

- short-term emergency tuition and book loans\*
- travel/bus passes\*
- fee waivers\*
- Learning Needs Assessments
- student networking

To schedule an appointment, call (509) 542-5525 TTY (509) 546-0400.

\*Income guidelines apply



## Campus Security

Columbia Basin College strives to provide a safe and secure environment for students, staff, and visitors. The College has a Campus Security Department whose staff also enforces College parking and traffic regulations, provides escorts, jump-starts vehicles, retrieves keys locked in vehicles, maintains lost and found articles, and assists local, state, and federal law enforcement agencies.

In an emergency, 911 is called. On-campus emergency assistance is available by calling (509) 542-4819 or TDD/TTY (509) 546-0400. To call after hours, dial the evening and weekend cell phone (509) 521-4599. At least one parking or security officer routinely patrols CBC facilities and parking lots and provides emergency assistance as necessary. Security officers have authority to request identification and to determine whether individuals have lawful business at Columbia Basin College.

### Coordination With Law Enforcement

CBC maintains close coordination with local law enforcement agencies at all CBC locations and activities. CBC's security officers have the same arrest capability as a citizen. Criminal incidents are referred to the local police who have jurisdiction on the CBC campus. All College personnel and students should immediately report any crime, suspicious circumstance/person, or emergency to the 911 Dispatch Center or to the CBC Security Department (509) 542-4819 or via the Crime Incident Report Form located on the CBC Website at <http://columbiabasin.edu/asafercbc>. Prompt reporting will assure timely warning notices on campus and timely disclosure of crime statistics.

Contact Campus Security if you:

- are a victim of a crime that has occurred on campus;
- see a suspicious activity or a suspicious vehicle on campus;
- have information about a theft of property;
- have been involved in an auto accident or have witnessed one;
- smell smoke or fumes inside a building;
- see smoke or flames inside a building;
- have been injured and/or need first aid;
- notice any other safety or security related problems.

### Campus Security Act

The Department of Education and the Jeanne Clery Act require all colleges to provide information to students and employees about its campus safety policies, procedures, and statistics on certain crimes. CBC has developed a protocol with area law enforcement agencies to report and obtain data for the annual crime statistical report that is required for both on-campus and off-campus locations owned or operated by the College and occurring on adjacent public property. These statistics can be located at the following website: [www.columbiabasin.edu/safety](http://www.columbiabasin.edu/safety).

Printed copies of the above report are available in the Admissions/Registration office at CBC. The report on safety and crime statistics also is available by contacting: Columbia Basin College, Camilla Glatt, Vice President for Human Resources & Legal Affairs, 2600 North 20th Avenue, MS-A2, Pasco, WA, 99301, (509) 542-5548, or [cglatt@columbiabasin.edu](mailto:cglatt@columbiabasin.edu).

### Safety Alerts

In the event that a situation arises, either on or off-campus, that, in the judgment of the President's Cabinet and the Campus Security Office, constitutes an ongoing or continuing threat, a campus wide "timely warning" will be issued. The notification could be in the form of posters, flyers, email, text messages, and/or notices in the student bulletin.

## Disciplinary Action

Any student or College personnel who commit an act in College facilities, which is punishable as a misdemeanor or a felony, such as sexual assault, under Washington state law, may be subject to appropriate disciplinary process procedures. These proceedings may include the opportunity of the accused and accuser to have others present during a disciplinary proceeding and notification of the final determination resulting from the proceeding.

### Sexual Offender Notification

Sexual offenders (includes kidnappers), Level I, II, & III, are required by law to register with the county sheriff in the county where they reside. The law requires that they also inform the county sheriff if they register for school. The county sheriff, in turn, is required to notify the school of any Level II or III sex offender who may have registered to attend classes. These notifications are intended to inform the campus community and to promote personal safety rather than create panic.

CBC is bound by state law to be an open door admission institution and only in those situations where a prospective or enrolled student is determined to be disruptive to the educational environment or would not benefit from enrollment will admission be denied or revoked.

Notifications of sex offenders enrolling at CBC are received from the Franklin or Benton County Sheriff's Department and are sent to CBC's Campus Security office who will provide notification to the College's Vice President for Student Services or Vice President for Human Resources and Legal Affairs as appropriate. Notification to the college community will be made pursuant to the CBC's Sexual Offender Notification Procedure which can be located at the following website: [www.columbiabasin.edu/safety](http://www.columbiabasin.edu/safety).

### Personal Safety Information:

*If you are being followed:*

- change your direction, cross the street;
- keep looking back so the person knows you can't be surprised;
- go to a well-lighted area, such as a classroom, office, or library, anywhere there are people;
- notice and remember as much as possible about the person so you can give a good description;
- at night, walk with someone; there is safety in numbers;
- report anything suspicious to campus security or the police.

### Sexual Assault

CBC is aware of the growing occurrence of sexual assault, including acquaintance/date rape. All members of the College community are encouraged to follow standard crime prevention practices such as locking their motor vehicles, parking and walking in well-lighted areas, and being aware of the people and surroundings around them. The College offers information and referral for victims of sexual assault. Victims of sexual assault on any College-owned or leased facility are encouraged to report the incident as soon as possible to a College official or the College Security department through the normal security procedures, as well as to local law enforcement authorities.

## Student Activities

### Student Programs Office

Participation in student activities and programs is a valuable part of the educational experience at CBC. The Student Programs office works with student groups to develop and plan cultural, social, recreational, and educational events to meet the needs of the College community. Student funded activities include intercollegiate athletics, intramural sports, music, drama, and various interest clubs. For information about activities and how to get involved, call the Student Programs office at (509) 542-4823.



## Student Government

The Associated Students of CBC, also known as ASCBC, is a self-governing body that allocates funds for student activities and programs. They determine the policies under which all ASCBC clubs and organizations operate. This group, led by the ASCBC Executive Council, also provides information to the administration on a variety of issues affecting students. Students can become involved with ASCBC by becoming an officer or a Senator, serving on the Program Board, serving on various campus committees, or by simply attending the programs ASCBC sponsors. The ASCBC offices are located on the upper level of the Hawk Union Building (HUB).

## Organizations and Clubs

Students are encouraged to take advantage of the honorary, professional, religious, and social clubs available at CBC. Student clubs sponsor and plan many campus student activities. The clubs also involve themselves with the ASCBC Congress by sending a representative to meetings throughout the school year. All clubs have a staff advisor who helps members plan their activities. Clubs focus on arts, sports, diversity, politics, career/vocation, religion, and various other interests. Some past clubs have included:

- African American Association
- Anthropology Club
- Automotive Performance Club
- Northwest Collegiate Ministries
- Queer Coalition
- Phi Theta Kappa (Honor Society)
- Japanese Culture Club
- Table Tennis Club
- Speech Debate Team
- Student Art Club
- Associated Student Nurses

## Intramurals

CBC offers various intramural programs sponsored by ASCBC. Several activities are planned each quarter for both men and women. Past activities have included flag football, three-on-three basketball, golf, bowling, and other activities according to student interest.

## Athletics

CBC is a member of the Northwest Athletic Association of Community Colleges. Men's teams represent Columbia Basin College in intercollegiate competition in baseball, basketball, golf, and soccer. Women's teams compete in basketball, soccer, softball, golf, and volleyball.

Athletic scholarships are available for participants. Participants must be enrolled in at least 12 credits per quarter. In addition, an athlete must have a 1.5 grade point average the quarter preceding competition. Second year participants must maintain a 2.0 grade point average.

## Performing Groups

The Music department offers a number of vocal and instrumental groups that students are encouraged to participate in. Some of the ensembles are: Jazz Ensemble, Concert Band, CBC Symphony Orchestra, FreeForm (a vocal jazz group), Concert Choir and Chamber Choir. Participation in these groups may require an audition. For more detailed information, please contact the Music department at (509) 542-4772.

The Theatre Arts department presents several plays during the school year. All students are encouraged to try out for parts in the plays or for positions on the production staff.

## Student Support Services

Student Support Services is a federally funded project to help students finish college. Students may be eligible for Student Support Services if they have a documented disability, are financially limited, or neither parent has a four-year degree. Student Support Services provides the following support:

- career planning;
- transfer planning/educational counseling;
- financial aid information and monitoring;
- academic advising and campus visits;
- coordination with the Resource Center;
- individual tutoring in math and science;
- cultural events.

## Graduation Requirements

### Application for Graduation

Candidates for degrees, certificates, and diplomas should meet with their counselor, educational planner, or program advisor at least two quarters prior to the anticipated completion date. During the last quarter in which all requirements are being completed, students must formally apply to graduate. Graduation applications for all transfer degrees are available from a Counselor or Educational Planner in the Counseling and Advising Center. Graduation applications for the Associate in Applied Science degrees and certificates are available from program department advisors. Students may graduate at the end of any quarter. To be approved for graduation, students must have:

- completed all degree/certificate program requirements and must have complied with the requirements of the college catalog (See Catalog Option section);
- earned a minimum of 30 credits of applicable course work at Columbia Basin College;
- earned a minimum cumulative grade point average of 2.0 or above in all college-level courses taken at Columbia Basin College;
- earned a minimum combined cumulative grade point average of 2.0 or above in all college-level courses taken at Columbia Basin College and transferred from other colleges.

### Catalog Option

Students applying for graduation must comply with the requirements of the College catalog. Students may apply for graduation under the catalog in effect at the time of enrollment or any subsequent catalog, provided the student does not drop out for a period of more than four consecutive quarters (including summer quarter). Students who drop out for a period of more than four consecutive quarters (including summer quarter) have the option of applying for graduation under the catalog in effect at the time of re-enrollment or any subsequent catalog. They may not apply for graduation under any catalog that was in effect prior to the re-enrollment.

## Degrees

### General Description

The liberal arts have played an important role in the academic life of Columbia Basin College since the founding of the College. The Associate in Arts and Science degree is a direct transfer degree (DTA) designed for students who plan to transfer to a four-year institution after completing the first two years of study at Columbia Basin College. This degree meets the Inter-college Relations Commission (ICRC) guidelines for direct transfer degrees. If admitted to an institution subscribing to these guidelines, the degree holder will be granted junior status and will have fulfilled most of the lower-division general education requirements of baccalaureate degree programs offered by many public and independent colleges and



universities in Washington state. Students are encouraged to meet with their advisors early in their academic planning to review the degree options listed below and design a plan that best fits their educational and transfer goals.

As a result of the work by members of the Washington community and technical college system and the public baccalaureate institutions, the Major Related Program agreements (MRP) were developed. These direct transfer agreements place transfer students from community colleges on comparable footing with direct entry counterparts at four-year institutions within Washington state. Students who complete the requirements for a Washington community college qualifying Transfer Associate degree, Major Related Program will have satisfied the lower division general education (or core) requirements and lower division math and science requirements to the same extent as direct-entry university students pursuing similar goals.

The Associate in Science Transfer degree (AS-T) is based upon an agreement between Columbia Basin College and many colleges and universities in the state of Washington. This degree is an efficient pre-designed educational path for students who wish to complete a baccalaureate program in several of the science fields. The Associate in Science Transfer degree will not substitute for many of the general university requirements, but will allow CBC students to enter a participating four-year college or university with 90 credits, junior standing and the majority of major prerequisites completed. Students completing the degree must be prepared to complete any remaining general education requirements along with remaining program or graduation requirements during their junior or senior year of academic study. The Associate in Applied Science degree is earned by students who complete a prescribed two-year professional/technical program with a cumulative GPA of 2.0 or above. The Associate in Applied Science degree is not designed for transfer, although some classes may be accepted for transfer by baccalaureate degree institutions.

## Direct Transfer Agreements

All degree requirements are listed below. It is important that students refer to the specific degree outlines located in this catalog and work closely with a Counselor, Faculty Advisor, or Educational Planner at Columbia Basin College to assist in choosing the appropriate degree to meet their educational goals.

## Associate in Arts and Science Degree (DTA)

### Minimum 90 Credits

An Associate in Arts and Science degree (DTA) is recommended for students who have not yet decided the field they will enter or the four-year institution they will attend. It gives students the broad background they need before beginning more specialized, upper-division courses and indicates to the transfer institution that a student has completed a two-year liberal arts program. The degree requires a minimum core of 66 credits, including 13 credits in communications, 15 credits in social science/behavioral science, 15 credits in science/mathematics, 15 credits in humanities, five credits in quantitative/symbolic reasoning skills, and three credits in health/physical education. The degree requires 24 elective credits, with a total of 90 quarter credits and a cumulative GPA of 2.0 or above. To receive this degree from Columbia Basin College, students must earn 30 of the degree credits at CBC. Substitutions of graduation requirements must be recommended by departmental faculty and the divisional dean and be approved by the Graduation/Admissions Committee. Refer to the specific degree outline located in the "Degree Offerings" section within the catalog. Students are advised to work closely with an advisor from Columbia Basin College. (Option A)

For students who have selected a major and identified the four-year institution they plan to attend, the Associate in Arts and Science degree (DTA) is also recommended and may be tailored to fulfill most pre-program, lower-division requirements. This option provides students an opportunity to prepare for a specific professional area of study, such as architecture, education, art, or music, and, thereafter, transfer to a specific college, university, or state college. The degree requires a minimum core of 66 credits, including 13 credits in communications, 15 credits in social science/behavioral science, 15 credits in science/mathematics, 15 credits

in humanities, five credits in quantitative/symbolic reasoning skills, and three credits in health/physical education. The degree requires 24 elective credits, with a total of 90 quarter credits and a cumulative GPA of 2.0 or above. As above, students must earn 30 of the degree credits at Columbia Basin College. Students are required to complete all of the Associate of Arts and Science degree requirements (DTA) listed above and are strongly advised to work closely with an advisor from Columbia Basin College and an advisor from the transfer baccalaureate institution to ascertain limits on transferability of community college credits and appropriate course selection for the major. (Option B)

## Associate in Arts and Science Degree (DTA) - With Emphasis

### Minimum 90 Credits

An Associate in Arts and Science degree (DTA) with an emphasis is recommended for students who have decided on a major but have not identified the four-year institution they will attend. The degree is designed to satisfy most or all of the specific pre-program major requirements of most baccalaureate institutions. The degree requires a minimum core of 66 credits, including 13 credits in communications, 15 credits in social science/behavioral science, 15 credits in science/mathematics, 15 credits in humanities, five credits in quantitative/symbolic reasoning skills, and three credits in health/physical education. The degree requires 24 elective credits, with a minimum total of 90 quarter credits and a cumulative GPA of 2.0 or above. Students must earn 30 of the degree credits at Columbia Basin College. Please refer to the specific degree outlines located alphabetically within the catalog and work closely with an advisor from Columbia Basin College. (Option C)

## Associate in Math Education (DTA)

### Minimum of 90 Credits

The Associate in Math Education degree (DTA) is a direct transfer agreement and was created to aid students interested in careers as secondary math or science teachers. Future secondary teachers must pursue a major in their field as well as fulfill entrance requirements into a school of education. As a result, there is little room for electives. This degree is intended to insure that graduates of Columbia Basin College are as well prepared as their counterparts at four-year colleges. The transferability of this degree is backed by a statewide articulation agreement with teacher-training universities. This degree will fulfill the general education requirements at the public Washington state transfer institutions. Apart from the requirements embedded within the degree, it is recommended that students check specific requirements of their intended transfer schools. This is especially true of the area of field experience, since teacher certification institutions vary in terms of the quality and quantity of experience required. To earn this degree, students must complete 90 quarter credits in courses numbered 100 or above from approved distributions and must attain a cumulative grade point average of at least 2.0. Students must earn 30 of the degree credits at Columbia Basin College. Please refer to the specific degree outline located alphabetically within the catalog and work closely with an advisor from Columbia Basin College and the transfer baccalaureate institution.

## Major Related Programs (DTA/MRP)

### Minimum 90 credits

The Major Related Program degrees (DTA/MRP) are recommended for students who have identified a major and wish to transfer to a four-year institution within Washington state. As a result of the work by members of the Washington community and technical college system and the public baccalaureate institutions, the following transfer agreements were jointly approved. These direct transfer agreements place transfer students from community colleges on comparable footing with direct entry counterparts at four-year institutions within Washington state. Students who complete the requirements for a Washington community college qualifying Major Related Program degree will have satisfied the lower-division general education (or core) requirements and lower-division math and science requirements to the same extent as direct-entry university students pursuing similar goals.



## Associate in Elementary Education Degree (DTA/ MRP)

### Minimum 90 Credits

The Associate in Elementary Education (DTA/MRP) is a direct transfer degree that is intended for all future elementary school teachers. It provides students a broad foundation in liberal arts and beginning coursework in teacher education that is needed upon transfer to teacher certification programs at Washington state colleges and universities. It is designed to provide early experiences in teacher education, including opportunities for hands-on work in local classrooms and specific courses for elementary teachers. The transferability of this degree is backed by a January 2006 statewide articulation agreement between the following baccalaureate institutions offering Elementary Education bachelor's degrees and the community and technical colleges system. The baccalaureate institutions party to this agreement are: CWU, EWU, WSU, WWU, City University, Gonzaga, Heritage, PLU, SMU, SPU, WWU, and Whitworth.

The degree requires 13 credits in communications, five credits in quantitative/symbolic reasoning, 15 credits in humanities, 15 credits in social/behavioral sciences, 15 credits in mathematical/natural sciences, and three credits in health/physical education. In addition, the degree requires 28 elective credits including 10 credits in mathematics, five credits in psychology, eight credits in education, and five credits in computer science, for a minimum total of 94 quarter credits. To receive this degree from Columbia Basin College, students must earn a minimum of 30 degree credits at CBC. Students must earn a cumulative grade point average of at least 2.0, but students should be advised that most teacher preparation programs require a GPA of 2.5 to 3.0 for admission. A minimum of 30 hours of K-8 classroom experience must be included during the degree program and students should be able to demonstrate computer literacy in software programs including word processing, PowerPoint, and spreadsheets, in addition to being proficient on the Internet. These skills should be demonstrated through a portfolio of files gathered during their educational course work. Although not required for this degree, students should be advised they must take the WEST-B before completing their community college course work in order to apply to teacher preparation programs.

## Associate in Business Degree (DTA/MRP)

### Minimum 106 Credits

The Associate in Business degree (DTA/MRP) is a direct transfer degree and is generally pursued by students who plan to transfer to a four-year university as a business major after completing their first two years at Columbia Basin College. It is designed to meet the distribution requirements at four-year institutions in Washington state, by fulfilling the general requirements taken by freshman and sophomores. The degree also indicates that a student has completed a two-year business program, which may be of value to career or lifetime goals. To earn this degree, students must complete a minimum of 90 quarter credits in courses numbered 100 or above from an approved distribution list and meet specific distribution requirements. In addition, students must earn 30 of the degree credits at Columbia Basin College. Please refer to the degree outline located alphabetically within the catalog and work closely with an advisor from Columbia Basin College and the transfer baccalaureate institution.

## Associate in Science – Transfer Degree (AS-T)

### Minimum 90 credits

For most students majoring in engineering and science, the associate degree, based on the statewide agreement called the Associate in Science – Transfer degree, works best. The Associate in Science Transfer degree (AS-T) is not a Direct Transfer Agreement and therefore does NOT guarantee that the student has met the general education requirements at the receiving institution. Provided proper courses are taken, the degree holder should be ready to enter his or her program with junior standing at the transfer institution.

There are two tracks to this degree. One track is for students majoring in biological sciences, chemistry, environmental science, geology, or earth science. The second track is designed for students majoring in engineering, computer science, physics, or atmospheric sciences. Both tracks are part of a transfer agreement, which includes priority admission for resident transfer students to any of the state-funded baccalaureate institutions. Students are advised to work closely with an advisor from Columbia Basin College and the transfer baccalaureate institution.

## Associate in Applied Science Degree - Transfer (AAS-T)

### Minimum credits vary by program

In general, our technical degree programs are not designed for transfer to other colleges or universities. However, several four-year colleges and universities have specific degree programs that accept the Associate in Applied Science-T degree in Office Assistant Technology and the Associate degree in Applied Science-T Criminal Justice/Forensic Science degree. It is expected that the number of AAS-T degree options for career programs will increase in the future. Students seeking to transfer to degree programs other than those specifically designed for the AAS-T are urged to consider the DTA or AS-T in preparation for transfer. Institutions and majors outside the specifically designed degrees listed above (and others added in the future) likely will accept very few of the credits in the AAS degree. English composition, college-level math, and other general education courses will transfer. Please refer to the specific degree outlines located alphabetically within the catalog and work closely with an advisor from Columbia Basin College.

## Associate In Applied Science Degree

The Associate in Applied Science degree is earned by students who complete a prescribed two-year professional/technical program with a cumulative GPA of 2.0 or above. Thirty-three percent of required degree credits must be earned at Columbia Basin College. The Associate in Applied Science degree is not designed for transfer, although some classes may be accepted for transfer by baccalaureate degree institutions.

## Certificates/Programs

The Certificate Program is designed to provide recognition for students who do not plan to complete an Associate in Applied Science degree program but are interested in training and instruction in specialized areas.

### Certificate of General Studies

#### Minimum 90 credits

The Certificate of General Studies is earned by students who have successfully completed 90 or more quarter credits in courses numbered 100 or above with a minimum of 2.0 grade point average and do not qualify for a degree. A minimum of 30 credits must be earned at Columbia Basin College. Substitutions of program and graduation requirements must be recommended by departmental faculty and the divisional dean and be approved by the Admissions/Graduation Committee.

### Short-term Certificates

#### Minimum credits vary by program

Short-term certificates recognize students' mastery of information and skills important to employment and career advancement.

Students who have earned short-term certificates do not participate in the commencement ceremony.



## Specialized Transfer Assistance

### Cougar Connection at Columbia Basin College

The Cougar Connection Office (CCO) is a one-stop location for CBC students and staff seeking information about transferring to Washington State University Tri-Cities through the BRIDGES program.

BRIDGES is a coordinated bachelor's degree program partnership between CBC and WSU Tri-Cities offering students a continuous pathway to one of 17 bachelor degree programs. An important component of this program is the integrated advising that occurs between CBC students, counselors, and WSU Tri-Cities academic advisors utilizing Plans of Study to keep students on track toward a bachelor's degree.

On the CBC campus, CCO staff share transfer information via office visits, campus information tables, "Future Cougs" FYI modules, collaborative workshops, and in participation in SOAR and the Hawk-Cougar Day events.

To contact the Cougar Connection Coordinator, Christina Davis, call 372-7247 or email [cmdavis@tricity.wsu.edu](mailto:cmdavis@tricity.wsu.edu)

### Heritage University at Columbia Basin College

Heritage University offers rigorous, relevant, and responsive academic programs in the Tri-Cities through a convenient evening and weekend model. With a strong liberal arts environment that stresses academic excellence, cross-cultural learning, and the development of the whole person, Heritage University provides professional and career-oriented programs to prepare students for life and work.

For more information:

Paul B. Dowdy, Regional Director

(509) 546-1438 or [dowdy\\_p@heritage.edu](mailto:dowdy_p@heritage.edu)

CBC Office: Student Services Center in the HUB, Pasco campus

Main Office: 719 Jadwin Ave., Richland

### Undergraduate Degrees

Bachelor of Arts in Education

Elementary Education (K-8)

ESL Endorsement

Bilingual Endorsement

Bachelor of Social Work

### Graduate Degrees

Master of Education

Professional Studies in Teaching & Learning

Professional Studies with Professional Certification

Educational Administration

Counseling (School or Mental Health in the Community)

Master in Teaching (K-8)

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# **Degree/Certificate Requirements**



## ASSOCIATE IN ARTS & SCIENCE (AA) DEGREE REQUIREMENTS

### A. COMMUNICATIONS (13 credits)

(10 credits in English plus a minimum of 3 credits in Communication Studies)

ENGL& 101; ENGL& 102 or ENGL& 235; or CMST& 210, 220, or CMST 101, 110, or 260;

### MATH PROFICIENCY

Intermediate Algebra Proficiency requirement:

Must do one of the following:

Pass Intermediate Algebra (MATH 095 or MATH 098) with a 2.0 or higher.

Pass a math class that has an Intermediate Algebra prerequisite.

Place into any MATH course 113 or above via Placement Test.

### B. QUANTITATIVE/SYMBOLIC REASONING (5 credits)

Choose one class from the Quantitative Reasoning or Symbolic Reasoning courses.

#### Quantitative Reasoning:

MATH& 107 or any MATH course 122 or higher or

#### Symbolic Reasoning:

CS& 131, CS 102, 162, 202 or PHIL 121;

### C. HUMANITIES (15 credits)

Complete at least one course from any two of the following groups.

Courses must be selected from three different subject areas.

#### Group 1

ART& 100, ART 116, 117, 118, 119, 120, 121; MUSC& 105, MUSC 116;

#### Group 2

CMST 221, 246; DRMA& 101, DRMA 215; ENGL& 111, 220, 236, 237, 244, 245, 246, 254, 255, 256, ENGL 140, 160, 180, 195, 203, 257, 264, 265, 266, 280;

#### Group 3

CC 201, 202, 203; ENGL 210; HIST& 126, 127, 128, 219; ICS 120, 130, 222; PHIL& 101, 106, PHIL 131, 150; WS 155, 160;

#### Group 4

World Languages: ARAB 121, 122, 123; CHIN& 121, 122, 123, 221, 222, 223, FRCH 260, 261, 262; GERM& 121, 122, 123, 221, 222, 223 GERM 260, 261, 262; HEB 121, 122, 123; JAPN& 121, 122, 123, 221, 222, 223; RUSS& 121, 122, 123; SPAN& 121, 122, 123, 221, 222, 223, SPAN 104, 110, 111, 112, 205, 206, 207, 260, 261, 262; all World Languages courses count as a single subject area. EFL 101, 111;

### D. SOCIAL & BEHAVIORAL SCIENCE (15 credits)

Complete at least one course from each one of the following two groups.

Courses must be selected from three different subject areas.

#### Group 1

PSYC& 100, 200, 220, PSYC 103, 201, 205; SOC& 101, 201, SOC 150, 269;

#### Group 2

ANTH& 100, 204, 206, 234; ECON& 201, 202, ECON 110, 291; GEO 150; HIST& 136, 137, 220, HIST 107, 108, 110, 111, 112, 113, 115, 116, 117, 233; ICS 255; POLS& 201, 202, 203, 204, POLS 104, 205; SSCI 290/2901;

### E. MATHEMATICAL & NATURAL SCIENCE (15 credits)

At least 10 credits need to be from science courses. Courses must be selected from two different subject areas. One course must be a laboratory science. A single math course cannot count for both a mathematical and natural science course and a quantitative skill course.

ANTH& 205; ASTR& 101/ 101L; BIOL& 100/ 100L, 160/ 160L, 175/ 175L, 211/ 211L, 212/ 212L, 213/ 213L, 241/ 241L, 242/ 242L, 260/ 260L; BIOL 120, 140/ 140L, 148/ 148L, 186/ 186L, 201/ 201L, 240/ 240L, 250/ 250L, 252/ 252L, 253/ 253L, 254/ 254L; CHEM& 110/ 110L, 121/ 121L, 122/ 122L, 123/ 123L, 131/ 131L, 140/ 140L, 161/ 161L, 162/ 162L, 163/ 163L, 241/ 251, 242/ 252, 243/ 253, CHEM 254/ 264, 255/ 265, 2861-2869, 2901-2909; ENVS& 101/ 101L, ENVS 174; GEOL& 101/ 101L, 103/ 103L, 110/ 110L, GEOL 102/ 102L; GEO 101, 120/ 120L; MATH& 107, 141, 142, 144, 146, 148, 151, 152, 153, 254, MATH 113, 121, 122, 123, 147, 243, 246, 255; NUTR& 101; PHYS& 100/ 101, 121/ 131, 122/ 132, 123/ 133, 221/ 231, 222/ 232, 223/ 233; SCI 110/ 110L;

### F. HEALTH & PHYSICAL EDUCATION (3 credits)

Health lecture or PE activity courses

HE 110, 160, 161, 161L, 170, 171/ 171L, 210, 215/ 215L, 220, 230, 232, 240, 250; or PE 110L, 111L, 112L, 113L, 114L, 115L, 116L, 117L, 118L, 119L, 120L, 121L, 122L, 127L, 128L, 129L, 132L, 133L, 135L, 140L, 141L, 142L, 145L, 146L, 147L, 148L, 149L, 150L, 160L, 161L, 162L, 163L, 164L, 165L, 180/ 180L, 181L, 187L, 188L, 189L, 190L, 201L

### G. ELECTIVES (24 credits)

Courses must be numbered 100 and above. A maximum of 15 credits from restricted electives may be applied. Please consult with your advisor or counselor.

Note:

\*Required minimum credits 90.

\*Required cumulative GPA 2.0.

\*A minimum of 30 credits CBC courses.

\*Depending on your major, some course choices may be more appropriate than others.

\*Consult with your counselor or faculty advisor.

\*Maximum 6 credits of PE activity may be applied.

\*3 credits in Health and PE and 3 credits included in restricted electives.

## 2008-2009 ASSOCIATE IN SCIENCE TRANSFER DEGREE

### Biological Sciences/Chemistry/Environmental or Resources Sciences/Geology & Earth Sciences

#### A. Communications (5 credits)

ENGL& 101, 102;

#### B. Math (10 credits)

(Two courses at or above Calculus)

MATH& 151, 152, 153, 254, MATH 243, 255;

#### C. Humanities & Social/Behavioral Science (15 credits)

Complete at least one course from each of the following groups.

Courses must be selected from three different subjects.

1. ART& 100, ART 116, 117, 118, 119, 120, 121; CC 201, 202, 203; CMST 221, 246; DRMA& 101, DRMA 215; ENGL& 111, 220, 236, 237, 244, 245, 246, 254, 255, 256, ENGL 140, 160, 180, 195, 203, 210, 257, 264, 265, 266, 280; HIST& 126, 127, 128, 219; ICS 120, 130, 222; MUSC& 105, MUSC 116; PHIL& 101, 106, PHIL 131, 150; WS 155, 160; World Languages 121 & above, (excluding conversational classes) all World Languages courses count as a single subject area. EFL 101, 111  
2. ANTH& 100, 204, 206, 234; ECON& 201, 202, ECON 110, 291; GEO 150; HIST& 136, 137, 220, HIST 107, 108, 110, 111, 112, 113, 115, 116, 117, 233; ICS 255; POLS& 201, 202, 203, 204, POLS 104, 205; PSYC& 100, 200, 220, PSYC 103, 201, 205; SOC& 101, 201, SOC 150, 269; SSCI 290/2901

#### D. Pre Major (45-50 credits)

1. CHEM& 161/ 161L, 162/ 162L, 163/ 163L

2. MATH& 146 or MATH& 153

3. BIOL& 211/ 211L, 212/ 212L, 213/ 213L or PHYS& 121/ 131, 122/ 132, 123/ 133 or PHYS& 221/ 231, 222/ 232, 223/ 233

4. Additional requirements: 10-15 quarter credits in Physics, Geology, Organic Chemistry, Biology, or Mathematics, consisting of courses normally taken for Science majors (not for general education), preferably in a 2-3 quarter sequence.

#### E. Program Specific Under Advisement (10-15 credits)

Sufficient additional college-level credits so that total credits earned are at least 90 quarter credits.

These remaining credits may include prerequisites for major courses (e.g., pre-calculus), additional major coursework, or specific general education or other university requirements, as approved by the advisor.

\*\*Some baccalaureate programs require Physics with Calculus.

\*\*\*A single course cannot count in two areas.

Select courses based on the requirements or the specific discipline at the baccalaureate institution you plan to attend.

Note: \*Required minimum credits 90.

\*Required cumulative GPA 2.0 or higher.

\*A minimum of 30 credits CBC courses.

\*Depending on your major, some course choices may be more appropriate than others.

\*Consult with your counselor or faculty advisor.

The Associate of Science Degree does NOT guarantee that a student has met the general education requirements at the transfer baccalaureate institution.



## 2008-2009 ASSOCIATE IN SCIENCE TRANSFER DEGREE

### Engineering/Computer Science/ Physics/Atmospheric Sciences

#### A. Communications (5 credits)

ENGL& 101, 102

#### B. Math (10 credits)

(Two courses at or above Calculus)

MATH& 151, 152, 153, 254, MATH 243, 255;

#### C. Humanities & Social/Behavioral Science (15 credits)

Complete at least one course from each of the following groups.

Courses must be selected from three different subjects.

1. ART& 100, ART 116, 117, 118, 119, 120, 121; CC 201, 202, 203; CMST 221, 246; DRMA& 101, DRMA 215; ENGL& 111, 220, 236, 237, 244, 245, 246, 254, 255, 256, ENGL 140, 160, 180, 195, 203, 210, 257, 264, 265, 266, 280; HIST& 126, 127, 128, 219; ICS 120, 130, 222; MUSC& 105, MUSC 116; PHIL& 101, 106, PHIL 131, 150; WS 155, 160; World Languages 121 & above, (excluding conversational classes) all World Languages courses count as a single subject area. EFL 101, 111  
2. ANTH& 100, 204, 206, 234; ECON& 201, 202, ECON 110, 291; GEO 150; HIST& 136, 137, 220, HIST 107, 108, 110, 111, 112, 113, 115, 116, 117, 233; ICS 255; POLS& 201, 202, 203, 204, POLS 104, 205; PSYC& 100, 200, 220, PSYC 103, 201, 205; SOC& 101, 201, SOC 150, 269; SSCI 290/2901

#### D. Pre Major (30 credits)

##### 1. Science (5 credits)

Any Science based on program requirements or

CHEM& 161 and CHEM& 161L - Engineering majors

##### 2. Math (5 credits)

MATH& 146 or MATH& 153

##### 3. Computer Programming Language (5 credits)

As advised for specific discipline/institution.

##### 4. Physics 15 (credits) Choose one of the following sequences:

PHYS& 121/ 131, 122/ 132, 123/ 133 or

PHYS& 221/ 231, 222/ 232, 223/ 233

#### E. Program Specific Under Advisement (30 credits)

The remaining 30 quarter credits should be planned with the help of an advisor based on the requirements of the specific discipline at the baccalaureate institution the student selects to attend. For Engineering disciplines, these credits should include a design component consistent with ABET accreditation standards.

*\*\*Some baccalaureate programs require Physics with Calculus.*

*\*\*\*A single course cannot count in two areas.*

*Sequences of courses should be completed at one institution.*

*Select courses based on the requirements or the specific discipline at the baccalaureate institution you plan to attend.*

*Note: \*Required minimum credits 90.*

*\*Required cumulative GPA 2.0 or higher.*

*\*A minimum of 30 credits CBC courses.*

*\*Depending on your major, some course choices may be more appropriate than others.*

*\*Consult with your counselor or faculty advisor.*

*The Associate of Science Degree does NOT guarantee that a student has met the general education requirements at the transfer baccalaureate institution.*

## 2008-2009 GENERAL STUDIES CERTIFICATE

#### A. Communications (8 credits)

ENGL& 101, (Required 5 credits)

Choose 3 additional credits from the following:

ENGL& 102 or ENGL& 235;

CMST& 210, 220, CMST 101, 110, 260;

#### B. Humanities (10 credits)

Complete at least 10 credits from any of the following courses.

ARAB 121, 122, 123; ART& 100, ART 116, 117, 118, 119, 120, 121; CC 201, 202, 203; CHIN& 121, 122, 123; CMST 221, 246; DRMA& 101, DRMA 215; EFL 101, 111; ENGL& 111, 220, 236, 237, 244, 245, 246, 254, 255, 256, ENGL 140, 160, 180, 195, 203, 210, 257, 264, 265, 266, 280; FRCH& 121, 122, 123, 221, 222, 223, FRCH 260, 261, 262; GERM& 121, 122, 123, 221, 222, 223 GERM 260, 261, 262; HEB 121, 122, 123; HIST& 126, 127, 128, 219; ICS 120, 130, 222; JAPN& 121, 122, 123, 221, 222, 223; MUSC& 105, MUSC 116; PHIL& 101, 106, PHIL 131, 150; RUSS& 121, 122, 123; SPAN& 121, 122, 123, 221, 222, 223, SPAN 104, 110, 111, 112, 205, 206, 207, 260, 261, 262; WS 155, 160;

#### C. Social & Behavioral Science (10 credits)

Complete at least 10 credits from any of the following courses.

ANTH& 100, 204, 206, 234; ECON& 201, 202, ECON 110, 291; GEO 150; HIST& 136, 137, 220, HIST 107, 108, 110, 111, 112, 113, 115, 116, 117, 233; ICS 255; POLS& 201, 202, 203, 204, POLS 104, 205; PSYC& 100, 200, 220, PSYC 103, 201, 205; SOC& 101, 201, SOC 150, 269; SSCI 290/2901

#### D. Mathematical & Natural Science (10 credits)

Complete at least 10 credits from any of the following courses.

ANTH& 205; ASTR& 101/101L; BIOL& 100/100L, 160/160L, 175/175L, 211/211L, 212/212L, 213/213L, 241/241L, 242/242L, 260/260L; BIOL 120, 140/140L, 148/148L, 186/186L, 201/201L, 240/240L, 250/250L, 252/252L, 253/253L, 254/254L; CHEM& 110/ 110L, 121/ 121L, 122/ 122L, 123/ 123L, 131/ 131L, 140/ 140L, 161/ 161L, 162/ 162L, 163/ 163L, 241/251, 242/252, 243/253, CHEM 254/264, 255/265, 2861-2869, 2901-2909; ENVS& 101/101L, ENVS 174; GEOL& 101/101L, 103/103L, 110/110L, GEOL 102/102L; GEO 101, 120/120L; MATH& 107, 141, 142, 146, 144, 148, 151, 152, 153, 254, MATH 113 121, 122, 123, 147, 243, 246, 255; NUTR& 101; PHYS& 100/101, 121/131, 122/132, 123/133, 221/231, 222/232, 223/233; SCI 110/110L;

#### G. Electives (50-52 credits)

Courses must be numbered 100 and above. Please consult with your advisor or counselor.

*Note:*

*\*Required minimum credits 90.*

*\*Required cumulative GPA 2.0 or higher.*

*\*A minimum of 30 credits CBC courses.*



# Program Offerings



## Accounting Common Course

<http://www.columbiabasin.edu/accounting>

**Department Overview:** Columbia Basin College offers transfer accounting courses, a two-year occupational degree, and a one-year occupational certificate in accounting. The Accounting Associate program is designed to provide students with knowledge in accounting, business, computers, and general education to become employed in entry-level accounting positions. The main goal of the program is to provide students with both the theory of accounting and practical experience to perform computerized accounting functions.

At the end of the program, successful students will be able to:

- apply fundamental accounting process to properly record ordinary business transactions;
- use practical skills and knowledge to understand and prepare basic accounting and business reports for internal and external users;
- apply accounting and/or business concepts in a variety of business situations and business structures including corporations, partnerships, and small businesses;
- apply information tools and resources within business organizations;
- develop an understanding of the regulatory environment of business;
- demonstrate proficiency in communication skills necessary in a business environment.

## Associate in Applied Science in Accounting

PROFESSIONAL TECHNICAL

### Major Courses

Course No.	Course Title	Credits
ACCT& . 201 . . . . .	Principles of Accounting I . . . . .	5
ACCT& . 202 . . . . .	Principles of Accounting II . . . . .	5
ACCT& . 203 . . . . .	Principles of Accounting III . . . . .	5

### Select 4 courses from the following options:

BUS . . 105 . . . . .	Business and Payroll Tax Accounting . . . . .	5
BUS . . 107 . . . . .	Federal Income Taxes . . . . .	5
BUS . . 111 . . . . .	Computerized Accounting . . . . .	5
BUS . . 250 . . . . .	Management Information Systems . . . . .	5
BUS . . 264 . . . . .	Fraud and Accounting Information Systems . . . . .	5
<b>Subtotal. . . . .</b>		<b>35</b>

### Major Support (a minimum of 35 credits are required)

Course No.	Course Title	Credits
AOT . . 124 . . . . .	Intermediate Spreadsheet Applications . . . . .	5
BUS& . 101 . . . . .	Intro to Business . . . . .	5
BUS . . 120 . . . . .	Personal Finance . . . . .	5
BUS . . 130 . . . . .	Project Management . . . . .	5
BUS . . 165 . . . . .	Investments . . . . .	5
BUS . . 220 . . . . .	Advanced Personal Finance . . . . .	5
BUS& . 201 . . . . .	Business Law . . . . .	5
POLS& . 200 . . . . .	Introduction to Law . . . . .	5
BUS . . 2952 . . . . .	Supervised Employment . . . . .	1-5
CA . . 100 . . . . .	Introduction to Microcomputers . . . . .	4
CS . . 101 . . . . .	Introduction to Computers and Information Technology . . . . .	5
CS . . 106 . . . . .	Database Systems . . . . .	5
ECON& . 202 . . . . .	Macro Economics . . . . .	5
ECON& . 201 . . . . .	Micro Economics . . . . .	5
MATH& . 146 . . . . .	Introduction to Stats . . . . .	5
MATH . . 147 . . . . .	Finite Math . . . . .	5
MATH& . 148 . . . . .	Business Calculus . . . . .	5
AOT . . . . .	Keyboarding . . . . .	2-4
<b>Subtotal. . . . .</b>		<b>35</b>

### General Education

Course No.	Course Title	Credits
ENGL& . 101 . . . . .	English Composition I . . . . .	5
ENGL& . 235 . . . . .	Technical Writing . . . . .	5
MATH . 106+ . . . . .	MATH 106 or above . . . . .	5

### Psychology or Sociology (select 5 credits)

PSYC& . 100 . . . . .	General Psychology or . . . . .	5
PSYC . . 201 . . . . .	Social Psychology or . . . . .	5
SOC& . . 101 . . . . .	Intro to Sociology . . . . .	5

### Speech (select 3 credits)

CMST . . 101 . . . . .	Speech Essentials or . . . . .	3
CMST . . 110 . . . . .	Communication Behavior . . . . .	3

**Subtotal. . . . . 23**

**Total Credits Required. . . . . 93**



## Accounting

PROFESSIONAL TECHNICAL  
ONE-YEAR CERTIFICATE

### Major Courses

Course No.	Course Title	Credits
ACCT& . . . 201 . . . . .	Principles of Accounting I . . . . .	5
ACCT& . . . 202 . . . . .	Principles of Accounting II. . . . .	5
Select 2 courses from the following options:		
BUS . . . 105 . . . . .	Business and Payroll Tax Accounting. . . . .	5
BUS . . . 111 . . . . .	Computerized Accounting. . . . .	5
BUS . . . 250 . . . . .	Management Information Systems . . . . .	5
<b>Subtotal. . . . .</b>		<b>20</b>

### Major Support (a minimum of 15 credits are required)

Course No.	Course Title	Credits
AOT. . . . 124. . . . .	Intermediate Spreadsheet Applications. . . . .	5
BUS& . . . 101. . . . .	Intro to Business . . . . .	5
BUS . . . 107. . . . .	Federal Income Taxes . . . . .	5
BUS . . . 120. . . . .	Personal Finance . . . . .	5
BUS . . . 130. . . . .	Project Management . . . . .	5
BUS . . . 220. . . . .	Advanced Personal Finance . . . . .	5
ACCT& . . . 203. . . . .	Principles of Accounting III . . . . .	5
BUS& . . . 201. . . . .	Business Law . . . . .	5
POLS& . . . 200. . . . .	Introduction to Law . . . . .	5
BUS . . . 264. . . . .	Fraud and Accounting Information Systems . . . . .	5
BUS . . . 2952. . . . .	Supervised Employment . . . . .	1-5
AOT. . . . .	Keyboarding . . . . .	2-4
CA . . . . 100. . . . .	Introduction to Microcomputers . . . . .	4
CS . . . . 101. . . . .	Introduction to Computers and Information Technology . . . . .	5
CS . . . . 106. . . . .	Database Systems . . . . .	5
ECON& . . . 202. . . . .	Macro Economics . . . . .	5
ECON& . . . 201. . . . .	Micro Economics . . . . .	5
MATH& . . . 146. . . . .	Introduction to Stats . . . . .	5
MATH . . . 147. . . . .	Finite Math . . . . .	5
MATH& . . . 148. . . . .	Business Calculus. . . . .	5
<b>Subtotal. . . . .</b>		<b>15</b>

### General Education

Course No.	Course Title	Credits
ENGL& . . . 101. . . . .	English Composition I . . . . .	5
MATH . . . 106+ . . . . .	MATH 106 <b>or</b> above . . . . .	5

### Psychology or Sociology (select 5 credits)

PSYC& . . . 100. . . . .	General Psychology <b>or</b> . . . . .	5
PSYC . . . 201. . . . .	Social Psychology <b>or</b> . . . . .	5
SOC& . . . 101. . . . .	Intro to Sociology. . . . .	5

### Speech (select 3 credits)

CMST. . . 101. . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST. . . 110. . . . .	Communication Behavior . . . . .	3

**Subtotal. . . . . 18**

**Total Credits Required. . . . . 53**



## Administrative Office Technology

<http://www.columbiabasin.edu/AOT>

**Department Overview:** The Administrative Office Technology Department (located in the W building) builds strong business partnerships with area employers to promote student preparedness for the diverse and dynamic responsibilities of new economy office professionals. The partnerships include job shadowing, supervised employment, an advisory committee comprised of members from office-related fields, and individual periodic consultations and meetings focusing on curriculum relevancy to employment trends and student accountability and success.

The department's mission of educating students seeking to prepare for future employment through either completing certificates or degrees or by immediately updating skills is verified by the success of its students and graduates. A sampling of positions held by recent Administrative Office Technology students and graduates includes: marketing assistant, medical office manager, insurance biller, software trainer, program analyst, receptionist, instructional aide, administrative assistant or program assistant with governmental agency, accounting office receptionist, health unit coordinator, and secretary senior. Acquiring technical and interpersonal skills needed to function as an office professional may merit enrollment in Columbia Basin College's Administrative Office Technology courses.

Prospective students should attend the First Year Introduction seminar offered by AOT to discuss program entry, individual placement, sequence, scheduling, and program planning. (To locate AOT, consult the maps provided elsewhere in the catalog.) This progressive department offers:

- individualized advising;
- distance learning;
- course challenge opportunities;
- short-term courses and certificates;
- work-based learning;
- Tech Prep articulation;
- current software availability;
- advanced placement in keyboarding and word processing;
- vocationally and software certified faculty;
- software certification preparation.

All Administrative Office Technology (AOT) students are afforded the opportunity to integrate classroom learning with a work-based learning experience through involvement in Supervised Employment (AOT 1952) at a supervised work site in a program-specific discipline. Some disciplines require criminal history background checks that must be satisfactorily met.

The Associate in Applied Science degree and several Administrative Office Technology certificates are offered for students whose goals are immediate employment. Additionally, students may enroll in classes without working toward a certificate or degree. Lastly, the department offers an Associate in Applied Science-Transfer degree for transferring to selected state institutions. The AOT degrees and certificates are different from the Associate degree in Arts and Science, which is described elsewhere in the catalog.

### Graduate Competencies

Graduates of the program have been afforded opportunities to:

- demonstrate an ability to use appropriate software;
- explore and self-assess career-development techniques;
- perform duties related to specialty content in a supervised employment capacity;
- assess and apply appropriate societal and work ethics in the global environment;
- develop critical-thinking and problem-solving abilities.

### Other Information: Degree Programs

#### Associate in Applied Science Degrees:

- Administrative Assistant

- Transfer

#### Certificate Programs (require a minimum of 45 credits):

- Agricultural Business Office (offered in conjunction with CBC's Agriculture department)
- Bookkeeping Clerk
- Health Unit Coordinator
- Legal Office Clerk
- Medical Office Receptionist
- Medical Billing Clerk
- Receptionist

#### Proficiency and Short-term Certificates (2-quarter programs):

- Health Unit Coordinator Proficiency
- Office Aide Proficiency
- Office Software Proficiency

#### All programs require students to:

- Complete ASSET test
- Earn a minimum grade of 2.0 in all required Administrative Office Technology courses



## Associate in Applied Science in Administrative Assistant

### PROFESSIONAL TECHNICAL

The following assumes the student enters the program college-ready and has completed AOT 101/AOT 102/AOT 109 or ability to test out/challenge. Eligibility for MATH 106 and ENGL& 101.

Recommended: students purchase a USB storage drive.

#### Major Courses

Course No.	Course Title	Credits
CA . . . 100 . . . . .	Introduction to Microcomputers . . . . .	4
AOT . . . 114 . . . . .	Editing . . . . .	5
AOT . . . 117 . . . . .	Office Orientation . . . . .	3
AOT . . . 124 . . . . .	Intermediate Spreadsheet Applications . . . . .	5
AOT . . . 142 . . . . .	General Office Procedures . . . . .	5
AOT . . . 172 . . . . .	Word Processing I . . . . .	5
AOT . . . 270 . . . . .	Business Correspondence . . . . .	5
AOT . . . 290 . . . . .	Professional Development . . . . .	3
<b>Subtotal.</b>		<b>35</b>

#### Support Courses

Available Emphases: General, Legal, Billing and Posting, and Human Resources.

Choose one Available Emphasis from below:

#### General:

Course No.	Course Title	Credits
AOT . . . 125 . . . . .	Database Applications . . . . .	5
AOT . . . 126 . . . . .	Presentation Applications . . . . .	3
AOT . . . 128 . . . . .	Web Page Maintenance . . . . .	5
AOT . . . 129 . . . . .	Accounting Software . . . . .	3
AOT . . . 130 . . . . .	Practical Accounting . . . . .	5
AOT . . . 132 . . . . .	Payroll for the Office Professional . . . . .	4
AOT . . . 1952* . . . . .	Supervised Employment . . . . .	3
AOT . . . 243 . . . . .	Administrative Office Management . . . . .	2
AOT . . . 272 . . . . .	Word Processing II . . . . .	4
AOT . . . 276 . . . . .	Integrated Word Processing . . . . .	5
<b>Subtotal.</b>		<b>39</b>

**General Major and Support Subtotal.** . . . . 74

\* AOT 1952-Supervised Employment site must meet intended emphasis requirement.

AOT 109 is a prescribed course to facilitate keyboarding and 10-key speeds. Degree completion requires keyboarding speed of 60 wpm and 10-key speed of 100 cpm. To achieve these speeds, AOT 109 may be taken three times for credit.

#### Legal:

Course No.	Course Title	Credits
AOT . . . 129 . . . . .	Accounting Software . . . . .	3
AOT . . . 130 . . . . .	Practical Accounting . . . . .	5
AOT . . . 132 . . . . .	Payroll for the Office Professional . . . . .	4
AOT . . . 146 . . . . .	Legal Terminology . . . . .	5
AOT . . . 1952* . . . . .	Supervised Employment . . . . .	3
AOT . . . 244 . . . . .	Legal Administrative Office Procedures . . . . .	5
AOT . . . 272 . . . . .	Word Processing II . . . . .	4
PL . . . 101 . . . . .	Introduction to Paralegalism . . . . .	5
PL . . . 105 . . . . .	Law Office Management . . . . .	3
<b>Subtotal.</b>		<b>37</b>

**Legal Major and Support Subtotal.** . . . . 72

\* AOT 1952-Supervised Employment site must meet intended emphasis requirement.

AOT 109 is a prescribed course to facilitate keyboarding and 10-key speeds. Degree completion requires keyboarding speed of 60 wpm and 10-key speed of 100 cpm. To achieve these speeds, AOT 109 may be taken three times for credit.

#### General Education

Course No.	Course Title	Credits
ENGL& . . 101 . . . . .	English Composition I . . . . .	5
MATH . . . 106+ . . . . .	MATH 106 or above . . . . .	5
PSYC& . . 100 . . . . .	General Psychology . . . . .	5

#### Speech (select 3-5 credits)

CMST. . . 101 . . . . .	Speech Essentials or . . . . .	3
CMST&. . 220 . . . . .	Public Speaking or . . . . .	5
CMST. . . 103 . . . . .	Workplace Communication or . . . . .	3
CMST. . . 110 . . . . .	Communication Behavior or . . . . .	3
CMST&. . 210 . . . . .	Interpersonal Communication or . . . . .	5
CMST. . . 260 . . . . .	Multicultural Communications . . . . .	5

**Subtotal.** . . . . 18-20

**Total General Credits Required.** . . . . 92-94

**Total Legal Credits Required.** . . . . 90-92

## Associate in Applied Science Administrative Assistant

### PROFESSIONAL TECHNICAL

### TRANSFER DEGREE TO CWU

To be eligible for ENGL& 101 or ENGL 103 and the required math, the student may need to complete ENGL 098/ENGL 099 and MATH 095. Certificate entry keyboarding of 25 net wpm in 3' timing required. To achieve this, the student may need to complete AOT 101/AOT 102. Also AOT 114 or COMPASS Reading 82 & Writing 87.

Recommended: students purchase a USB storage drive.

#### Major Courses

Course No.	Course Title	Credits
CA . . . 100 . . . . .	Introduction to Microcomputers . . . . .	4
AOT . . . 102 . . . . .	Keyboarding II . . . . .	2
AOT . . . 1091 . . . . .	Keyboarding/Skillbuilding . . . . .	3
AOT . . . 117 . . . . .	Office Orientation . . . . .	3
AOT . . . 124 . . . . .	Intermediate Spreadsheet Applications . . . . .	5
AOT . . . 125 . . . . .	Database Applications . . . . .	5
AOT . . . 129 . . . . .	Accounting Software . . . . .	3
AOT . . . 142 . . . . .	General Office Procedures . . . . .	5
AOT . . . 172 . . . . .	Word Processing I . . . . .	5
AOT . . . 243 . . . . .	Administrative Office Management . . . . .	2
AOT . . . 270 . . . . .	Business Correspondence . . . . .	5
AOT . . . 272 . . . . .	Word Processing II . . . . .	4
AOT . . . 290 . . . . .	Professional Development . . . . .	3
<b>Subtotal.</b>		<b>49</b>

#### Major Support

Course No.	Course Title	Credits
AOT . . . 126 . . . . .	Presentation Applications . . . . .	3
AOT . . . 128 . . . . .	Web Page Maintenance . . . . .	5
AOT . . . 276 . . . . .	Integrated Word Processing . . . . .	5
AOT . . . 294 . . . . .	Software Teaching Methods . . . . .	5
<b>Subtotal.</b>		<b>18</b>

#### General Education

Course No.	Course Title	Credits
ENGL&. . 101 . . . . .	English Composition I . . . . .	5
MATH . . 121 . . . . .	Structure of Elementary Math or above or . . . . .	5
CS . . . 102 . . . . .	Visual Basic 1 . . . . .	5

#### Economics (select 5 credits)

ECON&. . 202 . . . . .	Macro Economics or . . . . .	5
ECON&. . 201 . . . . .	Micro Economics . . . . .	5

#### English (select 5 credits)

ENGL&. . 102 . . . . .	Composition II or . . . . .	5
ENGL&. . 235 . . . . .	Technical Writing . . . . .	5

#### Speech (select 3-5 credits)

CMST. . . 101 . . . . .	Speech Essentials or . . . . .	3
CMST&. . 220 . . . . .	Public Speaking or . . . . .	5
CMST. . . 103 . . . . .	Workplace Communication or . . . . .	3
CMST. . . 110 . . . . .	Communication Behavior or . . . . .	3
CMST&. . 210 . . . . .	Interpersonal Communication or . . . . .	5
CMST. . . 260 . . . . .	Multicultural Communications . . . . .	5

**Social Sciences or Humanities.** . . . . 10

**Subtotal.** . . . . 33-35

**Total Credits Required.** . . . . 100-102



# Program Offerings

## Medical Billing Clerk

PROFESSIONAL TECHNICAL

### ONE-YEAR CERTIFICATE

The following assumes the student enters the program college-ready and has completed AOT 101/AOT 102/AOT 109 **or** ability to test out/challenge. Eligibility for MATH 106 and ENGL& 101.

Recommended: students purchase a USB storage drive.

#### Major Courses

Course No.	Course Title	Credits
CA . . . 100 . . . . .	Introduction to Microcomputers . . . . .	4
AOT . . . 117 . . . . .	Office Orientation . . . . .	3
AOT . . . 129 . . . . .	Accounting Software . . . . .	3
AOT . . . 130 . . . . .	Practical Accounting . . . . .	5
AOT . . . 172 . . . . .	Word Processing I . . . . .	5
AOT . . . 1952* . . . . .	Supervised Employment . . . . .	3
AOT . . . 290 . . . . .	Professional Development . . . . .	3
HIT . . . 147 . . . . .	Medical Terminology . . . . .	5
HIT . . . 118 . . . . .	Legal Aspects of the Medical Office III . . . . .	3
HIT . . . 153 . . . . .	Medical Reimbursement . . . . .	4
HIT . . . 155 . . . . .	Introduction to Medical Coding . . . . .	4
HIT . . . 156 . . . . .	Intermediate Medical Coding . . . . .	4
<b>Subtotal. . . . .</b>		<b>46</b>

#### General Education

Course No.	Course Title	Credits
ENGL& . . 101 . . . . .	English Composition I . . . . .	5
MATH . . 106+ . . . . .	MATH 106 <b>or</b> above . . . . .	5
PSYC& . . 100 . . . . .	General Psychology . . . . .	5

#### Speech (select 3-5 credits)

CMST. . . 101 . . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST&. . 220 . . . . .	Public Speaking <b>or</b> . . . . .	5
CMST. . . 103 . . . . .	Workplace Communication <b>or</b> . . . . .	3
CMST. . . 110 . . . . .	Communication Behavior <b>or</b> . . . . .	3
CMST&. . 210 . . . . .	Interpersonal Communication <b>or</b> . . . . .	5
CMST. . . 260 . . . . .	Multicultural Communications . . . . .	5
<b>Subtotal. . . . .</b>		<b>18-20</b>

**Total Credits Required. . . . . 64-66**

\*Supervised Employment site must meet intended emphasis requirement.

AOT 109 is a prescribed course to facilitate keyboarding and 10-key speeds. Degree completion requires keyboarding speed of 30 wpm and 10-key speed of 100 cpm. To achieve these speeds, AOT 109 may be taken three times for credit.

## Medical Secretary

PROFESSIONAL TECHNICAL

### ONE-YEAR CERTIFICATE

The following assumes the student enters the program college-ready and has completed AOT 101/AOT 102/AOT 109 **or** ability to test out/challenge. Eligibility for MATH 106 and ENGL& 101.

Recommended: students purchase a USB storage drive.

#### Major Courses

Course No.	Course Title	Credits
CA . . . 100 . . . . .	Introduction to Microcomputers . . . . .	4
AOT . . . 117 . . . . .	Office Orientation . . . . .	3
AOT . . . 172 . . . . .	Word Processing I . . . . .	5
AOT . . . 1952* . . . . .	Supervised Employment . . . . .	6
HIT . . . 147 . . . . .	Medical Terminology . . . . .	5
HIT . . . 118 . . . . .	Legal Aspects of the Medical Office III . . . . .	3
HIT . . . 155 . . . . .	Introduction to Medical Coding . . . . .	4
<b>Subtotal. . . . .</b>		<b>30</b>

#### General Education

Course No.	Course Title	Credits
ENGL&. . 101 . . . . .	English Composition I . . . . .	5
MATH . . 106+ . . . . .	MATH 106 <b>or</b> above . . . . .	5
PSYC& . . 100 . . . . .	General Psychology . . . . .	5

#### Speech (select 3-5 credits)

CMST. . . 101 . . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST&. . 220 . . . . .	Public Speaking <b>or</b> . . . . .	5
CMST. . . 103 . . . . .	Workplace Communication <b>or</b> . . . . .	3
CMST. . . 110 . . . . .	Communication Behavior <b>or</b> . . . . .	3
CMST&. . 210 . . . . .	Interpersonal Communication <b>or</b> . . . . .	5
CMST. . . 260 . . . . .	Multicultural Communications . . . . .	5
<b>Subtotal. . . . .</b>		<b>18-20</b>

**Total Credits Required. . . . . 48-50**

\*Supervised Employment site must meet intended emphasis requirement.

AOT 109 is a prescribed course to facilitate keyboarding and 10-key speeds. Degree completion requires keyboarding speed of 30 wpm and 10-key speed of 100 cpm. To achieve these speeds, AOT109 may be taken three times for credit.

## Medical Secretary

PROFESSIONAL TECHNICAL

### SHORT-TERM CERTIFICATE

The following assumes the student enters the program college-ready and has completed AOT 101/AOT 102/AOT 109 **or** ability to test out/challenge.

Recommended: students purchase a USB storage drive.

#### Major Courses

Course No.	Course Title	Credits
AOT . . . 117 . . . . .	Office Orientation . . . . .	3
AOT . . . 1952* . . . . .	Supervised Employment . . . . .	1
HIT . . . 118 . . . . .	Legal Aspects of the Medical Office III . . . . .	3
HIT . . . 147 . . . . .	Medical Terminology . . . . .	5
HIT . . . 155 . . . . .	Introduction to Medical Coding . . . . .	4
CMST. . . 101 . . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST. . . 103 . . . . .	Workplace Communication . . . . .	3
<b>Subtotal. . . . .</b>		<b>19</b>

**Total Credits Required. . . . . 19**

\*Supervised Employment site must meet intended emphasis requirement.

AOT 109 is a prescribed course to facilitate keyboarding and 10-key speeds. Degree completion requires keyboarding speed of 30 wpm and 10-key speed of 100 cpm. To achieve these speeds, AOT109 may be taken three times for credit.



# Program Offerings

## Office Clerk

PROFESSIONAL TECHNICAL

### ONE-YEAR CERTIFICATE

The following assumes the student enters the program college-ready and has completed AOT 101/AOT 102/AOT 109 **or** ability to test out/challenge. Eligibility for MATH 106 and ENGL& 101.

Recommended: students purchase a USB storage drive.

#### Major Courses

Course No.	Course Title	Credits
CA . . . 100 . . . . .	Introduction to Microcomputers . . . . .	4
AOT . . . 114 . . . . .	Editing . . . . .	5
AOT . . . 117 . . . . .	Office Orientation . . . . .	3
AOT . . . 124 . . . . .	Intermediate Spreadsheet Applications . . . . .	5
AOT . . . 142 . . . . .	General Office Procedures . . . . .	5
AOT . . . 172 . . . . .	Word Processing I . . . . .	5
AOT . . . 1952* . . . . .	Supervised Employment . . . . .	3
AOT . . . 270 . . . . .	Business Correspondence . . . . .	5
AOT . . . 290 . . . . .	Professional Development . . . . .	3
<b>Subtotal. . . . .</b>		<b>38</b>

#### Support Courses

Available Emphases: General, Legal, or Billing and Posting.

Choose one Available Emphasis from below:

#### General:

Course No.	Course Title	Credits
AOT . . . 125 . . . . .	Database Applications . . . . .	5
AOT . . . 272 . . . . .	Word Processing II . . . . .	4
<b>Subtotal. . . . .</b>		<b>9</b>

\*AOT 1952-Supervised Employment site must meet intended emphasis requirement.

AOT 109 is a prescribed course to facilitate keyboarding and 10-key speeds. Degree completion requires keyboarding speed of 50 wpm and 10-key speed of 100 cpm. To achieve these speeds, AOT109 may be taken three times for credit.

#### Legal:

Course No.	Course Title	Credits
AOT . . . 146 . . . . .	Legal Terminology . . . . .	5
AOT . . . 244 . . . . .	Legal Administrative Office Procedures . . . . .	5
<b>Subtotal. . . . .</b>		<b>10</b>

\*AOT 1952-Supervised Employment site must meet intended emphasis requirement.

AOT 109 is a prescribed course to facilitate keyboarding and 10-key speeds. Degree completion requires keyboarding speed of 50 wpm and 10-key speed of 100 cpm. To achieve these speeds, AOT109 may be taken three times for credit.

#### Billing and Posting:

Course No.	Course Title	Credits
AOT . . . 129 . . . . .	Accounting Software . . . . .	3
AOT . . . 130 . . . . .	Practical Accounting . . . . .	5
AOT . . . 132 . . . . .	Payroll for the Office Professional . . . . .	4
<b>Subtotal. . . . .</b>		<b>12</b>

\*AOT 1952-Supervised Employment site must meet intended emphasis requirement.

AOT 109 is a prescribed course to facilitate keyboarding and 10-key speeds. Degree completion requires keyboarding speed of 35 wpm and 10-key speed of 175 cpm. To achieve these speeds, AOT109 may be taken three times for credit.

#### General Education

Course No.	Course Title	Credits
ENGL& . . 101 . . . . .	English Composition I . . . . .	5
MATH . . 106+ . . . . .	MATH 106 <b>or</b> above . . . . .	5
PSYC& . . 100 . . . . .	General Psychology . . . . .	5

#### Speech (select 3-5 credits)

CMST . . 101 . . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST& . . 220 . . . . .	Public Speaking <b>or</b> . . . . .	5
CMST . . 103 . . . . .	Workplace Communication <b>or</b> . . . . .	3
CMST . . 110 . . . . .	Communication Behavior <b>or</b> . . . . .	3
CMST& . . 210 . . . . .	Interpersonal Communication <b>or</b> . . . . .	5
CMST . . 260 . . . . .	Multicultural Communications . . . . .	5

**Subtotal. . . . . 18-20**

**Total General Credits Required. . . . . 65-67**

**Total Legal Credits Required. . . . . 66-68**

**Total Billing and Posting Credits Required. . . . . 68-70**

## Receptionist

PROFESSIONAL TECHNICAL

### SHORT-TERM CERTIFICATE

AOT Prerequisites: AOT 101/AOT 102/AOT 109 or Challenge/AP (Advanced Placement).

Recommended: students purchase a USB storage drive.

#### Major Courses

Course No.	Course Title	Credits
CA . . . 100 . . . . .	Introduction to Microcomputers . . . . .	4
AOT . . . 117 . . . . .	Office Orientation . . . . .	3
AOT . . . 142 . . . . .	General Office Procedures . . . . .	5
AOT . . . 172 . . . . .	Word Processing I . . . . .	5
AOT . . . 1952* . . . . .	Supervised Employment . . . . .	2
<b>Subtotal. . . . .</b>		<b>19</b>

**Total Credits Required. . . . . 19**

\*AOT 1952-Supervised Employment site must meet intended emphasis requirement.

AOT 109 is a prescribed course to facilitate keyboarding and 10-key speeds. Degree completion requires keyboarding speed of 30 wpm and 10-key speed of 100 cpm. To achieve these speeds, AOT109 may be taken three times for credit.

## Retail Operations

### Short-Term Certificate

PROFESSIONAL TECHNICAL

#### Major Courses

Course No.	Course Title	Credits
RO . . . 100 . . . . .	Introduction to Retail . . . . .	10
<b>Subtotal. . . . .</b>		<b>10</b>

**Total Credits Required. . . . . 10**



## ✦ Adult Basic Education/General Education Development (GED)

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<http://www.columbiabasin.edu/ABE>

**Department Overview:** Adult Basic Education consists of two main areas of focus: ABE and GED preparation. These classes serve the adult community and are available at the Learning Opportunities Center (LOC), on the Pasco campus and at the Kennewick WorkSource. Professional staff members provide individualized instruction as well as small group instruction.

Adult Basic Education classes in reading, writing, and math serve the needs of the adult student, 18 years or older, who lacks these basic skills. Each person is tested and diagnosed for reading, writing, and math levels and is provided with appropriate materials for instruction.

The second option available under Adult Basic Education is the GED preparation program. Completion of this program prepares the student for the General Education Development (GED) test. Again, each person is tested and diagnosed for reading, writing and math levels. Instruction may be individualized or in a classroom.

The Adult Basic Education program also offers a family literacy program which works with parents to improve their literacy and basic skills so that they are better prepared to support their children's success. These courses are conducted in collaboration with the local school district and other agencies and usually integrate parenting, early childhood education, and home visits into the ABE/GED prep instruction. Many of these courses are supported through Federal Even Start funds and are limited to parents with children up to seven years old. Registration into these courses is based on the family's qualification through a school district or partner agency.



## ✦ Agriculture

<http://www.columbiabasin.edu/agriculture>

**Department Overview:** Agriculture is the science of the food and fiber industry. Courses are designed to provide the student with a deeper understanding of the foundational science of modern agriculture. Students will develop their ability to think critically and communicate through both spoken and written media. See also Horticulture, Agricultural Food Systems, and Animal Science for courses required to earn an Associates of Arts and Science with an Emphasis in Agri-Business.

## Associate in Arts & Science with an Emphasis in Agri-Business

TRANSFER DEGREE

Option C

### A. Communication (15 credits)

Course No.	Course Title	Credits
ENGL& . 101 . . . . .	English Composition I . . . . .	5
ENGL& . 102 . . . . .	Composition II . . . . .	5
CMST& . 220 . . . . .	Public Speaking. . . . .	5

### Math Proficiency . . . . . X

### B. Quantitative/Symbolic Reasoning (5 credits)

Course No.	Course Title	Credits
MATH& . 146 . . . . .	Introduction to Stats . . . . .	5

### C. Humanities (15 credits)

Course No.	Course Title	Credits
ICS . . . 120 . . . . .	Survey of Hispanic Culture . . . . .	5
SPAN . . 110 . . . . .	Beginning Spanish for Professionals <b>or</b> . . . . .	5
CHIN& . 121 . . . . .	Chinese I. . . . .	5
CMST. . . 221 . . . . .	Communication Skills for Conflict Resolution. . . . .	5

### D. Social & Behavioral Science (15 credits)

Course No.	Course Title	Credits
PSYC& . 100 . . . . .	General Psychology . . . . .	5
SOC& . . 101 . . . . .	Intro to Sociology. . . . .	5
ECON& . 202 . . . . .	Macro Economics . . . . .	5

### E. Mathematical & Natural Science (15 credits)

Course No.	Course Title	Credits
CHEM& . 161 . . . . .	General Chemistry I w/Lab . . . . .	5
CHEM& . 161L* . . . . .	General Chemistry I Lab . . . . .	0
CHEM& . 162 . . . . .	General Chemistry II w/Lab . . . . .	5
CHEM& . 162L* . . . . .	General Chemistry II Lab . . . . .	0
BIOL& . . 211 . . . . .	Majors Cellular w/Lab . . . . .	5
BIOL& . . 211L* . . . . .	Majors Cellular Lab . . . . .	0

### F. Health and Physical Education (3 credits)

Course No.	Course Title	Credits
HE . . . 230 . . . . .	First-Aid Safety . . . . .	3

### G. Electives (33 credits)

Course No.	Course Title	Credits
AFS. . . 101 . . . . .	Introduction to Agricultural Systems . . . . .	3
AFS. . . 201 . . . . .	Agricultural and Food Systems . . . . .	4
AFS. . . 2011 . . . . .	Agricultural and Food Systems Lab . . . . .	1
AG . . . 201 . . . . .	Soils . . . . .	4
AG . . . 2011 . . . . .	Soils Lab . . . . .	1
AG . . . 102 . . . . .	Introduction to Animal Science. . . . .	4
AG . . . 1021 . . . . .	Introduction to Animal Science Lab . . . . .	1
ACCT& . 201 . . . . .	Principles of Accounting I . . . . .	5
CHEM& . 163 . . . . .	General Chemistry III w/Lab . . . . .	5
CHEM& . 163L* . . . . .	General Chemistry III Lab . . . . .	0
HORT. . . 202 . . . . .	Cultivated Plants . . . . .	4
HORT. . . 2021 . . . . .	Cultivated Plants Lab . . . . .	1

**Total Credits Required. . . 101**

**Important: \*You must sign up for both lecture and lab courses to receive combined lecture and lab credits. Lab credits will display zero as they are included in the lecture credits.**



## Agricultural Food Systems

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**Department Overview:** Agri-Food Systems gives a broad, interdisciplinary understanding of agriculture systems and allows you to develop specialized knowledge of business management in agriculture and related areas. The program prepares not only aspiring growers of crops, but also students who are interested in related industries, such as global marketing, direct marketing, or food production to contribute to the changing field of agriculture.



## Agricultural and Industrial Equipment Technology

<http://www.columbiabasin.edu/agriculture>

**Department Overview:** The Agriculture and Industrial Equipment Technology program prepares students to become technicians for agriculture and construction equipment dealers who sell such brands as AGCO, CASE IH, Caterpillar, Kubota, and New Holland products. The program is two years in length and includes courses in hydraulics, electronics, diesel, mobile air conditioning, and diagnostics. The Agriculture and Industrial Equipment department intends to meet the following goals:

- upgrade the technical competency and professional level of incoming AG and industrial equipment service technicians;
- train students to analytically diagnose, service, and maintain agriculture and industrial products using recommended procedures, special tools, and service information;
- develop technicians with strong communications and customer service skills including listening, interpersonal communication, conflict resolution, and teamwork;
- provide content that will enable successful graduates to advance in position after additional experience, and to understand new systems and components as they are introduced.

To enter the program, students must be sponsored by an equipment dealership and meet the dealership hiring requirements. Students are encouraged to do a pre-internship at an equipment dealership prior to entering the program. Students complete six sessions of courses at Columbia Basin College (109-111 credits/ 1694-1716 hours) and four sessions of paid internships at sponsoring dealerships (20 credits/1000 hours). An Associate of Applied Science in Agriculture and Industrial Equipment Technology is awarded to students who complete all required and related coursework, general education requirements, and internship credits.

## Associate in Applied Science in AG and Industrial Equipment Technology

PROFESSIONAL TECHNICAL

### Major Courses

Course No.	Course Title	Credits
AGET . . 110 . . . . .	Fundamentals of Maintenance . . . . .	7
AGET . . 112 . . . . .	Pre-Delivery & Maintenance . . . . .	7
AGET . . 117 . . . . .	Internship 1 . . . . .	5
AGET . . 120 . . . . .	Power Train . . . . .	7
AGET . . 122 . . . . .	Mobile Air Conditioning . . . . .	7
AGET . . 127 . . . . .	Internship 2 . . . . .	5
AGET . . 130 . . . . .	Hydraulic Principles . . . . .	7
AGET . . 132 . . . . .	Wiring Circuits, Charging & Starting Systems . . . . .	7
AGET . . 210 . . . . .	Hydraulic Systems . . . . .	7
AGET . . 212 . . . . .	Electronic Systems . . . . .	7
AGET . . 217 . . . . .	Internship 3 . . . . .	5
AGET . . 220 . . . . .	Engines and Fuel Systems . . . . .	7
AGET . . 227 . . . . .	Internship 4 . . . . .	5
AGET . . 232 . . . . .	Precision Ag and Construction . . . . .	5
AGET . . 234 . . . . .	Diagnostics . . . . .	7
AGET . . 238 . . . . .	Capstone . . . . .	2
<b>Subtotal. . . . .</b>		<b>97</b>

### Major Support

Course No.	Course Title	Credits
AMT . . 207 . . . . .	Material Science of Automotive Technology . . . . .	3
BUS& . . 101 . . . . .	Intro to Business . . . . .	5
FYI . . 103 . . . . .	First Year Introduction for Skilled Trades . . . . .	1
<b>Subtotal. . . . .</b>		<b>9</b>

### General Education

Course No.	Course Title	Credits
MATH . . 111 . . . . .	Automotive Math. . . . .	5

### English (select 5 credits)

ENGL& . . 101 . . . . .	English Composition I or . . . . .	5
ENGL . . 103 . . . . .	Writing in the Workplace (preferred) . . . . .	5

### Human Relations (select 5 credits)

PSYC& . . 100 . . . . .	General Psychology <b>or</b> . . . . .	5
PSYC . . 201 . . . . .	Social Psychology <b>or</b> . . . . .	5
BUS . . 271 . . . . .	Human Relations Business (preferred) . . . . .	5

### Speech (select 3-5 credits)

CMST . . 101 . . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST& . . 220 . . . . .	Public Speaking <b>or</b> . . . . .	5
CMST . . 103 . . . . .	Workplace Communication (preferred) <b>or</b> . . . . .	3
CMST . . 110 . . . . .	Communication Behavior <b>or</b> . . . . .	3
CMST& . . 210 . . . . .	Interpersonal Communication <b>or</b> . . . . .	5
CMST . . 260 . . . . .	Multicultural Communications . . . . .	5

**Subtotal. . . . . 18-20**

**Total Credits Required. . . . . 124-126**

## Equipment Electronics

PROFESSIONAL TECHNICAL

SHORT-TERM CERTIFICATE

### Major Courses

Course No.	Course Title	Credits
AGET . . 132 . . . . .	Wiring Circuits, Charging & Starting Systems . . . . .	7
AGET . . 212 . . . . .	Electronic Systems . . . . .	7

**Subtotal. . . . . 14**

**Total Credits Required. . . . . 14**

## Hydraulics

PROFESSIONAL TECHNICAL

SHORT-TERM CERTIFICATE

### Major Courses

Course No.	Course Title	Credits
AGET . . 130 . . . . .	Hydraulic Principles . . . . .	7
AGET . . 210 . . . . .	Hydraulic Systems . . . . .	7

**Subtotal. . . . . 14**

**Total Credits Required. . . . . 14**



## Anthropology

<http://www.columbiabasin.edu/home/index.asp?page=639>

**Department Overview:** The department features introductory courses in Anthropology designed to acquaint students with the study of humans, their natural history, their present day variation, and their cultural development. Students are expected to develop an understanding of human biological and sociocultural evolution through research, critical thinking, and writing.

## Associate in Arts & Science with an Emphasis in Anthropology

TRANSFER DEGREE

Option C

### A. Communication (13 credits)

Course No.	Course Title	Credits
ENGL& . 101 . . . . .	English Composition I . . . . .	5
ENGL& . 102 . . . . .	Composition II . . . . .	5
CMST. . 3 . . . . .		

### Math Proficiency . . . . . X

### B. Quantitative/Symbolic Reasoning (5 credits)

Course No.	Course Title	Credits
MATH& . 146 . . . . .	Introduction to Stats . . . . .	5

### C. Humanities (15 credits)

*Course selections must also meet the Humanities distribution requirements for the AA degree.*

Course No.	Course Title	Credits
Humanities Electives (see Anthropology advisor for appropriate selection) . . . . .		15

### D. Social & Behavioral Science (15 credits)

*Course selections must also meet the Social & Behavioral Science distribution requirements for the AA degree.*

Course No.	Course Title	Credits
PSYC& . 100 . . . . .	General Psychology <b>or</b> . . . . .	5
SOC& . 101 . . . . .	Intro to Sociology. . . . .	5
ANTH& . 206 . . . . .	Cultural Anthropology . . . . .	5
Social Science Elective (see Anthropology advisor for appropriate selection) . . . . .		5

### E. Mathematical & Natural Science (15 credits)

*Course selections must also meet the Mathematical & Natural Science distribution requirements for the AA degree.*

Course No.	Course Title	Credits
ANTH& . 205 . . . . .	Biological Anthropology. . . . .	5
Mathematical & Natural Science Electives (see Anthropology advisor for appropriate selection). . . . .		10

### F. Health and Physical Education (3 credits)

Selected from PE activity classes **or** Health (HE) classes. . . . . 3

### G. Electives (24 credits)

Course No.	Course Title	Credits
ANTH& . 204 . . . . .	Archeology (Required). . . . .	5
ANTH& . 234 . . . . .	Religion & Culture (Recommended) . . . . .	5
Electives (see Anthropology advisor for appropriate selection) . . . . .		19

**Total Credits Required. . . . . 90**



Arabic

**Department Overview:** Our Arabic classes offer student-centered instruction that focuses on communicating effectively in Arabic, appreciating the culture of Arab countries of the Middle East and Northern Africa, and recognizing linguistic and cultural connections between Arabic-speaking parts of the world and the United States.



## Art, Visual

<http://www.columbiabasin.edu/visualarts>

**Department Overview:** The Art Department offers a wide range of learning opportunities so students can:

- satisfy degree requirements;
- transfer to four-year colleges or universities;
- develop professionally;
- find personal enrichment;
- enhance their appreciation of the visual arts.

The visual arts curriculum is designed to prepare the artists or arts educator with a foundation of skills for further growth and to provide continuing education opportunities for local artists.

The initial emphasis is on drawing and design skills including studies of line and tonal control, perspective theories, spatial concerns, and building an understanding of the elements and principles of form that constitute the basic language of the visual artists. Various media areas of the arts and crafts are emphasized in specific courses representing all the major two and three-dimensional media as well as art history. Emphasis is also placed on the thematic nature of the visual arts. Teaching strategies are designed to cultivate an understanding of the various themes and issues that the visual arts has the potential to articulate. This content-based approach to art-making further enriches the art education the student will experience. For art majors this affords an opportunity to build a significant portfolio of work in a variety of media areas.

This curriculum is recommended for students preparing for transfer into programs in the fine arts, art education, art history, graphic design, architecture, computer art, illustration or other commercial art areas, museum studies, or arts management.

## Associate in Arts & Science with an Emphasis in Visual Arts

TRANSFER DEGREE

Option C

### A. Communication (13 credits)

Course No.	Course Title	Credits
ENGL& . . 101 . . . . .	English Composition I . . . . .	5
ENGL& . . 102 . . . . .	Composition II . . . . .	5
CMST. . . 101 . . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST. . . 110 . . . . .	Communication Behavior . . . . .	3

### Math Proficiency . . . . . X

### B. Quantitative/Symbolic Reasoning (5 credits). . . . . 5

### C. Humanities (15 credits)

*Course selections must also meet the Humanities distribution requirements for the AA degree.*

Course No.	Course Title	Credits
ART& . . 100 . . . . .	Art Appreciation . . . . .	5
Humanities Electives . . . . .		10

### D. Social & Behavioral Science (15 credits)

*Course selections must also meet the Social & Behavioral Science distribution requirements for the AA degree.*

Social & Behavioral Science Electives . . . . .	15
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### E. Mathematical & Natural Science (15 credits)

*Course selections must also meet the Mathematical & Natural Science distribution requirements for the AA degree.*

Mathematical & Natural Science Electives . . . . .	15
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### F. Health and Physical Education (3 credits)

Selected from PE activity classes <b>or</b> Health (HE) classes. . . . .	3
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### G. Electives - 46 required electives

Course No.	Course Title	Credits
ART. . . 111 . . . . .	Design I . . . . .	5
ART. . . 1121 . . . . .	3D Design II . . . . .	5
ART. . . 1131 . . . . .	Drawing I . . . . .	3
ART. . . 1141 . . . . .	Drawing II . . . . .	3

### Select 10 credits from the following courses:

ART. . . 116 . . . . .	Art History Ancient World . . . . .	5
ART. . . 117 . . . . .	Art History Medieval-Baroque . . . . .	5
ART. . . 118 . . . . .	Art History Modern Times . . . . .	5
ART. . . . .	Elective Studio Courses (see faculty advisor) . . . . .	20

**Total Credits Required. . . . . 112**

*It is understood a visual arts major will complete more electives than the minimum 24 required for an AA degree. In addition to the above required coursework, it is extremely important to stay in close contact with your faculty advisor. It is possible your faculty advisor will recommend additional coursework within the Art Department.*



## ✦ Astronomy Common Course

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<http://www.columbiabasin.edu/astronomy>

**Department Overview:** The Astronomy program is offered to give science students a choice in how they integrate and apply math and science skills in their learning process. Currently, Introductory Astronomy is taught as the primary astronomy class. This includes understanding the basics of observational astronomy, the solar system, stars, galaxies, and the universe. Our Robert and Elisabeth Moore Observatory gives students the opportunity for hands-on learning by observing in a research-grade facility right on campus. The use of the scientific process, math skills, and critical thinking are emphasized as the basis for moving forward in a technologically challenging world.



## Autobody Collision Repair

<http://www.columbiabasin.edu/autobody>

**Department Overview:** This two-year program provides training in the two main areas of collision repair: body work and painting.

The first year of the program focuses on basic collision repair and complete car refinishing. The second year of the program focuses on structural repair, mechanical repair, and advanced refinishing including tinting and blending of paint. Other advanced training includes the repair techniques of aluminum and composite structure components. Students divide their time between lecture and lab classes to ensure they get theoretical training as well as employable skills.

Autobody repair is a rapidly changing field and CBC's Autobody Repair program aims to keep students updated on new materials being used in the auto industry and the techniques necessary to repair them. Students who complete the program will be prepared for entry-level employment in collision repair shops.

For more information, call (509) 544-2269.

The department requires students achieve a minimum grade of 2.0 to be able to continue enrollment in major courses. The Associate of Applied Science degree also requires a minimum grade of 2.0 for each major course. A student who achieves a grade of 1.9 or lower in any required major courses may repeat that course once to attempt to achieve a grade of 2.0 or higher. Exceptions to this policy must be approved by the Dean of the program prior to enrollment and must be based on extenuating circumstances.

## Associate in Applied Science in Autobody Collision Repair

PROFESSIONAL TECHNICAL

### Major Courses

Course No.	Course Title	Credits
ABT . . . 111 . . . . .	Basic Repair . . . . .	5
ABT . . . 1111 . . . . .	Basic Repair Lab . . . . .	9
ABT . . . 121 . . . . .	Subassembly Repair . . . . .	5
ABT . . . 1211 . . . . .	Subassembly Repair Lab . . . . .	9
ABT . . . 131 . . . . .	Principles of Painting . . . . .	5
ABT . . . 1311 . . . . .	Painting Lab . . . . .	9
ABT . . . 211 . . . . .	Repair Methods . . . . .	5
ABT . . . 2111 . . . . .	Repair Methods Lab . . . . .	9
ABT . . . 221 . . . . .	Body Rebuilding I . . . . .	5
ABT . . . 2211 . . . . .	Body Rebuilding I Lab . . . . .	9
ABT . . . 231 . . . . .	Body Rebuilding II . . . . .	5
ABT . . . 2311 . . . . .	Body Rebuilding II Lab . . . . .	9
<b>Subtotal. . . . .</b>		<b>84</b>

### Major Support

Course No.	Course Title	Credits
WT . . . 100 . . . . .	Basic Welding . . . . .	1
WT . . . 1001 . . . . .	Basic Welding Lab . . . . .	2
BUS& . . 101 . . . . .	Intro to Business . . . . .	5
FYI . . . 103 . . . . .	First Year Introduction for Trades . . . . .	1
<b>Subtotal. . . . .</b>		<b>9</b>

### General Education

Course No.	Course Title	Credits
<b>English (select 5 credits)</b>		
ENGL& . . 101 . . . . .	English Composition I <b>or</b> . . . . .	5
ENGL . . . 103 . . . . .	Writing in the Workplace . . . . .	5
<b>Human Relations (select 3-5 credits)</b>		
PSYC . . . 103 . . . . .	Applied Psychology <b>or</b> . . . . .	3
PSYC& . . 100 . . . . .	General Psychology <b>or</b> . . . . .	5
PSYC . . . 201 . . . . .	Social Psychology <b>or</b> . . . . .	5
BUS . . . 271 . . . . .	Human Relations Business . . . . .	5
<b>Math (select 4-5 credits)</b>		
MATH . . 100+ . . . . .	MATH 100 <b>or</b> above . . . . .	4-5
<b>Speech (select 3-5 credits)</b>		
CMST . . . 101 . . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST& . . 220 . . . . .	Public Speaking <b>or</b> . . . . .	5
CMST . . . 103 . . . . .	Workplace Communication <b>or</b> . . . . .	3
CMST . . . 110 . . . . .	Communication Behavior <b>or</b> . . . . .	3
CMST& . . 210 . . . . .	Interpersonal Communication <b>or</b> . . . . .	5
CMST . . . 260 . . . . .	Multicultural Communications . . . . .	5
<b>Subtotal. . . . .</b>		<b>15-20</b>

**Total Credits Required. . . 108-113**

## Autobody Collision Repair

PROFESSIONAL TECHNICAL

Certificate

### Major Courses

Course No.	Course Title	Credits
ABT . . . 111 . . . . .	Basic Repair . . . . .	5
ABT . . . 1111 . . . . .	Basic Repair Lab . . . . .	9
ABT . . . 121 . . . . .	Subassembly Repair . . . . .	5
ABT . . . 1211 . . . . .	Subassembly Repair Lab . . . . .	9
ABT . . . 131 . . . . .	Principles of Painting . . . . .	5
ABT . . . 1311 . . . . .	Painting Lab . . . . .	9
<b>Subtotal. . . . .</b>		<b>42</b>

### Major Support

Course No.	Course Title	Credits
WT . . . 1001 . . . . .	Basic Welding Lab . . . . .	2
<b>Subtotal. . . . .</b>		<b>2</b>
<b>Total Credits Required. . . . .</b>		<b>44</b>



## Automotive Technology

<http://www.columbiabasin.edu/automotive>

**Department Overview:** The Automotive Technology program is a comprehensive two-year program combining classroom instruction and hands-on training. The program is based on the eight Automotive Service Excellence (A.S.E.) topics in the National Technicians Certification Program to prepare students for the A.S.E. mechanic certification tests.

CBC's Automotive faculty aim to bring innovative technology into the classroom and the lab. Automotive Tech students learn the basics of computer diagnosis as well as traditional tool usage as they participate in the entire repair process, evaluating, repairing, and maintaining vehicles.

For more information, call (509) 542-4746.

The department requires students achieve a minimum grade of 2.0 to be able to continue enrollment in major courses. The Associate of Applied Science degree also requires a minimum grade of 2.0 for each major course. A student who achieves a grade of 1.9 or lower in any required major courses may repeat that course once to attempt to achieve a grade of 2.0 or higher. Exceptions to this policy must be approved by the Dean of the program prior to enrollment and must be based on extenuating circumstances.

## Associate in Applied Science in Automotive Technology

PROFESSIONAL TECHNICAL

### Major Courses

Course No.	Course Title	Credits
AMT . . . 110 . . . . .	Introduction to Automotive Technology . . . . .	4
AMT . . . 1101 . . . . .	Introduction to Automotive Technology Lab . . . . .	10
AMT . . . 120 . . . . .	Basic Electrical and Electronics . . . . .	2
AMT . . . 1201 . . . . .	Basic Electrical and Electronics Lab . . . . .	5
AMT . . . 123 . . . . .	Brakes/Suspension I . . . . .	2
AMT . . . 1231 . . . . .	Brakes/Suspension I Lab . . . . .	5
AMT . . . 130 . . . . .	Engine Performance . . . . .	2
AMT . . . 1301 . . . . .	Engine Performance Lab . . . . .	5
AMT . . . 133 . . . . .	Engine Repair and Rebuild . . . . .	2
AMT . . . 1331 . . . . .	Engine Repair and Rebuild Lab . . . . .	5
AMT . . . 1402 . . . . .	Automotive Internship . . . . .	7
AMT . . . 207 . . . . .	Material Science of Automotive Technology . . . . .	3
AMT . . . 220 . . . . .	Advanced Electrical and Electronics . . . . .	2
AMT . . . 2201 . . . . .	Advanced Electrical and Electronics Lab . . . . .	5
AMT . . . 223 . . . . .	Brakes/Suspension II . . . . .	2
AMT . . . 2231 . . . . .	Brakes/Suspension II Lab . . . . .	5
AMT . . . 230 . . . . .	Automatic Transmission . . . . .	2
AMT . . . 2301 . . . . .	Automatic Transmission Lab . . . . .	4
AMT . . . 233 . . . . .	Manual Transmission . . . . .	2
AMT . . . 2331 . . . . .	Manual Transmission Lab . . . . .	5
AMT . . . 240 . . . . .	Drivability Diagnostics . . . . .	2
AMT . . . 2401 . . . . .	Drivability Diagnostics Lab . . . . .	5
AMT . . . 243 . . . . .	Heating Ventilation and Air Conditioning Systems . . . . .	2
AMT . . . 2431 . . . . .	Heating Ventilation and Air Conditioning Systems Lab . . . . .	5
<b>Subtotal. . . . .</b>		<b>93</b>

### Major Support

FYI . . . . 103 . . . . .	First Year Introduction for Trades . . . . .	1
<b>Subtotal. . . . .</b>		<b>1</b>

### General Education

Course No.	Course Title	Credits
ENGL . . . 103 . . . . .	Writing in the Workplace . . . . .	5
MATH . . . 111 . . . . .	Automotive Math . . . . .	5
CMST . . . 103 . . . . .	Workplace Communication . . . . .	3

### Psychology (select 3-5 credits)

PSYC . . . 103 . . . . .	Applied Psychology or . . . . .	3
PSYC& . . 100 . . . . .	General Psychology . . . . .	5
<b>Subtotal. . . . .</b>		<b>16-18</b>

**Total Credits Required. . . 110-112**

## Automotive Technology Certificate

PROFESSIONAL TECHNICAL

### Major Courses

Course No.	Course Title	Credits
AMT . . . 110 . . . . .	Introduction to Automotive Technology . . . . .	4
AMT . . . 1101 . . . . .	Introduction to Automotive Technology Lab . . . . .	10
AMT . . . 120 . . . . .	Basic Electrical and Electronics . . . . .	2
AMT . . . 1201 . . . . .	Basic Electrical and Electronics Lab . . . . .	5
AMT . . . 123 . . . . .	Brakes/Suspension I . . . . .	2
AMT . . . 1231 . . . . .	Brakes/Suspension I Lab . . . . .	5
AMT . . . 130 . . . . .	Engine Performance . . . . .	2
AMT . . . 1301 . . . . .	Engine Performance Lab . . . . .	5
AMT . . . 133 . . . . .	Engine Repair and Rebuild . . . . .	2
AMT . . . 1331 . . . . .	Engine Repair and Rebuild Lab . . . . .	5
<b>Subtotal. . . . .</b>		<b>42</b>
<b>Total Credits Required. . . . .</b>		<b>42</b>



## Biology

<http://www.columbiabasin.edu/home/index.asp?page=671>

**Department Overview:** The Life Sciences Department offers courses in Biology & Science to:

- prepare students for BIOL& 211/BIOL& 211L and/or fulfill graduation requirements for the non-science major to obtain an Associate degree in Arts and Sciences or Certificate of General Study (BIOL& 100/BIOL& 100L, BIOL& 160/BIOL& 160L, BIOL& 175/BIOL& 175L, ENVS& 101/ENVS& 101L, BIOL 140/BIOL 140L, SCI 110/SCI 1101);
- meet the entrance or support course requirements for the Health Sciences (Nursing, Dental Hygiene, Physical & Occupational Therapy, Paramedic/EMT, etc.) programs (BIOL& 160/BIOL& 160L, BIOL& 211/BIOL& 211L, BIOL& 241/BIOL& 241L, BIOL& 242 /BIOL& 242L, BIOL& 260/BIOL& 260L);
- prepare the science major and pre-professional (pre-med, pre-vet, pre-chiropractic, pre-optometry, pre-pharmacy, etc.) transfer student for upper-level biology courses (BIOL& 211/BIOL& 211L, BIOL& 212/BIOL& 212L, BIOL& 213/BIOL& 213L) and;
- meet the need for elective and/or general interest to the community (BIOL 120, BIOL 140/BIOL 140L, BIOL 186/BIOL 186L, BIOL 201/BIOL 201L, BIOL 240/BIOL 240L, BIOL 250/BIOL 250L, BIOL 252/BIOL 252L, BIOL 253/BIOL 253L, BIOL 254/BIOL 254L, SCI 110/SCI 1101).

**Lab and lecture must be taken concurrently in all class offerings.**

## Blueprint Reading

<http://www.columbiabasin.edu/home/index.asp?page=126>

**Department Overview:** Columbia Basin College offers several blueprint reading classes. They are tailored specifically for the following programs:

### Machine Technology

BPR 204: This class is designed to lead the Machine Technology student into reading Machine Shop blueprints. Students will also be introduced to Computer Aided Drafting (CAD) software and will create blueprints of machining projects using the software.

### Welding Technology

BPR 106 and BPR 206: These classes are designed to teach students to interpret blueprints used on structural projects (BPR 106) along with utility and process piping projects (BPR 206). Students learn to create a materials list from reading blueprints in both BPR 106 and BPR 206.



## Business

<http://www.columbiabasin.edu/home/index.asp?page=744>

**Department Overview:** The variety of business courses offered are designed to meet many different needs. Students can complete the AA in Business, complete business prerequisites to transfer to a four-year college, can choose among the courses to build specific skills, and/or can select courses that will lead to a certificate or two-year degree in Accounting or Business Administration.

## Associate in Arts & Science in Business

TRANSFER DEGREE

### A. Communication (13 credits)

Course No.	Course Title	Credits
ENGL& . 101 . . . . .	English Composition I . . . . .	5
ENGL& . 102 . . . . .	Composition II . . . . .	5
CMST. . 101 . . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST& . 220 <sup>1</sup> . . . . .	Public Speaking. . . . .	5

**Math Proficiency** . . . . . X

### B. Quantitative/Symbolic Reasoning (5 credits)

Course No.	Course Title	Credits
MATH& . 148 . . . . .	Business Calculus. . . . .	5

### C. Humanities (15 credits)

*Course selections must also meet the Humanities distribution requirements for the AA degree.*

Humanities Electives<sup>2</sup> . . . . . 15

### D. Social & Behavioral Science (15 credits)

*Course selections must also meet the Social & Behavioral Science distribution requirements for the AA degree.*

Course No.	Course Title	Credits
ECON& . 202 . . . . .	Macro Economics . . . . .	5
PSYC& . 100 . . . . .	General Psychology <b>or</b> . . . . .	5
SOC& . 101 . . . . .	Intro to Sociology. . . . .	5
Social Science Elective (see advisor for appropriate selection) <sup>3</sup> . . . . .		5

### E. Mathematical & Natural Science (15 credits)

*Course selections must also meet the Mathematical & Natural Science distribution requirements for the AA degree.<sup>4</sup>*

Course No.	Course Title	Credits
. . . . .	Lab Science . . . . .	5
. . . . .	Science. . . . .	5
MATH& . 146 . . . . .	Introduction to Stats . . . . .	5

### F. Health and Physical Education (3 credits)

Selected from PE activity classes **or** Health (HE) classes. . . . . 3

### G. Electives (40-55 credits)

Course No.	Course Title	Credits
ECON& . 201 . . . . .	Micro Economics . . . . .	5
ACCT& . 201 . . . . .	Principles of Accounting I . . . . .	5
ACCT& . 202 . . . . .	Principles of Accounting II. . . . .	5
ACCT& . 203 . . . . .	Principles of Accounting III . . . . .	5
BUS& . 201 <sup>5</sup> . . . . .	Business Law <b>or</b> . . . . .	5
POLS& . 200 <sup>5</sup> . . . . .	Introduction to Law . . . . .	5
MATH . 147 . . . . .	Finite Math . . . . .	5
MATH& . 141 . . . . .	Precalculus I. . . . .	5
BUS . 250 . . . . .	Management Information Systems . . . . .	5
. . . . .	Business Elective <sup>6</sup> --Computer Science course . . . . .	0-5
. . . . .	World Languages <sup>2</sup> . . . . .	0-10

**Total Credits Required. . 106-121**

<sup>1</sup> For WSU, choose a 5-credit CMST& 220

<sup>2</sup> Students intending the international business major should consult their potential transfer institutions regarding the level of world languages required for admission to the major—only five credits in world languages may apply to the Humanities requirement

<sup>3</sup> For WSU, choose a Political Science course

<sup>4</sup> Students intending the manufacturing management major at WWU should consult WWU regarding the selection of natural science courses required for admission to the major

<sup>5</sup> Check with your chosen four-year college for appropriate choice, CBC does not have an equivalent required course for University of Washington

<sup>6</sup> Four institutions have requirements for admission to the business major that go beyond those specified above that students can meet by careful selection of the elective course: WSU Management Information Systems MIS that can be satisfied by CBC's BUS 250, this course is required to certify for major; Gonzaga, PLU, and SPU have other computer course expectations, see advisor for information



## Business Administration

<http://www.columbiabasin.edu/busadmin>

**Program Overview:** The Business Administration program prepares students for success in many areas of business that can lead to management. Each student gains practical experience while taking courses based upon contemporary business practices.

Upon successful completion of the program, students will be able to:

- use critical thinking skills to analyze business problems;
- communicate effectively and apply interpersonal skills and cultural awareness to business situations;
- understand how human resources are organized into systems and solve problems within those systems;
- apply information tools and resources within organizations;
- reason quantitatively and apply accounting and financial knowledge to business practices.

## Associate in Applied Science in Business Administration

PROFESSIONAL TECHNICAL

### Major Courses

Course No.	Course Title	Credits
BUS& . 101 . . . . .	Intro to Business . . . . .	5
ACCT& . 201 . . . . .	Principles of Accounting I . . . . .	5
ACCT& . 202 . . . . .	Principles of Accounting II . . . . .	5
BUS& . 201 . . . . .	Business Law . . . . .	5
ECON& . 202 . . . . .	Macro Economics . . . . .	5
ECON& . 201 . . . . .	Micro Economics . . . . .	5

### Computer Science/Computer Applications (select 4-5 credits)

CA/CS . 100+ . . . . .	Computer Course(s) . . . . .	4-5
<b>Subtotal. . . . .</b>		<b>34-35</b>

### Major Support

Select 35 credits. Options: you may pick optional classes from prepared lists of courses. See advisor to make your course selections.

**Subtotal. . . . . 35**

### General Education

Course No.	Course Title	Credits
ENGL& . 101 . . . . .	English Composition I . . . . .	5
ENGL& . 102 . . . . .	Composition II <b>or</b> . . . . .	5
ENGL& . 235 . . . . .	Technical Writing . . . . .	5
MATH . 106+ . . . . .	MATH 106 <b>or</b> above . . . . .	5
Science Course (Natural Science with lab) . . . . .		5

### Psychology or Sociology (select 5 credits)

PSYC& . 100 . . . . .	General Psychology <b>or</b> . . . . .	5
SOC& . 101 . . . . .	Intro to Sociology. . . . .	5

### Speech (select 3-5 credits)

CMST. . 101 . . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST& . 220 . . . . .	Public Speaking <b>or</b> . . . . .	5
CMST. . 110 . . . . .	Communication Behavior <b>or</b> . . . . .	3
CMST& . 210 . . . . .	Interpersonal Communication <b>or</b> . . . . .	5
CMST. . 260 . . . . .	Multicultural Communications . . . . .	5

**Subtotal. . . . . 28-30**

**Total Credits Required. . . 97-100**

## Business Administration

PROFESSIONAL TECHNICAL

One-Year Certificate

### Major Courses

Course No.	Course Title	Credits
BUS& . 101 . . . . .	Intro to Business . . . . .	5
ACCT& . 201 . . . . .	Principles of Accounting I . . . . .	5
BUS& . 201 . . . . .	Business Law . . . . .	5
BUS . 271 . . . . .	Human Relations Business . . . . .	5

### Computer Science/Computer Applications (select 4-5 credits)

CA/CS . 100+ . . . . .	Computer Course(s) . . . . .	4-5
<b>Subtotal. . . . .</b>		<b>24-25</b>

### Major Support

(Select 23 credits) Options: you may pick optional classes from prepared lists of courses. See advisor to make your course selections.

**Subtotal. . . . . 23**

### General Education

Course No.	Course Title	Credits
ENGL& . 101 . . . . .	English Composition I . . . . .	5
MATH . 106+ . . . . .	MATH 106 <b>or</b> above . . . . .	5

### Psychology or Sociology courses (select 5 credits)

PSYC& . 100 . . . . .	General Psychology <b>or</b> . . . . .	5
SOC& . 101 . . . . .	Intro to Sociology. . . . .	5

### Speech (select 3-5 credits)

CMST. . 101 . . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST& . 220 . . . . .	Public Speaking <b>or</b> . . . . .	5
CMST. . 110 . . . . .	Communication Behavior. . . . .	3
CMST& . 210 . . . . .	Interpersonal Communication <b>or</b> . . . . .	5
CMST. . 260 . . . . .	Multicultural Communications . . . . .	5

**Subtotal. . . . . 18-20**

**Total Credits Required. . . 65-68**



## Chemistry

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<http://www.columbiabasin.edu/home/index.asp?page=809>

**Department Overview:** CHEM& 110/CHEM& 110L fulfills the chemistry requirement for the AAS degree in Nursing, Fire Science, and certain career tracks in Agriculture. It is also ideal for non-science majors who want a lab science course that gives a good introduction to chemical topics important in our technological society.

CHEM& 140/CHEM& 140L is intended for science majors who have not had chemistry in high school and need the chemical and mathematical preparation required for the CHEM& 161, CHEM& 162, CHEM& 163 series. It can also be used to fulfill the lab science requirement for other majors.

CHEM& 121, CHEM& 122, CHEM& 123 is the allied health sequence and is required for Respiration Therapy, Dental Hygiene programs at Yakima and Spokane colleges, and certain agriculture career tracks. This course is also suitable for nursing, particularly for those seeking the four-year baccalaureate degree in Nursing or other allied health fields. Only CHEM& 121 is a pre-admission requirement for the CBC Dental Hygiene program.

CHEM& 161, CHEM& 162, CHEM& 163 sequence is intended for science and engineering majors and pre-professional majors such as pre-med, pre-dental, pre-veterinary, pre-optometry, pre-pharmacy, medical technology, physical therapy, and forensic science.

CHEM& 131 provides an overview of organic chemistry and biochemistry for students that do not need the level of detail provided by CHEM& 122 and CHEM& 123. This course is accepted for the baccalaureate degree in Nursing at some four-year institutions.

The Chemistry Department also provides a full array of second-year chemistry courses, including the organic chemistry sequence (CHEM& 241, CHEM& 242, CHEM& 243) and accompanying laboratory for chemistry, chemical engineering, biochemistry, biology, environmental science, and the pre-professional majors listed above; quantitative analysis, instrumental analysis, and laboratory (CHEM 254, CHEM 255) for chemistry, biochemistry, environmental chemistry, forensic science, and certain other majors; and the unique opportunity to take undergraduate research (CHEM 286 and CHEM 290) as a technical elective. Students must enroll in both the lecture and the lab unless special arrangements are made with the instructor.

## Chinese Common Course

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<http://www.columbiabasin.edu/home/index.asp?page=826>

**Program Overview:** Our Chinese classes offer student-centered instruction that focuses on communicating effectively in Chinese, appreciating the Chinese culture, and recognizing linguistic and cultural connections between the Chinese-speaking part of the world and the United States.



## Communication Studies

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<http://www.columbiabasin.edu/communication>

**Department Overview:** Communication Studies offerings at Columbia Basin College are designed to provide students with communication skills that enhance their professional and personal relationships. These classes are open to all CBC students.

Career opportunities include the fields of teaching, film/television, public relations, advertising, and other careers where speaking or performing for the public is important.

## Communication Studies Common Course

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<http://www.columbiabasin.edu/communication>

**Department Overview:** Communication Studies offerings at Columbia Basin College are designed to provide students with communication skills that enhance their professional and personal relationships. These classes are open to all CBC students.

Career opportunities include the fields of teaching, film/television, public relations, advertising, and other careers where speaking or performing for the public is important.

## Community Education

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<http://www.columbiabasin.edu/home/index.asp?page=607>

**Program Overview:** Columbia Basin College offers the Evergreen Flagger Training Certification, which is the most recognized course for flagger training for Washington state. This flagger card is accepted in Oregon and Idaho as well. The handbook and instructor's manual are constantly updated and contain all the timely information and requirements.

This is the premier flagger training course offered in Washington state. It is offered by Evergreen-certified instructors through Columbia Basin College.

- This program is approved by the Washington State Traffic Control Oversight Committee (membership includes Departments of Transportation, Labor and Industries, and boards for colleges, business, and labor).
- Certified instructors are authorized to issue the Washington State Flagger Certification card, recognized in Washington, Oregon, and Idaho.
- Flaggers working on WSDOT construction projects are required to have the Washington State Flagger Certification card, which is approved for distribution through this program.
- Meets Department of Labor & Industries requirements for WAC 296-155-305, "Flagger Training Requirements" for Washington state.

This is a one-day class in which a Washington State Certified Flagging card will be issued upon successful completion of the class and test. (CBC does not refer positions.) Classes are held at the Pasco campus in the V building in room V 121 located at 2600 North 20th Avenue, Pasco, Wash., from 8:30 a.m. to 4:00 p.m.

The cost for this class is \$46. Pre-registration is required and students are asked to bring their payment receipt to class.



## Computer Applications

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<http://www.columbiabasin.edu/computerscience>

**Department Overview:** These courses are offered cooperatively by the Administrative Office Technology and Computer Science departments and are available for students wishing to enhance their knowledge of current software programs. These classes are currently part of the requirements of some of the Professional Technical programs on campus.



## Computer Science

<http://www.columbiabasin.edu/computerscience>

### Department Overview:

#### Computer Applications

Computer Applications courses are currently offered cooperatively by the Administrative Office Technology and Computer Science departments and are available for students wishing to enhance their knowledge of current basic software programs.

#### Computer Science

Computer Science courses are offered by the Computer Science department. The department is committed to provide students and the community with the training, academic studies, and valuable hands-on experience necessary for employment in the Information Technology industry. To ensure current and relevant curriculum in this dynamic field and further its commitment to excellence, the department actively pursues partnerships with state and area employers, other colleges and baccalaureate institutions, and advisory committee members from IT-related fields.

Students may earn a two-year Associate in Applied Science (AAS) degree, which has six options: Internet Specialist, Database Administrator, Network Administrator, Programmer, Helpdesk Tech, and Multimedia. Furthermore, students may earn a one-year programming certificate in VB.Net, C#.Net, or C++.

Students may also take classes that will transfer to a four-year degree program. For students pursuing a four-year degree, the Computer Science department has direct articulation agreements with WSU, City University, CWU, EWU, and the University of Phoenix. Students may optionally choose to pursue a two-year AST degree, which will be honored at any Washington state baccalaureate institution. (The details of the AST degree are available in the Degrees & Certificates section in the front of the CBC catalog.)

Students may also take individual classes for finding immediate employment, retraining, or maintaining and updating existing IT skills. In addition, students may take Computer Science classes to help prepare for various IT industry certifications. The certification classes may be taken in conjunction with one of the degree programs, or on an individual basis.

Many of the Computer Science classes are designed to help students prepare for industry certification such as the MCP, MCSE, and MCSA certifications. There are also Computer Science classes that will help prepare students for CompTIA A+ and Network+, and Microsoft MOUS certifications. (Please note that the certification exams are difficult to pass. The Computer Science classes provide students with an opportunity to obtain technical knowledge and product experience, but passing any certification exam requires extra study, work, and initiative on the student's part.)

The Computer Science instructors bring a diverse set of talents and expertise to the classroom. Instructors for certification classes are themselves certified; and the part-time instructors are subject matter experts who generally work full-time in the field they are teaching.

New students may apply to CBC and begin taking Computer Science classes any quarter of the year. Classes are offered in the traditional format, day and night, and online.

The Columbia Basin College Computer Science department acknowledges that students may have mastered specific skills and competencies outside of the formal classroom experience. For example, you may have gained work-place experience or may be self taught. Both CBC and the Computer Science department recognize various nontraditional programs and will possibly award a student college credit and/or placement in advanced classes. In accordance with the CBC Nontraditional Credit Policy, the Computer Science department provides two methods for earning nontraditional credit and/or placement: passing a challenge test or presenting proof of a current industry certification, A+, MCP/MCSE, etc.

The Computer Science program has also developed articulation agreements with several of the local school districts. These articulation agreements grant students college credit for taking relevant high school classes. Students in the local K-12 school districts should check with their advisors for the availability of these classes.

## Associate in Applied Science in Database Administrator

PROFESSIONAL TECHNICAL

### Major Courses

Course No.	Course Title	Credits
CS . . . 101 . . . . .	Introduction to Computers and Information Technology . . . . .	5
CS . . . 102* . . . . .	Visual Basic 1 (minimum grade 2.5) . . . . .	5
CS . . . 106 . . . . .	Database Systems . . . . .	5
CS . . . 109 . . . . .	PC Hardware 1 . . . . .	5
CS . . . 110 . . . . .	Windows Operating Systems . . . . .	5
CS . . . 122 . . . . .	PC Hardware 2 . . . . .	5
CS . . . 224 . . . . .	Networking Essentials . . . . .	5
<b>Subtotal. . . . .</b>		<b>35</b>

### Major Support

Course No.	Course Title	Credits
CS . . . 114 . . . . .	HTML (Internet Publishing 1) . . . . .	5
CS . . . 202 . . . . .	Visual Basic 2 . . . . .	5
CS . . . 206 . . . . .	Database Design . . . . .	5
CS . . . 219 . . . . .	Active Server Pages (ASP) Internet Publishing . . . . .	5
CS . . . 221 . . . . .	SQL Server Administration . . . . .	5
CS . . . 225 . . . . .	SQL Server Programming . . . . .	5
CS . . . 228 . . . . .	Windows Server . . . . .	5
CS . . . 229 . . . . .	Webmaster . . . . .	5
<b>Subtotal. . . . .</b>		<b>40</b>

### General Education

Course No.	Course Title	Credits
ENGL& . . 101 . . . . .	English Composition I . . . . .	5
MATH . . 106+ . . . . .	MATH 106 <b>or</b> above . . . . .	5

### Psychology or Sociology (select 5 credits)

PSYC& . . 100 . . . . .	General Psychology <b>or</b> . . . . .	5
SOC& . . 101 . . . . .	Intro to Sociology. . . . .	5

### Speech (select 3-5 credits)

CMST. . . 101 . . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST& . . 220 . . . . .	Public Speaking <b>or</b> . . . . .	5
CMST. . . 110 . . . . .	Communication Behavior <b>or</b> . . . . .	3
CMST& . . 210 . . . . .	Interpersonal Communication <b>or</b> . . . . .	5
CMST. . . 260 . . . . .	Multicultural Communications . . . . .	5
<b>Subtotal. . . . .</b>		<b>18-20</b>

**Total Credits Required. . . . . 93-95**

**Note:** \*MATH 095 or MATH 098 with minimum grade 2.0 is prerequisite for all programming classes. Students must receive minimum 2.0 in all CS courses, except as noted above.



# Program Offerings

## Associate in Applied Science in Help Desk Technician

PROFESSIONAL TECHNICAL

### Major Courses

Course No.	Course Title	Credits
CS . . . 101. . . . .	Introduction to Computers and Information Technology . . . . .	5
CS . . . 102* . . . . .	Visual Basic 1 (minimum grade 2.5) . . . . .	5
CS . . . 106. . . . .	Database Systems . . . . .	5
CS . . . 109. . . . .	PC Hardware 1 . . . . .	5
CS . . . 110. . . . .	Windows Operating Systems . . . . .	5
CS . . . 122. . . . .	PC Hardware 2 . . . . .	5
CS . . . 224. . . . .	Networking Essentials . . . . .	5
<b>Subtotal. . . . .</b>		<b>35</b>

### Major Support

Course No.	Course Title	Credits
CS . . . 107. . . . .	Intermediate Word Processing . . . . .	2
CS . . . 108. . . . .	Intermediate Spreadsheets . . . . .	2
CS . . . 114. . . . .	HTML (Internet Publishing 1) . . . . .	5
CS . . . 150. . . . .	Computer Security . . . . .	5
CS . . . 1952. . . . .	Work-Based Learning 1 . . . . .	1-5
CS . . . 207. . . . .	Word Implementation . . . . .	5
CS . . . 208. . . . .	Advanced Spreadsheets . . . . .	5
CS . . . 244. . . . .	Digital Graphics & Design 2 . . . . .	5

### Computer Science Options (select 5 credits)

CS . . . 227. . . . .	Windows Administration <b>or</b> . . . . .	5
CS . . . 223. . . . .	Unix/Linux. . . . .	5

### Select 10 credits from the following courses:

CS . . . 202. . . . .	Visual Basic 2 <b>or</b> . . . . .	5
CS . . . 203. . . . .	Digital Graphics & Design 1 <b>or</b> . . . . .	5
CS . . . 206. . . . .	Database Design . . . . .	5

**Subtotal. . . . . 45-49**

### General Education

Course No.	Course Title	Credits
ENGL& . . 101. . . . .	English Composition I . . . . .	5
MATH . . 106+ . . . . .	MATH 106 <b>or</b> above . . . . .	5

### Psychology or Sociology (select 5 credits)

PSYC& . . 100. . . . .	General Psychology <b>or</b> . . . . .	5
SOC& . . 101. . . . .	Intro to Sociology. . . . .	5

### Speech (select 3-5 credits)

CMST. . . 101. . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST& . . 220. . . . .	Public Speaking <b>or</b> . . . . .	5
CMST. . . 110. . . . .	Communication Behavior <b>or</b> . . . . .	3
CMST& . . 210. . . . .	Interpersonal Communication <b>or</b> . . . . .	5
CMST. . . 260. . . . .	Multicultural Communications . . . . .	5

**Subtotal. . . . . 18-20**

**Total Credits Required. . . 98-104**

**Note:** \*MATH 095 or MATH 098 with minimum grade 2.0 is prerequisite for all programming classes. Students must receive minimum 2.0 in all CS courses, except as noted above.

## Associate in Applied Science in Internet Specialist

PROFESSIONAL TECHNICAL

### Major Courses

Course No.	Course Title	Credits
CS . . . 101. . . . .	Introduction to Computers and Information Technology . . . . .	5
CS . . . 102* . . . . .	Visual Basic 1 (minimum 2.5 grade) . . . . .	5
CS . . . 106. . . . .	Database Systems . . . . .	5
CS . . . 109. . . . .	PC Hardware 1 . . . . .	5
CS . . . 110. . . . .	Windows Operating Systems . . . . .	5
CS . . . 122. . . . .	PC Hardware 2 . . . . .	5
CS . . . 224. . . . .	Networking Essentials . . . . .	5
<b>Subtotal. . . . .</b>		<b>35</b>

### Major Support

Course No.	Course Title	Credits
CS . . . 114. . . . .	HTML (Internet Publishing 1) . . . . .	5
CS . . . 115. . . . .	JavaScript/CSS (Internet Publishing 2) . . . . .	5
CS . . . 203. . . . .	Digital Graphics & Design 1 . . . . .	5
CS . . . 218. . . . .	ASP.NET <b>or</b> . . . . .	5
CS . . . 219. . . . .	Active Server Pages (ASP) Internet Publishing . . . . .	5
CS& . . 131. . . . .	Computer Science I C++ <b>or</b> . . . . .	5
CS . . . 216. . . . .	XML (Internet Publishing III) . . . . .	5
CS . . . 243. . . . .	Web Animation . . . . .	5

### Select 10 credits from the following courses:

CS . . . 213. . . . .	Advanced Internet . . . . .	5
CS . . . 223. . . . .	Unix/Linux. . . . .	5
CS . . . 228. . . . .	Windows Server . . . . .	5
CS . . . 229. . . . .	Webmaster . . . . .	5
CS . . . 244. . . . .	Digital Graphics & Design 2 . . . . .	5

**Subtotal. . . . . 40**

### General Education

Course No.	Course Title	Credits
ENGL& . . 101. . . . .	English Composition I . . . . .	5
MATH . . 106+ . . . . .	MATH 106 <b>or</b> above . . . . .	5

### Psychology or Sociology (select 5 credits)

PSYC& . . 100. . . . .	General Psychology <b>or</b> . . . . .	5
SOC& . . 101. . . . .	Intro to Sociology. . . . .	5

### Speech (select 3-5 credits)

CMST. . . 101. . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST& . . 220. . . . .	Public Speaking <b>or</b> . . . . .	5
CMST. . . 110. . . . .	Communication Behavior <b>or</b> . . . . .	3
CMST& . . 210. . . . .	Interpersonal Communication <b>or</b> . . . . .	5
CMST. . . 260. . . . .	Multicultural Communications . . . . .	5

**Subtotal. . . . . 18-20**

**Total Credits Required. . . 93-95**

**Note:** \*MATH 095 or MATH 098 with minimum grade 2.0 is prerequisite for all programming classes. Students must receive minimum 2.0 in all CS courses, except as noted above.



# Program Offerings

## Associate in Applied Science in Multimedia

PROFESSIONAL TECHNICAL

### Major Courses

Course No.	Course Title	Credits
CS . . . 101.	Introduction to Computers and Information Technology	5

### Select any 6 of the following courses:

CS . . . 102*	Visual Basic 1	5
CS . . . 110.	Windows Operating Systems	5
CS . . . 114.	HTML (Internet Publishing 1)	5
CS . . . 115.	JavaScript/CSS (Internet Publishing 2)	5
CS . . . 203.	Digital Graphics & Design 1	5
CS . . . 218.	ASP .Net	5
CS . . . 243.	Web Animation	5
CS . . . 244.	Digital Graphics & Design 2	5

**Subtotal. . . . 35**

### Major Support

#### Art Courses (39-40 credits)

Course No.	Course Title	Credits
ART& . . 100.	Art Appreciation	5
ART . . . 111*	Design 1	5
ART . . . 1121	3D Design II	5
ART . . . 1131	Drawing 1	3
ART . . . 211.	Graphic Design I	5
ART . . . 212.	Graphic Design II	5
ART . . . 2411	Illustration I	3
ART . . . 2421	Illustration II	3

### Select 2 of the following courses:

ART . . . 2011	Photography I	3
ART . . . 2021	Photography II	3
ART . . . 2081	Digital Photography	2

**Subtotal. . . . 39-40**

#### Business Administration (6-20 credits)

Course No.	Course Title	Credits
BUS . . . 271	Human Relations Business	5
BUS . . . 267.	Marketing Special Projects	1-15

### General Education

Course No.	Course Title	Credits
ENGL& . . 101.	English Composition I	5
MATH . . 106+	MATH 106 <b>or</b> above	5

### Human Relations (select 5 credits)

PSYC& . . 100.	General Psychology <b>or</b>	5
SOC& . . 101.	Intro to Sociology	5

### Speech (select 3-5 credits)

CMST. . . 101.	Speech Essentials <b>or</b>	3
CMST& . . 220.	Public Speaking <b>or</b>	5
CMST. . . 110.	Communication Behavior <b>or</b>	3
CMST& . . 210.	Interpersonal Communication <b>or</b>	5
CMST. . . 260.	Multicultural Communications	5

**Subtotal. . . . 18-20**

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

**Note:** \*MATH 095 or MATH 098 with minimum grade 2.0 is prerequisite for all programming classes. Students must receive minimum 2.0 in all CS courses, except as noted above.

## Associate in Applied Science in Network Administrator

PROFESSIONAL TECHNICAL

### Major Courses

Course No.	Course Title	Credits
CS . . . 101.	Introduction to Computers and Information Technology	5
CS . . . 102*	Visual Basic 1 (minimum grade 2.5)	5
CS . . . 106.	Database Systems	5
CS . . . 109.	PC Hardware 1	5
CS . . . 110.	Windows Operating Systems	5
CS . . . 122.	PC Hardware 2	5
CS . . . 224.	Networking Essentials	5

**Subtotal. . . . 35**

### Major Support

Course No.	Course Title	Credits
CS . . . 150.	Computer Security	5
CS . . . 222.	Novell	5
CS . . . 223.	Unix/Linux	5
CS . . . 228.	Windows Server	5
CS . . . 230.	Active Directory	5

### Select 15 credits from the following courses:

CS . . . 227.	Windows Administration	5
CS . . . 231.	Network Infrastructure	5
CS . . . 232.	Network Security	5
CS . . . 233.	UNIX Administration	5
CS . . . 221.	SQL Server Administration	5
CS . . . 225.	SQL Server Programming	5
CS . . . 229.	Webmaster	5

**Subtotal. . . . 40**

### General Education

Course No.	Course Title	Credits
ENGL& . . 101.	English Composition I	5
MATH . . 106+	MATH 106 <b>or</b> above	5

### Psychology or Sociology (select 5 credits)

PSYC& . . 100.	General Psychology <b>or</b>	5
SOC& . . 101.	Intro to Sociology	5

### Speech (select 3-5 credits)

CMST. . . 101.	Speech Essentials <b>or</b>	3
CMST& . . 220.	Public Speaking <b>or</b>	5
CMST. . . 110.	Communication Behavior <b>or</b>	3
CMST& . . 210.	Interpersonal Communication <b>or</b>	5
CMST. . . 260.	Multicultural Communications	5

**Subtotal. . . . 18-20**

**Total Credits Required. . . 93-95**

**Note:** \*MATH 095 or MATH 098 with minimum grade 2.0 is prerequisite for all programming classes. Students must receive minimum 2.0 in all CS courses, except as noted above.



# Program Offerings

## Associate in Applied Science in Programmer

PROFESSIONAL TECHNICAL

### Major Courses

Course	No.	Course Title	Credits
CS	101	Introduction to Computers and Information Technology	5
CS	102*	Visual Basic 1 (minimum grade 2.5)	5
CS	106	Database Systems	5
CS	109	PC Hardware 1	5
CS	110	Windows Operating Systems	5
CS	122	PC Hardware 2	5
CS	224	Networking Essentials	5
<b>Subtotal.</b>			<b>35</b>

### Major Support

Select 45 credits from the following courses:

Course	No.	Course Title	Credits
CS&	131*	Computer Science I C++	5
CS	162*	C++2	5
CS	171	C# 1	5
CS	172	C# 2	5
CS	202	Visual Basic 2	5
CS	206	Database Design	5
CS	212	Visual Basic 3	5
CS	221	SQL Server Administration	5
CS	223	Unix/Linux	5
CS	260	Data Structures in C++	5
CS	261	Visual C++	5
CS	262	Game Programming Design	5
CS	270	Data Structures in C#	5
<b>Subtotal.</b>			<b>45</b>

### General Education

Course	No.	Course Title	Credits
ENGL&	101	English Composition I	5
MATH	106+	MATH 106 <b>or</b> above	5

### Psychology or Sociology (select 5 credits)

PSYC&	100	General Psychology <b>or</b>	5
SOC&	101	Intro to Sociology	5

### Speech (select 3-5 credits)

CMST	101	Speech Essentials <b>or</b>	3
CMST&	220	Public Speaking <b>or</b>	5
CMST	110	Communication Behavior <b>or</b>	3
CMST&	210	Interpersonal Communication <b>or</b>	5
CMST	260	Multicultural Communications	5

**Subtotal.** 18-20

**Total Credits Required.** 98-100

Note: \*MATH 095 or MATH 098 with minimum grade 2.0 is prerequisite for all programming classes. Students must receive minimum 2.0 in all CS courses, except as noted above.

## C++ Programming

PROFESSIONAL TECHNICAL

One-Year Certificate

### Major Courses

Course	No.	Course Title	Credits
CS&	131	Computer Science I C++	5
CS	162	C++2	5
CS	260	Data Structures in C++	5
CS	261	Visual C++ <b>or</b>	5
CS	262	Game Programming Design	5
<b>Subtotal.</b>			<b>20</b>

### Major Support

Course	No.	Course Title	Credits
CS	106	Database Systems	5
CS	206	Database Design	5
CS	221	SQL Server Administration <b>or</b>	5
CS	223	Unix/Linux	5
<b>Subtotal.</b>			<b>15</b>

### General Education

Course	No.	Course Title	Credits
ENGL&	101	English Composition I	5
MATH	106+	MATH 106 <b>or</b> above	5

### Psychology or Sociology (select 5 credits)

PSYC&	100	General Psychology <b>or</b>	5
SOC&	101	Intro to Sociology	5

### Speech (select 3-5 credits)

CMST	101	Speech Essentials <b>or</b>	3
CMST&	220	Public Speaking <b>or</b>	5
CMST	110	Communication Behavior <b>or</b>	3
CMST&	210	Interpersonal Communication <b>or</b>	5
CMST	260	Multicultural Communications	5

**Subtotal.** 18-20

**Total Credits Required.** 53-55

## C# .Net Programming

PROFESSIONAL TECHNICAL

One-Year Certificate

### Major Courses

Course	No.	Course Title	Credits
CS	171	C# 1	5
CS	172	C# 2	5
CS	262	Game Programming Design	5
CS	270	Data Structures in C#	5
<b>Subtotal.</b>			<b>20</b>

### Major Support

Course	No.	Course Title	Credits
CS	106	Database Systems	5
CS	206	Database Design	5
CS	221	SQL Server Administration <b>or</b>	5
CS	223	Unix/Linux	5
<b>Subtotal.</b>			<b>15</b>

### General Education

Course	No.	Course Title	Credits
ENGL&	101	English Composition I	5
MATH	106+	MATH 106 <b>or</b> above	5

### Psychology or Sociology (select 5 credits)

PSYC&	100	General Psychology <b>or</b>	5
SOC&	101	Intro to Sociology	5

### Speech (select 3-5 credits)

CMST	101	Speech Essentials <b>or</b>	3
CMST&	220	Public Speaking <b>or</b>	5
CMST	110	Communication Behavior <b>or</b>	3
CMST&	210	Interpersonal Communication <b>or</b>	5
CMST	260	Multicultural Communications	5

**Subtotal.** 18-20

**Total Credits Required.** 53-55



## VB.Net Programming

PROFESSIONAL TECHNICAL

One-Year Certificate

### Major Courses

Course	No.	Course Title	Credits
CS	102*	Visual Basic 1	5
CS	202	Visual Basic 2	5
CS	212	Visual Basic 3	5
<b>Subtotal.</b>			<b>15</b>

### Major Support

Course	No.	Course Title	Credits
CS	106	Database Systems	5
CS	206	Database Design	5
CS	221	SQL Server Administration	5
CS	110	Windows Operating Systems <b>or</b>	5
CS	223	Unix/Linux	5
<b>Subtotal.</b>			<b>20</b>

### General Education

Course	No.	Course Title	Credits
ENGL&	101	English Composition I	5
MATH	106+	MATH 106 <b>or</b> above	5

### Psychology or Sociology (select 5 credits)

PSYC&	100	General Psychology <b>or</b>	5
SOC&	101	Intro to Sociology	5

### Speech (select 3-5 credits)

CMST	101	Speech Essentials <b>or</b>	3
CMST&	220	Public Speaking <b>or</b>	5
CMST	110	Communication Behavior <b>or</b>	3
CMST&	210	Interpersonal Communication <b>or</b>	5
CMST	260	Multicultural Communications	5

**Subtotal. . . 18-20**

**Total Credits Required. . . 53-55**

**Note:** \*MATH 095 or MATH 098 with minimum grade 2.0 is prerequisite for all programming classes. Students must receive minimum 2.0 in all CS courses, except as noted above.



## Contemporary Civilization

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<http://www.columbiabasin.edu/home/index.asp?page=827>

**Department Overview:** Introduces students to a wide range of issues of public and academic significance including reading involving various traditions of argument with a focus on selected European traditions of moral, political, religious, and social thought.



## Criminal Justice and Forensics

<http://www.columbiabasin.edu/criminaljustice>

**Department Overview:** This program focuses on the need for a broad background of educational experience. The highly complex and constantly changing lifestyle of our society demands that the criminal justice person understands the principles of human behavior and communication, as well as the nature of law enforcement's function.

The Associate degree program is designed to prepare the individual for a career in criminal justice by providing students with the background necessary to function at the entry level and to advance to the limits of their ability. A large number of related criminal justice career fields and programs are open to graduates of this program.

Students must obtain an overall average GPA of 2.3 or higher in the criminal justice Major Course section of the degree, and students must also obtain an overall average GPA of 2.0 or higher for successful degree completion.

Students not expressly interested in careers in law enforcement, but interested in learning more about individual rights, the law, and the criminal justice system are encouraged to examine the Introduction to Criminal Justice, Criminal Law, and Constitutional Law classes.

At the end of the program, successful students will be able to:

- compete for entry-level jobs in criminal justice;
- apply criminal justice theories to contemporary policy and practice;
- resolve conflict in a variety of situations;
- identify cultural differences and how those differences affect decisions and behavior;
- apply high ethical standards to criminal justice case studies and simulations;
- apply criminal laws as a criminal justice worker in a variety of case studies or simulations.

CBC's Criminal Forensic Science program combines both the field of science and the field of criminal justice. The Forensic Science degree prepares the student for a career as a scientist in a forensic laboratory. CBC's Forensic Science program offers a two-year degree for students who plan to obtain a chemistry or bio/chemistry degree from a four-year university. The Forensic Science degree combines courses of investigation, evidence, criminal law, and procedures with science courses of chemistry, calculus, analytic geometry, and quantitative analysis. Upon completion of a four-year degree in chemistry or bio/chemistry from an accredited university, the student will be able to apply for entry-level positions in forensic laboratories that specialize in both criminal and civil evidence analysis.

### Degrees:

**Associate in Applied Science in Forensics**

**Associate in Applied Science in Criminal Justice**

### Associate of Applied Science in Criminal Justice

The program prepares students for a career in criminal justice by providing them with the background needed to function in entry-level positions, develop professionally, or continue their education at a four-year institution. Instruction includes traffic control, criminal investigation, criminal justice, criminal law, organization and administration, constitutional law, alcohol/drug pharmacology, criminal evidence, delinquent behavior, and administration of justice.

**Transferability:** The Associate degree in Applied Arts and Sciences is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions in Washington state. Selected universities maintain agreements providing for full credit transfer of some AAS degrees.

## Associate in Applied Science in Criminal Justice

PROFESSIONAL TECHNICAL

### Major Courses

Course No.	Course Title	Credits
CJ& . . . 101. . . . .	Intro to Criminal Justice . . . . .	3
CJ& . . . 110. . . . .	Criminal Law . . . . .	5
CJ . . . 134. . . . .	Organization/Administration . . . . .	5
CJ . . . 135. . . . .	Traffic Control . . . . .	5
CJ . . . 136. . . . .	Delinquent Behavior/Youth . . . . .	3
CJ . . . 137. . . . .	Constitutional Law . . . . .	5
CJ . . . 232. . . . .	Criminal Investigation . . . . .	5
CJ . . . 234. . . . .	Criminal Evidence . . . . .	3
CJ& . . . 240. . . . .	Intro to Forensic Science . . . . .	5
CJ . . . 222. . . . .	Alcohol/Drug Pharmacology/Physiology . . . . .	3
<b>Subtotal. . . . .</b>		<b>42</b>

### General Education

Course No.	Course Title	Credits
ENGL& . . 101. . . . .	English Composition I . . . . .	5

### English (select 5 credits)

ENGL& . . 102. . . . .	Composition II <b>or</b> . . . . .	5
ENGL& . . 235. . . . .	Technical Writing . . . . .	5
Social Science Courses . . . . .		15
*MATH. . 106+ . . . . .	MATH 106 <b>or</b> above . . . . .	5

### Speech (select 3-5 credits)

CMST. . . 101. . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST& . . 220. . . . .	Public Speaking <b>or</b> . . . . .	5
CMST. . . 110. . . . .	Communication Behavior <b>or</b> . . . . .	3
CMST& . . 210. . . . .	Interpersonal Communication <b>or</b> . . . . .	5
CMST. . . 260. . . . .	Multicultural Communications . . . . .	5
CA/CS . . 100+ . . . . .	Computer Science course(s) . . . . .	4-5

### Science (10 credits)

### Humanities (15 credits)

\*To be approved by department

**Subtotal. . . . . 62-65**

**Total Credits Required. . . 104-107**



## Associate in Applied Science in Forensic Science

PROFESSIONAL TECHNICAL

### Major Courses

Course	No.	Course Title	Credits
CJ&	110	Criminal Law	5
CJ	137	Constitutional Law	5
CJ	232	Criminal Investigation	5
CJ	234	Criminal Evidence	3
CJ&	240	Intro to Forensic Science	5
<b>Subtotal.</b>			<b>23</b>

### Major Support

Course	No.	Course Title	Credits
MATH&	144	Precalculus I and II <b>or</b>	5
MATH&	141 & 142	Precalculus I and II (both courses must be completed)	10
MATH&	151 & 152	Calculus I & II	10
MATH&	146	Introduction to Stats	5
CHEM&	140/140L*	General Chemistry Prep w/Lab (If not completed in high school)	5
CHEM&	161	General Chemistry I w/Lab	5
CHEM&	161L*	General Chemistry I Lab	0
CHEM&	162	General Chemistry II w/Lab	5
CHEM&	162L*	General Chemistry II Lab	0
CHEM&	163	General Chemistry III w/Lab	5
CHEM&	163L*	General Chemistry III Lab	0
CHEM	254	Quantitative Analysis	2
CHEM	264	Quantitative Analysis Lab	3
CHEM	255	Instrumental Analysis	2
CHEM	265	Instrumental Analysis Lab	3
<b>Subtotal.</b>			<b>45-55</b>

### General Education

Course	No.	Course Title	Credits
ENGL&	101	English Composition I	5
ENGL&	235	Technical Writing	5
MATH	(See degree Major Courses above)		
CS&	131	Computer Science I C++	5
Humanities, Social Science, Natural Science			15

(No more than 10 credits from any one department)

### Speech (select 3-5 credits)

CMST	101	Speech Essentials <b>or</b>	3
CMST&	220	Public Speaking <b>or</b>	5
CMST	110	Communications Behavior <b>or</b>	3
CMST&	210	Interpersonal Communication <b>or</b>	5
CMST	260	Multicultural Communications	5

**Subtotal. . . 33-35**

**Total Credits Required. . 106-118**

*Important: \*you must sign up for both lecture and lab courses to receive combined lecture and lab credits. Lab credits will display zero as they are included in the lecture credits.*



## Culinary and Food Services

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<http://www.columbiabasin.edu/home/index.asp?page=747>

**Department Overview:** Students who begin their technical training in Culinary Arts at Tri-Tech Skills Center and successfully earn the equivalent Tech Prep college credits have the opportunity to complete a certificate program at Columbia Basin College. To earn the equivalent college credits, one must enroll in the CBC Tech Prep Dual Credit program while attending the year-long high school Tri-Tech class and attain a B (85 percent) or better grade for the class. The certificate courses help to prepare students for entry level culinary positions in the food industry and/or preparation for further education in the fields of food science or hospitality.

Upon completion of the general education and elective requirement courses at CBC, students are eligible to apply for a certificate through CBC. Questions concerning this certificate should be directed to the CBC Tech Prep Coordinator at (509) 542-4559.

## Dental Assisting

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**Department Overview:** The Dental Assisting program is a one-year certificate that prepares students to work in the dynamic world of dentistry. Students will learn such things as patient management, dental materials, and assisting skills during dental procedures. The General Education Requirements are coordinated with the Dental Hygiene Associate of Applied Science degree allowing students to smoothly continue their education toward increased dental career opportunities. The major courses for Dental Assisting are available through the Tech Prep program at Tri-Tech Skills Center and Clark County Skills Center. For more information on the certificate program, please contact the Health Sciences Division office.



## Dental Hygiene

<http://www.columbiabasin.edu/home/index.asp?page=788>

**Department Overview:** The Dental Hygiene program is a two-year Associate degree program of full-time classroom and clinical instruction. The program will enroll 18 students per year. The educational objective of the program is to prepare the student who, upon graduation and successful completion of the National Written Examination Board and Western Regional Clinical examination, will be able to serve the community within the state of Washington, and are able to be licensed to practice Dental Hygiene in 11 western states. For more information, contact (509) 542-4571.

### Program Costs

Including standard student fees, the program requires an expenditure of approximately \$12,000 during the two-year program. These figures are estimates and subject to change. Approximately \$6,000 will be needed at the beginning of the first quarter. During the last year of the program, students are eligible to take both the National written Dental Hygiene Board exam and the Western Regional Board Exams in clinical dental hygiene, restorative, and the delivery of local anesthesia which have additional costs, prior to being licensed to practice as a Dental Hygienist. Prior to being accepted into the program, students must complete all of the 46 credits of prerequisite college courses with a minimum GPA of 2.6 or higher:

- Intro to Sociology, SOC& 101
- Nutrition, NUTR& 101
- Human A&P 1, BIOL& 241
- Human A&P 1 Lab, BIOL& 241L
- Human A&P 2, BIOL& 242
- Human A&P 2 Lab, BIOL& 242L
- Microbiology, BIOL& 260
- Microbiology Lab, BIOL& 260L
- English Composition, ENGL& 101
- Introduction to Stats, MATH& 143
- General Psychology, PSYC& 100
- Speech Essentials/Communication Behavior, CMST 101/CMST 110

### Pre-admission Requirement: Fall 2007 and later

Students applying for admission into the Dental Hygiene program for Fall 2007 or later will have the pre-admission requirement of CHEM& 121/ CHEM& 121L. CHEM& 110/110L will no longer be accepted as an alternative pre-admission course. Satisfactory physical exam, required immunization records, current CPR Health Care Provider card, and a satisfactory Washington State Patrol criminal history background check must be on file before the beginning of Dental Hygiene classes. Students must complete an application to the program. Applications are accepted by January 31st every year for the following September class enrollment.

### Priority Admissions Systems for the Qualified Applicants to the Program:

- College cumulative GPA
- College science GPA
- Dental experience
- Health Occupations Basic Education Test (HOBET) results
- Special considerations (previous degree, volunteer experience, additional chemistry classes).

## Associate in Applied Science in Dental Hygiene

PROFESSIONAL TECHNICAL

### Major Courses

Course	No.	Course Title	Credits
DHYG	110	Dental Anatomy	1
DHYG	111	Histology/Embriology	1
DHYG	112	Oral Radiology I	1

DHYG	1121	Oral Radiology I Lab	1
DHYG	113	Clinical Dental Hygiene Techniques I	2
DHYG	1131	Clinical Dental Hygiene Techniques I Lab	3
DHYG	114	Dental Health Education	1
DHYG	115	Dental Materials	1
DHYG	1151	Dental Materials Lab	1
DHYG	116	Head and Neck Anatomy	2
DHYG	120	Medical Emergencies in Dentistry	2
DHYG	121	General Pathology	1
DHYG	122	Oral Radiology II	1
DHYG	1221	Oral Radiology II Lab	1
DHYG	123	Clinical Dental Hygiene Techniques II	1
DHYG	1231	Clinical Dental Hygiene Techniques II Lab	4
DHYG	125	Restorative Dentistry I	1
DHYG	1251	Restorative Dentistry I Lab	1
DHYG	126	Pain Control in Dentistry	2
DHYG	1261	Pain Control in Dentistry Lab	2
DHYG	127	Pharmacology	2
DHYG	131	Oral Pathology	2
DHYG	132	Periodontics I	2
DHYG	134	Clinical Dental Hygiene Techniques III	1
DHYG	1341	Clinical Dental Hygiene Techniques III Lab	4
DHYG	135	Restorative Dentistry II	1
DHYG	1351	Restorative Dentistry II Lab	2
DHYG	136	Patient Management	2
DHYG	144	Clinical Dental Hygiene Techniques IV	1
DHYG	1441	Clinical Dental Hygiene Techniques IV Lab	5
DHYG	246	Restorative Dentistry III	1
DHYG	2461	Restorative Dentistry III Lab	2
DHYG	211	Nutrition in Dentistry	1
DHYG	212	Advanced Clinical Topics	1
DHYG	214	Clinical Dental Hygiene Techniques V	1
DHYG	2141	Clinical Dental Hygiene Techniques V Lab	6
DHYG	215	Ethics and Jurisprudence, Practice Management	2
DHYG	221	Community Oral Health I	2
DHYG	2211	Community Oral Health I Lab	2
DHYG	222	Periodontics II	2
DHYG	224	Clinical Dental Hygiene Techniques VI	1
DHYG	2241	Clinical Dental Hygiene Techniques VI Lab	6
DHYG	234	Clinical Dental Hygiene Techniques VII	1
DHYG	2341	Clinical Dental Hygiene Techniques VII Lab	8
<b>Subtotal.</b>			<b>88</b>

### Major Support

Course	No.	Course Title	Credits
SOC&	101	Intro to Sociology	5
NUTR&	101	Nutrition	5
BIOL&	241	Human A&P 1 w/Lab	6
BIOL&	241L*	Human A&P 1 Lab	0
BIOL&	242	Human A&P 2 w/Lab	6
BIOL&	242L*	Human A&P 2 Lab	0
BIOL&	260	Microbiology w/Lab	6
BIOL&	260L*	Microbiology Lab	0
<b>Subtotal.</b>			<b>28</b>

### General Education

Course	No.	Course Title	Credits
ENGL&	101	English Composition I	5
MATH&	146	Introduction to Stats	5
PSYC&	100	General Psychology	5

### Speech (select 3-5 credits)

CMST	101	Speech Essentials <b>or</b>	3
CMST&	220	Public Speaking <b>or</b>	5
CMST	110	Communication Behavior <b>or</b>	3
CMST&	210	Interpersonal Communication <b>or</b>	5
CMST	260	Multicultural Communications	5
<b>Subtotal.</b>			<b>18-20</b>

**Total Credits Required. 134-136**

*Important: \*You must sign up for both lecture and lab courses to receive combined lecture and lab credits. Lab credits will display zero as they are included in the lecture credits.*



## Diagnostic Ultrasound Technology

**Department Overview:** Diagnostic medical sonographers use high-frequency sound waves (ultrasound) to create body images that show the shape and composition of body tissues. These images assist physicians in diagnosing disease, injury, or other physical conditions. Although many sonographers are trained to use ultrasound on all body parts, CBC plans to offer other specialty certificates including vascular sonography, echocardiography, abdominal and small parts sonography, obstetrics/gynecological sonography, and breast sonography.

The certificate programs would have common course requirements and module specialties areas. Certificates offered would include: Abdomen and Small Parts, OB/GYN, Breast Sonography, Breast Sonography for Mammographers, Adult Echocardiography, and/or Cardiovascular sonography options. The Cardiovascular Sonography option would also be available to current Registered Diagnostic Medical Sonographer (RDMS) credentialed individuals.

For additional information, contact the Health Sciences Division at (509) 544-8300.

### Abdomen and Small Parts Sonography

#### Certificate

#### Major Courses

##### General Sonography Core Courses

Course No.	Course Title	Credits
DUTEC . 105 . . . . .	Pathophysiology I . . . . .	3
DUTEC . 106 . . . . .	Pathophysiology II . . . . .	3
DUTEC . 107 . . . . .	Human Cross-Sectional Anatomy . . . . .	7
DUTEC . 170 . . . . .	Ultrasound Physics & Instrumentation I . . . . .	3
DUTEC . 171 . . . . .	Ultrasound Physics & Instrumentation II . . . . .	3
DUTEC . 135 . . . . .	Ultrasound Equipment I . . . . .	3
DUTEC . 145 . . . . .	Ultrasound Equipment II . . . . .	4
DUTEC . 165 . . . . .	Ultrasound Equipment III . . . . .	3
<b>Subtotal. . . . .</b>		<b>29</b>

#### Support Courses

##### Abdomen and Small Parts Sonography Support Courses

Course No.	Course Title	Credits
DUTEC . 110 . . . . .	Ultrasound I: Abdominal Scanning & Techniques . . . . .	4
DUTEC . 130 . . . . .	Ultrasound III: Small Parts/Intraoperative Techniques . . . . .	3
<b>Subtotal. . . . .</b>		<b>7</b>

##### Practicum Courses

Course No.	Course Title	Credits
DUTEC . 210 . . . . .	Clinical Practicum I . . . . .	10
DUTEC . 220 . . . . .	Clinical Practicum II . . . . .	10
DUTEC . 230 . . . . .	Clinical Practicum III . . . . .	10
<b>Subtotal. . . . .</b>		<b>30</b>

#### General Education

##### English (select 5 credits)

Course No.	Course Title	Credits
ENGL& . 101 . . . . .	English Composition I <b>or</b> . . . . .	5
ENGL . 103 . . . . .	Writing in the Workplace . . . . .	5
MATH . 100+ . . . . .	Above MATH 100 . . . . .	5

##### Psychology or Sociology (select 3-5 credits)

PSYC . 103 . . . . .	Applied Psychology <b>or</b> . . . . .	3
PSYC& . 100 . . . . .	General Psychology <b>or</b> . . . . .	5
SOC& . 101 . . . . .	Intro to Sociology . . . . .	5

##### Speech (select 3-5 credits)

CMST . 101 . . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST& . 220 . . . . .	Public Speaking <b>or</b> . . . . .	5
CMST . 110 . . . . .	Communication Behavior <b>or</b> . . . . .	3
CMST& . 210 . . . . .	Interpersonal Communication <b>or</b> . . . . .	5
CMST . 260 . . . . .	Multicultural Communications . . . . .	5

**Subtotal. . . . . 16-20**

**Total Credits Required. . . . . 82-86**

## Adult Echocardiography Sonography

#### Certificate

#### Major Courses

##### General Sonography Core Courses

Course No.	Course Title	Credits
DUTEC . 107 . . . . .	Human Cross-Sectional Anatomy . . . . .	7
DUTEC . 170 . . . . .	Ultrasound Physics & Instrumentation I . . . . .	3
DUTEC . 171 . . . . .	Ultrasound Physics & Instrumentation II . . . . .	3
DUTEC . 135 . . . . .	Ultrasound Equipment I . . . . .	3
DUTEC . 145 . . . . .	Ultrasound Equipment II . . . . .	4
DUTEC . 165 . . . . .	Ultrasound Equipment III . . . . .	3
<b>Subtotal. . . . .</b>		<b>23</b>

#### Support Courses

##### Adult Echocardiography Sonography Support Courses

Course No.	Course Title	Credits
DUTEC . 150 . . . . .	Basic Echocardiography . . . . .	3
DUTEC . 155 . . . . .	Ultrasound IV: Echocardiography . . . . .	3
DUTEC . 112 . . . . .	Pathophysiology III . . . . .	3
DUTEC . 113 . . . . .	Pathophysiology IV . . . . .	3
DUTEC . 181 . . . . .	Advanced Studies: Echo-Vascular . . . . .	3
<b>Subtotal. . . . .</b>		<b>15</b>

#### Practicum Courses

Course No.	Course Title	Credits
DUTEC . 210 . . . . .	Clinical Practicum I . . . . .	10
DUTEC . 220 . . . . .	Clinical Practicum II . . . . .	10
DUTEC . 230 . . . . .	Clinical Practicum III . . . . .	10
<b>Subtotal. . . . .</b>		<b>30</b>

#### General Education

##### English (select 5 credits)

Course No.	Course Title	Credits
ENGL& . 101 . . . . .	English Composition I <b>or</b> . . . . .	5
ENGL . 103 . . . . .	Writing in the Workplace . . . . .	5
MATH . 100+ . . . . .	Above MATH 100 . . . . .	5

##### Psychology or Sociology (select 3-5 credits)

PSYC . 103 . . . . .	Applied Psychology <b>or</b> . . . . .	3
PSYC& . 100 . . . . .	General Psychology <b>or</b> . . . . .	5
SOC& . 101 . . . . .	Intro to Sociology . . . . .	5

##### Speech (select 3-5 credits)

CMST . 101 . . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST& . 220 . . . . .	Public Speaking <b>or</b> . . . . .	5
CMST . 110 . . . . .	Communication Behavior <b>or</b> . . . . .	3
CMST& . 210 . . . . .	Interpersonal Communication <b>or</b> . . . . .	5
CMST . 260 . . . . .	Multicultural Communications . . . . .	5

**Subtotal. . . . . 16-20**

**Total Credits Required. . . . . 84-88**



## Associate in Applied Science in Diagnostic Ultrasound

PROFESSIONAL TECHNICAL

### Major Courses

Course No.	Course Title	Credits
DUTEC . 101 . . . . .	Concepts of Patient Care . . . . .	3
DUTEC . 105 . . . . .	Pathophysiology I . . . . .	3
DUTEC . 106 . . . . .	Pathophysiology II . . . . .	3
DUTEC . 107 . . . . .	Human Cross-Sectional Anatomy . . . . .	7
DUTEC . 110 . . . . .	Ultrasound I: Abdominal Scanning & Techniques . . . . .	4
DUTEC . 112 . . . . .	Pathophysiology III . . . . .	3
DUTEC . 113 . . . . .	Pathophysiology IV . . . . .	3
DUTEC . 120 . . . . .	Ultrasound II: Obstetrics & Gynecological Techniques . . . . .	5
DUTEC . 130 . . . . .	Ultrasound III: Small Parts/Intraoperative Techniques . . . . .	3
DUTEC . 135 . . . . .	Ultrasound Equipment I . . . . .	3
DUTEC . 145 . . . . .	Ultrasound Equipment II . . . . .	4
DUTEC . 150 . . . . .	Basic Echocardiography . . . . .	3
DUTEC . 155 . . . . .	Ultrasound IV: Echocardiography . . . . .	3
DUTEC . 160 . . . . .	Ultrasound V: Peripheral Vascular Scanning Techniques . . . . .	3
DUTEC . 165 . . . . .	Ultrasound Equipment III . . . . .	3
DUTEC . 170 . . . . .	Ultrasound Physics & Instrumentation I . . . . .	3
DUTEC . 171 . . . . .	Ultrasound Physics & Instrumentation II . . . . .	3
DUTEC . 180 . . . . .	Advanced Studies: General Ultrasound (general ultrasound students only) <b>or</b> . . . . .	3
DUTEC . 181 . . . . .	Advanced Studies: Echo-Vascular (echocardiography and vascular students only) . . . . .	3
DUTEC . 210 . . . . .	Clinical Practicum I . . . . .	10
DUTEC . 220 . . . . .	Clinical Practicum II . . . . .	10
DUTEC . 230 . . . . .	Clinical Practicum III . . . . .	10
DUTEC . 240 . . . . .	Clinical Practicum IV . . . . .	10
<b>Subtotal. . . . .</b>		<b>102</b>

### Support Courses

Course No.	Course Title	Credits
BIOL& . 241 . . . . .	Human A&P 1 w/Lab . . . . .	6
BIOL& . 241L* . . . . .	Human A&P 1 Lab . . . . .	0
BIOL& . 242 . . . . .	Human A&P 2 w/Lab . . . . .	6
BIOL& . 242L* . . . . .	Human A&P 2 Lab . . . . .	0
HIT . 147 . . . . .	Medical Terminology . . . . .	5
PHYS& . 100 . . . . .	Physics Non-Sci Majors . . . . .	4
PHYS& . 101 . . . . .	Physics Lab Non-Sci Majors . . . . .	1
<b>Subtotal. . . . .</b>		<b>22</b>

### General Education

Course No.	Course Title	Credits
ENGL& . 101 . . . . .	English Composition I . . . . .	5
MATH . 106+ . . . . .	Math 106 <b>or</b> above . . . . .	5
PSYC . 100+ . . . . .	PSYC 100 <b>or</b> above . . . . .	3-5

### Speech (select 3-5 credits)

CMST . 101 . . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST& . 220 . . . . .	Public Speaking <b>or</b> . . . . .	5
CMST . 110 . . . . .	Communication Behavior <b>or</b> . . . . .	3
CMST& . 210 . . . . .	Interpersonal Communication <b>or</b> . . . . .	5
CMST . 260 . . . . .	Multicultural Communications . . . . .	5

**Subtotal. . . . . 16-20**

**Total Credits Required. . . . . 140-144**

*Important: \*You must sign up for both lecture and lab courses to receive combined lecture and lab credits. Lab credits will display zero as they are included in the lecture credits.*

## Breast Sonography for Mammographers

PROFESSIONAL TECHNICAL

### Short-Term Certificate

*Eligibility requirements: current American Registry of Radiologic Technologist (ARRT) Mammography certification.*

### Major Courses

Course No.	Course Title	Credits
DUTEC . 250 . . . . .	Ultrasound Physics for Mammographers . . . . .	3
DUTEC . 251 . . . . .	Breast Ultrasound for Mammographers . . . . .	3
DUTEC . 252 . . . . .	Ultrasound Equipment/Knobology for Mammographers . . . . .	2
<b>Subtotal. . . . .</b>		<b>8</b>

### Practicum Courses

Course No.	Course Title	Credits
DUTEC . 210 . . . . .	Clinical Practicum I . . . . .	10
DUTEC . 220 . . . . .	Clinical Practicum II . . . . .	10
<b>Subtotal. . . . .</b>		<b>20</b>
<b>Total Credits Required. . . . .</b>		<b>28</b>

## Breast Sonography

PROFESSIONAL TECHNICAL

### Short-Term Certificate

*Admission to program: prospective students must have completed a two-year allied health program that is patient-care related. Allied health occupations include, but are not limited to, diagnostic medical sonographer, radiologic technologist, respiratory therapist, radiation therapist, occupational therapist, physical therapist, nuclear medicine technologist, and registered nurse, or a bachelor's degree and successfully completed human anatomy and physiology courses with a 2.0 grade or better.*

### Major Courses

Course No.	Course Title	Credits
DUTEC . 250 . . . . .	Ultrasound Physics for Mammographers . . . . .	3
DUTEC . 251 . . . . .	Breast Ultrasound for Mammographers . . . . .	3
DUTEC . 252 . . . . .	Ultrasound Equipment/Knobology for Mammographers . . . . .	2
<b>Subtotal. . . . .</b>		<b>8</b>

### Practicum Courses

Course No.	Course Title	Credits
DUTEC . 210 . . . . .	Clinical Practicum I . . . . .	10
DUTEC . 220 . . . . .	Clinical Practicum II . . . . .	10
<b>Subtotal. . . . .</b>		<b>20</b>
<b>Total Credits Required. . . . .</b>		<b>28</b>



## OB/GYN Sonography Certificate

### Major Courses

#### General Sonography Core Courses

Course No.	Course Title	Credits
DUTEC . 105 . . . . .	Pathophysiology I . . . . .	3
DUTEC . 106 . . . . .	Pathophysiology II . . . . .	3
DUTEC . 107 . . . . .	Human Cross-Sectional Anatomy . . . . .	7
DUTEC . 170 . . . . .	Ultrasound Physics & Instrumentation I . . . . .	3
DUTEC . 171 . . . . .	Ultrasound Physics & Instrumentation II . . . . .	3
DUTEC . 135 . . . . .	Ultrasound Equipment I . . . . .	3
DUTEC . 145 . . . . .	Ultrasound Equipment II . . . . .	4
DUTEC . 165 . . . . .	Ultrasound Equipment III . . . . .	3
<b>Subtotal.</b> . . . .		<b>29</b>

### Support Courses

#### OB/GYN Sonography Support Courses

Course No.	Course Title	Credits
DUTEC . 120 . . . . .	Ultrasound II: Obstetrics & Gynecological Techniques . . . . .	5
DUTEC . 180 . . . . .	Advanced Studies: General Ultrasound . . . . .	3
<b>Subtotal.</b> . . . .		<b>8</b>

### Practicum Courses

Course No.	Course Title	Credits
DUTEC . 210 . . . . .	Clinical Practicum I . . . . .	10
DUTEC . 220 . . . . .	Clinical Practicum II . . . . .	10
DUTEC . 230 . . . . .	Clinical Practicum III . . . . .	10
<b>Subtotal.</b> . . . .		<b>30</b>

### General Education

#### English (select 5 credits)

Course No.	Course Title	Credits
ENGL& . 101 . . . . .	English Composition I <b>or</b> . . . . .	5
ENGL . 103 . . . . .	Writing in the Workplace . . . . .	5
MATH . 100+ . . . . .	Above MATH 100 . . . . .	5

#### Psychology or Sociology (select 3-5 credits)

PSYC . 103 . . . . .	Applied Psychology <b>or</b> . . . . .	3
PSYC& . 100 . . . . .	General Psychology <b>or</b> . . . . .	5
SOC& . 101 . . . . .	Intro to Sociology . . . . .	5

#### Speech (select 3-5 credits)

CMST . 101 . . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST& . 220 . . . . .	Public Speaking <b>or</b> . . . . .	5
CMST . 110 . . . . .	Communication Behavior <b>or</b> . . . . .	3
CMST& . 210 . . . . .	Interpersonal Communication <b>or</b> . . . . .	5
CMST . 260 . . . . .	Multicultural Communications . . . . .	5
<b>Subtotal.</b> . . . .		<b>16-20</b>

**Total Credits Required. . . 83-87**

## Vascular Sonography Certificate

### Major Courses

#### General Sonography Core Courses

Course No.	Course Title	Credits
DUTEC . 107 . . . . .	Human Cross-Sectional Anatomy . . . . .	7
DUTEC . 170 . . . . .	Ultrasound Physics & Instrumentation I . . . . .	3
DUTEC . 171 . . . . .	Ultrasound Physics & Instrumentation II . . . . .	3
DUTEC . 135 . . . . .	Ultrasound Equipment I . . . . .	3
DUTEC . 145 . . . . .	Ultrasound Equipment II . . . . .	4
DUTEC . 165 . . . . .	Ultrasound Equipment III . . . . .	3
<b>Subtotal.</b> . . . .		<b>23</b>

### Support Courses

#### Vascular Sonography Support Courses

Course No.	Course Title	Credits
DUTEC . 160 . . . . .	Ultrasound V: Peripheral Vascular Scanning Techniques . . . . .	3
DUTEC . 112 . . . . .	Pathophysiology III . . . . .	3
DUTEC . 113 . . . . .	Pathophysiology IV . . . . .	3
DUTEC . 181 . . . . .	Advanced Studies: Echo-Vascular . . . . .	3
<b>Subtotal.</b> . . . .		<b>12</b>

### Practicum Courses

Course No.	Course Title	Credits
DUTEC . 210 . . . . .	Clinical Practicum I . . . . .	10
DUTEC . 220 . . . . .	Clinical Practicum II . . . . .	10
DUTEC . 230 . . . . .	Clinical Practicum III . . . . .	10
<b>Subtotal.</b> . . . .		<b>30</b>

### General Education

#### English (select 5 credits)

Course No.	Course Title	Credits
ENGL& . 101 . . . . .	English Composition I <b>or</b> . . . . .	5
ENGL . 103 . . . . .	Writing in the Workplace . . . . .	5
MATH . 100+ . . . . .	Above MATH 100 . . . . .	5

#### Psychology or Sociology (select 3-5 credits)

PSYC . 103 . . . . .	Applied Psychology <b>or</b> . . . . .	3
PSYC& . 100 . . . . .	General Psychology <b>or</b> . . . . .	5
SOC& . 101 . . . . .	Intro to Sociology . . . . .	5

#### Speech (select 3-5 credits)

CMST . 101 . . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST& . 220 . . . . .	Public Speaking <b>or</b> . . . . .	5
CMST . 110 . . . . .	Communication Behavior <b>or</b> . . . . .	3
CMST& . 210 . . . . .	Interpersonal Communication <b>or</b> . . . . .	5
CMST . 260 . . . . .	Multicultural Communications . . . . .	5
<b>Subtotal.</b> . . . .		<b>16-20</b>

**Total Credits Required. . . 81-85**



## Early Childhood Education

<http://www.columbiabasin.edu/ece>

**Department Overview:** Early Childhood Education (ECE) is a vocational program designed to prepare students for employment in a variety of early childhood settings. Course content focuses on the educational and developmental needs of children from birth to age eight. The ECE program combines theory and practical experience with emphasis placed on active student involvement. Course work includes participation, observation and practical experience.

Students may enroll in the ECE program at the beginning of any quarter on either a full or part-time basis. Most courses are offered in the evenings or on Saturdays to accommodate the varied schedules of working students.

### Degrees and Certificates Offered

- Associate Degree of Applied Science in Early Childhood Education (AAS) - 92-94 credits
- Early Childhood Education Certificate - 47 credits
- Early Childhood Education Child Care Certificate of Completion - 15 credits
- Child Development Associate (CDA) - Certificate of Completion - 10 credits
- State Training and Registry System (STARS) - Certificate of Completion - variable credits

### Program Goals

By the end of the program successful students will be able to use both practical skills and ECE knowledge when working in an early childhood setting to:

- implement basic principles of child growth and development;
- apply current ECE concepts to plan curriculum activities;
- use appropriate child guidance techniques;
- use appropriate first aid, health and safety techniques;
- demonstrate sensitivity to multi-cultural and special needs issues;
- respond ethically and professionally.

## Associate in Applied Science in Early Childhood Education

PROFESSIONAL TECHNICAL

### Major Courses

Course No.	Course Title	Credits
ECE . . . 101. . . . .	Issues and Trends in ECE. . . . .	3
ECE . . . 102. . . . .	Introduction to Curriculum . . . . .	3
ECE . . . 103. . . . .	Art . . . . .	3
ECE . . . 104. . . . .	Child Guidance & Communications Techniques . . . . .	3
EDUC& . . 114. . . . .	Child Development. . . . .	3
EDUC& . . 203. . . . .	Exceptional Child. . . . .	3
ECE . . . 120. . . . .	Children's Literature . . . . .	3
ECE . . . 122. . . . .	Math & Science . . . . .	3-5
ECE . . . 126. . . . .	Literacy and Language . . . . .	3
ECE . . . 127. . . . .	Early Childhood Music, Movement & Motor Activity. . . . .	3
ECE . . . 151. . . . .	Supervised Practicum . . . . .	3
ECE . . . 1511 . . . . .	Supervised Practicum Lab. . . . .	1
ECE . . . 202. . . . .	Curriculum Development . . . . .	3
ECE . . . 205. . . . .	Infant & Toddler Education . . . . .	3
ECE . . . 209. . . . .	Parent Involvement . . . . .	3
ECE . . . 230. . . . .	First Aid, Health, Safety & Nutrition . . . . .	3
<b>Subtotal. . . . .</b>		<b>46-48</b>

### Major Support

*A total of 28 credits required in the major support area. A minimum of 10 credits must be from ECE courses.*

*\*A maximum of 5 credits of ECE Special Studies Lab will be accepted. Other electives may include ECE, Education, Humanities or Social and Behavioral Science courses approved by the ECE faculty advisor. These classes could include:*

Course No.	Course Title	Credits
ECE . . . 105. . . . .	Physical Education . . . . .	3
ECE . . . 113. . . . .	STARS 20 Hour Basic Training . . . . .	2
ECE . . . 114. . . . .	STARS 10 Hour Continuing Education . . . . .	1
ECE . . . 116. . . . .	ECE Special Topics Symposium . . . . .	1-3
ECE . . . 117. . . . .	ECE Seminar. . . . .	1-3
ECE . . . 1172 . . . . .	Preschool Seminar . . . . .	1-3
ECE . . . 118. . . . .	Skills Training . . . . .	1-3
ECE . . . 119. . . . .	Workshop . . . . .	1-3
ECE . . . 125. . . . .	Instructional Media . . . . .	3
ECE . . . 141. . . . .	Child Development Associate <b>or</b> . . . . .	10
ECE . . . 1412-1419 . . . . .	Child Development Associate. . . . .	1-10
ECE . . . 201. . . . .	Multicultural Education . . . . .	3
ECE . . . 213. . . . .	Materials Construction. . . . .	3
ECE . . . 215. . . . .	Child Care Administration . . . . .	3
ECE . . . 216. . . . .	Advanced Special Topics. . . . .	1-3
ECE . . . 217. . . . .	Advanced Seminar . . . . .	1-3
ECE . . . 218. . . . .	Advanced Skills Training. . . . .	1-3
ECE . . . 219. . . . .	Advanced Workshop . . . . .	1-3
ECE . . . 221. . . . .	Strategies for Teaching Special Needs . . . . .	3
ECE . . . 222. . . . .	Sign Language Level 1. . . . .	3
ECE . . . 223. . . . .	Sign Language Level 2. . . . .	3
ECE . . . 224. . . . .	Sign Language Level 3. . . . .	3
ECE . . . 289. . . . .	Special Studies . . . . .	1-15
ECE . . . 2892-2891 . . . . .	Special Studies Lab*. . . . .	1-3
ECE . . . 2899 . . . . .	Special Studies Lab*. . . . .	1-15
EDUC . . . 101. . . . .	Intro to Education . . . . .	4
<b>Subtotal. . . . .</b>		<b>28</b>

### General Education

Course No.	Course Title	Credits
ENGL& . . 101. . . . .	English Composition I . . . . .	5
PSYC& . . 100. . . . .	General Psychology . . . . .	5
MATH . . 108. . . . .	Math for Early Childhood Education . . . . .	5

### Speech (select 3 credits)

CMST. . . 101. . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST. . . 110. . . . .	Communication Behavior . . . . .	3
<b>Subtotal. . . . .</b>		<b>18</b>

**Total Credits Required. . . . . 92-94**

*It is important to stay in close contact with your ECE advisor. More information can be obtained from the Early Childhood Education office at 542-4640.*



# Program Offerings

## Early Childhood Education

PROFESSIONAL TECHNICAL  
One-Year Certificate

### Major Courses

Course No.	Course Title	Credits
ECE . . . 102 . . . . .	Introduction to Curriculum . . . . .	3
ECE . . . 104 . . . . .	Child Guidance & Communications Techniques . . . . .	3
EDUC& . . 114 . . . . .	Child Development . . . . .	3
EDUC& . . 203 . . . . .	Exceptional Child . . . . .	3
ECE . . . 151 . . . . .	Supervised Practicum . . . . .	3
ECE . . . 1511 . . . . .	Supervised Practicum Lab . . . . .	1
ECE . . . 230 . . . . .	First Aid, Health, Safety & Nutrition . . . . .	3
<b>Subtotal. . . . .</b>		<b>19</b>

### Major Support

Choose 10 credits from the following classes. \*A maximum of 5 credits of ECE Special Studies Lab will be accepted. ECE or EDUC elective credits could include:

Course No.	Course Title	Credits
ECE . . . 101 . . . . .	Issues and Trends in ECE . . . . .	3
ECE . . . 103 . . . . .	Art . . . . .	3
ECE . . . 105 . . . . .	Physical Education . . . . .	3
ECE . . . 113 . . . . .	STARS 20 Hour Basic Training . . . . .	2
ECE . . . 114 . . . . .	STARS 10 Hour Continuing Education . . . . .	1
ECE . . . 116 . . . . .	ECE Special Topics Symposium . . . . .	1-3
ECE . . . 117 . . . . .	ECE Seminar . . . . .	1-3
ECE . . . 1172 . . . . .	Preschool Seminar . . . . .	1-3
ECE . . . 118 . . . . .	Skills Training . . . . .	1-3
ECE . . . 119 . . . . .	Workshop . . . . .	1-3
ECE . . . 125 . . . . .	Instructional Media . . . . .	3
ECE . . . 126 . . . . .	Literacy and Language . . . . .	3
ECE . . . 127 . . . . .	Early Childhood Music, Movement & Motor Activity . . . . .	3
ECE . . . 141 . . . . .	Child Development Associate <b>or</b> . . . . .	10
ECE . . . 1412-1419 . . . . .	Child Development Associate . . . . .	1-10
ECE . . . 201 . . . . .	Multicultural Education . . . . .	3
ECE . . . 202 . . . . .	Curriculum Development . . . . .	3
ECE . . . 205 . . . . .	Infant & Toddler Education . . . . .	3
ECE . . . 209 . . . . .	Parent Involvement . . . . .	3
ECE . . . 213 . . . . .	Materials Construction . . . . .	3
ECE . . . 215 . . . . .	Child Care Administration . . . . .	3
ECE . . . 216 . . . . .	Advanced Special Topics . . . . .	1-3
ECE . . . 217 . . . . .	Advanced Seminar . . . . .	1-3
ECE . . . 218 . . . . .	Advanced Skills Training . . . . .	1-3
ECE . . . 219 . . . . .	Advanced Workshop . . . . .	1-3
ECE . . . 221 . . . . .	Strategies for Teaching Special Needs . . . . .	3
ECE . . . 222 . . . . .	Sign Language Level 1 . . . . .	3
ECE . . . 223 . . . . .	Sign Language Level 2 . . . . .	3
ECE . . . 224 . . . . .	Sign Language Level 3 . . . . .	3
ECE . . . 289 . . . . .	Special Studies . . . . .	1-15
ECE . . . 2891 . . . . .	Special Studies Lab* . . . . .	1-3
ECE . . . 2892-2899 . . . . .	Special Studies Lab* . . . . .	1-15
EDUC . . . 101 . . . . .	Introduction to Education . . . . .	4
<b>Subtotal. . . . .</b>		<b>10</b>

### General Education

Course No.	Course Title	Credits
ENGL& . . 101 . . . . .	English Composition I . . . . .	5
MATH . . 108 . . . . .	Math for Early Childhood Education . . . . .	5
PSYC& . . 100 . . . . .	General Psychology . . . . .	5

### Speech (select 3 credits)

CMST . . 101 . . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST . . 110 . . . . .	Communication Behavior . . . . .	3

**Subtotal. . . . . 18**

**Total Credits Required. . . . . 47**

It is important to stay in close contact with your ECE advisor. More information can be obtained from the Early Childhood Education office at 542-4640.

## Early Childhood Education Child Care

PROFESSIONAL TECHNICAL  
Certificate of Completion

### Major Courses

Course No.	Course Title	Credits
ECE . . . 102 . . . . .	Introduction to Curriculum . . . . .	3
ECE . . . 104 . . . . .	Child Guidance & Communication Techniques . . . . .	3
EDUC& . . 114 . . . . .	Child Development . . . . .	3
EDUC& . . 203 . . . . .	Exceptional Child . . . . .	3
ECE . . . 230 . . . . .	First Aid, Health, Safety & Nutrition . . . . .	3
<b>Subtotal. . . . .</b>		<b>15</b>
<b>Total Credits Required. . . . .</b>		<b>15</b>

## Child Development Associate (CDA)

PROFESSIONAL TECHNICAL  
Short-Term Certificate

### Major Courses

Course No.	Course Title	Credits
ECE . . . 141 . . . . .	Child Development Associate . . . . .	10
<b>Subtotal. . . . .</b>		<b>10</b>
<b>Total Credits Required. . . . .</b>		<b>10</b>



## Economics

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<http://www.columbiabasin.edu/home/index.asp?page=748>

**Department Overview:** Economics is the science which studies how societies use limited resources to meet unlimited wants. It is because of the broad nature of this social science that it is subdivided into macroeconomics and microeconomics. Macroeconomics is concerned with the use of fiscal and monetary policy to stabilize the national economy. Microeconomics tries to understand the behavior of the individual components of the economy.



## Education

### Elementary Education

The Associate in Elementary Education DTA/MRP is a direct transfer degree that is intended for future elementary school teachers. It provides students a broad foundation in liberal arts and beginning coursework in teacher education that is needed upon transfer to teacher certification programs at Washington state colleges and universities. It is designed to provide early experiences in teacher education, including opportunities for hands-on work in local classrooms and specific courses for elementary teachers.

Students may enroll in the Elementary Education program at the beginning of any quarter on either a full or part-time basis. Most courses are offered in the evenings or on Saturdays to accommodate the varied schedules of working students.

### Associate in Arts & Science in Elementary Education (DTA/MRP) TRANSFER DEGREE

#### A. Communication (13 credits)

Course No.	Course Title	Credits
ENGL& . 101. . . . .	English Composition I . . . . .	5
ENGL& . 102. . . . .	Composition II . . . . .	5
CMST. . 101. . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST& . 220. . . . .	Public Speaking . . . . .	5

#### Math Proficiency (Refer to Placement Test)

1. Intermediate Algebra Proficiency requirement. Must do one of the following:

\*Pass Intermediate Algebra (MATH 095 or MATH 098) with a 2.0 or better.

\*Pass a Math class that has an Intermediate Algebra prerequisite.

\*Place into any Math course MATH 113 or above via COMPASS.

#### B. Quantitative/Symbolic Reasoning (5 credits)

Course No.	Course Title	Credits
MATH . 123. . . . .	Algebra, Probability and Statistics for Elementary Teachers . . . . .	5

#### C. Humanities (15 credits)

15 credits in Humanities required including 5 credits of World Civilization, 5 credits of Diversity, and 5 credits of Other.

##### World Civilization (5 credits):

HIST& . 126. . . . .	World Civilizations I <b>or</b> . . . . .	5
HIST& . 127. . . . .	World Civilizations II <b>or</b> . . . . .	5
HIST& . 128. . . . .	World Civilizations III . . . . .	5

##### Diversity (5 credits):

ICS . . . 120. . . . .	Survey of Hispanic Culture <b>or</b> . . . . .	5
HIST& . 219. . . . .	Native American History <b>or</b> . . . . .	5
ENGL . . 160. . . . .	Women's Literature <b>or</b> . . . . .	5
ENGL . . 180. . . . .	Multicultural Literature <b>or</b> . . . . .	5
ENGL . . 280. . . . .	Gay and Lesbian Studies <b>or</b> . . . . .	5
WS . . . 155. . . . .	Women's Cultural Heritage <b>or</b> . . . . .	5
WS . . . 160. . . . .	Women in Literature and Art . . . . .	5

##### Other (5 credits):

ART& . . 100. . . . .	Art Appreciation <b>or</b> . . . . .	5
MUSC& . 105. . . . .	Music Appreciation <b>or</b> . . . . .	5
DRMA& . 101. . . . .	Intro to Theatre . . . . .	5

#### D. Social & Behavioral Science (15 credits)

15 credits in Social & Behavioral Sciences required including 5 credits of Psychology, 5 credits of U.S. History, and 5 credits from Economics, Geography or Political Science.

##### Psychology (5 credits):

Course No.	Course Title	Credits
PSYC& . 100. . . . .	General Psychology . . . . .	5

##### U. S. History (5 credits):

HIST& . 136. . . . .	U.S. History I <b>or</b> . . . . .	5
HIST& . 137. . . . .	U.S. History II . . . . .	5

##### Economics, Geography, Political Science (5 credits)

ECON& . 202. . . . .	Macro Economics <b>or</b> . . . . .	5
ECON& . 201. . . . .	Micro Economics <b>or</b> . . . . .	5
GEO . . . 150. . . . .	Cultural Geography <b>or</b> . . . . .	5
POLS& . 202. . . . .	American Government <b>or</b> . . . . .	5
POLS . . 104. . . . .	State and Local Government . . . . .	5

#### E. Mathematical & Natural Science (15 credits)

15 credits in Natural Science required, including 5 credits of Biological sciences, 5 credits Geology or Earth

Science and 5 credits of Physical sciences. Two (2) courses must be a laboratory science.

#### Biological Science (5 credits)

Course No.	Course Title	Credits
BIOL& . 100. . . . .	Survey of Biology w/Lab . . . . .	5
BIOL& . 100L* . . . . .	Survey of Biology Lab . . . . .	0
BIOL& . 175. . . . .	Human Biology w/Lab . . . . .	5
BIOL& . 175L* . . . . .	Human Biology Lab . . . . .	0

#### Geology or Earth Science (5 credits)

ENVS& . 101. . . . .	Intro to Environmental Science w/Lab . . . . .	5
ENVS& . 101L* . . . . .	Intro to Environmental Science Lab . . . . .	0
GEOL& . 101. . . . .	Intro to Physical Geology w/Lab . . . . .	5
GEOL& . 101L* . . . . .	Intro to Physical Geology Lab . . . . .	0
GEO . . . 101* . . . . .	Physical Geography (*No Lab) . . . . .	5

#### Physical Science (5 credits):

ASTR& . 101. . . . .	Intro to Astronomy w/Lab . . . . .	5
ASTR& . 101L* . . . . .	Intro to Astronomy Lab . . . . .	0
CHEM& . 110. . . . .	Chemical Concepts w/Lab . . . . .	5
CHEM& . 110L* . . . . .	Chemical Concepts Lab . . . . .	0
CHEM& . 121. . . . .	Intro to Chemistry w/Lab . . . . .	5
CHEM& . 121L* . . . . .	Intro to Chemistry Lab . . . . .	0
PHYS& . 100. . . . .	Physics Non-Sci Majors . . . . .	4
PHYS& . 101. . . . .	Physics Lab Non-Sci Majors . . . . .	1

#### F. Health and Physical Education (3 credits)

Course No.	Course Title	Credits
HE . . . 230. . . . .	First-Aid Safety . . . . .	3

#### G. Electives (28 credits)

Course No.	Course Title	Credits
CS . . . 101. . . . .	Introduction to Computer & Information Technology . . . . .	5
EDUC . . 101. . . . .	Introduction to Education . . . . .	4
EDUC . . 1972 . . . . .	Field Experience . . . . .	1-2
EDUC . . 201. . . . .	Introduction to Multicultural Education . . . . .	3
MATH . 121. . . . .	Structure of Elementary Math . . . . .	5
MATH . 122. . . . .	Informal Geometry/Elementary Teachers . . . . .	5
PSYC& . 200. . . . .	Lifespan Psychology . . . . .	5

**Total Credits Required. . . 94-97**

#### Important:

\*Required minimum 94 credits

\*Required cumulative GPA 2.0

\*A minimum of 30 credits CBC

\*You must sign up for both lecture and lab courses to receive combined lecture and lab credits. Lab credits will display zero as they are included in the lecture credits.

#### Notes:

- The Associate in Elementary Education DTA/MRP will be issued only to students who have earned a cumulative grade point average of at least 2.0.
- Students should be advised that most teacher prep programs require a GPA of 2.5 to 3.0 for admission.
- A minimum of 30 hours of K-8 classroom experience must be included during the degree program (EDUC 1972).
- Students should be able to demonstrate computer literacy in software programs including Word Processing, PowerPoint, spreadsheets, in addition to being proficient on the Internet. These skills should be demonstrated through a portfolio of files gathered during their educational course work (CA 100).
- Although not required for this degree, students should be advised they must take the WEST-B before completing their community college course work in order to apply to teacher preparation programs.



## Emergency Medical Services-CPR

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<http://www.columbiabasin.edu/home/index.asp?page=789>

**Department Overview:** The field of Emergency Medical Services (EMS) is built upon foundational levels that begin with basic CPR/First Aid and end with the advanced care provided by a paramedic. Throughout EMS you will find various levels of education that all focus toward the “chain of survival”. This chain is a theoretical ideal of how patients can best be treated, whether suffering a heart attack or being involved in a motor vehicle accident.

The Cardiopulmonary Resuscitation course is the first course provided among several options within the Emergency Medical Services training provided by Columbia Basin College.



## Emergency Medical Technician

<http://www.columbiabasin.edu/home/index.asp?page=789>

**Department Overview:** The field of Emergency Medical Services (EMS) is built upon foundational levels that begin with basic CPR/First Aid and end with the advanced care provided by a paramedic. Throughout EMS you will find various levels of education that all focus toward the “chain of survival”. This chain is a theoretical ideal of how patients can best be treated, whether suffering a heart attack or being involved in a motor vehicle accident.

EMT-B is the certification level that comprises the largest population of EMS responders, and is often considered the backbone of EMS. EMT’s perform basic life saving skills which include: control of bleeding, stabilizing fractures, assisting patients with medications, providing oxygen and other necessities to avoid the development/progression of shock, as well as transport to the Emergency Room.

Entrance into the EMT course is contingent upon the successful completion of the application and acceptance process.

**For Emergency Medical Technician courses see EMT 101 and EMT 102.**

**EMT-Intermediate** is an additional course that is offered on an as-needed basis. This need is determined by the EMS Officers and Fire Chiefs from rural departments. EMT-I is approximately 40-50 hours of additional training beyond EMT-B, and equips the responder with the skills to start IV’s, control the airway with invasive procedures, and administer some medications to patients.

More information is available from either the Paramedic Program or the Health Sciences Division office at (509) 544-8300.

**The following are required for the first day of class:**

- Criminal History Background Check
- Current list of required immunizations
- Signed Confidentiality Statement
- Malpractice Insurance

## EMT-Basic

PROFESSIONAL TECHNICAL

SHORT-TERM CERTIFICATE

### Major Courses

Course	No.	Course Title	Credits
EMT	101	Emergency Medical Technician-Basic	10
<b>Subtotal.</b>			<b>10</b>
<b>Total Credits Required.</b>			<b>10</b>



## Engineering Technology

<http://www.columbiabasin.edu/home/index.asp?page=810>

**Department Overview:** The Engineering Technology curriculum prepares the technician to assume a place on the engineering team as an assistant to the professional engineer. The program is two years in length and includes courses in engineering science, drafting and related academic subjects. Skills are learned by completing projects in a variety of settings including campus labs, the computer-aided drafting (CAD) lab and in the field completing projects in surveying.

It is the intent of the Engineering Technology Department to:

- generate an understanding of the basic principles of science and engineering and utilize that knowledge in the solution of problems;
- provide a basic education that will allow future educational growth, and;
- develop confidence in those skills needed for employment in the field of engineering technology.

A Computer-Aided Drafting Certificate is also available. The certificate emphasizes the CAD classes, preparing students for entry into the work force.

## Associate in Applied Science in Engineering Technology

### PROFESSIONAL TECHNICAL

#### Major Courses

Course No.	Course Title	Credits
ENT. . . 111. . . . .	Introduction to Engineering . . . . .	5
ENT. . . 1161 . . . . .	Basic Drafting . . . . .	5
ENT. . . 121. . . . .	Engineering Fundamentals . . . . .	3
ENT. . . 1211 . . . . .	Engineering Fundamentals Lab . . . . .	1
ENT. . . 122. . . . .	Materials . . . . .	3
ENT. . . 1261 . . . . .	Graphical Analysis . . . . .	5
ENT. . . 134. . . . .	Surveying . . . . .	3
ENT. . . 1341 . . . . .	Surveying Lab. . . . .	3
ENT. . . 135. . . . .	Statics . . . . .	5
ENT. . . 1361 . . . . .	Advanced Drafting . . . . .	4
ENT. . . 214. . . . .	Strength of Materials . . . . .	5
ENT. . . 2161 . . . . .	Mechanical Drafting & Design . . . . .	5
ENT. . . 2191 . . . . .	Construction Estimating. . . . .	1
ENT. . . 224. . . . .	Structures . . . . .	5
ENT. . . 2261 . . . . .	Architectural/Structural Drafting. . . . .	5
ENT. . . 229. . . . .	Construction Specifications . . . . .	2
ENT. . . 2361 . . . . .	Design . . . . .	5
ENT. . . 238. . . . .	Electricity . . . . .	5
<b>Subtotal. . . . .</b>		<b>70</b>

#### Major Support

Course No.	Course Title	Credits
PHYS&. . 121. . . . .	General Physics I . . . . .	4
PHYS&. . 131. . . . .	General Physics Lab I. . . . .	1
PHYS&. . 122. . . . .	General Physics II. . . . .	4
PHYS&. . 132. . . . .	General Physics Lab II . . . . .	1

#### Physics/English (5 credits)

PHYS&. . 123. . . . .	General Physics III & . . . . .	4
PHYS&. . 133. . . . .	General Physics Lab III <b>or</b> . . . . .	1
ENGL&. . 235. . . . .	Technical Writing . . . . .	5
Computer Science Elective (as approved by ENT Dept.) . . . . .		5

**Subtotal. . . . . 20**

#### General Education

Course No.	Course Title	Credits
ENGL&. . 101. . . . .	English Composition I . . . . .	5
MATH . . 113. . . . .	Geometry/Trigonometry <b>or</b> . . . . .	5
MATH&. . 141. . . . .	Precalculus I. . . . .	5
MATH&. . 142. . . . .	Precalculus II . . . . .	5

**Subtotal. . . . . 15**

*Students should select one class from each of the following areas to meet the program requirement:*

Course No.	Course Title	Credits
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#### Human Relations (3-5 credits)

PSYC . . 103. . . . .	Applied Psychology <b>or</b> . . . . .	3
PSYC&. . 100. . . . .	General Psychology <b>or</b> . . . . .	5
PSYC . . 201. . . . .	Social Psychology <b>or</b> . . . . .	5
BUS . . 271. . . . .	Human Relations Business . . . . .	5

#### Speech (select 3-5 credits)

CMST. . 101. . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST&. . 220. . . . .	Public Speaking <b>or</b> . . . . .	5
CMST. . 110. . . . .	Communication Behavior <b>or</b> . . . . .	3
CMST&. . 210. . . . .	Interpersonal Communication <b>or</b> . . . . .	3
CMST. . 260. . . . .	Multicultural Communications . . . . .	5

**Subtotal. . . . . 6-10**

**Total Credits Required. . 111-115**



## Computer Aided Drafting

PROFESSIONAL TECHNICAL

One-Year Certificate

### Major Courses

Course No.	Course Title	Credits
ENT. . . . . 1711	.Technical Drafting . . . . .	3
ENT. . . . . 267	.AutoCAD I & . . . . .	2
ENT. . . . . 2671	.AutoCAD I Lab. . . . .	1
ENT. . . . . 268	.AutoCAD II & . . . . .	2
ENT. . . . . 2681	.AutoCAD II Lab . . . . .	1

ENT Electives: 20 credits required, a minimum of 9 credits must be CAD electives and a maximum of 6 credits may be other designated ENT classes.

### CAD: (select a minimum of 9 credits)

Course No.	Course Title	Credits
ENT. . . . . 269	.Visual LISP & . . . . .	2
ENT. . . . . 2691	.Visual LISP Lab . . . . .	1
ENT. . . . . 270	.3-D & . . . . .	2
ENT. . . . . 2701	.3-D Lab . . . . .	1
ENT. . . . . 271	.Drawing Production & . . . . .	2
ENT. . . . . 2711	.Drawing Production Lab. . . . .	1
ENT. . . . . 272	.Advanced 3-D & . . . . .	2
ENT. . . . . 2721	.Advanced 3-D Lab . . . . .	1
ENT. . . . . 273	.Advanced AutoCAD Applications & . . . . .	2
ENT. . . . . 2731	.Advanced AutoCAD Applications Lab . . . . .	1
ENT. . . . . 274	.Architectural Residential Drawing & . . . . .	2
ENT. . . . . 2741	.Architectural Residential Drawing Lab . . . . .	1
ENT. . . . . 281	.MicroStation I for the AutoCAD User & . . . . .	2
ENT. . . . . 2811	.MicroStation I for the AutoCAD User Lab . . . . .	1
ENT. . . . . 282	.MicroStation II for the AutoCAD User & . . . . .	2
ENT. . . . . 2821	.MicroStation II for the AutoCAD User Lab . . . . .	1

### Other ENT electives: (must meet course prerequisites.)

Course No.	Course Title	Credits
ENT. . . . . 111	.Introduction to Engineering . . . . .	5
ENT. . . . . 121	.Engineering Fundamentals & . . . . .	3
ENT. . . . . 1211	.Engineering Fundamentals Lab . . . . .	1
ENT. . . . . 122	.Materials . . . . .	3
ENT. . . . . 134	.Surveying & . . . . .	3
ENT. . . . . 1341	.Surveying Lab. . . . .	3
ENT. . . . . 1721	.Technical Drafting . . . . .	3
ENT. . . . . 2191	.Construction Estimating. . . . .	1
ENT. . . . . 229	.Construction Specifications. . . . .	2
ENT. . . . . 238	.Electricity . . . . .	5

Subtotal. . . . . 29

### General Education

Course No.	Course Title	Credits
ENGL& . . . . . 101	.English Composition I . . . . .	5
MATH . . . . . 113	.Geometry/Trigonometry . . . . .	5

### Human Relations (select 3-5 credits)

PSYC& . . . . . 100	.General Psychology <b>or</b> . . . . .	5
PSYC . . . . . 103	.Applied Psychology <b>or</b> . . . . .	3
PSYC . . . . . 201	.Social Psychology <b>or</b> . . . . .	5
BUS . . . . . 271	.Human Relations Business . . . . .	5

Students should select one class from each of the following areas to meet the program requirement:

### Speech (select 3-5 credits)

CMST. . . . . 101	.Speech Essentials <b>or</b> . . . . .	3
CMST. . . . . 110	.Communication Behavior <b>or</b> . . . . .	3
CMST& . . . . . 210	.Interpersonal Communication <b>or</b> . . . . .	5
CMST& . . . . . 220	.Public Speaking <b>or</b> . . . . .	5
CMST. . . . . 260	.Multicultural Communications . . . . .	5

Subtotal. . . . . 16-20

Total Credits Required. . . . . 45-49

## English

<http://www.columbiabasin.edu/home/index.asp?page=714>

**Department Overview:** The English department offers a wide range of writing courses designed to meet the needs of all who enroll. Offerings include review/developmental grammar and writing; expository, research and work-related writing; creative writing; and linguistics.

Career opportunities include the fields of teaching, law, speech writing, technical communication and editing, journalism and public relations, among others. In general, these courses give students the reading, writing and critical thinking skills to prepare for success in life.



## English As A Foreign Language

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<http://www.columbiabasin.edu/home/index.asp?page=583>

**Department Overview:** The English as a Foreign Language program offers developmental and academic language instruction for non-native speakers of English. These courses provide support and preparation for future coursework in academic and occupational programs. Courses are designed to provide advanced practice in academic reading and writing, vocabulary development and speaking, grammar, and spelling skills.

## English As A Second Language

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<http://www.columbiabasin.edu/home/index.asp?page=583>

**Department Overview:** The English as a Second Language program at CBC offers English language instruction to non-native English speaking residents of Benton and Franklin counties. Courses help students to develop or improve their English language skills and awareness of American culture from basic literacy to an advanced level. Instruction focuses on developing language and communication skills through an integration of academic, interpersonal and problem-solving activities. ESL courses coded below 090 are tuition free with non-transferable credits. A \$25 tuition fee per quarter is required for registration in ESL classes up to 18 credits.

## Environmental Science

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<http://www.columbiabasin.edu/home/index.asp?page=1076>

**Department Overview:** Environmental Science offers both science and non science students the necessary background to understand the environmental problems that have arisen due to human activities. Courses deal with the interrelationships of soil, air, and water as they are affected by human activities. Students are challenged to think critically about their lifestyle choices and how these choices affect their immediate environment in the short term and the biosphere in the long run. Education of students is the key that opens their minds to the possibility that humans do, in fact, cause changes to their environment by using resources at rates that exceed the systems ability to replenish them.



## Fire Protection Technology

<http://>

**Department Overview:** No job in the world commands more respect than that of the firefighter, and with it comes a good salary and strong benefits. The competition is strong, and more and more candidates are getting special training and certification to improve their chances. This program is designed to give students the competitive edge to obtain a career position within an emergency agency. Career opportunities include Structural Firefighters, Wildland Firefighter, Fire Investigator, and Fire Prevention Officers.

The program offers an Associate in Applied Science degree in Fire Protection Technology. Graduates of the program will be qualified to test for the International Fire Service Accreditation Congress (IFSAC) Firefighter I Certification and will have successfully completed the Emergency Medical Technician-Basic course.

General education courses are included in the program to provide students with an opportunity to explore industrial, social, political, and economic concepts relating to the field of fire science.

## Associate in Applied Science in Fire Protection Technology

PROFESSIONAL TECHNICAL

### Major Courses

Course No.	Course Title	Credits
FPT . . . 110 . . . . .	Fire Behavior and Fire Ground Tactics . . . . .	5
FPT . . . 120 . . . . .	Fire Protection Systems/Fire Prevention. . . . .	5
FPT . . . 130 . . . . .	Fire Service Hydraulics/E.V.A.P. . . . .	5
FPT . . . 205 . . . . .	Fire Academy I . . . . .	8
FPT . . . 210 . . . . .	Building Construction . . . . .	5
FPT . . . 215 . . . . .	Fire Academy II . . . . .	8
FPT . . . 220 . . . . .	Fire Inspection/Fire Codes . . . . .	5
FPT . . . 225 . . . . .	Fire Academy III. . . . .	8
FPT . . . 230 . . . . .	Fire Investigation . . . . .	5
EMT . . . 101 . . . . .	Emergency Medical Technician-Basic . . . . .	10
<b>Subtotal. . . . .</b>		<b>64</b>

### Major Support

Course No.	Course Title	Credits
CA . . . 100 . . . . .	Introduction to Microcomputers or . . . . .	4
CS . . . 101 . . . . .	Introduction to Computers and Information Technology . . . . .	5
CHEM& . 110 . . . . .	Chemical Concepts w/Lab . . . . .	5
CHEM& . 110L* . . . . .	Chemical Concepts Lab . . . . .	0
ENGL& . 102 . . . . .	Composition II <b>or</b> . . . . .	5
ENGL& . 235 . . . . .	Technical Writing . . . . .	5

### PE (select 5 credits)

PE . . . 1271 . . . . .	Fitness Center I . . . . .	1-2
PE . . . 1281 . . . . .	Fitness Center II. . . . .	1-2
PE . . . 1291 . . . . .	Fitness Center III . . . . .	1-2

### Political Science (select 5 credits)

POLS& . 202 . . . . .	American Government <b>or</b> . . . . .	5
POLS . . 104 . . . . .	State and Local Government . . . . .	5

**Subtotal. . . . . 24-25**

### General Education

Course No.	Course Title	Credits
ENGL& . 101 . . . . .	English Composition I . . . . .	5
MATH . . 106+ . . . . .	MATH 106 <b>or</b> above . . . . .	5
PSYC . . 100+ . . . . .	PSYC 100 <b>or</b> above . . . . .	3-5

### Speech (select 3-5 credits)

CMST. . . 101 . . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST& . 220 . . . . .	Public Speaking <b>or</b> . . . . .	5
CMST. . . 110 . . . . .	Communication Behavior <b>or</b> . . . . .	3
CMST& . 210 . . . . .	Interpersonal Communication <b>or</b> . . . . .	5
CMST. . . 260 . . . . .	Multicultural Communications . . . . .	5

**Subtotal. . . . . 16-20**

**Total Credits Required. . . 104-109**

*Important: \*You must sign up for both lecture and lab courses to receive combined lecture and lab credits. Lab credits will display zero as they are included in the lecture credits.*



## Fire Science

<http://www.columbiabasin.edu/home/index.asp?page=790>

**Department Overview:** The evening Fire Science program is for individuals who are presently firefighters in either career or volunteer-based systems.

General education courses are included in the program to provide the opportunity to explore industrial, social, political, and economic concepts relating to the field of Fire Science. Many of the general education requirements will be available in regular day and distance learning format options. The courses specific to the Fire Science degree are generally offered evenings and rotated each year. Students should meet with the program faculty to develop an academic plan that will meet the student's needs.

## Associate in Applied Science in Fire Science

PROFESSIONAL TECHNICAL

### Major Courses

Course	No.	Course Title	Credits
FS	111	Fire Administration	3
FS	121	Fire Tactics	3
FS	131	Introduction to Fire Inspections	3
FS	141	Hazardous Materials I	3
FS	151	Hazardous Materials II	3
FS	211	Building Construction	3
FS	222	Fire Tactics II	3
FS	231	Fire Protection Equipment	3
FS	241	Fire Investigation	3
<b>Subtotal.</b>			<b>27</b>

### Major Support

Course	No.	Course Title	Credits
ENGL&	235	Technical Writing	5
<b>Political Science (select 5 credits)</b>			
POLS&	202	American Government <b>or</b>	5
POLS	104	State and Local Government	5
<b>Business Administration (select 5 credits)</b>			
BUS	262	Management Principles <b>or</b>	5
BUS	271	Human Relations Business	5
<b>Subtotal.</b>			<b>15</b>

### Restrictive Electives

EMT-Emergency Medical Technician	10
Promotional Exams - Maximum	9
Special Experience - 1 credit per yr - Maximum (Training Officer, Fire Marshall, Inspection, Paramedic, etc.)	5
Fire Training Classes - 1 credit/16 hours - Maximum	15
Work Experience - Maximum (Career 2 credit/yr & Volunteer 1 credit/yr)	10
Correspondence - Maximum	5
<b>Subtotal.</b>	<b>28-32</b>

### General Education

Course	No.	Course Title	Credits
ENGL&	101	English Composition I	5
MATH	106+	MATH 106 <b>or</b> above	5
PSYC	100+	PSYC 100 <b>or</b> above	3-5
<b>Speech (select 3-5 credits)</b>			
CMST	101	Speech Essentials <b>or</b>	3
CMST&	220	Public Speaking <b>or</b>	5
CMST	110	Communication Behavior <b>or</b>	3
CMST&	210	Interpersonal Communication	5
<b>Subtotal.</b>			<b>16-20</b>
<b>Total Credits Required.</b>			<b>90-94</b>



## Firefighter I

<http://www.columbiabasin.edu/home/index.asp?page=790>

**Department Overview:** No job in the world commands more respect than that of the firefighter, and with it comes a good salary and strong benefits. The competition is keen, and more and more candidates are getting special training and certification to improve their chances. This program is designed to give you that edge. Career opportunities include Structural Firefighters, Wildland Firefighter, Fire Investigator, and Paramedic.

The program is divided into two options: The first option is a Fire Science Certificate and an Associate in Applied Science degree. The Fire Science Certificate option involves all the core classes (71 credits) and is designed for those students who wish to postpone completing the Firefighter Level I Academy. The second option includes the Firefighter I Academy, and successful students will qualify to take the certification test. Graduates of the day program will be Firefighter I Certified, EMT Certified, and will receive an Applied Fire Science degree.

General education courses are included in the program to provide you with an opportunity to explore industrial, social, political, and economic concepts relating to the field of fire science.

To earn the Associate in Applied Science degree, the candidate must accumulate 94 credit hours based on the amount of credit through credit transfer, course challenge, required curriculum, and electives.

## First Year Introduction (FYI)

<http://www.columbiabasin.edu/home/index.asp?page=437>

**Department Overview:** The purpose of FYI is to introduce new students to the academic culture, expectations, resources, procedures, and policies at Columbia Basin College. Students will attend seminars where topics like college terminology, study skills, and learning styles will be discussed. There are also a number of diverse modules they will choose from ranging from career planning to computer survival skills to time management. Students will also have the opportunity to explore the campus, meet CBC faculty, and interact with students who are also new to the college experience.

Desired FYI Outcomes:

- Educate new students on college expectations
- Identify "high risk" students and provide earlier interventions
- Develop educational plans for every student
- Create a stronger sense of responsibility among students for their education
- "Warm up" students' critical thinking skills
- Build relationships with peers, staff, and faculty
- Improve the socialization process for new students at CBC
- Reduce the number of students on academic probation and suspension
- Increase retention rates

## First Year Introduction for Trades

**Department Overview:** The First Year Introduction for Trades assists students in transitioning into the following trade programs at CBC: Ag and Industrial Equipment Technology, Autobody/Collision Repair, Automotive, Machine, and Welding Technology. The program emphasizes such topics as safety, industry expectations, program expectations, student success, campus resources, time management, and career planning. Completion of this course satisfies CBC's First Year Introduction (FYI) requirement for all degree and certificate seeking students. CBC's FYI program is nationally recognized by the National Council of Student Development for improving the acclimation of students to the college environment and improving student persistence in college. Students who are not in trades programs should take the FYI workshop - WKSP 090.



## French

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<http://www.columbiabasin.edu/home/index.asp?page=830>

**Department Overview:** Our French classes offer student-centered instruction that focuses on communicating effectively in French, appreciating the French culture, and recognizing linguistic and cultural connections between the French-speaking parts of the world and the United States.

## General Engineering

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<http://www.columbiabasin.edu/home/index.asp?page=1077>

**Department Overview:** General Engineering courses are required for various engineering degrees and fulfill the requirements for transfer to four-year institutions.



## Geography

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<http://www.columbiabasin.edu/home/index.asp?page=828>

**Department Overview:** The geography offerings through CBC's Math/Science Division provide transfer science credits to science majors, science requirements, and electives toward graduation with an Associates degree in Arts and Sciences, and personal interest opportunities for the community. The current geography courses explore relationships between Earth's natural environments; including the atmosphere, solid earth, oceans and streams, and between the environment and humans. Course offerings also include in-depth study of the atmosphere, including meteorology. The courses promote extensive skillbuilding opportunities in communication through the spoken and written word, skills in the use of technology as a learning/research tool, and emphasis on critical thinking skills (also see Cultural Geography).

### Cultural Geography

CBC's course in Cultural Geography provides an introduction to the ways in which human groups think about, arrange, and modify their physical habitats. This geographic knowledge is a basic means to understanding one's own world and the worlds of others.

## Geology

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<http://www.columbiabasin.edu/home/index.asp?page=812>

**Department Overview:** The geology offerings through CBC's Math/Science Division provide transfer science credits to science majors, science requirements and electives toward graduation with an Associate's degree in Arts and Sciences, and personal interest opportunities for the community.

Physical Geology I is an introductory geology course which introduces students to Earth's processes and the relationships between the processes and Earth's physical/chemical properties. Physical Geology II is an introductory study in geomorphology—a study of Earth's landforms through processes that build them. Environmental Geology is a study of the relationships between the physical features of the earth and the human population. Historical Geology is the study of Earth's continents, oceans, and life forms through time. The geology offerings promote extensive skillbuilding opportunities in communication through the spoken and written word, skills in the use of technology as a learning and research tool, and emphasis on critical thinking skills.



## German

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<http://www.columbiabasin.edu/home/index.asp?page=831>

**Department Overview:** Our German classes offer student-centered instruction that focuses on communicating effectively in German, appreciating the Germanic culture, and recognizing linguistic and cultural connections between German-speaking parts of the world and the United States.

## Health Education

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<http://www.columbiabasin.edu/home/index.asp?page=777>

**Department Overview:** The Health Education department offers a variety of classes designed to enhance students' knowledge about a healthy lifestyle, and/or help the student learn first-aid skills and accident prevention.



## Health Information Technology

<http://>

**Department Overview:** The Medical Reimbursement and Coding degree will prepare students to become specialists in this field. Students develop an understanding of coding and classification systems. Students will use ICD-9-CM (International Classification of Diseases-9th Revision-Clinical Modification) and CPT (Current Procedural Terminology) to assign valid diagnostic and/or procedural codes. Students gain a knowledge base for the validation of coded clinical information and case mix/severity of illness data. Students are also able to perform claims processing and electronic billing procedures for different healthcare settings. Courses in coding, reimbursement, study of diseases, and surgical procedures will prepare the students to work in clinical or hospital settings. The use of actual health records, coding and reimbursement software, medical office simulation, and supervised employment in a health information setting will allow the students to gain the hands-on experience needed for successful employment. This program will prepare students to take entry-level national coding certification examinations for both physician and hospital coding.

## Associate in Applied Science in Health Information Technology

### PROFESSIONAL TECHNICAL

*The following assumes the student enters the program college-ready and has completed AOT 101/AOT 102/AOT 109 or ability to test out/challenge. Eligibility for MATH 106 and ENGL& 101. Recommended: students purchase a USB storage drive.*

### Major Courses

Course No.	Course Title	Credits
CA . . . 100. . . . .	Introduction to Microcomputers . . . . .	4
AOT. . . 117. . . . .	Office Orientation . . . . .	3
AOT. . . 129. . . . .	Accounting Software . . . . .	3
AOT. . . 130. . . . .	Practical Accounting . . . . .	5
AOT. . . 172. . . . .	Word Processing I . . . . .	5
AOT. . . 290. . . . .	Professional Development . . . . .	3
HIT . . . 118. . . . .	Legal Aspects of the Medical Office III . . . . .	3
HIT . . . 147. . . . .	Medical Terminology . . . . .	5
HIT . . . 154. . . . .	Anatomy and Physiology for Health Information Technology . . . . .	4
HIT . . . 152. . . . .	Pharmacotherapy for Health Information Technology . . . . .	2
HIT . . . 158. . . . .	Pathophysiology for Health Information Technology . . . . .	4
<b>Subtotal. . . . .</b>		<b>41</b>

*Available Emphases: Medical Reimbursement and Coding and Medical Transcription.*

*Choose one available emphasis from below:*

### Support Courses

#### Medical Reimbursement and Coding:

Course No.	Course Title	Credits
AOT. . . 142. . . . .	General Office Procedures . . . . .	5
AOT. . . 1952* . . . . .	Supervised Employment . . . . .	4
HIT . . . 153. . . . .	Medical Reimbursement . . . . .	4
HIT . . . 155. . . . .	Introduction Medical to Coding . . . . .	4
HIT . . . 156. . . . .	Intermediate Medical Coding . . . . .	4
HIT . . . 157. . . . .	Advanced Medical Coding . . . . .	4
HIT . . . 159. . . . .	Advanced Hospital Coding and CCS Prep . . . . .	4
HIT . . . 245. . . . .	Medical Office Procedures . . . . .	2
<b>Medical Reimbursement and Coding Subtotal. . . . .</b>		<b>72</b>

*\*Supervised Employment site must meet intended emphasis requirement. Prior to Supervised Employment in a hospital setting: required immunizations and WSP background check must be on file. Requires keyboarding speed of 30 wpm and 10-key speed of 100 cpm.*

#### Medical Transcription:

Course No.	Course Title	Credits
AOT. . . 272. . . . .	Word Processing II . . . . .	4
AOT. . . 114. . . . .	Editing . . . . .	5
AOT. . . 1952* . . . . .	Supervised Employment . . . . .	10
HIT . . . 283. . . . .	Medical Transcription I . . . . .	4
HIT . . . 284. . . . .	Medical Transcription II . . . . .	4
HIT . . . 285. . . . .	Medical Transcription III . . . . .	4
<b>Medical Transcription Subtotal. . . . .</b>		<b>72</b>

*\*Supervised Employment site must meet intended emphasis requirement. Prior to Supervised Employment in a hospital setting: required immunizations and WSP background check must be on file. Requires keyboarding speed of 30 wpm and 10-key speed of 100 cpm.*

### General Education

Course No.	Course Title	Credits
ENGL& . 101. . . . .	English Composition I . . . . .	5
MATH . . 106+ . . . . .	MATH 106 <b>or</b> above . . . . .	5
PSYC& . 100. . . . .	General Psychology . . . . .	5

### Speech (select 3-5 credits)

CMST. . . 101. . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST&. . 220. . . . .	Public Speaking <b>or</b> . . . . .	5
CMST. . . 103. . . . .	Workplace Communication <b>or</b> . . . . .	3
CMST. . . 110. . . . .	Communication Behavior <b>or</b> . . . . .	3
CMST&. . 210. . . . .	Interpersonal Communication <b>or</b> . . . . .	5
CMST. . . 260. . . . .	Multicultural Communications . . . . .	5
<b>Subtotal. . . . .</b>		<b>18-20</b>

**Medical Reimbursement and Coding Total Credits Required. . . 90-92**

**Medical Transcription Total Credits Required. . . 90-92**



## Health Sciences

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*http://*

**Department Overview:** The Health Sciences courses provide both specialized multi-healthcare education and certification as well as general courses to meet a broad spectrum of healthcare program needs.

## Hebrew

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*http://*

**Department Overview:** Our Hebrew classes offer student-centered instruction that focuses on communicating effectively in Hebrew, appreciating the Israeli and Jewish culture, and recognizing linguistic and cultural connections between the Hebrew-speaking parts of the world and the United States.



## History

<http://www.columbiabasin.edu/home/index.asp?page=832>

**Department Overview:** The History department is comprised of instructors with a wide variety of specialties, representing most of the major regions of the world. Offerings include a variety of general and more specialized courses in American and World History. The department's goal is to broaden the student's historical knowledge and to cultivate an historical consciousness that allows the student to think and write critically about human society. In addition, CBC now offers a two-year degree in history.

## Associate in Arts & Science with an Emphasis in History

TRANSFER DEGREE

Option C

### A. Communication (13 credits)

Course No.	Course Title	Credits
ENGL& . 101 . . . . .	English Composition I . . . . .	5
ENGL& . 102 . . . . .	Composition II . . . . .	5
CMST. . . . .		3

### Math Proficiency . . . . . X

### B. Quantitative/Symbolic Reasoning (5 credits)

Course No.	Course Title	Credits
MATH& . 146 . . . . .	Introduction to Stats . . . . .	5

### C. Humanities (15 credits)

*Course selections must also meet the Humanities distribution requirements for the AA degree.*

Course No.	Course Title	Credits
HIST& . 126 . . . . .	World Civilizations I . . . . .	5
ENGL . . (see advisor for appropriate selection) . . . . .		5
Humanities Elective (see advisor for appropriate selection) . . . . .		5

### D. Social & Behavioral Science (15 credits)

*Course selections must also meet the Social & Behavioral Science distribution requirements for the AA degree.*

Course No.	Course Title	Credits
SOC& . 101 . . . . .	Intro to Sociology. . . . .	5
HIST& . 136 . . . . .	U.S. History I . . . . .	5
Social Science Elective (see advisor for appropriate selection). . . . .		5

### E. Mathematical & Natural Science (15 credits)

*Course selections must also meet the Mathematical & Natural Science distribution requirements for the AA degree.*

Mathematical & Natural Science Electives (see advisor for appropriate selection) . . . . . 15

### F. Health and Physical Education (3 credits)

Selected from PE Activity Classes or Health (HE) Classes . . . . . 3

### G. Electives (25 credits)

Course No.	Course Title	Credits
HIST& . 127 . . . . .	World Civilizations II . . . . .	5
HIST& . 128 . . . . .	World Civilizations III . . . . .	5
HIST& . 137 . . . . .	U.S. History II . . . . .	5

### Select 10 credits from the following courses:

HIST . . 110 . . . . .	History of Modern East Asia. . . . .	5
HIST . . 112 . . . . .	Modern Latin America . . . . .	5
HIST . . 115 . . . . .	History of Modern Middle East . . . . .	5

**Total Credits Required. . . . . 91**



## Horticulture

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<http://www.columbiabasin.edu/home/index.asp?page=813>

**Department Overview:** Horticulture is the science and art of growing plants for food, personal enjoyment, and environmental enhancement. Horticulture includes the production, marketing, and utilization of fruit and vegetable products that improve health and well-being, shade trees that reduce the urban heat island effect, bedding plants that increase business profits, and interior plants that reduce stress and enhance productivity. See also Agriculture, Agricultural Food Systems, and Animal Science for courses required to earn an Associates of Arts and Science with an Emphasis in Agri-Business.



## Human Services

<http://www.columbiabasin.edu/home/index.asp?page=833>

**Department Overview:** The Human Services program is designed to provide the necessary education and skills for the person interested in joining the helping profession or that is currently in a helping profession and looking to supplement their skills. Students could expect to obtain jobs through a large spectrum of human service organizations working with different populations. Students can focus their course electives towards Criminal Justice, Early Childhood Education, Physical and Mental Health, Intercultural Studies, Political Science, Sociology, or transfer degree requirements. The course structure will provide essential theory and practice of helping skills for providing services to clients, consumers, and students most effectively and efficiently.

Available through the Human Services program is a two-year Associate's degree in Human Services and a two-year Associate's degree in Chemical Dependency Counseling.

The two-year Associate's degree in Human Services is a Professional/Technical degree program that trains the student to work in a large variety of Human Service positions and agencies. This Associate's degree in Human Services includes: courses to train the student in effective interviewing, professional ethics, crisis intervention, community resources, theory, and practice of counseling.

The two-year Associate's degree in Chemical Dependency Counseling can be used to qualify for the Washington State Chemical Dependency Professional (CDP) credential with the Washington State Department of Health. Students entering the field of Chemical Dependency Counseling must complete an HIV/AIDS course and be a Registered Counselor. For additional information, please contact the Human Services coordinator at (509) 542-4439.

## Associate in Applied Science in Human Services

PROFESSIONAL TECHNICAL

### Major Courses

Course No.	Course Title	Credits
HS . . . 101. . . . .	Introduction to Social Work . . . . .	5
HS . . . 102. . . . .	Counseling: Theory & Practice . . . . .	5
HS . . . 103. . . . .	Ethical & Legal Issues in Human Services/ Chemical Dependency . . . . .	3
HS . . . 104. . . . .	Community Resources . . . . .	3
HS . . . 105. . . . .	Crisis Intervention . . . . .	3
HS . . . 202. . . . .	Therapeutic Approaches & Techniques . . . . .	5
SOC. . . 160. . . . .	Gender Studies . . . . .	5
SOC&. . 201. . . . .	Social Problems . . . . .	5

### Multicultural Elective (5 credits)

Please choose one from the following courses:

CMST. . . 260. . . . .	Multicultural Communications <b>or</b> . . . . .	5
ICS . . . 120. . . . .	Survey of Hispanic Culture <b>or</b> . . . . .	5
HIST& . 219. . . . .	Native American History <b>or</b> . . . . .	5
HIST . . 110. . . . .	History of Modern East Asia <b>or</b> . . . . .	5
	Instructor Pre-Approved Multicultural Elective Course . . . . .	5
<b>Subtotal. . . . .</b>		<b>39</b>

### Major Support

Student select 30 credits of college courses 100 or above. See advisor to make your course selections.

**Subtotal. . . . . 30**

### General Education

Course No.	Course Title	Credits
MATH . . 106+ . . . . .	MATH 106 <b>or</b> above . . . . .	5
ENGL&. . 101. . . . .	English Composition I . . . . .	5
PSYC&. . 100. . . . .	General Psychology . . . . .	5
PSYC&. . 200. . . . .	Lifespan Psychology . . . . .	5

### Speech (select 3-5 credits)

CMST. . . 101. . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST&. . 220. . . . .	Public Speaking <b>or</b> . . . . .	5
CMST. . . 110. . . . .	Communication Behavior <b>or</b> . . . . .	3
CMST&. . 210. . . . .	Interpersonal Communication . . . . .	5

**Subtotal. . . . . 23-25**

**Total Credits Required. . . . . 92-94**



## Associate in Applied Science in Chemical Dependency

PROFESSIONAL TECHNICAL

### Major Courses

Course No.	Course Title	Credits
HS . . . 103. . . . .	.Ethical & Legal Issues in Human Services/Chemical Dependency . .	3
HS . . . 120. . . . .	.Drug/Alcohol Counseling Techniques . . . . .	3
HS . . . 122. . . . .	.Alcohol/Drug Group Process . . . . .	5
HS . . . 124. . . . .	.Case Management of Chemically Dependent Client . . . . .	3
HS . . . 222. . . . .	.Alcohol/Drug Pharmacology/Physiology . . . . .	3
HS . . . 224. . . . .	.Chemical Dependency in the Family . . . . .	5
HS . . . 231. . . . .	.Adolescent Chemical Dependency Assessment & . . . . .	3
HS . . . 232. . . . .	.Relapse Prevention. . . . .	3
HS . . . 233. . . . .	.Chemical Dependency and the Law . . . . .	3
HS . . . 240. . . . .	.Survey of Chemical Dependency . . . . .	3
HS . . . 2972. . . . .	.Alcohol/Drug Practicum . . . . .	6

### Advanced Counseling Elective (5 credits)

Please choose from one of the following courses:

HS . . . 220. . . . .	.Advanced Counseling or . . . . .	5
HS . . . 241. . . . .	.Advanced Adolescent Chemical Dependency Assessment & . . . . .	5
	.Counseling Techniques. . . . .	5

### Multicultural Elective (select 5 credits)

Please choose from one of the following courses:

HIST . . . 110. . . . .	.History of Modern East Asia or . . . . .	5
ICS . . . 120. . . . .	.Survey of Hispanic Culture or . . . . .	5
HIST& . . 219. . . . .	.Native American History or . . . . .	5
CMST. . . 260. . . . .	.Multicultural Communications or . . . . .	5
	.Instructor Pre-Approved Multicultural Elective Course . . . . .	5

**Subtotal. . . . 50**

### Major Support

Select 20 credits. Students may select college courses 100 or above. See advisor to make your course selections.

**Subtotal. . . . 20**

### General Education

Course No.	Course Title	Credits
ENGL& . . 101. . . . .	.English Composition I . . . . .	5
MATH . . 106+ . . . . .	.MATH 106 or above. . . . .	5
PSYC& . . 100. . . . .	.General Psychology . . . . .	5
PSYC& . . 220. . . . .	.Abnormal Psychology . . . . .	5
PSYC& . . 200. . . . .	.Lifespan Psychology . . . . .	5

### Speech (select 3-5 credits)

CMST. . . 101. . . . .	.Speech Essentials or . . . . .	3
CMST&. . 220. . . . .	.Public Speaking or . . . . .	5
CMST. . . 110. . . . .	.Communication Behavior or . . . . .	3
CMST&. . 210. . . . .	.Interpersonal Communication . . . . .	5

**Subtotal. . . 28-30**

**Total Credits Required. . 98-100**



## Industrial Drawing

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<http://www.columbiabasin.edu/home/index.asp?page=810>

**Department Overview:** Columbia Basin College offers two Industrial Drawing classes. They are tailored specifically for the following programs:

### Machine Technology

This course is designed to lead the Machine Technology student into reading basic machine shop blueprints. Students will also be introduced to Computer Aided Drawing (CAD) software.

### Welding Technology

The course is designed to teach sketching and drawing for welding shop fabrication along with an introduction to blueprint reading.



## Intercultural Studies

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<http://www.columbiabasin.edu/home/index.asp?page=835>

**Department Overview:** The courses in this area offer students the opportunity to do in-depth studies of the major issues and aspects of other cultures, thus broadening their global awareness and also encouraging a better understanding of their own culture.



## International Studies

<http://>

**Department Overview:** The Associate of Arts & Science with an emphasis in International Studies combines social sciences and humanities to examine international problems and change. Using a diverse, multidisciplinary approach, the emphasis encourages students to look at our increasingly interdependent world in order to learn how to study it and understand its politics, societies, economies, and cultures.

## Associate in Arts & Science with an Emphasis in International Studies

TRANSFER DEGREE

Option C

### A. Communication (10 credits in English, plus 3 credits in Speech)

Course No.	Course Title	Credits
ENGL& . 101 . . . . .	English Composition I . . . . .	5
ENGL& . 102 . . . . .	Composition II . . . . .	5
CMST& . 101 . . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST& . 220 . . . . .	Public Speaking <b>or</b> . . . . .	5
CMST& . 110 . . . . .	Communication Behavior <b>or</b> . . . . .	3
CMST& . 210 . . . . .	Interpersonal Communication <b>or</b> . . . . .	5
CMST& . 260 . . . . .	Multicultural Communications . . . . .	5

### Math Proficiency . . . . . X

1. Intermediate Algebra Proficiency requirement: must do one of the following:

Pass Intermediate Algebra (MATH 095 or MATH 098).

Pass a math class that has an Intermediate Algebra prerequisite.

Place into any math course MATH 113 or above via Placement Test.

### B. Quantitative/Symbolic Reasoning (5 credits)

#### 1. Quantitative Reasoning:

Course No.	Course Title	Credits
MATH& . 146 . . . . .	Introduction to Stats . . . . .	5

### C. Humanities (15 credits)

Course selections must also meet the Humanities distribution requirements for the AA degree.

Course No.	Course Title	Credits
HIST& . 128 . . . . .	World Civilizations III . . . . .	5
Humanities Electives . . . . .		10

### D. Social & Behavioral Science (15 credits)

Course selections must also meet the Social & Behavioral distribution requirements for the AA degree.

Course No.	Course Title	Credits
GEO . . 150 . . . . .	Cultural Geography . . . . .	5
POLS& . 204 . . . . .	Comparative Government <b>or</b> . . . . .	5
POLS& . 203 . . . . .	International Relations . . . . .	5
SOC& . . 201 . . . . .	Social Problems . . . . .	5

### E. Mathematical & Natural Science (15 credits)

Course No.	Course Title	Credits
ENVS& . 101 . . . . .	Intro to Environmental Science w/Lab . . . . .	5
ENVS& . 101L* . . . . .	Intro to Environmental Science Lab . . . . .	0
Other course selections must meet the Mathematical & Natural Science distribution requirements for the AA degree.. . . .		10

### F. Health and Physical Education (3 credits) . . . . . 3

Health lecture or PE activity courses will satisfy this three-credit requirement.

### G. Required Electives (Select 24 credits from the following list:)

Language (15 credits of World Languages). . . . . 15

This requirement may also be met by demonstrating the ability to speak and read at sophomore level. If this requirement is met without taking the courses, the 15 credits may be taken as electives. (See advisor for class selections.)

### Additional Electives

A class can only be used to fulfill one requirement.

Course No.	Course Title	Credits
ANTH& . 206 . . . . .	Cultural Anthropology . . . . .	5
ECON& . 202 . . . . .	Macro Economics . . . . .	5
HIST . . 110 . . . . .	History of Modern East Asia . . . . .	5
HIST . . 111 . . . . .	Colonial Latin America . . . . .	5
HIST . . 112 . . . . .	Modern Latin America . . . . .	5
HIST . . 113 . . . . .	Mexico Since Independence . . . . .	5
HIST . . 115 . . . . .	History of Modern Middle East . . . . .	5
HIST . . 116 . . . . .	History of Africa . . . . .	5
HIST . . 117 . . . . .	History of India . . . . .	5
HIST . . 100 . . . . .	Cultural and Historical Linked to Travel . . . . .	1-3
ICS . . . 120 . . . . .	Survey of Hispanic Culture . . . . .	5
ICS . . . 255 . . . . .	Race and Ethnic Relations . . . . .	5
POLS& . 204 . . . . .	Comparative Government . . . . .	5
POLS& . 203 . . . . .	International Relations . . . . .	5
SOC . . . 269 . . . . .	Sociology of World Cinema . . . . .	5

**Total Credits Required. . . . . 90**

**Important:** \*You must sign up for both lecture and lab courses to receive combined lecture and lab credits. Lab credits will display zero as they are included in the lecture credits. In addition to the above required coursework, it is extremely important to stay in close contact with your faculty advisor.



## Japanese Common Course

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<http://www.columbiabasin.edu/home/index.asp?page=836>

**Department Overview:** Our Japanese classes offer student-centered instruction that focuses on communicating effectively in Japanese, appreciating the Japanese culture, and recognizing linguistic and cultural connections between Japanese-speaking parts of the world and the United States.



## Latino and Latin American Studies

**Department Overview:** In our increasingly multi-ethnic and global society it is important to learn about and understand the people and cultures of the many places around the world. The growing presence of people of Hispanic/Latino descent in the United States as well as our country's continued economic, political, and cultural connection with Spanish speaking countries makes it imperative to learn about this region and its people.

An Associate of Arts & Science degree with an emphasis in Latino and Latin American Studies is valuable for students who would like to transfer to a four-year college with expertise from a specific region and culture. Students who intend to pursue majors in history, international relations, international business, education, foreign service, as well as anyone who sees themselves working in Latin America or with people of Latin American descent in the United States would benefit greatly by pursuing this degree.

### Associate in Arts & Science with an Emphasis in Latino & Latin American Studies

TRANSFER DEGREE

Option C

#### A. Communication (10 credits in English, plus 3 credits in Speech)

Course No.	Course Title	Credits
ENGL& . 101 . . . . .	English Composition I . . . . .	5
ENGL& . 102 . . . . .	Composition II <b>or</b> . . . . .	5
ENGL& . 235 . . . . .	Technical Writing . . . . .	5
CMST. . 101 . . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST& . 220 . . . . .	Public Speaking <b>or</b> . . . . .	5
CMST. . 110 . . . . .	Communication Behavior <b>or</b> . . . . .	3
CMST& . 210 . . . . .	Interpersonal Communication <b>or</b> . . . . .	5
CMST. . 260 . . . . .	Multicultural Communications . . . . .	5

#### Math Proficiency . . . . . X

1. Intermediate Algebra Proficiency requirement: must do one of the following:

Pass Intermediate Algebra (MATH 095 or MATH 098).

Pass a math class that has an Intermediate Algebra prerequisite.

Place into any math course MATH 113 or above via placement test.

#### B. Quantitative/Symbolic Reasoning (5 credits)

##### 1. Quantitative Reasoning:

Course No.	Course Title	Credits
MATH& . 146 . . . . .	Introduction to Stats (Recommended) . . . . .	5

##### 2. OR Symbolic Reasoning:

CS 102, CS& 131 CS 162, CS 202, or PHIL 121

#### C. Humanities (15 credits)

Course No.	Course Title	Credits
ICS . . . 120 . . . . .	Survey of Hispanic Culture . . . . .	5
Humanities Electives . . . . .		10

(Course selections must also meet the Humanities distribution requirements for the AA degree.)

#### D. Social & Behavioral Science (15 credits)

Course selections must also meet the Social & Behavioral distribution requirements for the AA degree.

Course No.	Course Title	Credits
HIST . . 111 . . . . .	Colonial Latin America <b>or</b> . . . . .	5
HIST . . 107 . . . . .	Chicano History . . . . .	5
POLS& . 203 . . . . .	International Relations <b>or</b> . . . . .	5
ANTH& . 206 . . . . .	Cultural Anthropology . . . . .	5

#### Psychology or Sociology (See advisor for appropriate selection) . . . . . 5

PSYC . . 201 . . . . .	Social Psychology <b>or</b> . . . . .	5
SOC& . . 201 . . . . .	Social Problems . . . . .	5

#### E. Mathematical & Natural Science (15 credits) . . . . . 15

Course selections must also meet the Mathematical & Natural Science distribution requirements for the AA degree.

#### F. Health and Physical Education (3 credits) . . . . . 3

Health lecture or PE activity courses will satisfy this three-credit requirement.

#### G. Required Electives (Select 24 credits from the following list):9

Language (Fifteen credits of Spanish language classes.) . . . . . 15

This requirement may also be met by demonstrating the ability to write and read at one-year language level. If this requirement is met without taking the courses, the 15 credits may be taken as electives. (See advisor for class selections.)

#### Additional Electives

A class can only be used to fulfill one requirement.

Course No.	Course Title	Credits
ANTH& . 206 . . . . .	Cultural Anthropology . . . . .	5
ART. . . 120 . . . . .	Art History of Americas . . . . .	5
HIST . . 107 . . . . .	Chicano History . . . . .	5
HIST . . 108 . . . . .	History of Immigration in the United States . . . . .	5
HIST . . 111 . . . . .	Colonial Latin America . . . . .	5
HIST . . 112 . . . . .	Modern Latin America . . . . .	5
HIST . . 113 . . . . .	Mexico Since Independence . . . . .	5
HIST . . 100 . . . . .	Cultural and Historical Linked to Travel . . . . .	1-3
ICS . . . 255 . . . . .	Race and Ethnic Relations . . . . .	5
ENGL . . 180 . . . . .	Multicultural Literature . . . . .	5
ENGL& . 254 . . . . .	World Literature I . . . . .	5
ENGL& . 255 . . . . .	World Literature II . . . . .	5
PHIL . . 131 . . . . .	World Religions . . . . .	5
PL . . . 210 . . . . .	Immigration Law . . . . .	3
POLS& . 204 . . . . .	Comparative Government . . . . .	5
POLS& . 203 . . . . .	International Relations . . . . .	5
SOC& . . 201 . . . . .	Social Problems . . . . .	5
SPAN . . 260 . . . . .	Spanish Literature Readings . . . . .	3
SPAN . . 261 . . . . .	Spanish Literature Readings . . . . .	3
SPAN . . 262 . . . . .	Spanish Literature Readings . . . . .	3
CMST. . . 260 . . . . .	Multicultural Communications . . . . .	5

**Total Credits Required. . . . . 90**

In addition to the above required coursework, it is extremely important to stay in close contact with your faculty advisor.



## Learning Opportunity Center

<http://www.columbiabasin.edu/home/index.asp?page=733>

**Department Overview:** The Learning Opportunities Center, Pasco campus, is a large classroom where many courses are offered simultaneously in a lab format. Instruction is provided one-on-one with faculty, through textbooks, and through the use of computers. The developmental education courses offered are as follows:

ENGL 086, ENGL 087, ENGL 088 Writing Skills

- ENGL 091 Grammar Skills
- MATH 080 Whole Numbers
- MATH 081 Fractions
- MATH 082 Measurements, Decimals & Percents
- MATH 083 Review Basics
- MATH 084 Algebra/Geometry
- RDG 079 Spelling
- RDG 080, RDG 081, RDG 082 Study Techniques
- RDG 083, RDG 084, RDG 085 Vocabulary Improvement
- RDG 086, RDG 087, RDG 088 Reading Skills
- RDG 089 Speed Reading
- The LOC also offers courses at college-level which are designed to improve college success. Those courses are as follows:
- RDG 105 Speed Reading
- RDG 110 Study Techniques
- RDG 115 Vocabulary Improvement

To find out more about the courses offered by the LOC, find a detailed description in the CBC Catalog.

The LOC, WorkSource, located in Kennewick, offers a limited number of developmental education courses in a modularized format.



## Machine Technology

<http://www.columbiabasin.edu/home/index.asp?page=762>

**Department Overview:** From the airplane's wings to a toy alligator's computer chip, it was a machinist who made the first product, made the prototype of the product and made the machine technology and computers now a part of the machinist's day-to-day process, the industry is expanding, creating more job opportunities for skilled employees.

The CBC Machine Technology curriculum includes trade support theory courses in conjunction with laboratory training and general education courses. For more information call (509) 544-2267.

At the end of the program successful students will be able to:

- demonstrate manual machining skills, (operation of lathes, milling machines and surface grinders, tool), grinding skills and blueprint reading skills;
- operate high tech equipment, such as electrical discharge machines and computerized numerical control machine;
- demonstrate skills in computer-aided drafting, solid modeling, and computer-aided manufacturing;
- use math and problem-solving skills.

The department requires students achieve a minimum grade of 2.0 to be able to continue enrollment in major courses. The Associate of Applied Science degree also requires a minimum grade of 2.0 for each major course. A student who achieves a grade of 1.9 or lower in any required major courses may repeat that course once to attempt to achieve a grade of 2.0 or higher. Exceptions to this policy must be approved by the Dean of the program prior to enrollment and must be based on extenuating circumstances.

## Associate in Applied Science in Machine Technology

PROFESSIONAL TECHNICAL

### Major Courses

Course No.	Course Title	Credits
MT . . . 102. . . . .	Solidworks for Machine Technology . . . . .	5
MT . . . 111. . . . .	Basic Machine Technology I . . . . .	5
MT . . . 1111. . . . .	Basic Machine Technology I Lab . . . . .	9
MT . . . 121. . . . .	Basic Machine Technology II . . . . .	5
MT . . . 1211. . . . .	Basic Machine Technology II Lab . . . . .	9
MT . . . 131. . . . .	Basic Machine Technology III . . . . .	5
MT . . . 1311. . . . .	Basic Machine Technology III Lab . . . . .	9
MT . . . 211. . . . .	Advanced Machine Technology I . . . . .	5
MT . . . 2111. . . . .	Advanced Machine Technology I Lab . . . . .	9
MT . . . 221. . . . .	Advanced Machine Technology II . . . . .	5
MT . . . 2211. . . . .	Advanced Machine Technology II Lab . . . . .	9
MT . . . 231. . . . .	Advanced Machine Technology III . . . . .	5
MT . . . 2311. . . . .	Advanced Machine Technology III Lab . . . . .	9
<b>Subtotal. . . . .</b>		<b>89</b>

### Major Support

A.A.S. degree candidates must complete all of the core curriculum plus the following courses:

Course No.	Course Title	Credits
BPR . . . 204. . . . .	Blueprint Reading II (MT) . . . . .	3
FYI . . . 103. . . . .	First Year Introduction for Trades . . . . .	1
<b>Subtotal. . . . .</b>		<b>4</b>

### General Education

Course No.	Course Title	Credits
MATH . . 112. . . . .	Machinist Math. . . . .	5

### English (select 5 credits)

ENGL& . 101. . . . .	English Composition I <b>or</b> . . . . .	5
ENGL . . 103. . . . .	Writing in the Workplace <b>or</b> . . . . .	5
ENGL& . 235. . . . .	Technical Writing . . . . .	5

### Human Relations (select 3-5 credits)

PSYC . . 103. . . . .	Applied Psychology <b>or</b> . . . . .	3
PSYC& . 100. . . . .	General Psychology <b>or</b> . . . . .	5
PSYC . . 201. . . . .	Social Psychology <b>or</b> . . . . .	5
BUS . . . 271. . . . .	Human Relations Business . . . . .	5

### Speech (select 3-5 credits)

CMST . . 101. . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST& . 220. . . . .	Public Speaking <b>or</b> . . . . .	5
CMST . . 110. . . . .	Communication Behavior <b>or</b> . . . . .	3
CMST& . 210. . . . .	Interpersonal Communication <b>or</b> . . . . .	5
CMST . . 260. . . . .	Multicultural Communications . . . . .	5
<b>Subtotal. . . . .</b>		<b>16-20</b>

**Total Credits Required. . 109-113**



## Mathematics

<http://www.columbiabasin.edu/home/index.asp?page=814>

**Department Overview:** Mathematics courses are required by a vast number of technical, occupational, and academic disciplines. The Math department seeks to support these needs by providing a full range of courses for students seeking associate degrees and certificates and students seeking to transfer to baccalaureate institutions. Additionally, courses are provided for students who require developmental math.

## Associate in Arts & Science with an Emphasis in Mathematics

TRANSFER DEGREE

Option C

### A. Communication (13 credits)

Course No.	Course Title	Credits
ENGL& . 101 . . . . .	English Composition I . . . . .	5
ENGL& . 102 . . . . .	Composition II <b>or</b> . . . . .	5
ENGL& . 235 . . . . .	Technical Writing . . . . .	5
CMST. . 101 . . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST& . 220 . . . . .	Public Speaking <b>or</b> . . . . .	5
CMST. . 260 . . . . .	Multicultural Communications . . . . .	5

### Math Proficiency (Refer to Placement Test)

1. Intermediate Algebra Proficiency requirement. Must do one of the following:

\*Pass Intermediate Algebra (MATH 095 or MATH 098) with a 2.0 or better.

\*Pass a math class that has an Intermediate Algebra prerequisite.

\*Place into any math course MATH 113 or above via ASSET.

### B. Quantitative/Symbolic Reasoning (5 credits)

Course No.	Course Title	Credits
MATH& . 151 . . . . .	Calculus I . . . . .	5

### C. Humanities (15 credits)

Course selections must also meet the Humanities distribution requirements for the AA degree. Complete at least one course from any three of the following groups. Courses must be selected from three different subject areas.

Art . . . . .	5
English . . . . .	5
History. . . . .	5
World Languages (Excluding conversational classes.) All count as a single subject area. . . . .	5

### D. Social & Behavioral Science (15 credits)

Course selections must also meet the Social & Behavioral distribution requirements for the AA degree.

Social & Behavioral Science Electives . . . . .	15
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### E. Mathematical & Natural Science (15 credits)

Course selections must also meet the Mathematical & Natural Science distribution requirements for the AA degree.

Course No.	Course Title	Credits
MATH& . 152 . . . . .	Calculus II . . . . .	5
MATH& . 153 . . . . .	Calculus III. . . . .	5
PHYS& . 221 . . . . .	Engineering Physics I . . . . .	4
PHYS& . 231 . . . . .	Engineering Physics Lab I . . . . .	1

### F. Health and Physical Education (3 credits)

Selected from PE Activity Classes or Health (HE) Classes . . . . . 3

Maximum 6 credits of PE activity may be applied: 3 credits in Health & PE and 3 credits included in restricted electives.

### G. Emphasis Courses (25 credits required electives)

A minimum cumulative 2.0 GPA is required for a Mathematics emphasis. Additional electives require departmental approval.

Course No.	Course Title	Credits
MATH& . 254 . . . . .	Calculus IV. . . . .	5
PHYS& . 222 . . . . .	Engineering Physics II . . . . .	4
PHYS& . 232 . . . . .	Engineering Physics Lab II. . . . .	1
MATH . 243 . . . . .	Linear Algebra . . . . .	5
MATH . 255 . . . . .	Differential Equations . . . . .	5
Additional elective with departmental approval. . . . .		5

**Total Credits Required. . . . . 91**

**Additional Notes:**

\*Required minimum credits 90.

\*Required cumulative 2.0 GPA is required for a Mathematics Emphasis.

\*A minimum of 30 credits must be CBC courses.

\*Depending on your major, some course choices may be more appropriate than others.

\*Consult with your counselor or faculty advisor. Maximum 6 credits of PE activity may be applied: 3 credits in Health and PE and 3 credits included in restricted electives.



## Associate in Arts & Science in Math Education-DTA

TRANSFER DEGREE

### A. Communication (13 credits)

Course No.	Course Title	Credits
ENGL& . 101. . . . .	English Composition I . . . . .	5
ENGL& . 102. . . . .	Composition II . . . . .	5
CMST. . 101. . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST&. . 220. . . . .	Public Speaking. . . . .	5

Math Proficiency (Refer to Placement Test)

1. Intermediate Algebra Proficiency requirement. Must do one of the following:

\*Pass Intermediate Algebra (MATH 095 or MATH 098) with a 2.0 or better.

\*Pass a math class that has an Intermediate Algebra prerequisite.

\*Place into any math course MATH 113 or above via ASSET.

### B. Quantitative /Symbolic Reasoning (5 credits)

Course No.	Course Title	Credits
MATH& . 151. . . . .	Calculus I . . . . .	5

### C. Humanities (15 credits)

Course selections must also meet the Humanities distribution . . . . . 15  
requirements for the AA degree.

### D. Social & Behavioral Science (15 credits)

*Course selections must also meet the Social & Behavioral distribution requirements for the AA degree.*

Social & Behavioral Science Electives

Course No.	Course Title	Credits
PSYC& . 100. . . . .	General Psychology . . . . .	5

### E. Mathematical & Natural Science (15 credits)

*Course selections must also meet the Mathematical & Natural Science distribution requirements for the AA degree. One course must be a laboratory science.*

Course No.	Course Title	Credits
MATH& . 152. . . . .	Calculus II . . . . .	5
. . . . .	Physics & Lab . . . . .	5
. . . . .	Physics & Lab . . . . .	5

### F. Health and Physical Education (3 credits)

Selected from PE Activity Classes or Health (HE) Classes . . . . . 3

*Maximum 6 credits of PE activity may be applied: 3 credits in Health & PE and 3 credits included in restricted electives.*

### G. Emphasis Courses (24 credits required electives)

*A minimum cumulative 2.0 GPA is required for a Mathematics emphasis. Additional electives require departmental approval.*

Course No.	Course Title	Credits
MATH& . 153. . . . .	Calculus III. . . . .	5
MATH& . 254. . . . .	Calculus IV. . . . .	5
MATH . 243. . . . .	Linear Algebra . . . . .	5
Additional electives with departmental approval. . . . .		9

**Total Credits Required. . . . . 90**

*Additional Notes:*

*\*Required minimum credits 90.*

*\*Required cumulative 2.0 GPA is required for a Mathematics Emphasis.*

*\*A minimum of 30 credits must be CBC courses.*

*\*Depending on your major, some course choices may be more appropriate than others.*

*\*Consult with your counselor or faculty advisor. Maximum 6 credits of PE activity may be applied: 3 credits in Health and PE and 3 credits included in restricted electives.*



## Medical Assistant

<http://www.columbiabasin.edu/home/index.asp?page=792>

**Department Overview:** The Medical Assistant program prepares a student to work within the medical office with skills in office administrative tasks as well as clinical and patient care skills. The program provides a two-year Associate of Applied Science degree as well as a One-Year Certificate in Medical Assistant.

Students must meet minimum entrance standards and be accepted for enrollment after application to the department. The major courses for the Medical Assistant program are offered over a four-quarter sequence, beginning in fall quarter of each year. The fourth quarter of the program will be offered in the summer in which students will be active in externships throughout the healthcare community.

Students may complete general education requirements and major support courses flexibly, either before or after completion of the Medical Assistant major courses.

Prerequisites that must be fulfilled prior to application to the Medical Assistant program include:

- Prepared for MATH 083 or higher
- Reading ability at the RDG 099 level or higher
- Able to type a minimum of 25 words per minute
- Current healthcare provider CPR card
- Current first-aid card
- Completed a minimum of seven documented hours of HIV education.

A Medical Assistance application is required for consideration into the program. More information is available from the Health Sciences Division office at (509) 544-8300.

**The following are required for the first day of class:**

- Criminal History Background Check
- Current list of required immunizations
- Signed Confidentiality Statement
- Malpractice Insurance

## Associate in Applied Science in Medical Assistant

Curriculum (First and Second Year)\*\*

PROFESSIONAL TECHNICAL

### Major Courses

Course No.	Course Title	Credits
MA . . . 111. . . . .	Pharmacology I . . . . .	5
MA . . . 114. . . . .	Human Body Structure, Function, and Diseases I . . . . .	4
MA . . . 115. . . . .	Clinical Procedures Theory I . . . . .	4
MA . . . 1151 . . . . .	Clinical Procedures Lab I . . . . .	4
MA . . . 140. . . . .	Administrative Medical Assistant Office Procedures I . . . . .	5
MA . . . 141. . . . .	Career Development for Medical Assistants . . . . .	2
MA . . . 211. . . . .	Pharmacology II . . . . .	5
MA . . . 214. . . . .	Human Body Structure, Function, and Diseases II . . . . .	4
MA . . . 215. . . . .	Clinical Procedures Theory II . . . . .	4
MA . . . 2151 . . . . .	Clinical Procedures Lab II . . . . .	4
MA . . . 240. . . . .	Administrative Medical Assistant Office Procedures II . . . . .	5
MA . . . 241. . . . .	Externship Seminar . . . . .	1
MA . . . 2413 . . . . .	Externship . . . . .	6
<b>Subtotal. . . . .</b>		<b>53</b>

### Major Support

#### Electives (select 15 credits)

Course No.	Course Title	Credits
. . . . . +100 . . . . .	Humanities, Social Science, Behavioral Science, <b>or</b> Natural Science Distribution List . . . . .	15
HIT . . . 115. . . . .	Legal Aspects of the Medical Office I . . . . .	2
HIT . . . 147. . . . .	Medical Terminology . . . . .	5
<b>Subtotal. . . . .</b>		<b>22</b>

### General Education

Course No.	Course Title	Credits
ENGL& . 101. . . . .	English Composition I . . . . .	5
MATH . . 106+ . . . . .	MATH 106 <b>or</b> above (except MATH 109) . . . . .	5
PSYC& . 100. . . . .	General Psychology . . . . .	5

### Speech (select 3-5 credits)

CMST. . . 101. . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST& . 220. . . . .	Public Speaking . . . . .	5
<b>Subtotal. . . . .</b>		<b>18-20</b>

**Total Credits Required. . . . . 93-95**

**\*\*Students who complete the Associate of Applied Science may be able to license as a Category F Health Care Assistant (WAC 246-826-180).**



## Medical Assistant

Curriculum (First Year)\*

PROFESSIONAL TECHNICAL

One-Year Certificate

### Major Courses

Course No.	Course Title	Credits
MA . . . 111. . . . .	Pharmacology I . . . . .	5
MA . . . 114. . . . .	Human Body Structure, Function, and Diseases I . . . . .	4
MA . . . 115. . . . .	Clinical Procedures Theory I . . . . .	4
MA . . . 1151. . . . .	Clinical Procedures Lab I . . . . .	4
MA . . . 140. . . . .	Administrative Medical Assistant Office Procedures I . . . . .	5
MA . . . 141. . . . .	Career Development for Medical Assistants . . . . .	2
MA . . . 211. . . . .	Pharmacology II . . . . .	5
MA . . . 214. . . . .	Human Body Structure, Function, and Diseases II . . . . .	4
MA . . . 215. . . . .	Clinical Procedures Theory II . . . . .	4
MA . . . 2151. . . . .	Clinical Procedures Lab II . . . . .	4
MA . . . 240. . . . .	Administrative Medical Assistant Office Procedures II . . . . .	5
MA . . . 241. . . . .	Externship Seminar . . . . .	1
MA . . . 2413. . . . .	Externship . . . . .	6
<b>Subtotal. . . . .</b>		<b>53</b>

### Major Support

Course No.	Course Title	Credits
HIT . . . 115. . . . .	Legal Aspects of the Medical Office I . . . . .	2
HIT . . . 147. . . . .	Medical Terminology . . . . .	5
<b>Subtotal. . . . .</b>		<b>7</b>

### General Education

Course No.	Course Title	Credits
PSYC& . . 100. . . . .	General Psychology . . . . .	5
ENGL& . . 101. . . . .	English Composition I . . . . .	5
CMST. . . 101. . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST&. . 220. . . . .	Public Speaking. . . . .	5
<b>Subtotal. . . . .</b>		<b>13-15</b>
<b>Total Credits Required. . . . .</b>		<b>73-75</b>

\*Students who complete only the One-Year Certificate may be able to license as a Category E Health Care Assistant (WAC 246-826-170).



## Medical Imaging Technology

<http://>

**Department Overview:** The IMAGE courses are designed to prepare students for advanced level ARRT certification examinations in the following three areas:

- Computed Tomography (CT)
- Magnetic Resonance Imaging (MRI)
- Mammography

For additional information, see the program specialty information.

### Computed Tomography (CT)

The Computed Tomography certificate program is designed to address competency development required by the American Registry of Radiologic Technologists (ARRT) for the advanced level certification exam in Computed Tomography (CT). In addition to clinical competency, academic coursework is offered to prepare the student for the exam administered by the ARRT. Coursework includes sectional anatomy, physics, and instrumentation of CT scanning machines. Additional work experience may be needed to satisfy the minimum number of exams necessary to qualify for the ARRT advanced level exam in CT. The program is designed for certified technologists registered by the ARRT in Radiography, Nuclear Medicine, or Radiation Therapy.

### Magnetic Resonance Imaging (MRI)

The Magnetic Resonance Imaging (MRI) certificate program is designed to address competency development required by the American Registry of Radiologic Technologists (ARRT) for the advanced level certification exam in Magnetic Resonance Imaging (MRI). In addition to clinical competency, academic coursework is offered to prepare the student for the exam administered by the ARRT. Coursework includes sectional anatomy, physics, and instrumentation of MRI scanning machines. Additional work experience may be needed to satisfy the minimum number of exams necessary to qualify for the ARRT advanced level exam in MRI. The program is designed for certified technologists registered by the ARRT in Radiography, Nuclear Medicine, or Radiation Therapy.

### Mammography

The Mammography short-term certificate program is designed to prepare radiologic technologists certified by the ARRT in Radiography [R.T. (R)] in the specialized emerging area of mammography. Lecture, lab, and academic coursework are offered to prepare students for the advanced level certification exam offered by the ARRT in Mammography. Students may need additional work experience to satisfy the minimum number of exams to be accomplished under supervision to qualify for the exam.

## Bone Densitometry

PROFESSIONAL TECHNICAL

SHORT-TERM CERTIFICATE

### Major Courses

Course No.	Course Title	Credits
IMAGE . 100 . . . . .	Bone Densitometry . . . . .	4
IMAGE . 110 . . . . .	Bone Densitometry Clinical Practicum . . . . .	4
<b>Subtotal. . . . .</b>		<b>8</b>
<b>Total Credits Required. . . . .</b>		<b>8</b>

*Program Prerequisites: current enrollment in an approved Radiologic Technology program or ARRT Certified Radiologic Technologist.*

## Computed Tomography (CT) Technology

PROFESSIONAL TECHNICAL

SHORT-TERM CERTIFICATE

### Major Courses

Course No.	Course Title	Credits
IMAGE . 250 . . . . .	Cross Sectional Anatomy . . . . .	3
IMAGE . 251 . . . . .	Advanced Sectional Anatomy. . . . .	2
IMAGE . 265 . . . . .	Body Pathophysiology . . . . .	3
IMAGE . 266 . . . . .	Neuropathophysiology . . . . .	3
IMAGE . 270 . . . . .	CT Clinical Practicum I . . . . .	12
IMAGE . 280 . . . . .	CT Instrumentation . . . . .	3
<b>Subtotal. . . . .</b>		<b>26</b>
<b>Total Credits Required. . . . .</b>		<b>26</b>

## Magnetic Resonance Imaging (MRI) Technology

PROFESSIONAL TECHNICAL

SHORT-TERM CERTIFICATE

### Major Courses

Course No.	Course Title	Credits
IMAGE . 250 . . . . .	Cross Sectional Anatomy . . . . .	3
IMAGE . 251 . . . . .	Advanced Sectional Anatomy. . . . .	2
IMAGE . 265 . . . . .	Body Pathophysiology . . . . .	3
IMAGE . 266 . . . . .	Neuropathophysiology . . . . .	3
IMAGE . 271 . . . . .	MRI Clinical Practicum II. . . . .	12
IMAGE . 281 . . . . .	MRI Instrumentation and Procedures . . . . .	3
<b>Subtotal. . . . .</b>		<b>26</b>
<b>Total Credits Required. . . . .</b>		<b>26</b>

## Mammography

PROFESSIONAL TECHNICAL

SHORT-TERM CERTIFICATE

### Major Courses

Course No.	Course Title	Credits
IMAGE . 225 . . . . .	Mammography . . . . .	4
IMAGE . 229 . . . . .	Mammography Clinical . . . . .	4
<b>Subtotal. . . . .</b>		<b>8</b>
<b>Total Credits Required. . . . .</b>		<b>8</b>



## Multi-Occupational Trades

The Associate of Applied Science in Multi-Occupational Trades provides a two-year degree option for students in registered apprenticeship programs through Columbia Basin College. Current apprenticeship programs that would qualify for this program include carpenters, electricians, millwrights, sheet metal, and plumbers & pipefitters.

Students obtain the "major" course work from a minimum of 5,200 OJT and 450 related training hours from their apprenticeship program. The general education requirements and one elective course, 20 – 23 credits/220 – 253 hours, are completed at Columbia Basin College.

For apprentices, this degree program allows them an opportunity to strengthen their resume. Additional education benefits apprentices in future career progressions such as foreman or above. Each career progression is a pay increase of 5 to 15 percent depending on the trade. It also allows individuals the potential access to other employment opportunities in the future like management, teaching, or full time safety coordinator positions.

## Associate in Applied Science in Multi-Occupational Trades

PROFESSIONAL TECHNICAL

### Major Courses

1. Completion of an apprenticeship program of at least 5,200 (equivalent to 95 credit hours) OJT hours certified by JATC.
2. Completion of 450 hours (equivalent to 34 credit hours) of related training certified by JATC.

**Subtotal 5650 hours. . . . 129**

### Major Support

**Select one of the following with approval from JATC:**

Course	No.	Course Title	Credits
BUS&	.101	Intro to Business	5
BUS	.130	Project Management	5
BUS	.262	Management Principles	5
CA	.100	Introduction to Microcomputers	4
SPAN&	.121+	Spanish 121 or above	5
<b>Subtotal.</b>			<b>.4-5</b>

### General Education

Course	No.	Course Title	Credits
MATH	.106+	Math 106 or above	5

### English (select 5 credits)

ENGL&	.101	English Composition I or	5
ENGL	.103	Writing in the Workplace	5

### Human Relations (select 3-5 credits)

PSYC	.103	Applied Psychology or	3
PSYC&	.100	General Psychology or	5
BUS	.271	Human Relations Business or	5
CMST	.260	Multicultural Communications	5

### Speech (select 3-5 credits)

CMST	.101	Speech Essentials or	3
CMST&	.220	Public Speaking or	5
CMST	.103	Workplace Communication or	3
CMST	.110	Communication Behavior or	3
CMST&	.210	Interpersonal Communication	5

**Subtotal. . . . 16-20**

**Total hours: 5870-5925 Equivalent Credit Hours. . . 149-154**



## Music

<http://www.columbiabasin.edu/home/index.asp?page=713>

**Department Overview:** Music offerings at Columbia Basin College meet the requirements for the first two years of Bachelor of Arts or Bachelor of Science degrees in music at most four-year institutions; enhance the musical knowledge and performance ability of students wishing to enter the professional field with an Associate in Arts degree; and provide general leisure activity.

Music majors should choose a major instrument or voice for performance emphasis and register for appropriate applied music courses. Music majors should also register for the music theory sequence beginning with the fall quarter of their freshman year. All students in the college are encouraged to participate in the performance groups. Students planning to major in music must participate in at least one large performing group per quarter.

Career opportunities include the fields of music performance, teaching (public and private), composition, music ministry, music industry, music library studies, ethnomusicology, systematic musicology, music history, and music therapy.

## Associate in Arts & Science with an Emphasis in Instrumental Music

TRANSFER DEGREE

Option C

### A. Communication (13 credits)

Course No.	Course Title	Credits
ENGL& . 101 . . . . .	English Composition I . . . . .	5
ENGL& . 102 . . . . .	Composition II . . . . .	5
CMST . 101 . . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST . 110 . . . . .	Communication Behavior . . . . .	3

### Math Proficiency . . . . . X

### B. Quantitative/Symbolic Reasoning (5 credits). . . . . 5

### C. Humanities (15 credits)

*Course selections must also meet the Humanities distribution requirements for the AA degree.*

Course No.	Course Title	Credits
MUSC& . 105 . . . . .	Music Appreciation . . . . .	5
Humanities Electives . . . . .		10

### D. Social & Behavioral Science (15 credits)

*Course selections must also meet the Social & Behavioral Science distribution requirements for the AA degree.*

Social & Behavioral Science Electives . . . . .	15
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### E. Mathematical & Natural Science (15 credits)

*Course selections must also meet the Mathematical & Natural Science distribution requirements for the AA degree.*

Mathematical & Natural Science Electives . . . . .	15
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### F. Health and Physical Education (3 credits)

Selected from PE Activity Classes or Health (HE) Classes . . . . .	3
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### G. Electives (48-50 required electives)

Course No.	Course Title	Credits
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 . 236 . . . . .	Class Piano/Music Majors <b>or</b> . . . . .	2
MUSC . 134 . . . . .	Piano Class <b>or</b> . . . . .	2
MUSC . 135 . . . . .	Piano Class <b>or</b> . . . . .	2
MUSC . 136 . . . . .	Piano Class . . . . .	2
MUSC . 171 . . . . .	Ear Training Fundamentals . . . . .	1
MUSC . 172 . . . . .	Ear Training Fundamentals . . . . .	1
MUSC . 173 . . . . .	Ear Training Fundamentals . . . . .	1
MUSC . 274 . . . . .	Advanced Ear Training . . . . .	1
MUSC . 275 . . . . .	Advanced Ear Training . . . . .	1
MUSC . 276 . . . . .	Advanced Ear Training . . . . .	1
MUSC . 118 . . . . .	Band - must be enrolled for six quarters <b>or</b> . . . . .	6
MUSC . 123 . . . . .	Applied Music - must be enrolled for six quarters <b>or</b> . . . . .	6
MUSC . 124 . . . . .	Applied Music-must be enrolled for six quarters <b>or</b> . . . . .	6
MUSC . 125 . . . . .	Orchestra-must be enrolled for six quarters . . . . .	6

**Total Credits Required. . 114-116**

*It is understood an instrumental music major will complete more electives than the minimum 24 required for an AA degree. In addition to the above required coursework, it is extremely important to stay in close contact with your faculty advisor. It is possible your faculty advisor will recommend additional coursework within the Music department.*



## Associate in Arts & Science with an Emphasis in Vocal Music

TRANSFER DEGREE

Option C

### A. Communication (13 credits)

Course No.	Course Title	Credits
ENGL& . 101 . . . . .	English Composition I . . . . .	5
ENGL& . 102 . . . . .	Composition II . . . . .	5
CMST. . 101 . . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST. . 110 . . . . .	Communication Behavior . . . . .	3

**Math Proficiency** . . . . . X

**B. Quantitative/Symbolic Reasoning (5 credits).** . . . . . 5

### C. Humanities (15 credits)

*Course selections must also meet the Humanities distribution requirements for the AA degree.*

Course No.	Course Title	Credits
MUSC& . 105 . . . . .	Music Appreciation. . . . .	5
Humanities Electives . . . . .		10

### D. Social & Behavioral Science (15 credits)

*Course selections must also meet the Social & Behavioral Science distribution requirements for the AA degree.*

Social & Behavioral Science Electives . . . . . 15

### E. Mathematical & Natural Science (15 credits)

*Course selections must also meet the Mathematical & Natural Science requirements distribution for the AA degree.*

Mathematical & Natural Science Electives . . . . . 15

### F. Health and Physical Education (3 credits)

Selected from PE Activity Classes or Health (HE) Classes . . . . . 3

### G. Electives (48-50 required electives)

Course No.	Course Title	Credits
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 . 236 . . . . .	Piano Class/Music Majors <b>or</b> . . . . .	2
MUSC . 134 . . . . .	Piano Class or . . . . .	2
MUSC . 135 . . . . .	Piano Class or . . . . .	2
MUSC . 136 . . . . .	Piano Class . . . . .	2
MUSC . 171 . . . . .	Ear Training Fundamentals . . . . .	1
MUSC . 172 . . . . .	Ear Training Fundamentals . . . . .	1
MUSC . 173 . . . . .	Ear Training Fundamentals . . . . .	1
MUSC . 274 . . . . .	Advanced Ear Training . . . . .	1
MUSC . 275 . . . . .	Advanced Ear Training . . . . .	1
MUSC . 276 . . . . .	Advanced Ear Training . . . . .	1
MUSC . 181 . . . . .	Chorus - must be enrolled for six quarters <b>or</b> . . . . .	6
MUSC . 281 . . . . .	Advanced Chorus - must be enrolled for six quarters . . . . .	6
MUSC . 123 . . . . .	Applied Music - must be enrolled for six quarters <b>or</b> . . . . .	6
MUSC . 124 . . . . .	Applied Music - must be enrolled for six quarters <b>or</b> . . . . .	6
MUSC . 125 . . . . .	Orchestra - must be enrolled for six quarters . . . . .	6

**Total Credits Required. . 114-116**

*It is understood a vocal music major will complete more electives than the minimum 24 required for an AA degree. In addition to the above required coursework, it is extremely important to stay in close contact with your faculty advisor. It is possible your faculty advisor will recommend additional coursework within the Music department.*



## Non-Destructive Testing

<http://>

**Department Overview:** Non-destructive testing is a method of testing equipment and materials which does not destroy them or effect their future performance or properties. Non-destructive testing is used to detect abnormalities in physical, chemical, or electrical characteristics.

## Nuclear Medicine Technology

<http://>

**Department Overview:** Nuclear medicine is the medical specialty that utilizes the nuclear properties of radioactive and stable nuclides to make diagnostic evaluations of the physiologic and/or anatomic conditions of the body and to provide therapy with unsealed radioactive sources. The Nuclear Medicine Technologist is an allied health professional who, under the direction of an authorized user, is committed to applying the art and skill of diagnostic evaluation and therapeutics through the safe and effective use of radionuclides. Responsibilities include, but are not limited to: preparation, quality control testing and administration of radioactive compounds; execution of patient imaging procedures including computer processing and image enhancement; laboratory testing; patient interviews; instruction and preparation for administration of prescribed radioactive compounds for therapy; quality control; and radiation safety.

This is an 18-month, full-time Nuclear Medicine Technology program leading to an Associate of Arts in Nuclear Medicine Technology at Bellevue College. It is offered through a cooperative effort between Columbia Basin College and Bellevue College. The curriculum prepares students in all aspects of nuclear medicine technology. In addition to performing a wide variety of imaging and therapeutic procedures, students learn to prepare and administer radiopharmaceuticals, explain the procedures and their risks, take patient histories, and analyze the results of each study. Students work with a number of radiation detection systems, including gamma cameras and positron emission tomography systems. They also work with computers that analyze data from imaging studies in addition to those used for administrative tasks. Most importantly, students work directly with patients helping to ease their anxiety as well as provide important test result information for physician diagnosis of their ailments. Through the use of distance education and interactive television courses, Bellevue College will deliver course content to students at Columbia Basin College. Students will be able to complete the clinical portion of the degree at clinical facilities in the Tri-City area. Upon successful program completion, students are eligible for national certification exams as well as Washington State licensure.

Students are required to attend a Nuclear Medicine Information Session at CBC prior to applying for the program through Bellevue College. The prospective student would then apply to BCC for the program which is a selective and competitive admissions process. Tuition and fees for the entire program are approximately \$8,000; books are approximately \$500, most of which are purchased at the beginning of the program.



## Nursing

<http://www.columbiabasin.edu/home/index.asp?page=656>

**Department Overview:** Columbia Basin College offers a National League for Nursing Accredited Career Ladder Nursing program. The curriculum is designed to utilize individual and group teaching strategies. Instruction takes place on campus as well as in local healthcare facilities. A lab is provided on campus to learn and practice clinical skills. For more information call (509) 544-8309.

Two major entry points are offered. The first is at the beginning level for individuals with no experience in nursing education. A new class is admitted each fall quarter. Secondly, LPNs may enter the Advanced Placement program without having to repeat course material they have already mastered. Transfer students are accommodated, as there is space available. Placement is based upon individual evaluation of past education.

An exit avenue is provided at the end of each year of the Nursing program. Following successful completion of the first year (4 quarters), students receive a Practical Nurse Certificate and are eligible to take the LPN Licensure exam. Following successful completion of the second year (7 quarters), students receive an Associate in Applied Science degree and are eligible to take the RN State Board Licensure exam.

### Entrance Requirements

#### PRE-NURSING

Students are strongly encouraged to complete as many nursing support courses as possible before entering the Nursing program. These courses provide points for the Admission Index Score. It is especially helpful to have the science classes completed before entry. Students should contact the Admissions department to work with an advisor after attending a pre-nursing information session. Students apply to the Nursing program in January prior to planned entry year. For additional information, please see Entrance Requirements. Nursing support courses that may be completed prior to entry include the following:

- Human A&P 1, BIOL& 241/BIOL& 241L
- Human A&P 2, BIOL& 242/BIOL& 242L
- English Composition I, ENGL& 101
- General Psychology, PSYC& 100
- Lifespan Psychology, PSYC& 200
- Microbiology, BIOL& 260/BIOL& 260L
- Math, MATH above 100
- Speech Essentials, CMST 101

### Entrance Requirements

Students are admitted based on their Admission Index Score, which utilizes three elements within the entrance requirements for program admission. Those elements include (A) cumulative grade point average among four selected courses, (B) pre-nursing assessment score (TEAS), and (C) departmental course completion score index. Students with the highest Admission Index Score will be admitted first. Admission to the program is limited and completion of entrance requirements does not ensure admission to the program. For further information please refer to the Nursing department on the CBC website. Students preparing for Nursing admission must meet the minimum program requirements:

- Demonstrate completion of high school with a GPA of 2.0 or GED certificate.
- Eligible to enter ENGL& 101 (English Composition I) based on COMPASS exam scores.
- Qualify for a five-credit Math class above 100 level based on COMPASS exam score.
- Complete one year of high school chemistry within the past five years or a five-credit college level introductory chemistry course, with a grade of 2.0 or higher. Demonstrate proof of high school course on submitted high school transcript.
- Eligible to enter BIOL& 241/BIOL& 242L (Human A&P 1 and Human A&P 2) or BIOL& 260/BIOL& 260L (Microbiology).

- Complete application to Columbia Basin College. Have all previous college transcripts transferred to CBC.
- Submit Nursing program application to Admissions in January of each year for the fall class.

**Once admitted into the program, each student will be responsible for the following:**

- Required immunization records.
- Current CPR card for Healthcare Provider.
- Satisfactory criminal history background check.

A minimum GPA of 2.0 per course must be obtained for the successful completion of the One-Year Certificate (Practical Nursing) and Associate Degree in Nursing departmental offerings. This 2.0 requirement is required for major courses, major support courses, and general education requirements.



# Program Offerings

## Associate in Applied Science in Nursing (ADN)

PROFESSIONAL TECHNICAL

### Major Courses

Course	No.	Course Title	Credits
NRS	111	Nursing I	7
NRS	1111	Nursing I Lab	4
NRS	121	Nursing II	5
NRS	1211	Nursing II Lab	5
NRS	131	Nursing III	5
NRS	1311	Nursing III Lab	5
NRS	1351	Nursing Trends Lab (2 credits per quarter)	6
NRS	211	Nursing IV	5
NRS	2111	Nursing IV Lab	5
NRS	221	Nursing V	5
NRS	2211	Nursing V Lab	5
NRS	222	Professional Issues I	1
NRS	231	Nursing VI	5
NRS	2311	Nursing VI Lab	8
NRS	232	Professional Issues II	1
NRS	2351	Nursing Trends Lab (1 credit per quarter)	3
<b>Subtotal.</b>			<b>75</b>

### Major Support

Course	No.	Course Title	Credits
BIOL&	241	Human A&P 1 w/Lab	6
BIOL&	241L*	Human A&P 1 Lab	0
BIOL&	242	Human A&P 2 w/Lab	6
BIOL&	242L*	Human A&P 2 Lab	0
BIOL&	260	Microbiology	6
BIOL&	260L*	Microbiology Lab	0
PSYC&	200	Lifespan Psychology	5
NRS	101	Basic Pharmacology	1
NRS	201	Pharmacology	1
<b>Subtotal.</b>			<b>25</b>

### General Education

Course	No.	Course Title	Credits
ENGL&	101	English Composition I	5
MATH	106+	MATH 106 <b>or</b> above (except MATH 109)	5
CMST	101	Speech Essentials	3
PSYC&	100	General Psychology	5
<b>Subtotal.</b>			<b>18</b>
<b>Total Credits Required.</b>			<b>118</b>

*Important: \*You must sign up for both lecture and lab courses to receive combined lecture and lab credits. Lab credits will display zero as they are included in the lecture credits.*

## LPN Curriculum One-Year Certificate

PROFESSIONAL TECHNICAL

### Major Courses

Course	No.	Course Title	Credits
NRS	111	Nursing I	7
NRS	1111	Nursing I Lab	4
NRS	121	Nursing II	5
NRS	1211	Nursing II Lab	5
NRS	131	Nursing III	5
NRS	1311	Nursing III Lab	5
NRS	141	Practical Nursing	5
NRS	1411	Practical Nursing Lab	6
NRS	1351	Nursing Trends Lab (2 credits per quarter)	6
<b>Subtotal.</b>			<b>48</b>

### Major Support

Course	No.	Course Title	Credits
BIOL&	241	Human A&P 1 w/Lab	6
BIOL&	241L*	Human A&P 1 Lab	0
BIOL&	242	Human A&P 2 w/Lab	6
BIOL&	242L*	Human A&P 2 Lab	0
PSYC&	100	General Psychology	5
NRS	101	Basic Pharmacology	1
<b>Subtotal.</b>			<b>18</b>

### General Education

Course No.	Course Title	Credits
ENGL& . 101	English Composition I	5
<b>Subtotal.</b>		<b>5</b>
<b>Total Credits Required.</b>		<b>71</b>

*Important: \*You must sign up for both lecture and lab courses to receive combined lecture and lab credits. Lab credits will display zero as they are included in the lecture credits.*

## Pre-Nursing Requirements

*Students should consult the catalog or the pre-nursing academic advisor for course prerequisites prior to pursuing this suggested sequence of pre-nursing classes.*

### Fall Quarter

Course	No.	Course Title	Credits
BIOL&	160	General Biology w/Lab &	5
BIOL&	160L*	General Biology Lab <b>or</b>	0
BIOL&	211	Majors Cellular w/Lab &	5
BIOL&	211L*	Majors Cellular Lab	0
CHEM&	110	Chemical Concepts w/Lab	5
CHEM&	110*L	Chemical Concepts Lab	0
CMST	101	Speech Essentials	3
<b>Subtotal.</b>			<b>13</b>

### Winter Quarter

Course	No.	Course Title	Credits
BIOL&	241	Human A&P 1 w/Lab	6
BIOL&	241L*	Human A&P 1 Lab	0
PSYC&	100	General Psychology	5
ENGL&	101	English Composition I	5
<b>Subtotal.</b>			<b>16</b>

### Spring Quarter

Course	No.	Course Title	Credits
BIOL&	242	Human A&P 2 w/Lab	6
BIOL&	242L*	Human A&P 2 Lab	0
PSYC&	200	Lifespan Psychology	5
MATH	106+	MATH 106 <b>or</b> above (except MATH 109)	5
<b>Subtotal.</b>			<b>16</b>

### Summer Quarter

Course	No.	Course Title	Credits
BIOL&	260	Microbiology w/Lab	6
BIOL&	260L*	Microbiology Lab	0
<b>Subtotal.</b>			<b>6</b>
<b>Total Credits Required.</b>			<b>51</b>

*Important: \*You must sign up for both lecture and lab courses to receive combined lecture and lab credits. Lab credits will display zero as they are included in the lecture credits.*



## Nursing Assistant

<http://www.columbiabasin.edu/home/index.asp?page=657>

**Department Overview:** The Nursing Assistant course is designed to prepare candidates for the Nursing Assistant Certification in Washington. This course is designed to comply with the Nursing Home Reform Act (OBRA 1987). The purpose of the National Nurse Aide Assessment Program (NNAAP) examination is to make sure that you understand and can safely perform the job of an entry-level Nursing Assistant. The NNAAP examination is a measure of Nursing Assistant-related knowledge, skills, and abilities that includes testing by both a written examination and a skills evaluation.

In order for students to successfully complete the Columbia Basin College Nursing Assistant (NA 100) course work, they will have to pass the class and the State Certificate test. Students that successfully complete the course work and testing will receive a Certification of Completion from the Department of Social and Health Services.

### Course Lecture Requirements

In order to complete the NA 100 class lecture hours, students are required to meet 3 to 4 days a week and attendance is mandatory.

### Course Clinical Requirements

Students are required to complete 50 clinical hours during the quarter. These hours will include a minimum of 36 shift hours. These shift hours will be held at various facilities in locations throughout the Tri-Cities. Students will be required to complete these hours during shifts that may start as early as 7:00 a.m. These hours will be arranged by the instructor with the facility. Students need to make arrangements to attend these required shifts, attendance is mandatory.

More information can be obtained from the Health Sciences Division office at (509) 544-8300.

### The following are required for the first day of class:

- Criminal History Background Check
- Current list of required immunizations
- Signed Confidentiality Statement
- Malpractice Insurance

## Nursing Assistant

PROFESSIONAL TECHNICAL

SHORT-TERM CERTIFICATE

### Major Courses

Course	No.	Course Title	Credits
NA . . . . 100 . . . . .		Nursing Assistant . . . . .	4
NA . . . . 1001 . . . . .		Nursing Assistant Lab . . . . .	4
<b>Subtotal. . . . .</b>			<b>8</b>
<b>Total Credits Required. . . . .</b>			<b>8</b>



## Nutrition [M/S]

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<http://www.columbiabasin.edu/home/index.asp?page=678>

**Department Overview:** Nutrition and Food Sciences currently offer a course designed to introduce students to the concept of food and nutrition to maintenance of a healthy life. Students will learn the principles of nutrition as they apply to macro-nutrients and metabolic pathways. Application of vitamins, minerals, and special nutritional requirements at different stages of the live cycle, as well as current issues in nutrition will be considered.



## Paralegal

<http://www.columbiabasin.edu/home/index.asp?page=763>

**Department Overview:** The Paralegal program is a two-year equivalent program for those interested in obtaining the necessary training to qualify as legal assistants or paralegals and be employed in various aspects of the legal profession in attorneys' offices or legal departments. This program is currently being offered as an evening program only, and the students should expect to take three to four courses per quarter to complete the program in a timely manner. It should be noted that a class load of 12 credits per quarter will require a minimum of eight quarters to complete the program. At the end of the program successful students will be able to:

- prepare professional quality legal documents;
- conduct research relating to legal cases and judgments;
- conduct interviews of clients and witnesses;
- prepare probate inventories;
- maintain a professional office by organizing and indexing documents;
- prepare clients for court hearing; and
- assist lawyers preparing for litigation.

## Associate in Applied Science in Paralegal

PROFESSIONAL TECHNICAL

### Major Courses

Course No.	Course Title	Credits
PL . . . . 101. . . . .	Introduction to Paralegalism . . . . .	5
PL . . . . 103. . . . .	Civil Procedures . . . . .	3
PL . . . . 104. . . . .	Criminal Procedures . . . . .	3
PL . . . . 105. . . . .	Law Office Management . . . . .	3
PL . . . . 107. . . . .	Interview/Investigation . . . . .	3
PL . . . . 121. . . . .	Beginning Contract Law . . . . .	3
PL . . . . 122. . . . .	Intermediate Contract Law . . . . .	3
PL . . . . 123. . . . .	Advanced Contract Law . . . . .	3
PL . . . . 131. . . . .	Introduction to Torts . . . . .	3
PL . . . . 132. . . . .	Intermediate Torts . . . . .	3
PL . . . . 133. . . . .	Advanced Torts . . . . .	3
PL . . . . 146. . . . .	Paralegal Ethics . . . . .	3
PL . . . . 147. . . . .	Computers in a Law Environment . . . . .	1
PL . . . . 1471. . . . .	Computers in a Law Environment Lab . . . . .	1
PL . . . . 150. . . . .	Introduction to Legal Writing . . . . .	3
PL . . . . 151. . . . .	Legal Research & Writing . . . . .	5
PL . . . . 152. . . . .	Advanced Legal Writing . . . . .	5
<b>Subtotal. . . . .</b>		<b>53</b>

### Major Support

**Students must choose at least 24 credits from the following:**

Course No.	Course Title	Credits
AOT. . . . 146. . . . .	Legal Terminology . . . . .	5
AOT. . . . 244. . . . .	Legal Administrative Office Procedures . . . . .	5
CJ&. . . . 101. . . . .	Intro to Criminal Justice . . . . .	3
CJ. . . . . 137. . . . .	Constitutional Law . . . . .	5
CJ. . . . . 232. . . . .	Criminal Investigation . . . . .	5
CJ. . . . . 234. . . . .	Criminal Evidence . . . . .	3
PL . . . . 108. . . . .	Administrative Law . . . . .	3
PL . . . . 1172. . . . .	Paralegal Seminar . . . . .	1-3
PL . . . . 141. . . . .	Probate Procedures . . . . .	3
PL . . . . 142. . . . .	Community Property Law . . . . .	3
PL . . . . 143. . . . .	Trial Preparation . . . . .	3
PL . . . . 145. . . . .	Family Law . . . . .	5
PL . . . . 1972. . . . .	Internship . . . . .	1-3
PL . . . . 201. . . . .	Commercial Law . . . . .	3
PL . . . . 210. . . . .	Immigration Law . . . . .	3
PL . . . . 212. . . . .	Real Estate & Personal Property . . . . .	3
PL . . . . 213. . . . .	Insurance Law . . . . .	3
PL . . . . 214. . . . .	Criminal Law . . . . .	3
PL . . . . 215. . . . .	Bankruptcy Law . . . . .	3
PL . . . . 216. . . . .	Corporate Law . . . . .	3
PL . . . . 219. . . . .	Environmental Law . . . . .	3
PL . . . . 220. . . . .	Employee Benefits Law . . . . .	3
PL . . . . 221. . . . .	Labor Law . . . . .	3

PL . . . . 222. . . . .	Personal Injury . . . . .	3
PL . . . . 2972. . . . .	Advanced Internship . . . . .	1-3
<b>Subtotal. . . . .</b>		<b>24</b>

### Electives: (choose 4-5 credits)

Course No.	Course Title	Credits
CA . . . . 100. . . . .	Introduction to Microcomputers . . . . .	4
CA . . . . 172. . . . .	Word Processing . . . . .	5
CS . . . . 106. . . . .	Database Systems . . . . .	5
AOT. . . . 101. . . . .	Keyboarding I . . . . .	2
AOT. . . . 102. . . . .	Keyboarding II . . . . .	2
AOT. . . . 1091. . . . .	Keyboarding/Skillbuilding . . . . .	3
AOT. . . . 172. . . . .	Word Processing I . . . . .	5
<b>Subtotal. . . . .</b>		<b>4-5</b>

### General Education

Course No.	Course Title	Credits
ENGL&. . 101. . . . .	English Composition I . . . . .	5
MATH . . 106+ . . . . .	MATH 106 <b>or</b> above . . . . .	5

### Psychology or Sociology (select 5 credits)

PSYC&. . 100. . . . .	General Psychology <b>or</b> . . . . .	5
SOC&. . . 101. . . . .	Intro to Sociology. . . . .	5

### Speech (select 3-5 credits)

CMST. . . 101. . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST&. . 220. . . . .	Public Speaking <b>or</b> . . . . .	5
CMST. . . 110. . . . .	Communication Behavior <b>or</b> . . . . .	3
CMST&. . 210. . . . .	Interpersonal Communication <b>or</b> . . . . .	5
CMST. . . 260. . . . .	Multicultural Communications . . . . .	5

**Subtotal. . . . . 18-20**

**Total Credits Required. . . 99-102**



## Paramedic

<http://www.columbiabasin.edu/home/index.asp?page=796>

**Department Overview:** Beyond EMT-B and Intermediate is Paramedic. Paramedic requires substantially more training than EMT-B and represents the advanced life support side of EMS. Paramedic is approximately 18-24 months in duration and equips the student with the skills necessary to provide advanced life saving care in the out-of-hospital setting. Entrance in to the Paramedic program is contingent upon successful completion of all following prerequisites, application, and an oral interview.

Applicants to both the Certificate and AAS program must meet the following criteria:

### Paramedic Program Entrance Requirements

- Current EMT-Basic certification for at least one year
- Successful waiver or completion of the PreParamedic Short-Term Certificate
- Proof of ASSET testing
- Application to the CBC Paramedic program and completion of acceptance interview
- Completion of the following classes with a minimum 2.0 GPA:
- BIOL& 241 Human A&P 1 w/Lab
- BIOL& 241L Human A&P 1 Lab
- BIOL& 242 Human A&P 2 w/Lab
- BIO 242L Human A&P 2 Lab

The EMS department also provides various continuing education opportunities for certified paramedics in the Southeastern Washington Region and Oregon. A 48-hour refresher is provided as deemed necessary by community need, according to the requirements for National Registry Paramedic Certification. Workshops will also provide various Advanced Life Support continuing education opportunities as required or requested by community officials. (Fees for these courses will vary by time, subject material, and number of individuals attending.)

### PreParamedic Short-Term Certificate

(Maximum of 4 quarters for completion)

PMD . . . 100 . . . . .	PreParamedic Lecture . . . . .	2 credits
PMD . . . 1002 . . . . .	PreParamedic Practicum . . . . .	2 credits

(This course can be repeated for a maximum of 6 credits.) These courses are intended to be taken concurrently with other technical support courses.

The Paramedic program is accredited by the Joint Review Committee on Educational Programs for the EMT-Paramedic. The goal of the Paramedic program is to prepare graduates having the skills and knowledge necessary for entry level Paramedic positions in agencies providing pre-hospital emergency services.

A Washington state background check must be completed prior to admittance into this program. More information is available from the Health Sciences Division office at (509) 544-8300.

## Associate in Applied Science in Paramedicine

PROFESSIONAL TECHNICAL

### Major Courses

Course No.	Course Title	Credits
PMD . . . 201 . . . . .	Paramedic I . . . . .	6
PMD . . . 2013 . . . . .	Paramedic I Lab . . . . .	2
PMD . . . 202 . . . . .	Paramedic II . . . . .	6
PMD . . . 2023 . . . . .	Paramedic II Lab . . . . .	3
PMD . . . 203 . . . . .	Paramedic III . . . . .	6
PMD . . . 2033 . . . . .	Paramedic III Lab . . . . .	3
PMD . . . 204 . . . . .	Paramedic IV . . . . .	6
PMD . . . 2043 . . . . .	Paramedic IV Lab . . . . .	3
PMD . . . 205 . . . . .	Paramedic V . . . . .	6
PMD . . . 2053 . . . . .	Paramedic V Lab . . . . .	3
PMD . . . 206 . . . . .	Paramedic VI . . . . .	6
PMD . . . 2063 . . . . .	Paramedic VI Lab . . . . .	3
PMD . . . 235 . . . . .	Professional Issues for the Paramedic . . . . .	2
<b>Subtotal. . . . .</b>		<b>55</b>

### Major Support

Course No.	Course Title	Credits
BIOL& . . 241 . . . . .	Human A&P 1 w/Lab . . . . .	6
BIOL& . . 241L* . . . . .	Human A&P 1 Lab . . . . .	0
BIOL& . . 242 . . . . .	Human A&P 2 w/Lab . . . . .	6
BIOL& . . 242L* . . . . .	Human A&P 2 Lab . . . . .	0
HE . . . 240 . . . . .	Stress Management . . . . .	3
BUS . . . 271 . . . . .	Human Relations Business . . . . .	5
CA . . . 100 . . . . .	Introduction to Microcomputers . . . . .	4
HIT . . . 147 . . . . .	Medical Terminology . . . . .	5
<b>Subtotal. . . . .</b>		<b>29</b>

### General Education

Course No.	Course Title	Credits
ENGL& . . 101 . . . . .	English Composition I . . . . .	5
ENGL& . . 235 . . . . .	Technical Writing . . . . .	5
PSYC& . . 100 . . . . .	General Psychology . . . . .	5
MATH . . 106+ . . . . .	MATH 106 or above (except MATH 109) . . . . .	5

### Speech (select 3 credits)

CMST. . . 101 . . . . .	Speech Essentials or . . . . .	3
CMST. . . 110 . . . . .	Communication Behavior . . . . .	3
<b>Subtotal. . . . .</b>		<b>23</b>

**Total Credits Required. . . . . 107**

*Important: \*You must sign up for both lecture and lab courses to receive combined lecture and lab credits. Lab credits will display zero as they are included in the lecture credits.*



# Program Offerings

## Paramedic

PROFESSIONAL TECHNICAL  
One-Year Certificate

### Major Courses

Course No.	Course Title	Credits
PMD . . . 201 . . . . .	.Paramedic I . . . . .	6
PMD . . . 2013 . . . . .	.Paramedic I Lab . . . . .	2
PMD . . . 202 . . . . .	.Paramedic II . . . . .	6
PMD . . . 2023 . . . . .	.Paramedic II Lab . . . . .	3
PMD . . . 203 . . . . .	.Paramedic III . . . . .	6
PMD . . . 2033 . . . . .	.Paramedic III Lab . . . . .	3
PMD . . . 204 . . . . .	.Paramedic IV . . . . .	6
PMD . . . 2043 . . . . .	.Paramedic IV Lab . . . . .	3
PMD . . . 205 . . . . .	.Paramedic V . . . . .	6
PMD . . . 2053 . . . . .	.Paramedic V Lab . . . . .	3
PMD . . . 206 . . . . .	.Paramedic VI . . . . .	6
PMD . . . 2063 . . . . .	.Paramedic VI Lab . . . . .	3
PMD . . . 235 . . . . .	.Professional Issues for the Paramedic . . . . .	2
<b>Subtotal. . . . .</b>		<b>55</b>

### Major Support

Course No.	Course Title	Credits
BIOL& . . . 241 . . . . .	.Human A&P 1 w/Lab . . . . .	6
BIOL& . . . 241L* . . . . .	.Human A&P 1 Lab . . . . .	0
BIOL& . . . 242 . . . . .	.Human A&P 2 w/Lab . . . . .	6
BIOL& . . . 242L* . . . . .	.Human A&P 2 Lab . . . . .	0
<b>Subtotal. . . . .</b>		<b>12</b>

**Total Credits Required. . . . . 67**

*Important: \*You must sign up for both lecture and lab courses to receive combined lecture and lab credits. Lab credits will display zero as they are included in the lecture credits.*

## Pre-Paramedic

PROFESSIONAL TECHNICAL  
SHORT-TERM CERTIFICATE

### Major Courses

*(Maximum of 4 quarters for completion)*

Course No.	Course Title	Credits
PMD . . . 100 . . . . .	.Pre-Paramedic Short-Term Certificate . . . . .	2
PMD . . . 1002 . . . . .	.Pre-Paramedic Short-Term Certificate Practicum . . . . .	2
<b>Subtotal. . . . .</b>		<b>2</b>

**Total Credits Required. . . . . 2**

*(This course can be repeated for a maximum of 6 credits.)*

*These courses are intended to be taken concurrently with other technical support courses.*



## Parent Education

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<http://www.columbiabasin.edu/parented>

**Department Overview:** The Parent Education program incorporates positive parenting skills with a child development knowledge base that promotes strong and healthy families. Participation offers an opportunity for parents to become directly involved in the education of their young children and to be involved in their own education as parents. We offer classes for parents of infants, toddlers, and preschoolers. The program enables parents through observation, involvement and discussion to enhance their parenting skills while the children experience a quality hands-on early learning environment. Families may enroll any time from September through May.

## Philosophy

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<http://www.columbiabasin.edu/home/index.asp?page=837>

**Department Overview:** Philosophy is the attempt to think rationally and critically about the most important questions of life. The course examines normative issues of good and evil, the nature and purpose of human life, what is reality, the existence of God, and the adequacy of scientific materialism as a world view.



## Phlebotomy

<http://www.columbiabasin.edu/home/index.asp?page=797>

**Department Overview:** This is a two-quarter sequence of classes that prepares technicians for testing by the (ASCP) American Society of Clinical Pathologists and employment into the medical laboratory field. The two-quarter sequence of classes focus on the knowledge and skills necessary to function as a member of the laboratory healthcare team in a variety of settings.

Phlebotomy classes are scheduled for two consecutive quarters. During the first quarter, lecture classes are normally held two afternoons a week. During the second quarter, students will complete 120 hours of supervised clinical experience in 14 various medical facilities throughout the Tri-Cities area. These 120 clinical hours will be arranged by the instructor. Students will need to accommodate the hours of the facility and complete these hours.

In order for students to successfully complete the Phlebotomy course work, they must achieve a 70 percent average or higher on the testing during the first quarter in order to go on to the second quarter of clinical course work. Students that successfully complete both quarters will receive a Certification of Completion from CBC with academic credit and will be prepared to test with the American Society of Clinical Pathologists (ASCP). This additional licensing test is not included and will be an additional cost to the student.

More information can be obtained from the Health Sciences Division office at 544-8300.

**The following are required for the first day of class:**

- Criminal History Background Check
- Current list of required immunizations
- Signed Confidentiality Statement
- Malpractice Insurance

## Phlebotomy

PROFESSIONAL TECHNICAL  
SHORT-TERM CERTIFICATE

### Major Courses

Course	No.	Course Title	Credits
PHLEB . . 100 . . . . .		Phlebotomy I . . . . .	4
PHLEB . . 1001 . . . . .		Phlebotomy I Lab. . . . .	5
<b>Subtotal. . . . .</b>			<b>9</b>
<b>Total Credits Required. . . . .</b>			<b>9</b>



## Physical Education

<http://www.columbiabasin.edu/home/index.asp?page=778>

**Department Overview:** The Physical Education department offers a variety of classes that can expose the student to leisure activity skills and fitness activities.

### Associate in Arts & Science with an Emphasis in Health & Physical Education

TRANSFER DEGREE

Option C

#### A. Communication (10 credits in English, plus 3 credits in Speech)

Course No.	Course Title	Credits
ENGL& . 101 . . . . .	English Composition I . . . . .	5
ENGL& . 102 . . . . .	Composition II <b>or</b> . . . . .	5
ENGL& . 235 . . . . .	Technical Writing . . . . .	5
CMST. . 101 . . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST& . 220 . . . . .	Public Speaking <b>or</b> . . . . .	5
CMST. . 110 . . . . .	Communication Behavior <b>or</b> . . . . .	3
CMST& . 210 . . . . .	Interpersonal Communication <b>or</b> . . . . .	5
CMST. . 260 . . . . .	Multicultural Communications . . . . .	5

#### Math Proficiency . . . . . X

1. Intermediate Algebra Proficiency requirement: must do one of the following:

Pass Intermediate Algebra (MATH 095 or MATH 098).

Pass a math class that has an Intermediate Algebra prerequisite.

Place into any math course MATH 113 or above via placement test.

#### B. Quantitative/Symbolic Reasoning (5 credits). . . . . 5

Choose one class from the Quantitative Reasoning or Symbolic Reasoning courses.

##### 1. Quantitative Reasoning:

MATH& 107 or any MATH course 122 or above

##### 2. OR Symbolic Reasoning:

CS 102, CS& 131, CS 162, CS 202, or PHIL 121

#### C. Humanities (15 credits). . . . . 15

Course selections must also meet the Humanities distribution requirements for the AA degree.

#### D. Social & Behavioral Science (15 credits). . . . . 15

Course selections must also meet the Social & Behavioral distribution requirements for the AA degree.

#### E. Mathematical & Natural Science (15 credits)

Course selections must also meet the Mathematical & Natural Science distribution requirements for the AA degree.

Course No.	Course Title	Credits
CHEM& . 121 . . . . .	Intro to Chemistry w/Lab & . . . . .	5
CHEM& . 121L* . . . . .	Intro to Chemistry Lab <b>or</b> . . . . .	0
CHEM& . 161 . . . . .	General Chemistry I w/Lab & . . . . .	5
CHEM& . 161L* . . . . .	General Chemistry I Lab . . . . .	0
BIOL& . 160 . . . . .	General Biology w/Lab & . . . . .	5
BIOL& . 160L* . . . . .	General Biology Lab <b>or</b> . . . . .	0
BIOL& . 211 . . . . .	Majors Cellular w/Lab & . . . . .	5
BIOL& . 211L* . . . . .	Majors Cellular Lab . . . . .	0
BIOL& . 241 . . . . .	Human A&P 1 w/Lab & . . . . .	6
BIOL& . 241L* . . . . .	Human A&P 1 Lab . . . . .	0

#### F. Health and Physical Education (3 credits)

One of the required electives will satisfy this 3 credit requirement.

#### G. Required Electives (33-45 credits of the following list:)

Not every course is required. Please consult the department advisor for more information.

Course No.	Course Title	Credits
BIOL& . 242 . . . . .	Human A&P 2 w/Lab & . . . . .	6
BIOL& . 242L* . . . . .	Human A&P 2 Lab . . . . .	0
PEC. . . 180 . . . . .	Care & Prevention of Athletic Injuries . . . . .	3
PEC. . . 182 . . . . .	Care & Prevention of Athletic Injuries II . . . . .	2
PEC. . . 182L . . . . .	Care & Prevention of Athletic Injuries II Lab . . . . .	1
PEC. . . 183 . . . . .	Athletic Training Internship . . . . .	2
PEC. . . 183L . . . . .	Athletic Training Internship Lab . . . . .	1
HE . . . 160 . . . . .	Diet, Exercise and Weight Control . . . . .	2
HE . . . 170 . . . . .	Health and Wellness . . . . .	3
HE . . . 171 . . . . .	Exercise Prescription . . . . .	2
(Recommended-BIOL& 241/BIOL& 241L and BIOL& 242/BIOL& 242L)		
HE . . . 171L . . . . .	Exercise Prescription Lab . . . . .	1
PE . . . 180 . . . . .	Adaptive Physical Education . . . . .	2
(Recommended-BIOL& 241/BIOL& 241L and BIOL& 242/BIOL& 242L)		

PE . . . 180L . . . . .	Adaptive Physical Education Lab . . . . .	1
HE . . . 210 . . . . .	Sports Nutrition . . . . .	3
HE . . . 215 . . . . .	Health and Fitness for Life . . . . .	2
HE . . . 215L . . . . .	Health and Fitness for Life Lab . . . . .	1
HE . . . 220 . . . . .	Drugs and Health . . . . .	3
HE . . . 230 . . . . .	First-Aid Safety . . . . .	3
HE . . . 232 . . . . .	Sports Psychology . . . . .	3
HE . . . 240 . . . . .	Stress Management . . . . .	3
HE . . . 250 . . . . .	Sports Management . . . . .	3

**Total Credits Required. . . 99-111**

*Important: \*You must sign up for both lecture and lab courses to receive combined lecture and lab credits. Lab credits will display zero as they are included in the lecture credits. In addition to the above required coursework, it is extremely important to stay in close contact with your faculty advisor within the Health Education department.*



## Physical Education Professional

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<http://www.columbiabasin.edu/home/index.asp?page=778>

**Department Overview:** These courses are designed for the PE major or students interested in a coaching career.

## Physics Common Course

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<http://www.columbiabasin.edu/home/index.asp?page=816>

**Department Overview:** Physics courses are required by vast number of technical, occupational, and academic disciplines because the Laws of Physics form a foundation for engineering, health sciences and other physical sciences. The Physics department supports these needs by providing Conceptual Physics, Algebra/Trigonometric-based Physics (Intermediate Physics), and Calculus-based Physics (Engineering Physics). The courses fulfill the requirement for the transfer to four-year institutions and various technical programs.



## Political Science

<http://www.columbiabasin.edu/home/index.asp?page=838>

**Department Overview:** Political science examines the institutional means through which scarce societal resources are allocated and the processes that make determinations regarding the moral fabric of community life. It combines both normative and descriptive analyses: how power is distributed and for what values or purposes it should be employed. This includes the study of the types and branches of government, means of representation, as well as issues of policy formation. In addition, CBC now offers a two-year degree in Political Science.

## Associate in Arts & Science with an Emphasis in Political Science

TRANSFER DEGREE

Option C

### A. Communication (13 credits)

Course No.	Course Title	Credits
ENGL& . . 101 . . . . .	English Composition I . . . . .	5
ENGL& . . 102 . . . . .	Composition II . . . . .	5
CMST . . . . .		3

### Math Proficiency . . . . . X

### B. Quantitative/Symbolic Reasoning (5 credits)

Course No.	Course Title	Credits
MATH& . 146 . . . . .	Introduction to Stats . . . . .	5

### C. Humanities (15 credits)

Course No.	Course Title	Credits
HIST& . . 128 . . . . .	World Civilizations III . . . . .	5
ENGL . . . . .	(see advisor for appropriate selection) . . . . .	5
PHIL& . . 101 . . . . .	Intro to Philosophy <b>or</b> . . . . .	5
PHIL . . . 150 . . . . .	Introduction to Ethics . . . . .	5

### D. Social & Behavioral Science (15 credits)

Course No.	Course Title	Credits
SOC& . . 101 . . . . .	Intro to Sociology <b>or</b> . . . . .	5
SOC& . . 201 . . . . .	Social Problems . . . . .	5
ECON& . . 202 . . . . .	Macro Economics . . . . .	5
POLS& . . 202 . . . . .	American Government . . . . .	5

### E. Mathematical & Natural Science (15 credits)

*Course selections must also meet the Mathematical & Natural Science distribution requirements for the AA degree.*

Mathematical & Natural Science Electives . . . . .	15
(see advisor for appropriate selection)	

### F. Health and Physical Education (3 credits)

Selected from PE Activity Classes or Health (HE) Classes . . . . .	3
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### G. Electives (24 credits)

Course No.	Course Title	Credits
POLS& . . 204 . . . . .	Comparative Government . . . . .	5
POLS& . . 203 . . . . .	International Relations . . . . .	5
POLS . . . 104 . . . . .	State and Local Government . . . . .	5
POLS& . . 201 . . . . .	Intro to Political Theory <b>or</b> . . . . .	5
POLS . . . 205 . . . . .	American Political Thought . . . . .	5
Elective (see advisor for appropriate selection) . . . . .		4

**Total Credits Required. . . . . 90**



## Psychology

<http://www.columbiabasin.edu/home/index.asp?page=839>

**Department Overview:** Psychology is the scientific study of human behavior and mental processes. General Psychology (PSYC& 100) provides an overview of different perspectives held by psychologists. Major topics include: research methods, learning theory, neuropsychology, memory, consciousness, and motivation. General psychology is a prerequisite for many 200 level classes. Applied Psychology (PSYC 103) is an alternative for those who are seeking an Associate degree in one of the vocation-technical disciplines. Here the emphasis is on the practical application of psychological principles in the work-place and everyday life.

## Race, Ethnicity & Immigration

**Department Overview:** The United States is a nation made of people of various racial and ethnic backgrounds and whose ancestors, or themselves, migrated to the nation in order to create a new and better life for themselves and their families. The program in Race, Ethnicity, and Immigration provides students an opportunity to examine these aspects of American society through a combination of courses in history, anthropology, political science, and sociology. They will also examine how the U.S. experience in race, ethnicity, and immigration compares to that of other areas of the world.

### Associate in Arts & Science with an Emphasis in Race, Ethnicity & Immigration

TRANSFER DEGREE

Option C

#### A. Communication (10 credits in English, plus 3 credits in Speech)

Course No.	Course Title	Credits
ENGL& . 101 . . . . .	English Composition I . . . . .	5
ENGL& . 102 . . . . .	Composition II <b>or</b> . . . . .	5
ENGL& . 235 . . . . .	Technical Writing . . . . .	5
CMST& . 101 . . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST& . 220 . . . . .	Public Speaking <b>or</b> . . . . .	5
CMST& . 110 . . . . .	Communication Behavior <b>or</b> . . . . .	3
CMST& . 210 . . . . .	Interpersonal Communication <b>or</b> . . . . .	5
CMST& . 260 . . . . .	Multicultural Communications . . . . .	5

#### Math Proficiency . . . . . X

1. Intermediate Algebra Proficiency requirement: must do one of the following:

Pass Intermediate Algebra (MATH 095 or MATH 098).

Pass a math class that has an Intermediate Algebra prerequisite.

Place into any math course MATH 113 or above via placement test.

#### B. Quantitative/Symbolic Reasoning (5 credits)

##### 1. Quantitative Reasoning:

Course No.	Course Title	Credits
MATH& . 146 . . . . .	Introduction to Stats (Recommended) . . . . .	5

##### 2. OR Symbolic Reasoning:

CS 102, CS& 131, CS 162, CS 202, or PHIL 121

#### C. Humanities (15 credits)

Course selections must also meet the Humanities distribution requirements for the AA degree.

Choose one from the following:

Course No.	Course Title	Credits
ICS . . . 120 . . . . .	Survey of Hispanic Culture <b>or</b> . . . . .	5
HIST& . 219 . . . . .	Native American History <b>or</b> . . . . .	5
ICS . . . 130 . . . . .	Survey of Asian American Culture . . . . .	5
Humanities Electives . . . . .		10

#### D. Social & Behavioral Science (15 credits)

Course selections must also meet the Social & Behavioral distribution requirements for the AA degree.

Course No.	Course Title	Credits
HIST& . 220 . . . . .	African American History <b>or</b> . . . . .	5
HIST . . . 107 . . . . .	Chicano History <b>or</b> . . . . .	5
HIST . . . 108 . . . . .	History of Immigration in the United States . . . . .	5
ICS . . . 255 . . . . .	Race and Ethnic Relations . . . . .	5

#### Psychology or Sociology (See advisor for appropriate selection) . . . . . 5

PSYC . . . 201 . . . . .	Social Psychology <b>or</b> . . . . .	5
SOC& . . . 201 . . . . .	Social Problems . . . . .	5

#### E. Mathematical & Natural Science (15 credits) . . . . . 15

Course selections must also meet the Mathematical & Natural Science distribution requirements for the AA degree.

#### F. Health and Physical Education (3 credits) . . . . . 3

Health lecture or PE activity courses will satisfy this three-credit requirement.

#### G. Required Electives (Select 24 credits from the following list:)

##### Additional Electives

A class can only be used to fulfill one requirement.

Course No.	Course Title	Credits
ANTH& . 206 . . . . .	Cultural Anthropology . . . . .	5
ART . . . 120 . . . . .	Art History of the Americas . . . . .	5
HIST& . 220 . . . . .	African American History . . . . .	5
HIST . . . 107 . . . . .	Chicano History . . . . .	5



HIST . . . 108. . . . .	.History of Immigration in the United States . . . . .	5
HIST . . . 110. . . . .	.History of Modern East Asia. . . . .	5
HIST . . . 111. . . . .	.Colonial Latin America. . . . .	5
HIST . . . 112. . . . .	.Modern Latin America. . . . .	5
HIST . . . 116. . . . .	.History of Africa. . . . .	5
HIST . . . 117. . . . .	.History of India . . . . .	5
HIST . . . 100. . . . .	.Cultural and Historical Linked to Travel . . . . .	1-3
ICS . . . 120. . . . .	.Survey of Hispanic Culture . . . . .	5
HIST& . . 219. . . . .	.Native American History. . . . .	5
ICS . . . 130. . . . .	.Survey of Asian American Culture . . . . .	5
ICS . . . 255. . . . .	.Race and Ethnic Relations. . . . .	5
ENGL . . 180. . . . .	.Multicultural Literature . . . . .	5
ENGL& . . 254. . . . .	.World Literature I. . . . .	5
ENGL& . . 255. . . . .	.World Literature II . . . . .	5
PHIL . . 131. . . . .	.World Religions. . . . .	5
PL . . . 210. . . . .	.Immigration Law. . . . .	3
SOC& . . 201. . . . .	.Social Problems. . . . .	5
CMST. . . 260. . . . .	.Multicultural Communications . . . . .	5

**Total Credits Required. . . . 90**

*In addition to the above required coursework, it is extremely important to stay in close contact with your faculty advisor.*

## Radio Broadcasting

**Department Overview:** Students who begin their technical training in Radio Broadcasting at Tri-Tech Skills Center and successfully earn the equivalent Tech Prep college credits have the opportunity to complete a certificate program at Columbia Basin College. To earn the equivalent college credits, one must enroll in the CBC Tech Prep Dual Credit program while attending the year-long Tri-Tech class and attain a B (85 percent) or better grade for the class. The Radio Broadcasting certificate courses help prepare students for entry-level employment in the field of radio broadcasting and further education in communication.

Upon completion of the general education and elective requirement courses at CBC, students are eligible to apply for a certificate through CBC. Questions concerning these certificates should be directed to the CBC Tech Prep Coordinator at (509) 542-4559.



## Radiologic Technology

<http://www.columbiabasin.edu/home/index.asp?page=660>

**Department Overview:** The Radiologic Technology program at Columbia Basin College is an eight-quarter program preparing students to be eligible to become certified by taking the National Registry Examination offered by the American Registry of Radiology Technologists. Radiology Technologists work directly with the patient and physician performing sophisticated diagnostic x-ray procedures including radiation safety, radiographic exposures, image and film processing, operating many types of technological equipment. The Radiology Technologist also provides professional handling and care of patients. The program requires a series of credit courses directly related to Radiologic Sciences. The program also requires students have completed major support and general education courses prior to admission. For additional information, please refer to the Associate of Applied Science in Radiologic Technology degree requirements. The Radiologic Technology program admits students annually during summer quarter for this eight-quarter program.

## Associate in Applied Science in Radiologic Technology

PROFESSIONAL TECHNICAL

### Major Courses

Course No.	Course Title	Credits
RATEC . 101 . . . . .	Introduction to Radiologic Technology . . . . .	1
RATEC . 102 . . . . .	Radiographic Physics . . . . .	5
RATEC . 103 . . . . .	Principles of Radiographic Exposure . . . . .	3
RATEC . 104 . . . . .	Advanced Radiographic Procedures . . . . .	4
RATEC . 105 . . . . .	Introduction to Radiographic Technique . . . . .	2
RATEC . 106 . . . . .	Computed Imaging . . . . .	2
RATEC . 107 . . . . .	Positioning and Related Anatomy I . . . . .	2
RATEC . 108 . . . . .	Positioning and Related Anatomy II . . . . .	3
RATEC . 109 . . . . .	Positioning and Related Anatomy III . . . . .	3
RATEC . 1103 . . . . .	Clinical Education I . . . . .	3
RATEC . 1113 . . . . .	Clinical Education II . . . . .	5
RATEC . 1123 . . . . .	Clinical Education III . . . . .	5
RATEC . 1133 . . . . .	Clinical Education IV . . . . .	5
RATEC . 120 . . . . .	Nursing Procedures . . . . .	2
RATEC . 121 . . . . .	Patient Care . . . . .	2
RATEC . 125 . . . . .	Medical Terminology . . . . .	1
RATEC . 127 . . . . .	Introduction to Sectional Anatomy . . . . .	2
RATEC . 207 . . . . .	Concept Integration . . . . .	2
RATEC . 2103 . . . . .	Clinical Education V . . . . .	13
RATEC . 2113 . . . . .	Clinical Education VI . . . . .	8
RATEC . 2123 . . . . .	Clinical Education VII . . . . .	8
RATEC . 2133 . . . . .	Clinical Education VIII . . . . .	8
RATEC . 220 . . . . .	Pathology I . . . . .	3
RATEC . 221 . . . . .	Pathology II . . . . .	2
RATEC . 230 . . . . .	Quality Assurance . . . . .	2
RATEC . 240 . . . . .	Radiation Biology and Protection . . . . .	3
RATEC . 296 . . . . .	Special Topics in Radiology . . . . .	2
<b>Subtotal. . . . .</b>		<b>101</b>

### Major Support

Course No.	Course Title	Credits
BIOL& . 241 . . . . .	Human A&P 1 w/Lab. . . . .	6
BIOL& . 241L* . . . . .	Human A&P 1 Lab . . . . .	0
BIOL& . 242 . . . . .	Human A&P 2 w/Lab. . . . .	6
BIOL& . 242L* . . . . .	Human A&P 2 Lab . . . . .	0
<b>Subtotal. . . . .</b>		<b>12</b>

### General Education

Course No.	Course Title	Credits
ENGL& . 101 . . . . .	English Composition I . . . . .	5
MATH& . 146 . . . . .	Introduction to Stats . . . . .	5
PSYC& . 100 . . . . .	General Psychology . . . . .	5
CMST . 260 . . . . .	Multicultural Communications . . . . .	5
<b>Subtotal. . . . .</b>		<b>20</b>

**Total Credits Required. . . . . 133**

*Important: \*You must sign up for both lecture and lab courses to receive combined lecture and lab credits. Lab credits will display zero as they are included in the lecture credits.*



## Reading

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**Department Overview:** The Basic Skills Division offers reading classes at several levels for students who wish to improve spelling, vocabulary, reading comprehension and/or speed, study techniques, and strategies for college success. Classes are offered in the Learning Opportunities Center (LOC) where instruction is a lab format, the classroom, and online (Study Techniques 110).

## Real Estate

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<http://www.columbiabasin.edu/home/index.asp?page=749>

**Department Overview:** The Real Estate program provides several foundational courses on an as-needed basis for the community.



Retail Associate

**Department Overview:** The Retail Associate program prepares students to work in a variety of customer service and cashiering positions in the retail wholesale and/or grocery industry. Students will learn workplace skills along with the ability to provide excellent customer service and effectively handle monetary transactions.

Retail Operations

PROFESSIONAL TECHNICAL  
SHORT-TERM CERTIFICATE

Major Courses

Course	No.	Course Title	Credits
RO . . .	100 . . . . .	Introduction to Retail . . . . .	10
Subtotal. . . . .			10
Total Credits Required. . . . .			10



## Russian Common Course

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<http://www.columbiabasin.edu/home/index.asp?page=840>

**Department Overview:** Our Russian classes offer student-centered instruction that focuses on communicating effectively in Russian, appreciating the Russian culture, and recognizing linguistic and cultural connections between the Russian-speaking parts of the world and the United States.

## Social Science

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<http://www.columbiabasin.edu/home/index.asp?page=1141>

**Department Overview:** The Social Science program is designed to provide students with a basic foundation and overview of the social sciences.



## Sociology

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<http://www.columbiabasin.edu/home/index.asp?page=841>

**Department Overview:** The Sociology department is dedicated to offering courses which concern the scientific study of the social group aspect of human life. Courses range from concentrating on small groups (social psychology) to institutions (marriage and family) to large-scale issues (social problems). SOC& 101 provides an introduction to each of these areas.

## Spanish

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<http://www.columbiabasin.edu/home/index.asp?page=842>

**Department Overview:** Spanish classes offer student-centered instruction that focuses on communicating effectively in Spanish, appreciating the Hispanic culture, and recognizing linguistic and cultural connections between the Spanish-speaking parts of the world and the United States. Native or partial native speakers are strongly encouraged to enroll in SPAN 205, SPAN 206, or SPAN 207.



## Surgical Technology

<http://www.columbiabasin.edu/home/index.asp?page=661>

**Department Overview:** The Surgical Technology program prepares students to work as an effective surgical team member. Students learn a variety of skills in lecture, experiential lab, and practical settings. These skills include: aseptic technique, surgical procedures, surgical instrumentation, and surgical conscience. Clinical practice locations include: hospitals, surgical centers, and physician-owned surgery centers.

Admission eligibility requirements are successful completion of the following pre-requisite courses:

- BIOL& 241 Human A&P 1 w/Lab
- BIOL& 241L Human A&P 1 Lab
- BIOL& 242 Human A&P 2 w/Lab
- BIOL& 242L Human A&P 2 Lab
- HIT 147 Medical Terminology

Application to the Surgical Technology program is submitted through the Health Sciences Division. Required immunization records and current CPR Healthcare Provider and First Aid cards must be completed as part of the application process.

The program provides a One-Year Operating Room Aide Certificate and a Two-Year Associate in Science degree in Surgical Technology.

**The following are required for the first day of class:**

- Criminal History Background Check
- Current list of required immunizations
- Signed Confidentiality statement
- Malpractice Insurance

## Associate in Applied Science in Surgical Technology

PROFESSIONAL TECHNICAL

### Major Courses

Course No.	Course Title	Credits
SRGT . . . 101 . . . . .	Introduction to Surgical Technology . . . . .	4
SRGT . . . 1011 . . . . .	Introduction to Surgical Technology Lab . . . . .	2
SRGT . . . 102 . . . . .	Disease Transmission and Control . . . . .	3
SRGT . . . 103 . . . . .	Ethics and Professionalism . . . . .	2
SRGT . . . 104 . . . . .	Pharmacology for the Surgical Technologist . . . . .	5
SRGT . . . 110 . . . . .	Operating Room Aide . . . . .	3
SRGT . . . 1101 . . . . .	Operating Room Aide Lab . . . . .	2
SRGT . . . 120 . . . . .	Central Service . . . . .	1
SRGT . . . 1201 . . . . .	Central Service Clinical . . . . .	1
SRGT . . . 130 . . . . .	Human Anatomy for the Surgical Technician . . . . .	4
SRGT . . . 1301 . . . . .	Human Anatomy for the Surgical Technician Lab . . . . .	2
SRGT . . . 1411 . . . . .	Operating Room Practicum I Lab . . . . .	6
SRGT . . . 150 . . . . .	Surgical Procedures I . . . . .	4
SRGT . . . 1501 . . . . .	Surgical Procedures I Lab . . . . .	2
SRGT . . . 160 . . . . .	Perioperative Patient Care . . . . .	2
SRGT . . . 1601 . . . . .	Perioperative Patient Care Lab . . . . .	1
SRGT . . . 240 . . . . .	Surgical Seminar . . . . .	3
SRGT . . . 2411 . . . . .	Operating Room Practicum II . . . . .	10
SRGT . . . 250 . . . . .	Surgical Procedures II . . . . .	4
SRGT . . . 2501 . . . . .	Surgical Procedures II Lab . . . . .	2
<b>Subtotal. . . . .</b>		<b>. 63</b>

### Major Support

Course No.	Course Title	Credits
BIOL& . . 241 . . . . .	Human A&P 1 w/Lab . . . . .	6
BIOL& . . 241L* . . . . .	Human A&P 1 Lab . . . . .	0
BIOL& . . 242 . . . . .	Human A&P 2 w/Lab . . . . .	6
BIOL& . . 242L* . . . . .	Human A&P 2 Lab . . . . .	0
HIT . . . 147 . . . . .	Medical Terminology . . . . .	5
<b>Subtotal. . . . .</b>		<b>. 17</b>

### General Education

Course No.	Course Title	Credits
ENGL& . . 101 . . . . .	English Composition I . . . . .	5
MATH . . 106+ . . . . .	MATH 106 <b>or</b> above (except MATH 109) . . . . .	5
PSYC& . . 100 . . . . .	General Psychology . . . . .	5

### Speech (select 3-5 credits)

CMST . . 101 . . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST& . . 220 . . . . .	Public Speaking . . . . .	5

**Subtotal. . . 18-20**

**Total Credits Required. . . 98-100**

*Important: \*You must sign up for both lecture and lab courses to receive combined lecture and lab credits. Lab credits will display zero as they are included in the lecture credits.*



## Operating Room Aide

PROFESSIONAL TECHNICAL

One-Year Certificate

### Major Courses

Course No.	Course Title	Credits
SRGT . . . 101 . . . . .	Introduction to Surgical Technology . . . . .	4
SRGT . . . 1011 . . . . .	Introduction to Surgical Technology Lab . . . . .	2
SRGT . . . 102 . . . . .	Disease Transmission and Control . . . . .	3
SRGT . . . 103 . . . . .	Ethics and Professionalism . . . . .	2
SRGT . . . 110 . . . . .	Operating Room Aide . . . . .	3
SRGT . . . 1101 . . . . .	Operating Room Aide Lab . . . . .	2
<b>Subtotal. . . . .</b>		<b>16</b>

### Major Support

Course No.	Course Title	Credits
BIOL& . . . 241 . . . . .	Human A&P 1 w/Lab. . . . .	6
BIOL& . . . 241L* . . . . .	Human A&P 1 Lab . . . . .	0
BIOL& . . . 242 . . . . .	Human A&P 2 w/Lab. . . . .	6
BIOL& . . . 242L* . . . . .	Human A&P 2 Lab . . . . .	0
HIT . . . . 147 . . . . .	Medical Terminology. . . . .	5
MA . . . . 111 . . . . .	Pharmacology I. . . . .	5
<b>Subtotal. . . . .</b>		<b>22</b>

### General Education

Course No.	Course Title	Credits
ENGL& . . . 101 . . . . .	English Composition I . . . . .	5
MATH . . . 106+ . . . . .	MATH 106 <b>or</b> above (except MATH 109) . . . . .	5
PSYC& . . . 100 . . . . .	General Psychology . . . . .	5

### Speech (select 3-5 credits)

CMST. . . 101 . . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST& . . 220 . . . . .	Public Speaking. . . . .	5

**Subtotal. . . 18-20**

**Total Credits Required. . . 56-58**

*Important: \*You must sign up for both lecture and lab courses to receive combined lecture and lab credits. Lab credits will display zero as they are included in the lecture credits.*



## Theatre

<http://www.columbiabasin.edu/home/index.asp?page=716>

**Department Overview:** Theatre offerings at Columbia Basin College are designed:

- to meet the requirements for the first two years of a Bachelor of Arts degree in theatre at four-year institutions;
- to enhance the theatre knowledge and performance ability of students wishing to enter the professional field;
- to provide extracurricular, leisure activity;
- to enrich the appreciation of the theatre going public.

The department attempts to provide a production schedule that will encourage both students and community participation as either audience members or production personnel.

Career opportunities include teaching theatre, professional acting, directing, designing, stage management, and working in the dramatic/film arts. Theatre classes may also better prepare students for careers in law, public relations, advertising, teaching effectiveness, and other careers where speaking or performing for the public is important. It is not necessary to be a theatre major to take theatre classes or to participate in CBC shows.

### Associate in Arts & Science with an Emphasis in Acting & Directing

TRANSFER DEGREE

Option C

#### A. Communication (10 credits in English, plus 3 credits in Speech)

Course No.	Course Title	Credits
ENGL& . 101 . . . . .	English Composition I . . . . .	5
ENGL& . 102 . . . . .	Composition II <b>or</b> . . . . .	5
ENGL& . 235 . . . . .	Technical Writing . . . . .	5
CMST. . 101 . . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST& . 220 . . . . .	Public Speaking <b>or</b> . . . . .	5
CMST. . 110 . . . . .	Communication Behavior <b>or</b> . . . . .	3
CMST& . 210 . . . . .	Interpersonal Communication <b>or</b> . . . . .	5
CMST. . 260 . . . . .	Multicultural Communications . . . . .	5

#### Math Proficiency . . . . . X

1. Intermediate Algebra Proficiency requirement: must do one of the following:

Pass Intermediate Algebra (MATH 095 or MATH 098) with 2.0 or better.

Pass a math class that has an Intermediate Algebra prerequisite.

Place into any math course MATH 113 or above via placement test.

#### B. Quantitative/Symbolic Reasoning (5 credits). . . . . 5

Choose one class from the Quantitative Reasoning or Symbolic Reasoning courses.

##### 1. Quantitative Reasoning:

MATH& 107 **or** any MATH course 122 **or** higher **or**

Course No.	Course Title	Credits
MATH . 147 . . . . .	Finite Math (Recommended) . . . . .	5

##### 2. OR Symbolic Reasoning:

CS 102, CS& 131, CS 162, CS 202, or PHIL 121

#### C. Humanities (15 credits)

Course selections must also meet the Humanities distribution requirements for the AA degree.

##### Required:

Course No.	Course Title	Credits
DRMA& . 101 . . . . .	Intro to Theatre <b>or</b> . . . . .	5
DRMA . 215 . . . . .	Survey of Theatre History . . . . .	5
And 10 additional credits selected from other Humanities electives. . . . .		10

##### Recommended:

ENGL& . 220 . . . . .	Intro to Shakespeare . . . . .	5
CMST. . 246 . . . . .	Oral Interpretation . . . . .	5

#### D. Social & Behavioral Science (15 credits)

Course selections must also meet the Social & Behavioral distribution requirements for the AA degree.

##### Recommended:

Course No.	Course Title	Credits
PSYC& . 100 . . . . .	General Psychology . . . . .	5
SOC& . 101 . . . . .	Intro to Sociology . . . . .	5
ANTH& . 206 . . . . .	Cultural Anthropology . . . . .	5

#### E. Mathematical & Natural Science (15 credits)

At least 10 credits need to be from science courses. Courses must be selected from two different subject areas. One course must be a laboratory science. A single math course cannot count for both a mathematical and natural science course and a quantitative skill course.

##### Recommended to include:

Course No.	Course Title	Credits
GEOL& . 101 . . . . .	Intro to Physical Geology w/Lab & . . . . .	5
GEOL& . 101L* . . . . .	Intro to Physical Geology Lab . . . . .	0
BIOL& . 100 . . . . .	Survey of Biology w/Lab & . . . . .	5
BIOL& . 100L* . . . . .	Survey of Biology Lab . . . . .	0
NUTR& . 101 . . . . .	Nutrition . . . . .	5

#### F. Health and Physical Education (3 credits)

##### Recommended:

Course No.	Course Title	Credits
HE . . 230 . . . . .	First-Aid Safety <b>or</b> . . . . .	3
HE . . 240 . . . . .	Stress Management . . . . .	3

#### G. Required Electives (26-38 credits)

Course No.	Course Title	Credits
DRMA . 1051-1071 . . . . .	Rehearsal and Performance . . . . .	1-3
(3 credits required in any combination) . . . . .		1-3
DRMA . 120 . . . . .	Acting-Beginning . . . . .	3
DRMA . 121 . . . . .	Acting-Intermediate . . . . .	3
DRMA . 122 . . . . .	Acting-Advanced . . . . .	3
DRMA . 244 . . . . .	Stage Makeup . . . . .	2
DRMA . 1261-1281 . . . . .	Stagecraft (3 credits required in any combination) . . . . .	1-3
DRMA . 2201-2221 . . . . .	Acting Studio (3 credits required in any combination) . . . . .	1-3
DRMA . 2251 . . . . .	Touring Children's Theatre (offered fall only) . . . . .	1-3
DRMA . 2271 . . . . .	Touring Rep Part I (2 qtr. commitment)-winter . . . . .	1-3
DRMA . 2281 . . . . .	Touring Rep Part II (2 qtr. commitment)-spring . . . . .	1-3
DRMA . 250 . . . . .	Directing for the Stage (offered odd years) . . . . .	3

##### Select 6 credits from the following:

DRMA . 130 . . . . .	Stage Movement . . . . .	2
DRMA . 248 . . . . .	Stage Management . . . . .	2
DRMA . 216 . . . . .	Acting for the Camera (offered even years) . . . . .	2
DRMA . 2301 . . . . .	Stage Combat . . . . .	2
DRMA . 217 . . . . .	Classical Acting . . . . .	1-3

**Total Credits Required. . . 89-101**

*It is understood that a theatre major will acquire more credits than are transferable to complete this degree.*

*Important: \*You must sign up for both lecture and lab courses to receive combined lecture and lab credits. Lab credits will display zero as they are included in the lecture credits. It is extremely important to stay in close contact with your faculty advisor.*



## Associate in Arts & Science with an Emphasis in Technical Theatre & Design

TRANSFER DEGREE

Option C

### A. Communication (10 credits in English, plus 3 credits in Speech)

Course No.	Course Title	Credits
ENGL& . 101 . . . . .	English Composition I . . . . .	5
ENGL& . 102 . . . . .	Composition II <b>or</b> . . . . .	5
ENGL& . 235 . . . . .	Technical Writing . . . . .	5
CMST. . 101 . . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST& . 220 . . . . .	Public Speaking <b>or</b> . . . . .	5
CMST. . 110 . . . . .	Communication Behavior <b>or</b> . . . . .	3
CMST& . 210 . . . . .	Interpersonal Communication <b>or</b> . . . . .	5
CMST. . 260 . . . . .	Multicultural Communications . . . . .	5

### Math Proficiency . . . . . X

1. Intermediate Algebra Proficiency requirement: must do one of the following:

Pass Intermediate Algebra (MATH 095 or MATH 098) with 2.0 or better.

Pass a math class that has an Intermediate Algebra Prerequisite.

Place into any math course MATH 113 or above via placement test.

### B. Quantitative/Symbolic Reasoning (5 credits). . . . . 5

Choose one class from the Quantitative Reasoning or Symbolic Reasoning courses.

#### 1. Quantitative Reasoning:

MATH& 107 **or** any MATH course 122 **or** higher **or**

Course No.	Course Title	Credits
MATH . 147 . . . . .	Finite Math (Recommended) . . . . .	5

#### 2. OR Symbolic Reasoning:

CS 102, CS& 131, CS 162, CS 202, or PHIL 121

### C. Humanities (15 credits)

Course selections must also meet the Humanities distribution requirements for the AA degree.

#### Required:

Course No.	Course Title	Credits
DRMA& . 101 . . . . .	Intro to Theatre <b>or</b> . . . . .	5
DRMA . 215 . . . . .	Survey of Theatre History . . . . .	5

#### Recommended:

ART. . . 116 . . . . .	Art History Ancient World <b>or</b> . . . . .	5
ART. . . 117 . . . . .	Art History Medieval-Baroque . . . . .	5
And 10 additional credits selected from other Humanities Electives. . . . .		10

### D. Social & Behavioral Science (15 credits)

Course selections must meet the Social & Behavioral distribution requirements for the AA degree.

### E. Mathematical & Natural Science (15 credits)

At least 10 credits need to be from science courses. Courses must be selected from two different subject areas. One course must be a laboratory science. A single math course cannot count for both a mathematical and natural science course and a quantitative skill course.

#### Recommended to include:

PHYS& . 100 . . . . .	Physics Non-Sci Majors & . . . . .	4
PHYS& . 101 . . . . .	Physics Lab Non-Sci Majors . . . . .	1

### F. Health and Physical Education (3 credits)

Selected from PE Activity Classes or Health (HE) Classes

Course No.	Course Title	Credits
HE . . . 230 . . . . .	First-Aid Safety . . . . .	3

### G. Required Electives (22-36 credits)

Courses must be numbered 100 & above.

A maximum of 15 credits may be approved professional technology.

Course No.	Course Title	Credits
DRMA . 1261-1281 . . . . .	Stagecraft . . . . .	1-3
DRMA . 244 . . . . .	Stage Makeup . . . . .	2
DRMA . 2461 . . . . .	Stage Lighting . . . . .	3
DRMA . 248 . . . . .	Stage Management . . . . .	2
DRMA . 2451 . . . . .	Sound Design . . . . .	3
DRMA . 242 . . . . .	Design Essentials . . . . .	3

#### Acting Classes

Select 3 credits minimum from the following:

DRMA . 120 . . . . .	Acting-Beginning . . . . .	3
DRMA . 2251 . . . . .	Touring Children's Theatre (offered fall only) . . . . .	1-3
DRMA . 2271 . . . . .	Touring Rep Part I (2 qtr. commitment)-winter . . . . .	1-3
DRMA . 2281 . . . . .	Touring Rep Part II (2 qtr. commitment)-spring . . . . .	1-3

#### Recommended Electives

DRMA . 2431 . . . . .	Stage Costuming . . . . .	1-3
ENT. . . 1161 . . . . .	Basic Drafting . . . . .	5

Total Credits Required. . . 88-102

It is extremely important to stay in close contact with your faculty advisor. It is understood that a theatre major will acquire more credits than are transferable to complete this degree.



## Tri-Tech Program Completion Certificates

**Department Overview:** Students who begin their technical training in Culinary, Dental, or Radio Broadcasting at Tri-Tech Skills Center have the opportunity to complete a certificate program at Columbia Basin College. The completion program is available to students who have successfully completed courses at Tri-Tech Skills Center in one of these three areas and enrolled in the Tech Prep Dual Credit program while still attending Tri-Tech. Upon completion of the additional electives and general education requirements, students are eligible to apply for a certificate through CBC. Questions regarding these certificates should be directed to the Tech Prep Director at CBC (509) 542-4559. See Culinary and Food Services, Dental Assisting, and Radio Broadcasting for certificate requirements and course descriptions.

### Culinary & Food Services

PROFESSIONAL TECHNICAL

One-Year Certificate

#### Major Courses

Course	No.	Course Title	Credits
CUL	101	Culinary/Food Services I	8
CUL	102	Culinary/Food Services II	8
CUL	103	Culinary/Food Services III	8
<b>Subtotal.</b>			<b>24</b>

#### Major Support

Course	No.	Course Title	Credits
BUS&	101	Intro to Business	5
NUTR&	101	Nutrition	5
<b>Subtotal.</b>			<b>10</b>

#### General Education

Course	No.	Course Title	Credits
ENGL&	101	English Composition I	5
MATH	106+	MATH 106 <b>or</b> above	5

#### Psychology or Sociology (select 5 credits)

PSYC&	100	General Psychology <b>or</b>	5
PSYC	201	Social Psychology <b>or</b>	5
SOC&	101	Intro to Sociology	5

#### Speech (select 3-5 credits)

CMST	101	Speech Essentials <b>or</b>	3
CMST&	220	Public Speaking <b>or</b>	5
CMST	110	Communication Behavior <b>or</b>	3
CMST&	210	Interpersonal Communication <b>or</b>	5
CMST	260	Multicultural Communications	5

**Subtotal.** 18-20

**Total Credits Required.** 52-54

### Dental Assisting

PROFESSIONAL TECHNICAL

One-Year Certificate

#### Major Courses

Course	No.	Course Title	Credits
DEN	101	Dental Assisting I	8
DEN	102	Dental Assisting II	8
DEN	103	Dental Assisting III	8
<b>Subtotal.</b>			<b>24</b>

#### General Education

Course	No.	Course Title	Credits
ENGL&	101	English Composition I	5
MATH&	146	Introduction to Stats	5
NUTR&	101	Nutrition	5
PSYC&	100	General Psychology	5
SOC&	101	Intro to Sociology	5

#### Biology (select 5 credits)

BIOL&	160	General Biology w/Lab &	5
BIOL&	160L*	General Biology Lab <b>or</b>	0
BIOL&	211	Majors Cellular w/Lab &	5
BIOL&	211L*	Majors Cellular Lab	0

#### Speech (select 3-5 credits)

CMST	101	Speech Essentials <b>or</b>	3
CMST&	220	Public Speaking <b>or</b>	5
CMST	110	Communication Behavior <b>or</b>	3
CMST&	210	Interpersonal Communication	5

**Subtotal.** 33-35

**Total Credits Required.** 57-59

*Important: \*You must sign up for both lecture and lab courses to receive combined lecture and lab credits. Lab credits will display zero as they are included in the lecture credits.*

### Radio Broadcasting

PROFESSIONAL TECHNICAL

One-Year Certificate

#### Major Courses

Course	No.	Course Title	Credits
RBR	101	Radio Broadcasting 1	8
RBR	102	Radio Broadcasting 2	8
RBR	103	Radio Broadcasting 3	8
<b>Subtotal.</b>			<b>24</b>

#### Major Support

Course	No.	Course Title	Credits
BUS	150	Advertising Principles	5
BUS	271	Human Relations Business	5
CA	100	Introduction to Microcomputers	4

#### Choose one of the following:

CMST&	102	Intro to Mass Media <b>or</b>	5
CMST&	210	Interpersonal Communication <b>or</b>	5
CMST	260	Multicultural Communications	5
<b>Subtotal.</b>			<b>19</b>

#### General Education

Course	No.	Course Title	Credits
ENGL&	101	English Composition I	5
CMST&	220	Public Speaking	5
MATH	106+	MATH 106 <b>or</b> above	5

**Subtotal.** 15

**Total Credits Required.** 58



## Welding Technology

<http://www.columbiabasin.edu/home/index.asp?page=766>

**Department Overview:** Welding Technology is a two-year program that includes both theoretical and practical training in basic and advanced welding techniques. Areas covered include, shield metal arc welding, gas flu and cored arc welding, metal arc welding, gas tungsten arc welding, structural welding, pipe welding, and fabrication.

Welding has become a very sophisticated and technical science that requires mental application as well as hands-on abilities. Students who complete the AAS degree will learn welding skills, but also basic math, English, and other communication skills. CBC's Welding training, plus general education requirements, prepare graduates for careers in today's construction trades and fabrications shops. For more information call (509) 544-4924.

The department requires students achieve a minimum grade of 2.0 to be able to continue enrollment in major courses. The Associate of Applied Science degree also requires a minimum grade of 2.0 for each major course. A student who achieves a grade of 1.9 or lower in any required major courses may repeat that course once to attempt to achieve a grade of 2.0 or higher. Exceptions to this policy must be approved by the Dean of the program prior to enrollment and must be based on extenuating circumstances.

## Associate in Applied Science in Welding Technology

PROFESSIONAL TECHNICAL

### Major Courses

Course No.	Course Title	Credits
WT . . . 101 . . . . .	Oxy-Acetylene Process . . . . .	1
WT . . . 1011 . . . . .	Oxy-Acetylene Process Lab . . . . .	3
WT . . . 1021* . . . . .	Introduction to Shield Metal Arc Welding . . . . .	10
WT . . . 103* . . . . .	Fundamentals of Major Processes and Their Consumables . . . . .	5
WT . . . 1031* . . . . .	Advanced Shield Metal Arc Welding . . . . .	10
WT . . . 1041* . . . . .	Shield Metal Arc Welding Certification <b>or</b> . . . . .	10
WT . . . 1051* . . . . .	Gas Metal Arc Welding (MIG) Certificate . . . . .	10
WT . . . 108 . . . . .	Fabrication Technique I . . . . .	1
WT . . . 1081 . . . . .	Fabrication Technique I Lab . . . . .	3
WT . . . 201* . . . . .	Weldability of Metals . . . . .	5
WT . . . 2011* . . . . .	Introduction to Pipe Welding . . . . .	10
WT . . . 202* . . . . .	Welding Inspection . . . . .	5
WT . . . 2021* . . . . .	Gas Tungsten Arc Welding (TIG) . . . . .	10
WT . . . 2031* . . . . .	Pipe Welding Certification . . . . .	10
WT . . . 208 . . . . .	Fabrication Technique II . . . . .	1
WT . . . 2081 . . . . .	Fabrication Technique II Lab . . . . .	3
<b>Subtotal. . . . .</b>		<b>87</b>

### Major Support

Course No.	Course Title	Credits
BPR . . . 106 . . . . .	Blueprint Reading I (WT) . . . . .	3
BPR . . . 206 . . . . .	Blueprint Reading II (WT) . . . . .	3
DRW . . . 106 . . . . .	Mechanical Drawing for Vocational Application . . . . .	3
FYI . . . 103 . . . . .	First Year Introduction for Trades . . . . .	1
<b>Subtotal. . . . .</b>		<b>10</b>

### General Education

Course No.	Course Title	Credits
MATH . . 100+ . . . . .	MATH 100 or above(100/102/109)-are preferred . . . . .	8-10

### English (select 5 credits)

ENGL& . . 101 . . . . .	English Composition I <b>or</b> . . . . .	5
ENGL . . . 103 . . . . .	Writing in the Workplace . . . . .	5

### Human Relations (select 3-5 credits)

PSYC . . . 103 . . . . .	Applied Psychology <b>or</b> . . . . .	3
PSYC& . . 100 . . . . .	General Psychology <b>or</b> . . . . .	5
PSYC . . . 201 . . . . .	Social Psychology <b>or</b> . . . . .	5
BUS . . . 271 . . . . .	Human Relations Business . . . . .	5

### Speech (select 3-5 credits)

CMST . . . 101 . . . . .	Speech Essentials <b>or</b> . . . . .	3
CMST& . . 220 . . . . .	Public Speaking <b>or</b> . . . . .	5
CMST . . . 110 . . . . .	Communication Behavior <b>or</b> . . . . .	3
CMST& . . 210 . . . . .	Interpersonal Communication <b>or</b> . . . . .	5
CMST . . . 260 . . . . .	Multicultural Communications . . . . .	5

**Subtotal. . . . . 19-25**

**Total Credits Required. . . 116-122**

*\*These are variable credit classes, but the maximum number of credits is required for a degree or certificate.*



## Welding Technology Certificate

PROFESSIONAL TECHNICAL

### Major Courses

Course	No.	Course Title	Credits
WT	101	Oxy-Acetylene Process	1
WT	1011	Oxy-Acetylene Process Lab	3
WT	1021*	Introduction to Shield Metal Arc Welding	10
WT	1031*	Advanced Shield Metal Arc Welding	10
WT	1041*	Shield Metal Arc Welding Certification <b>or</b>	10
WT	1051*	Gas Metal Arc Welding (MIG) Certificate	10
WT	108	Fabrication Technique I	1
WT	1081	Fabrication Technique I Lab	3
<b>Subtotal.</b>			<b>38</b>

### Major Support

Course	No.	Course Title	Credits
BPR	106	Blueprint Reading I (WT)	3
DRW	106	Mechanical Drawing for Vocational Application	3
<b>Subtotal.</b>			<b>6</b>

**Total Credits Required. . . . 44**

*\*These are variable credit classes, but the maximum number of credits is required for a degree or certificate.*



Wine Tasting Room Attendant

**Department Overview:** Wine courses are offered to support the needs of the local wine industry. Individual courses are developed in response to input from local vintners and wineries. Some courses may lead to Short Term Certificates that will aid students in finding employment in a variety of wine industry settings.

Wine Tasting Room Attendant

PROFESSIONAL TECHNICAL  
SHORT-TERM CERTIFICATE

Major Courses

Course	No.	Course Title	Credits
WINE.	100.	Wine Tasting Room Attendant	7
Subtotal.			7
Total Credits Required.			7



## Women's Studies

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<http://www.columbiabasin.edu/home/index.asp?page=843>

**Department Overview:** CBC offers students courses in Women's Studies that focus specifically on women's issues. Students will learn various theories to help analyze and explore women's issues historically, economically, and across cultures, and how women's perspectives contribute to art, literature, and culture.



# Course Offerings



## Accounting Common Course

### ACCT& 201

**Principles of Accounting I . . . . . 5.0 Credits**  
Fundamentals of accounting as applied to actual business situations. Introduction to the accounting cycle for service and merchandising firms controlling to purchases and sales with business papers, special journals, and subsidiary ledgers. (Previously BA 251.)

### ACCT& 202

**Principles of Accounting II . . . . . 5.0 Credits**  
The theory and practice of accounting, including financial statements. Emphasis on partnership and corporate accounting. Prerequisite: ACCT& 201 or instructor's permission. (Previously BA 252.)

### ACCT& 203

**Principles of Accounting III . . . . . 5.0 Credits**  
A continuation of ACCT& 202. Introduction of manufacturing and cost accounting. Analysis of financial statements, budgeting and cost volume analysis. Prerequisite: ACCT& 202. (Previously BA 253.)

## Administrative Office Technology

### AOT 101

**Keyboarding I . . . . . 2.0 Credits**  
Introduces the fundamentals of touch typing of letters, numbers, symbols, and operational keys using a computer. It is recommended that a student take CA 100 in the same quarter as AOT 101.

### AOT 102

**Keyboarding II . . . . . 2.0 Credits**  
Reinforces keyboarding skills. Introduces appropriate formatting of business letters, personal letters, memos, reports, and tables using word processing software. Prerequisites: AOT 101 and CA 100 or advanced placement for comparable skills.

### AOT 1091

**Keyboarding/Skillbuilding . . . . . 3.0 Credits**  
Improves keyboarding speed and accuracy through a carefully planned program stressing skill development of alphabetic and numeric keys as well as efficient use of the service keys. Develops 10-key proficiency using 10-key pad. Student may enroll once in AOT 1091, AOT 1092, and AOT 1093 for a maximum of six credits. Prerequisite: AOT 101 or instructor's permission.

### AOT 1092

**Keyboarding/Skillbuilding . . . . . 3.0 Credits**  
Improves keyboarding speed and accuracy through a carefully planned program stressing skill development of alphabetic and numeric keys as well as efficient use of the service keys. Develops 10-key proficiency using 10-key pad. Student may enroll once in AOT 1091, AOT 1092, and AOT 1093 for a maximum of six credits. Prerequisite: AOT 101, AOT 1091 or instructor's permission.

### AOT 1093

**Keyboarding/Skillbuilding . . . . . 3.0 Credits**  
Improves keyboarding speed and accuracy through a carefully planned program stressing skill development of alphabetic and numeric keys as well as efficient use of the service keys. Develops 10-key proficiency using 10-key pad. Student may enroll once in AOT 1091, AOT 1092, and AOT 1093 for a maximum of six credits. Prerequisite: AOT 101, AOT 1092, or instructor's permission.

### AOT 114

**Editing . . . . . 5.0 Credits**  
Develops competency to proofread and edit business documents for correct usage of grammar, punctuation, sentence construction, parallelism, and use of numbers. Introduction to machine transcription. Develops competency to produce transcribed business documents in timely manner. Waiver considered for students achieving COMPASS scores of Writing 87 and Reading 82, or 10 credits of college English writing courses with 2.0 or above. Prerequisites: AOT 102 and eligibility for ENGL 099.

### AOT 117

**Office Orientation . . . . . 3.0 Credits**  
Encompasses business ethics, personal values, human relations, and effective communication in an office environment. Focuses on attaining and retaining entry-level employment. Provides an opportunity to shadow an office professional.

### AOT 124

**Intermediate Spreadsheet Applications. . . . . 5.0 Credits**  
Develops employable application skills using a spreadsheet software, currently Microsoft Excel. Emphasizes creation and design of spreadsheets including formulas, projections, charting, Web pages, lists, macros, and multiple workbooks as needed for effective presentations in the business/office environment. Preparation for Microsoft Office User Specialist, Microsoft Excel Certification. Prerequisites: CA 100 and eligibility for MATH 106.

### AOT 125

**Database Applications . . . . . 5.0 Credits**  
Develops employable application skills using a database software, currently Microsoft Access. Emphasis is on creating the structure, the data file, queries, and the forms and reports needed for effective presentations in a business/office environment. Includes creating an application system using macros, wizards, and switchboard. Prerequisite: CA 100.

### AOT 126

**Presentation Applications . . . . . 3.0 Credits**  
This class introduces the fundamentals of presentation software, currently Microsoft PowerPoint. Students will learn how to create and modify a slide presentation, insert clip art, add slide transition and animation effects, create graphic objects, and prepare a presentation for publishing to the Web using PowerPoint. Preparation for Microsoft Office User Expert PowerPoint Certification. Prerequisite: CA 100.

### AOT 128

**Web Page Maintenance . . . . . 5.0 Credits**  
Introduces fundamental concepts and techniques of maintaining and updating Web page content. Students learn fundamental elements of design using HTML, FrontPage, and a Web browser. Prerequisite: CA 100.

### AOT 129

**Accounting Software . . . . . 3.0 Credits**  
Introduction to accounting software, currently QuickBooks Pro, includes establishing a business, journalizing, and preparation of financial statements. Set up new company and make entries to existing accounting records. Prerequisites: CA 100 and concurrent enrollment in AOT 130 or instructor's permission.

### AOT 130

**Practical Accounting . . . . . 5.0 Credits**  
Applies fundamentals of accounting theory and bookkeeping procedures covering the accounting cycle, use of special journals, and financial statements. Provides practical training in the use of bookkeeping procedures, forms, and systems using manually prepared solutions for a service business. Prerequisites: eligibility for MATH 106 or higher or COMPASS Pre-Algebra 59 or Algebra 26-32 or higher; and COMPASS Reading 82 or higher.

### AOT 131

**Practical Accounting II . . . . . 5.0 Credits**  
Covers accounting controls and systems; presents a more in-depth study of the end-of-period adjustments and procedures for a merchandising business using accounting software. Prerequisites: AOT 129 and AOT 130.

### AOT 132

**Payroll for the Office Professional. . . . . 4.0 Credits**  
Applies bookkeeping procedures and accounting concepts using manual methods and accounting software to establish or maintain the records of a sole proprietorship or partnership form of business organization. Uses Quickbooks Pro to create correspondence and reports to clients, customers, vendors using Word templates; export data to Excel. Prerequisites: AOT 129 and AOT 130 (2.0 minimum grade.)



## AOT 142

### General Office Procedures . . . . . 5.0 Credits

Bridges the gap between the classroom and the office by prioritizing work and managing time, preparing realistic office assignments, filing office documents; managing personal information (PIM software); and conducting online research. Enroll in either AOT 243, AOT 244 or AOT 245 concurrently. Prerequisites: AOT 117, AOT 172, or AOT 173, and Internet proficiency.

## AOT 146

### Legal Terminology. . . . . 5.0 Credits

Provides a basic background of legal terminology for the legal office using multiple word processing software for transcribing legal text and documents, creating up/downloadable files using appropriate software. Prerequisites: AOT 114 or machine transcription experience and AOT 172.

## AOT 172

### Word Processing I . . . . . 5.0 Credits

Develops employable word processing skills and implements effective application in a business environment using a word processing software, currently Microsoft Word. Topics covered include all major functions of Word, including margins, tabs, tables, columns, document enhancement, graphics, styles, outline, tables of contents, and templates. Preparation for Microsoft Office User Certification. Specialist or Expert level. Prerequisite: AOT 102.

## AOT 173

### Word Processing . . . . . 5.0 Credits

Develops employable word processing skills and implements effective application in a business environment using Corel WordPerfect software. Topics covered include: margins, tabs, tables, columns, styles, document enhancement, graphics, merge, and other advanced features. Prerequisite: AOT 102.

## AOT 1952

### Supervised Employment. . . . . 1.0 - 15.0 Credits

A supervised work experience involving the application and practice of skills and principles learned in the classroom. Supervised Employment site must meet degree or certificate specialty requirement. One credit equals 33 work hours. May be repeated for credit and experience. Prerequisites: AOT 102, AOT 117, and instructor's permission.

## AOT 243

### Administrative Office Management . . . . . 2.0 Credits

Integrates application of technical skills while assisting executives in carrying out management responsibilities; applies managerial and leadership skills while completing a simulated executive office simulation. Emphasis on problem-solving, decision-making processes, responsibilities, and implementation. Includes conducting online research. Prerequisites: AOT 126, AOT 142, and Internet proficiency.

## AOT 244

### Legal Administrative Office Procedures . . . . . 5.0 Credits

Integrates application of skills with knowledge of legal administrative office procedures to complete simulated legal office projects and documents using word processing, scheduling, billing, and research software. Includes conducting online research. Prerequisites: AOT 146, AOT 172, and Internet proficiency.

## AOT 247

### Medical Terminology II . . . . . 3.0 Credits

Provides further training of medical terminology for the medical office. Major topics to be studied are: cardiovascular system, blood and lymphatic-immune systems, digestive system, muscular system, skeletal system, and pharmacology. Emphasis is placed on the diseases, laboratory tests, drugs, spelling, and proper phrasing used in medical records. Prerequisite: AOT 147/HIT 147.

## AOT 248

### Medical Terminology III . . . . . 3.0 Credits

Provides further training of medical terminology for the medical office. Major topics to be studied are: cancer/oncology, laboratory/radiology, neurological system, and genitourinary system. Emphasis is placed on the diseases, laboratory tests, drugs, spelling, and proper phrasing used in medical records. Prerequisite: AOT 147/HIT 147.

## AOT 270

### Business Correspondence . . . . . 5.0 Credits

Applies human relations in the composition of business communications by integrating effective mechanics and document content. Emphasis on analyzing and adapting messages to all audiences, including multicultural and international, and choosing the appropriate strategy to accomplish the written task effectively. Includes communicating through email, letters, memos, and reports. Utilizes online services. Prerequisites: AOT 114, AOT 172 or AOT 173, Internet proficiency, and eligibility for ENGL& 101.

## AOT 272

### Word Processing II . . . . . 4.0 Credits

Applies knowledge of advanced word processing features, including styles, macros, mail merge, templates, and long documents, to prepare complex, integrated documents. Solves software-related problems through troubleshooting practice. Transfers Word skills to Publisher software to create brochures, pamphlets, and flyers and comparisons made with similar documents created in Word. Preparation for Microsoft Office User Specialist, Microsoft Word Expert Certification. Prerequisites: AOT 172/CA 172.

## AOT 276

### Integrated Word Processing . . . . . 5.0 Credits

Integrates knowledge and application of word processing, spreadsheet, database, presentation, and Web page software. Utilizes communication, software, and Internet functions in the creation of business/office documents. Currently using Microsoft Word, Excel, Access, PowerPoint, FrontPage, and Outlook. Prerequisites: AOT 124, AOT 125, AOT 126, AOT 128, AOT 272, and Internet proficiency.

## AOT 290

### Professional Development . . . . . 3.0 Credits

Develops ethical qualities and personal approaches for success and excellence in office careers. Emphasis on maintaining a personal and professional balance in today's society. Refines job-search strategies, resume writing, interviewing techniques, and professional image. Student must be near end of program to enroll in this class. Prerequisites: Internet proficiency, AOT 117, AOT 172 or AOT 173, and eligibility for ENGL& 101.

## AOT 2912

### Special Projects. . . . . 1.0 - 5.0 Credits

Students pursue project-oriented experiences in areas or applications not provided or covered in the standard Administrative Office Technology curriculum. Prerequisites: advanced standing and instructor's permission.

## AOT 294

### Software Teaching Methods . . . . . 5.0 Credits

Explores the theory, methods, and practice of teaching adult learners in a technology or computer-based environment. Practical classroom or alternative educational experience with a professional instructor provides a setting for students to practice and analyze teaching and learning basics. Course is designed for individuals seeking to teach software applications. Prerequisites: AOT 124, AOT 125, AOT 126, AOT 128, AOT 129, AOT 272, and CMST 101.



## Adult Basic Education/General Education Development (GED)

### ABE 010

#### ABE Level 1 . . . . . 1.0 - 15.0 Credits

Math instruction in adding and subtracting of simple whole numbers. Reading instruction in phonics, language patterns, and using context to understand written material. Writing instruction for basic survival needs and for personal communication. Class held in the Learning Opportunities Center (LOC) where instruction is provided in a lab format.

### ABE 020

#### ABE Level 2 . . . . . 1.0 - 15.0 Credits

Math instruction in place value, whole number operations, and problem solving. Reading instruction in phonics, language patterns, and using context to understand written material. Writing instruction for basic survival needs and for personal communication. Class held in the Learning Opportunities Center (LOC) where instruction is provided in a lab format.

### ABE 030

#### ABE Level 3 . . . . . 1.0 - 15.0 Credits

Math instruction in decimals, fractions, and problem-solving. Reading instruction in word meanings, structure in word meanings, structure of paragraphs, identification of main idea, distinguishing between fact and opinion and comprehension strategies for a variety of reading materials. Writing instruction in sentence composition and paragraph construction. Class held in the Learning Opportunities Center (LOC) where instruction is provided in a lab format.

### ABE 040

#### ABE Level 4 . . . . . 1.0 - 15.0 Credits

Math instruction in percent, ratio, proportion, measurement, tables, and graphs. Reading instruction in organization and main idea, as well as in evaluation, comprehension, and making inferences using a variety of intermediate level reading materials. Writing instruction in writing connected paragraphs with correct punctuation, capitalization usage, spelling, and more complex sentence structure. Class held in the Learning Opportunities Center (LOC) where instruction is provided in a lab format.

### ABE 050

#### Basic GED Prep . . . . . 1.0 - 15.0 Credits

Individualized instruction to prepare students to pass the five official GED tests with a total score of 2250 points or better. The GED consists of a battery of five individual tests. The five tests include language arts-writing, social studies, science, language arts-reading, and mathematics. Class held in the Learning Opportunities Center (LOC) where instruction is provided in a lab format.

### ABE 060

#### Advanced GED Prep . . . . . 1.0 - 15.0 Credits

Individual instruction to enable students to successfully complete all five of the GED tests. Student may already have completed three of the tests and need to pass the two remaining tests. Or the student could have passed all five GED tests but needs to accumulate more points to reach the necessary total score of 2250 points. Class held in the Learning Opportunities Center (LOC) where instruction is provided in a lab format.

## Agricultural and Industrial Equipment Technology

### AGET 110

#### Fundamentals of Maintenance. . . . . 7.0 Credits

This course introduces skills and knowledge required by all service technicians including: precision measurement, environmental and safety regulation compliance; safety and personal protection equipment, fastener identification; hand and power tool identification, use and safety; lifting and blocking, torque wrench use; tapping, threading, and thread inserts. Students will receive forklift operation training and testing. Students will demonstrate the ability to follow written instruction, complete business forms, and perform basic math skills. This course will include a review of the student rights and responsibilities. Prerequisites: RDG 099, MATH 084, and ENGL 099 or COMPASS test placement.

### AGET 112

#### Pre-Delivery & Preventive Maintenance. . . . . 7.0 Credits

This course will include a review of pre-delivery, preventive maintenance (PM) and the responsibilities of the service technician to ensure that all PM items are performed to a benchmark standard. Students will review pre-delivery and PM standards established by equipment manufacturers and associations. Students will use manufacturer service and maintenance software and literature to determine proper pre-delivery and PM procedures as well as oil sampling etc. They will perform walk around inspections, pre-delivery inspections, test coolant, and learn proper disposal methods for used oil, filters, coolant, batteries, etc. This course will introduce correct machine operation, specifically related to safety precautions listed in the operators manual as well as regulations for safe machine transportation to include tie down, flagging, permitting, and weight distribution. Prerequisites: RDG 099, MATH 084, and ENGL 099 or COMPASS test placement.

### AGET 117

#### Internship 1 . . . . . 5.0 Credits

An internship is a cooperative agreement between industry and education which allows students to utilize and refine skills previously learned in their educational process. All work is to be performed in accordance with industry standards and guidelines and will be supervised by industry and school representatives. Prerequisites: student must have a valid driver's license, be in good academic standing, and have successfully completed required core courses.

### AGET 120

#### Power Train . . . . . 7.0 Credits

This course will discuss the basic components, operations, maintenance, diagnostics, and repair of power train systems used in agricultural and construction equipment. Included will be basic components, couplings, clutches, manual transmissions, torque converters, and power shift transmissions, hydrostatic transmissions, differentials, brakes, and final drives. Hydraulically driven machines will also be included. Prerequisite: AGET 117.

### AGET 122

#### Mobile Air Conditioning . . . . . 7.0 Credits

This course is a study of the theory, application, and repair of mobile air conditioning and refrigeration systems. Emphasis is on preventive maintenance, design, failure analysis, troubleshooting, proper repair, and refrigerant recovery recycle methods. Prerequisite: AGET 117.

### AGET 127

#### Internship 2 . . . . . 5.0 Credits

An internship is a cooperative agreement between industry and education which allows students to utilize and refine skills previously learned in their educational process. All work is to be performed in accordance with industry standards and guidelines and will be supervised by industry and school representatives. Prerequisites: student must have a valid driver's license, be in good academic standing, and have successfully completed required core courses.



## AGET 130

### Hydraulic Principles . . . . . 7.0 Credits

This course is designed to teach the systems operation and the testing, adjusting, maintenance and repair procedures for pilot operated hydraulic systems, load sensing pressure compensated hydraulic systems, electro-hydraulic systems and hydrostatic systems. Students will identify system components and be able to discuss their operation and application. Students will identify different systems, trace the oil flow through the systems, and state the systems operation and application. Students will use onboard diagnostic systems, T adapter kits, digital volt/ohm meters, flow meters, pressure gauges, and manufacturer specific tools to diagnose hydraulic system malfunctions. Prerequisite: AGET 127 or instructor's permission.

## AGET 132

### Wiring Circuits, Charging & Starting Systems . . . . . 7.0 Credits

This course introduces electrical laws and principles. It includes the use of digital volt/ohm meters, amp probes, wiring diagrams and electrical schematics, wire and connector repair methods, and semiconductors. Students will learn to diagnose, maintain, and repair electrical circuits, charging circuits, and starting circuits. Emphasis is on diagnostics, preventive maintenance, and correct repair procedures. Prerequisite: AGET 127 or instructor's permission.

## AGET 210

### Hydraulic Systems . . . . . 7.0 Credits

This course is designed to teach the systems operation and the testing, adjusting, maintenance and repair procedures for pilot operated hydraulic systems, load sensing pressure compensated hydraulic systems, electro-hydraulic systems, and hydrostatic systems. Students will identify system components and be able to discuss their operation and application. Students will identify different systems, trace the oil flow through the systems and state the systems operation and application. Students will use onboard diagnostic systems, T adapter kits, digital volt/ohm meters, flow meters, pressure gauges, and manufacturer specific tools to diagnose hydraulic system malfunctions. Prerequisites: AGET 130 and AGET 132.

## AGET 212

### Electronic Systems. . . . . 7.0 Credits

This course requires the student to use diagnostic testing as specified by manufacturer software, literature, and troubleshooting charts to complete required service, repair, or replacement procedures on agricultural and construction equipment electronic systems. Students will identify, locate, service, test, and repair connectors, sensors, actuators, switches, and control modules. Students will use onboard diagnostic systems, T adapter kits, digital volt/ohm meters, electrical repair kits, crimper tools, and manufacturer specific diagnostic tools. Prerequisite: AGET 130, AGET 132, or instructor's permission.

## AGET 217

### Internship 3 . . . . . 5.0 Credits

An internship is a cooperative agreement between industry and education which allows students to utilize and refine skills previously learned in their educational process. All work is to be performed in accordance with industry standards and guidelines and will be supervised by industry and school representatives. Prerequisites: student must have a valid driver's license, be in good academic standing, and have successfully completed required core courses.

## AGET 220

### Engines and Fuel Systems . . . . . 7.0 Credits

This course is an introduction to engine terminology, operating principles, and maintenance. Engine systems are examined along with diagnostic, repair, and maintenance procedures. Student will study fuel systems used by major engine manufacturers. The function and operation of various types of fuel systems, fuel system maintenance, and basic troubleshooting is covered. This course emphasizes the application of repair procedures for engines. Disassembly, parts evaluation, and reusability, failure analysis, assembly, tune-up procedures, and troubleshooting are covered. Safety, special tool use, and use of service publications are stressed throughout the course. Prerequisite: AGET 217.

## AGET 227

### Internship 4 . . . . . 5.0 Credits

An internship is a cooperative agreement between industry and education which allows students to utilize and refine skills previously learned in their educational process. All work is to be performed in accordance with industry standards and guidelines and will be supervised by industry and school representatives. Prerequisites: student must have a valid driver's license, be in good academic standing, and have successfully completed required core courses.

## AGET 232

### Precision AG and Construction . . . . . 5.0 Credits

This course will provide an introduction to the theory of Global Positioning System (GPS), Differential GPS (DGPS), Geographical Information Systems (GIS), real-time carrier phase differential called Real Time Kinematics (RTK), auto steer, grade control, and remote sensing in relation to Ag and construction equipment. Emphasis will be on installation, calibration, maintenance, operation of, and troubleshooting this equipment on the machine.

## AGET 234

### Diagnostics . . . . . 7.0 Credits

This course requires students to use and understand electronic service tools and on board controllers. In addition students will be required to know the procedure of removing fault codes from on board computers and controllers along with reprogramming with manufacture upgrades. Emphasis will be placed on Hyper Link diagnostics; diagnostic strategies, trouble shooting CAN and network systems. Prerequisite: AGET 227, AGET 220 or instructor's permission.

## AGET 238

### Capstone . . . . . 2.0 Credits

This course includes an applied research project identified during internships, as a work-based problem in need of improvement. Research could include improvements in diagnostic, service, and maintenance processes, technical support systems, customer service, etc. Advanced application of diagnostics principles relating to engine, power train, electrical systems, electronics, hydraulics, brakes, and other equipment systems, and development of preventive maintenance systems are included. Prerequisite: AGET 227, AGET 220 or instructor's permission.

## Agricultural Food Systems

### AFS 101

#### Introduction to Agricultural Systems. . . . . 3.0 Credits

Introduction to the disciplines and integration of fields of agriculture, food production, manufacturing and distribution, and rural society to define and solve real-world problems. Provides an increased awareness of emerging agriculture in the Columbia Basin including crop management, sustainable agriculture, niche and specialty markets, organic crop, and animal production, water management, global issues, technology innovations, financial management, bioterrorism, crop insurance programs, emerging commodities, biotechnology, and crop innovations.

### AFS 201

#### Agricultural & Food Systems . . . . . 4.0 Credits

Development of tools and skills in building, evaluating, and applying model systems in agricultural production, food manufacturing, and distribution within rural society and society as a whole. Focus is on the types of systems, construction, and analysis. Prerequisite: AFS 101 recommended.

### AFS 2011

#### Agricultural and Food Systems Lab . . . . . 1.0 Credit

Lab to be taken concurrently with AFS 201.



## Agriculture

### AG 101

#### Field Crops . . . . . 5.0 Credits

Introduction to principles of crop production, including crop growth, development, yield, and quality. High-yield production techniques of locally grown crops will be included.

### AG 102

#### Introduction to Animal Science . . . . . 4.0 Credits

Types and breeds of livestock, terminology, methods, management systems, techniques of animal and poultry production, and consumer impact.

### AG 1021

#### Introduction to Animal Science Lab . . . . . 1.0 Credit

Lab to be taken concurrently with AG 102.

### AG 105

#### Introduction to Irrigation . . . . . 3.0 Credits

A course offering the student a general background and understanding of irrigation systems and water management including information on evaluation of an irrigation system, water application rates, groundwater management, soil types, drought symptoms and treatments, and runoff control.

### AG 106

#### Introductory Soils . . . . . 2.0 Credits

A course offering the student a general background and understanding of soils, soil formation processes, soil origins with an emphasis on soil origins in the Pacific Northwest, soil taxonomy, organic matter, soil fertility, water relationships, pH, and biological relationships.

### AG 1061

#### Introductory Soils Lab . . . . . 1.0 Credit

Lab to be taken concurrently with AG 106.

### AG 107

#### Entomology for Professional Development. . . . . 3.0 Credits

Designed to introduce the student to the breadth and diversity of the science of entomology. This study of insects will include their diversity, the basics of systematic, anatomy, life cycles, and the role insects play in an ecological context. It also describes the effects both beneficial and prejudicial that insects may have on human welfare and the methods applied to control insect populations. It will target insects of economical interest principally for the Pacific Northwest.

### AG 110

#### Intro to Ag: People, Plants, and Environment . . . . . 5.0 Credits

An introduction to the relationship between people, plants, and the environment as it relates to agriculture. This is a class that is designed to give the student an opportunity to learn about the interactions between humans, the foods they eat, the agricultural products they use, and the impact on human environment.

### AG 141

#### Weed Control Technology . . . . . 4.0 Credits

A study of the safe handling of and recommendations for use of herbicides and biological control agents in agricultural crops of the northwestern United States. Plant identification and regulatory issues related to control of unwanted plant species will be emphasized. Control techniques, including natural, cultural, and chemical will be introduced. Successful completion of coursework will result in preparation of pesticide licensing in agricultural and ornamental weed control. Prerequisite: concurrent enrollment in AG 1411.

### AG 1411

#### Weed Control Technology Lab . . . . . 1.0 Credit

A study of the safe handling of and recommendations for use of herbicides and biological control agents in agricultural crops of the northwestern United States. Plant identification and regulatory issues related to control of unwanted plant species will be emphasized. Control techniques, including natural, cultural, and chemical will be introduced. Successful completion of coursework will result in preparation of pesticide licensing in agricultural and ornamental weed control. Prerequisite: concurrent enrollment in AG 141.

### AG 142

#### Crop Protection Technology. . . . . 5.0 Credits

The study of the various materials and techniques for controlling insects and plant diseases that occur in the Inland Northwest. Safety to the public and personnel will be a major portion of the course.

### AG 143

#### Fertilizer Technology . . . . . 5.0 Credits

Provides a working knowledge of both dry and liquid fertilizers as used in the Pacific Northwest. Discuss the uses and methods of fertilizer application for each of the various plant nutrients-nitrogen, phosphorous, potash, secondary, and micro-nutrients.

### AG 181

#### Irrigation I . . . . . 5.0 Credits

A course study designed for the farm operator. The relationships between soil, water, and plants, with additional study of water conveyance, pumping characteristics, and irrigation water application to the soil will be discussed.

### AG 1971

#### Internship . . . . . 1.0 - 8.0 Credits

The internship is a field-based course in which students have an opportunity to apply and demonstrate their understanding of agricultural, geographic information systems, soils, irrigation, and biology in a work setting. Students will work in local agriculture, natural resources, and governmental establishments where they will have the opportunity to put into practice the skills and knowledge they have acquired. Interns will be engaged in meaningful tasks and assignments that contribute to their understanding of how agricultural, government, and the natural resources industries function. Students will find their own placements at organizations where they have not worked previously. The department will help students network with professional organizations in the area.

### AG 201

#### Soils . . . . . 4.0 Credits

A course offering the student a general background and understanding of soils, soil formation processes, soil origins with an emphasis on soil origins in the Pacific Northwest, soil taxonomy, organic matter, water relationships, pH, and biological relationships. Prerequisites: CHEM& 110/CHEM& 110L or CHEM& 140/CHEM& 140L or instructor permission. This course is cross linked to BIOL 201/BIOL 201L. Students completing AG 201/AG 2011 may not receive graduation credit for BIOL 201/BIOL 201L.

### AG 2011

#### Soils Lab . . . . . 1.0 Credit

Lab to be taken concurrently with AG 201.

### AG 2101

#### Applied Agriculture Research . . . . . 2.0 Credits

In the lab, the student will be directly involved in conducting agricultural research as a member of a research team led by a faculty member. Students will have the opportunity to collect and analyze agricultural and environmental data that will be used to make management decisions. Upon completion of this course, students will prepare a research paper summarizing their results and present this paper at a scientific meeting or seminar. The lab provides an opportunity for students to be directly involved in a research project.



## AG 230

### **Tree Fruit Production . . . . . 5.0 Credits**

A study of fruit production in southeastern Washington, especially concentrating on many cultural practices utilized in producing maximum yields. Site selection, propagation, pruning, training, fertilization, and pest control will be the major emphasis. An Introduction to Horticulture class is suggested prior to taking this course.

## AG 231

### **General Viticulture . . . . . 5.0 Credits**

This course covers vine growth, strategies of grape production, management of the vine, and crop hazards associated with the grape juice and wine industries.

## AG 233

### **Vegetable Production (Potatoes) . . . . . 4.0 Credits**

The study of irrigated potato production practices employed in central Washington's irrigated conditions, including practices designed to produce maximum quality and yields.

## AG 2331

### **Vegetable Production (Potatoes) Lab . . . . . 1.0 Credit**

A laboratory designed to assist in the understanding of practices used in the raising of potatoes. Concurrent enrollment in AG 233 required.

## AG 242

### **Agricultural Finance . . . . . 5.0 Credits**

A study of acquisition and use of capital in agriculture including financial decision-making, investments in current and fixed assets, financial strategies, and capital markets.

## AG 250

### **Introduction to Geographic Information Systems. . . . . 4.0 Credits**

Basic computer science for GIS users including file formats, equipment, and data structures commonly used in GIS. Students will learn how to use ArcMap, ArcCatalog, and ArcToolbox, and explore how this software is used to make decisions with geographic data. Prerequisite: concurrent enrollment in AG 2501.

## AG 2501

### **Introduction to Geographic Information Systems Lab . . . . . 1.0 Credit**

Development of basic computer skills for GIS users including file formats, equipment, and data structures commonly used in GIS. Students will learn how to use ArcMap, ArcCatalog, and ArcToolbox by the use of tutorials and will explore how this software is used to make decisions with geographic data. Prerequisite: concurrent enrollment in AG 250.

## AG 251

### **Advanced Geographic Information Systems . . . . . 4.0 Credits**

Advanced GIS course that builds on skills learned in AG 250. Students will learn how to use ArcMap, ArcCatalog, and ArcToolbox, and explore how this software is used to make decisions with geographic data. Creating GIS data layers using GPS, tabular data, aerial photography, and digital elevation values. Must be taken concurrently with AG 2511.

## AG 2511

### **Advanced Geographic Information Systems Lab . . . . . 1.0 Credit**

Advanced lab course for GIS users that builds on skills learned in AG 250. Students will learn how to use ArcMap, ArcCatalog, and ArcToolbox, and explore how this software is used to make decisions with geographic data. Creating GIS data layers using GPS, tabular data, aerial photography, and digital elevation values. Must be taken concurrently with AG 251.

## AG 252

### **Insects of Economic Importance . . . . . 4.0 Credits**

A study designed to introduce the student to the breadth and diversity of the science of entomology and an in-depth study of insects including: their diversity; the basics of systematic entomology; insect societies; insect physiology and structures; their ecological relationships with their physical and biotic environments; their population and community level ecology; their effects on human welfare through applied disciplines of medical and agricultural entomology; and the methods by which humans attempt to manage insect populations. Prerequisite: AG 2521 to be taken concurrently with AG 252. This course is cross linked to BIOL 252/BIOL 252L. Students completing AG 252/AG 2521 may not receive graduation credit for BIOL 252/BIOL 252L.

## AG 2521

### **Insects of Economic Importance Lab . . . . . 1.0 Credit**

Lab to be taken concurrently with AG 252.

## AG 253

### **Plant Pathology . . . . . 4.0 Credits**

An introduction to the organisms causing plant diseases, their identification, and control technologies. Material presented covers the basic principles necessary to develop an adequate understanding of plant disease processes in natural, urban, commercial, and industrial situations. Emphasis will be placed on diseases encountered in the Pacific Northwest. Prerequisite: AG 2531 to be taken concurrently with AG 253. This course is cross linked to BIOL 253/BIOL 253L. Students completing AG 253/AG 2531 may not receive graduation credit for BIOL 253/BIOL 253L.

## AG 2531

### **Plant Pathology Lab . . . . . 1.0 Credit**

Lab to be taken concurrently with AG 253.

## AG 254

### **Plant Systematics . . . . . 2.0 Credits**

A course offering the student a general background and understanding of the identification and classification of vascular plants with emphasis on the local flora of the Pacific Northwest. Prerequisites: BIOL& 212/BIOL& 212L or BIOL 140/BIOL 140L. This course is cross linked to BIOL 254/BIOL 254L. Students completing AG 254/AG 2541 may not receive graduation credit for BIOL 254/BIOL 254L.

## AG 2541

### **Plant Systematics Lab . . . . . 3.0 Credits**

Lab to be taken concurrently with AG 254.

## AG 2971

### **Internship . . . . . 1.0 - 8.0 Credits**

The internship is a field-based course in which students have an opportunity to apply and demonstrate their understanding of agricultural, geographic information systems, soils, irrigation, and biology in a work setting. Students will work in local agriculture, natural resources, and governmental establishments where they will have the opportunity to put into practice the skills and knowledge they have acquired. Interns will be engaged in meaningful tasks and assignments that contribute to their understanding of how agricultural, government, and the natural resources industries function. Students will find their own placements at organizations where they have not worked previously. The department will help students network with professional organizations in the area.

## Anthropology

### **ANTH 1972**

#### **Field Experience . . . . . 1.0 - 3.0 Credits**

The student is given the opportunity to participate in an archeological dig. Credit is dependent on the number of hours the student can devote to the field experience. (Previously ANT 1972.)



## Anthropology Common Course

### ANTH& 100

#### Survey of Anthropology [S/B] . . . . . 5.0 Credits

The field of anthropology is the scientific study of people from all periods of time and in all areas of the world. Anthropology, as a discipline, focuses on both the biological and cultural characteristics of our species, Homo sapiens. In this course, we will explore this discipline by looking at how each of the major branches of anthropology attempts to answer the basic question: What does it mean to be human? (Previously ANT 101.)

### ANTH& 204

#### Archeology [S/B] . . . . . 5.0 Credits

Archaeology is the study of the cultural past of humankind and ANTH& 204 provides an introduction to the field of anthropological archaeology. In this course, we will examine the major concepts, theories, and methods of anthropological archaeology that contribute to an understanding of the human past. This course will also include surveys of past cultures from the Americas, Africa, Asia, and Europe. (Previously ANT 130.)

### ANTH& 205

#### Biological Anthropology [M/S] . . . . . 5.0 Credits

Physical Anthropology is the study of human beings from an evolutionary and biological perspective and ANTH& 205 provides an introduction to this sub-field of anthropology. In this course, we will examine our own species (Homo sapiens) by looking at the biological basis of life, the processes of evolution, our primate relatives both living and extinct, and the variation seen in modern human populations. (Previously ANT 111.)

### ANTH& 206

#### Cultural Anthropology [S/B]. . . . . 5.0 Credits

Cultural Anthropology is the branch of anthropology that studies the species Homo sapiens from a cultural perspective. This course examines and attempts to explain the diversity and similarity of cultures and peoples throughout the world. (Previously ANT 120.)

### ANTH& 234

#### Religion & Culture [S/B] . . . . . 5.0 Credits

The Anthropology of Religion is the cross-cultural study of the relationship between humans and the supernatural world. Unlike other religious studies, scholars, and anthropologists are more concerned about the relationship and interconnections between people's religious traditions and beliefs and other aspects of society. The objective of this course is familiarizing students with certain aspects that are common to many of the world's religions. In ANTH& 234 we will explore and analyze the meaning of myth systems, the importance and meaning of religious symbols, rituals, religious specialists, how different societies organize supernatural powers and entities, and then finally a quick survey of the world's religions. We will do this in order to come to appreciate the significance all religions hold for the people who follow them, and develop a broad definition of religion that enables us to examine myriad systems of belief on equal terms. (Previously ANT 128.)

## Arabic

### ARAB 121

#### Arabic-First Quarter [H] . . . . . 5.0 Credits

Introduction to the modern, standard Arabic language including conversational skills, reading, writing, and grammar, and the culture of Arab countries of the Middle East and Northern Africa including geography, customs, daily life, and heritage. Designed for the novice learner of Arabic, with little or no proficiency in the Arabic language. Prerequisite: recommended that students have successfully completed at least ENGL 099.

### ARAB 122

#### Arabic-Second Quarter [H] . . . . . 5.0 Credits

Introduction to the modern, standard Arabic language including conversational skills, reading, writing, grammar, and the culture of Arab countries of the Middle East and Northern Africa including geography, customs, daily life, and heritage. Prerequisite: ARAB 121 or instructor's permission.

### ARAB 123

#### Arabic-Third Quarter [H] . . . . . 5.0 Credits

Introduction to the modern, standard Arabic language including conversational skills, reading, writing, grammar, and the culture of Arab countries of the Middle East and Northern Africa including geography, customs, daily life, and heritage. ARAB 102 or instructor's permission.

## Art, Visual

### ART 111

#### Design I . . . . . 5.0 Credits

Introduction to the formal elements and principles of design common to all two-dimensional media. The student examines the formal elements of line, shape, form, space, pattern, texture, and color and applies the principles of unity and variety, balance, focus, repetition, rhythm, movement, and proportion. Students are introduced to spatial and ordering strategies through a sequence of design and color theory problems which emphasize creative problem-solving, using a variety of media and techniques. Recommended for all art, design, photography, and architecture students, and for anyone with a general interest in art.

### ART 1121

#### 3D Design II . . . . . 5.0 Credits

This course of study is an introduction to the visual and tactile elements and principles that relate to three-dimensional forms in space. The student will execute various aesthetic design problems that focus on arriving at a better understanding of a three-dimensional dialogue, applicable to sculpture, architecture and ceramics, as well as product package and landscape design. ART 111 recommended.

### ART 1131

#### Drawing I. . . . . 3.0 Credits

A basic studio course that focuses on the fundamental skills: observation, composition, development of forms, and personal expression. Surveys a wide range of media and techniques and examines master works of drawing.

### ART 1141

#### Drawing II . . . . . 3.0 Credits

A continuation of ART 1131 with emphasis on individual direction, composition, color, expanded technique, and media experiences. Prerequisite: ART 1131 or instructor's permission.

### ART 1151

#### Life Drawing. . . . . 3.0 Credits

A continuation of ART 114, with emphasis on human figures; includes structural anatomy, proportion, composition and abstraction of these subjects for purposes of individual expression. Recommended: ART 1131 or instructor's permission.

### ART 116

#### Art History Ancient World [H] . . . . . 5.0 Credits

A comparative study of architecture, sculpture, and pictorial arts from the ancient cultures of the world. A chronological survey of prehistoric, Mesopotamian, Egyptian, Greek, Roman, Byzantine, and Islamic arts.

### ART 117

#### Art History Medieval-Baroque [H]. . . . . 5.0 Credits

A study of architecture, painting, and sculpture from the Middle Ages through the Gothic, Renaissance, and Baroque. Comparative studies of cross cultural traditions.



<p><b>ART 118</b>  <b>Art History Modern Times [H]</b> . . . . . <b>5.0 Credits</b>  A chronological study of architecture, sculpture, painting, printmaking, photography, and the design arts from Romanticism to the present.</p> <p><b>ART 119</b>  <b>Art History of Asia [H]</b> . . . . . <b>5.0 Credits</b>  A survey of painting, sculpture, ceramics, and architecture of India, China, Southeast Asia, and Japan with emphasis on the political, philosophical, and religious courses that shape Far Eastern art.</p> <p><b>ART 120</b>  <b>Art History of the Americas</b> . . . . . <b>5.0 Credits</b>  Survey of pre-Colombian art in North and South America; North American and Latin American colonial arts; modern and contemporary Latin American, and Native American art and their contributions to contemporary culture.</p> <p><b>ART 121</b>  <b>Women In Art [H]</b> . . . . . <b>5.0 Credits</b>  A comparative study of women's roles in the visual arts and artists, patrons, muses, subjects, critics, and collectors. Cross-cultural, from ancient to contemporary.</p> <p><b>ART 1571</b>  <b>Surface Design</b> . . . . . <b>3.0 Credits</b>  An exploratory class in the field of surface design, which is the coloring, patterning and transformation of fabric, fiber, and other materials, directed toward art and design. The class emphasis is on the studying design on cloth and experimenting with the various techniques used to achieve the design.</p> <p><b>ART 1581</b>  <b>Silk Painting.</b> . . . . <b>3.0 Credits</b>  An exploratory class in painting on silk covering various painting, dyeing, resist, and discharge techniques.</p> <p><b>ART 2011</b>  <b>Photography I</b> . . . . . <b>1.0 - 3.0 Credits</b>  A basic course in the use of the photographic equipment, either traditional or digital, to expose and compose photographs. This will include elements of design and composition to aid in relating your ideas of people and the world around you. Students will learn to use new technologies using computers and computer software to enlarge and print pictures.</p> <p><b>ART 2021</b>  <b>Photography II</b> . . . . . <b>1.0 - 3.0 Credits</b>  A study of photography for the advanced student photographer with a working knowledge of photographic equipment, computers, and software enabling them to manipulate photographs. ART 111 and ART 2011 recommended.</p> <p><b>ART 2081</b>  <b>Digital Photography</b> . . . . . <b>2.0 Credits</b>  An introduction to the use of computers and software to enhance, alter, or repair photographs. Students will do text exercises and work on their own prints, slides, or negatives.</p> <p><b>ART 209</b>  <b>Digital Art and Design</b> . . . . . <b>3.0 Credits</b>  An introduction to the use of digital media in art. This course will acquaint the student with the basic fundamentals of using the Creative Suite program that includes Adobe PhotoShop, Illustrator, and InDesign. These computer programs are used for creating graphic design layouts, working with digital imagery, or creating your own unique digitally-based works of art. Recommended: ART 111.</p> <p><b>ART 2101</b>  <b>Lettering.</b> . . . . <b>2.0 Credits</b>  A studio study of basic techniques and history of calligraphy styles from early manuscripts to modern, contemporary uses. Traditional calligraphic forms as well as expressive methods of calligraphy painting will be presented. The course will explore usage of type in fine arts applications as well as design. Recommended for fine arts and graphic arts majors.</p>	<p><b>ART 211</b>  <b>Graphic Design I</b> . . . . . <b>5.0 Credits</b>  An introductory class in the theory and application of graphic design used in today's advertising and industrial graphics. Industry-accepted computer software for vector drawing and page layout will be extensively used by the student. Prerequisite: ART 209 or instructor's permission.</p> <p><b>ART 212</b>  <b>Graphic Design II</b> . . . . . <b>5.0 Credits</b>  An intermediate class in the theory and application of graphic design used in today's advertising and industrial graphics. Industry accepted computer software for bit mapped image creation and manipulation will be extensively used by the student. Further use of page layout software will be explored. Prerequisite: ART 211.</p> <p><b>ART 2131</b>  <b>Printmaking I</b> . . . . . <b>1.0 - 3.0 Credits</b>  A study of traditional and contemporary printmaking techniques with emphasis on technical exposure and its effect on drawing and graphic design. Contains problems in relief, intaglio, and serigraphy (silk screen). Recommended for commercial and graphic art majors.</p> <p><b>ART 2141</b>  <b>Printmaking II</b> . . . . . <b>1.0 - 3.0 Credits</b>  A continuation of ART 2131 with special emphasis on one of the following: Intaglio, the collagraph screen printing, or lithography. Prerequisite: ART 2131.</p> <p><b>ART 2151</b>  <b>Painting I.</b> . . . . . <b>1.0 - 3.0 Credits</b>  An introduction to techniques of painting in oil or acrylic; preparation of wood, canvas, and paper supports; color mixing and application methods. Traditional and experimental approaches to subject matter, composition, and expression.</p> <p><b>ART 2161</b>  <b>Painting II</b> . . . . . <b>1.0 - 3.0 Credits</b>  Continuation of ART 2151 with greater emphasis on individual development of subject matter, technique, and personal expression. Oil, acrylic, or mixed media. Prerequisite: ART 2151.</p> <p><b>ART 2201</b>  <b>Sculpture I</b> . . . . . <b>1.0 - 3.0 Credits</b>  A study of three-dimensional form with emphasis on the inter-relationships between space and form through the techniques of modeling, mold-making, and casting. Recommended: ART 111 and ART 1121.</p> <p><b>ART 2211</b>  <b>Sculpture II</b> . . . . . <b>1.0 - 3.0 Credits</b>  A continuation of ART 2201 with emphasis on the techniques of casting, construction, and carving. Prerequisite: ART 2201.</p> <p><b>ART 2221</b>  <b>Pottery I</b> . . . . . <b>1.0 - 3.0 Credits</b>  A basic introduction to ceramic forms with emphasis on production by hand methods. Consideration of the nature and possibilities of clay, clay body formulation, and introductory glaze testing, as well as loading and firing procedures for bisque and glaze kilns.</p> <p><b>ART 2231</b>  <b>Pottery II.</b> . . . . . <b>1.0 - 3.0 Credits</b>  A continuation of ART 2221 with special emphasis on wheel technique, glaze formulation, and design of clay forms. Prerequisite: ART 2221.</p>
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## ART 2241

### Ceramic Sculpture . . . . .1.0 - 3.0 Credits

A studio course designed to focus on using clay as a sculptural medium. Students will develop projects that explore either large scale slab construction, large scale coiling, building effective armatures and supports, and working solid. Other fabricating processes such as mold-making for slip-casting and using forms made on the potter's wheel for sculptural construction will be introduced. Students will also apply various glazing techniques and firing processes that are appropriate to their sculptural work.

## ART 2251

### Jewelry I . . . . .1.0 - 3.0 Credits

The design and construction of jewelry using a variety of media and traditional fabrication techniques of metal working. Recommended: ART 111.

## ART 2261

### Jewelry II . . . . .1.0 - 3.0 Credits

A continuation of ART 2251 with emphasis on advanced fabrication techniques and contemporary jewelry design. Prerequisite: ART 2251.

## ART 230

### Professional Practices . . . . .1.0 - 2.0 Credits

This course will focus on preparing the art major for admission into an accredited art program as well as exploring the business aspects of being a professional artist.

## ART 2331

### Jewelry Casting I . . . . .1.0 - 3.0 Credits

Exploratory of the lost wax casting technique to make fine jewelry. How to create an original design in wax, cast it in metal and polish it to a finished piece of jewelry.

## ART 2341

### Jewelry Casting II . . . . .1.0 - 3.0 Credits

Advanced exploratory of the lost wax casting technique to make fine jewelry.

## ART 2411

### Illustration I . . . . .1.0 - 3.0 Credits

A studio study of design, drawing, painting media, and techniques used by professional illustrators and graphic designers. Emphasis will be on the techniques of perspective with a wide range of drawing media. Recommended: ART 111 and ART 1131.

## ART 2421

### Illustration II . . . . .1.0 - 3.0 Credits

A continuation of ART 2411 with emphasis on mixed media and the techniques of pseudo realism and abstraction as applied to modern, fine, and commercial art, and graphic design. Prerequisite: ART 2411.

## ART 2431

### Illustration III . . . . .1.0 - 3.0 Credits

A continuation of ART 2421 with emphasis on the use of mixed media, color, and graphic techniques applied to illustration. Prerequisites: ART 2411 and ART 2421.

## ART 2501

### Studio Problems . . . . .1.0 - 3.0 Credits

Individual, contracted, advanced study in visual arts theory and practice. Prerequisite: completion of all available studio art within desired area of study. Instructor's permission.

## ART 2511

### Studio Problems - Design . . . . .1.0 - 3.0 Credits

Individual, contracted, advanced study in design. Studio and seminar.

## ART 2521

### Studio Problems - Graphic . . . . .1.0 - 3.0 Credits

Individual, contracted, advanced study in computer graphics. Studio and seminar.

## ART 2531

### Studio Problems - Drawing . . . . .1.0 - 3.0 Credits

Individual, contracted, advanced study in drawing. Studio and seminar.

## ART 2541

### Studio Problems - Painting . . . . .1.0 - 3.0 Credits

Individual, contracted, advanced study in painting. Studio and seminar.

## ART 2551

### Studio Problems - Sculpture . . . . .1.0 - 3.0 Credits

Individual, contracted, advanced study in sculpture. Studio and seminar.

## ART 2561

### Studio Problems - Jewelry . . . . .1.0 - 3.0 Credits

Individual, contracted, advanced study in jewelry. Studio and seminar.

## ART 2571

### Studio Problems - Pottery . . . . .1.0 - 3.0 Credits

Individual, contracted, advanced study in pottery. Studio and seminar.

## ART 2611

### Studio Problems-Jewelry Casting . . . . .1.0 - 3.0 Credits

Individual contracted advanced study in the exploratory of the lost wax casting technique to make fine jewelry.

## Art, Visual Common Course

### ART& 100

#### Art Appreciation [H] . . . . .5.0 Credits

A general survey of fine and applied arts with brief media encounters in various areas of art. The class emphasis is on building a general appreciation of the techniques, styles, and history of art. (Previously ART 110.)

## Astronomy Common Course

### ASTR& 101

#### Intro to Astronomy w/lab [M/S] . . . . .5.0 Credits

A survey of astronomy including history of astronomy, the solar system, galaxies, cosmology, and current topics. Several night observation sessions are held. Lecture and lab must be taken concurrently. Prerequisite: MATH 095 or MATH 096. (Previously AST 101.)

### ASTR& 101L

#### Intro to Astronomy Lab [M/S] . . . . .0.0 Credit

You must sign up for both lecture and lab to receive combined lecture and lab credits. No lab credits will show as they are included in the lecture credits. (Previously AST 101L.)

## Autobody Collision Repair

### ABT 1001

#### Basic Autobody . . . . .1.0 - 5.0 Credits

Enrollment limited to high school students. \$10 lab fee required.

### ABT 102

#### Automotive Detailing. . . . .1.0 Credit

This hands-on class will give you the skills to make any vehicle look its best. Topics covered are: cleaning and polishing the vehicle exterior, wheels, tires, interiors to include leather, vinyl, carpet, convertible tops, and glass.

### ABT 1021

#### Automotive Detailing Lab . . . . .3.0 Credits

This hands-on class will give you the skills to make any vehicle looks its best. Topics covered are: cleaning and polishing the vehicle exterior, wheels, tires, interiors to include leather, vinyl, carpet, convertible tops, and glass.



<b>ABT 111</b>	
<b>Basic Repair . . . . .</b>	<b>5.0 Credits</b>
This course introduces students to repair techniques for shaping and restoring body panels to their original shape using hand and power tools. Each lab and lecture class includes instructions on the safe use of hand and power tools. Students will take ASSET test first week of class if not previously taken.	
<b>ABT 1111</b>	
<b>Basic Repair Lab . . . . .</b>	<b>.1.0 - 9.0 Credits</b>
Lab to be taken concurrently with ABT 111.	
<b>ABT 112</b>	
<b>Structural Glass Installation . . . . .</b>	<b>3.0 Credits</b>
Explore the history of glass manufacturing and fabrication. This course will cover stationary glass removal and installation. Understanding proper adhesives selection will be emphasized.	
<b>ABT 121</b>	
<b>Subassembly Repair . . . . .</b>	<b>5.0 Credits</b>
This class is divided into three segments. In the first segment, students learn the mechanics of vehicle doors necessary for alignment, mechanical repairs, and aligning adjustable body panels. In the second segment, students learn to replace body panels that are welded on to the vehicle. Students will take ASSET test first week of class if not previously taken.	
<b>ABT 1211</b>	
<b>Subassembly Repair Lab . . . . .</b>	<b>.1.0 - 9.0 Credits</b>
Lab to be taken concurrently with ABT 121.	
<b>ABT 131</b>	
<b>Principles of Painting. . . . .</b>	<b>5.0 Credits</b>
Students learn paint preparation and how to paint a vehicle for complete refinishing. Skills learned include: painting techniques, mixing various types of paints, equipment use, and the safe use of materials and tools. Students will take ASSET test first week of class if not previously taken.	
<b>ABT 1311</b>	
<b>Painting Lab. . . . .</b>	<b>.1.0 - 9.0 Credits</b>
This course has two segments. In the first segment, vehicle estimating, students learn the basics of estimating using estimating manuals and computer generated estimates. In the second segment, students learn to use basic and advanced measuring tools and equipment for straightening and replacing structural components. Students will take ASSET test first week of class if not previously taken.	
<b>ABT 150</b>	
<b>Custom Painting &amp; Airbrush Design . . . . .</b>	<b>2.0 Credits</b>
This is an introductory course in the theory of custom painting of vehicles using airbrush techniques. The learner will be introduced to the equipment, paints, and coverings used to create custom designs on vehicles. Computer design will be introduced using the Corel Draw software. Concurrent registration in ABT 1501 is required.	
<b>ABT 1501</b>	
<b>Custom Painting &amp; Airbrush Design Lab . . . . .</b>	<b>3.0 Credits</b>
This is an introductory course in which the learner uses the airbrush to create custom designs and paint vehicles. The learner will use the equipment, paints, and coverings to paint custom designs on vehicles. Learners will complete a computer design using the Corel Draw software. Concurrent registration in ABT 150 is required.	
<b>ABT 211</b>	
<b>Repair Methods. . . . .</b>	<b>5.0 Credits</b>
This course has two segments. In the first segment, students learn the basics of vehicle repair estimating using estimating manuals and computer generated estimates. In the second segment, students learn to use basic and advanced measuring tools and equipment for straightening and replacing structural components.	
<b>ABT 2111</b>	
<b>Repair Methods Lab . . . . .</b>	<b>.1.0 - 9.0 Credits</b>
Lab to be taken concurrently with ABT 211.	
<b>ABT 221</b>	
<b>Body Rebuilding I . . . . .</b>	<b>5.0 Credits</b>
This course is a continuation of Body Rebuilding I. Students complete a major collision repair project and learn to use a variety of mechanical components for repair and replacement.	
<b>ABT 2211</b>	
<b>Body Rebuilding I Lab . . . . .</b>	<b>.1.0 - 9.0 Credits</b>
Lab to be taken concurrently with ABT 221.	
<b>ABT 231</b>	
<b>Body Rebuilding II. . . . .</b>	<b>5.0 Credits</b>
Students will spend time refining skills. Emphasis will be on flat rate manual, time clock, and other skills that will be used in shop conditions. In the lab area, speed and quality work against the time clock and flat rate shop conditions will be simulated as much as possible. There will be more challenging frame work and spot painting. Prerequisites: ABT 221 and ABT 2211.	
<b>ABT 2311</b>	
<b>Body Rebuilding II Lab . . . . .</b>	<b>.1.0 - 9.0 Credits</b>
Lab to be taken concurrently with ABT 231.	
<b>Automotive Technology</b>	
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<b>AMT 100</b>	
<b>Basic Automotive Maintenance . . . . .</b>	<b>2.0 Credits</b>
An introduction to general automotive systems and service procedures. This course is designed to familiarize the student with the automotive industry learning how to properly service and maintain today's vehicles, knowing how to understand what a service repair facility is saying to them when they are having a vehicle repaired, and the requirements to continue on becoming an automotive repair technician if desired. Class time consists of lecture on theory of preventative maintenance procedures and systems, basic operation of automotive tools, shop safety, computerized online information systems, written assignments, and basic automotive repair techniques. Lab time will consist of the student applying concepts learned with hands-on experience while working on student owned vehicles and school mock-ups.	
<b>AMT 1001</b>	
<b>Basic Automotive Maintenance Lab . . . . .</b>	<b>.1.0 - 3.0 Credits</b>
Lab to be taken concurrently with AMT 100.	
<b>AMT 101</b>	
<b>Front End Alignment . . . . .</b>	<b>2.0 Credits</b>
This course is designed to familiarize the student with construction and operation of the front and rear suspension and alignment factors and procedures that are used on the modern automobile. This class is designed primarily for Autobody students but is open for anyone wishing a short course in front end alignment. Prerequisite: ASSET test placement with math minimum 32 and reading minimum 35 or instructor's permission.	
<b>AMT 1011</b>	
<b>Front End Alignment Lab . . . . .</b>	<b>2.0 Credits</b>
Lab to be taken concurrently with AMT 101.	
<b>AMT 102</b>	
<b>Introduction to the Automotive Trades . . . . .</b>	<b>2.0 Credits</b>
An introduction to general automotive systems and service procedures. This course is designed to familiarize the student with the automotive industry and the requirements of becoming an automotive repair technician or autobody repair technician. Class time consists of lecture on theory of preventative maintenance procedures and systems, basic operation of automotive tools, shop safety, computerized online information systems, written assignments, and basic automotive repair techniques. Lab time will consist of the student applying concepts learned with hands-on experience while working on student owned vehicles and school mock-ups.	
<b>AMT 1021</b>	
<b>Introduction to the Automotive Trades Lab . . . . .</b>	<b>.1.0 - 3.0 Credits</b>
Lab to be taken concurrently with AMT 102.	



<b>AMT 110</b> <b>Introduction Automotive Technology . . . . . 4.0 Credits</b> This combination class/lab is designed to give the student basic knowledge and understanding of all eight vehicle systems including: electrical, engines, brakes, suspension, manual transmissions and drive train components, heating and air conditioning, automatic transmissions, and engine performance. Prerequisite: completion of college placement test.	<b>AMT 1402</b> <b>Automotive Internship . . . . . 7.0 Credits</b> This summer internship program is designed to prepare the student for actual shop employment. Students will be required to spend a minimum of eight weeks (340 hours) working in an automotive repair facility gaining experience with genuine automotive shop working conditions. This "hands-on" practice will enable the student to be more prepared for their second year advanced studies and will allow them to have verifiable "employed" experience when searching for employment at completion of the second year. The internship work site must be instructor approved. Prerequisites: AMT 133, AMT 1331, ENGL 103, and CMST 103.
<b>AMT 1101</b> <b>Introduction Automotive Technology Lab . . . . . 10.0 Credits</b> Lab to be taken concurrently with AMT 110.	<b>AMT 207</b> <b>Material Science of Automotive Technology . . . . . 3.0 Credits</b> This is an introductory level study of automotive materials used today and new materials in the future. Steels and aluminum alloys, carbon fiber composites, and plastics are introduced to the student in the context of their manufacturer and properties. The automotive maintenance and repair students are presented the common failure modes and an understanding the common nondestructive testing techniques used to diagnose degradation processes prior to catastrophic failure. The student will also learn the general steps in performing nondestructive testing and how components wear, corrode, or mechanically fail during service. The nondestructive testing component of the class training will follow guidelines set forth by the American Society of Nondestructive Testing SNT-TC-1A for Magnetic Particle Testing Level I and Penetrant Testing Level I (PT-I).
<b>AMT 120</b> <b>Basic Electrical and Electronics. . . . . 2.0 Credits</b> This combination class/lab is designed to give the student a basic understanding of the theory, diagnosis, and service of automotive electrical and electronic systems. This includes examining and understanding basic electrical principles and how malfunctions affect electrical systems. Service and repair techniques are also covered. Prerequisites: AMT 110 and AMT 1101, RDG 099, ENGL 098/ENGL 099, MATH 084.	<b>AMT 220</b> <b>Advanced Electrical and Electronics . . . . . 2.0 Credits</b> This combination class/lab is designed to give the student a highly developed understanding of the theory, diagnosis and service of the advanced automotive electrical and electronic operating systems. Prerequisite: AMT 1402.
<b>AMT 1201</b> <b>Basic Electrical and Electronics Lab . . . . . 5.0 Credits</b> Lab to be taken concurrently with AMT 120.	<b>AMT 2201</b> <b>Advanced Electrical and Electronics Lab . . . . . 5.0 Credits</b> Lab to be taken concurrently with AMT 220.
<b>AMT 123</b> <b>Brakes/Suspension I . . . . . 2.0 Credits</b> This combination class/lab is designed to give the student a basic understanding of the theory, diagnosis, and service of automotive brake, steering, and suspension systems. The emphasis will be on the mechanical portion of those systems. Prerequisites: AMT 120 and AMT 1201.	<b>AMT 223</b> <b>Brakes/Suspension II . . . . . 2.0 Credits</b> This combination class/lab is designed to give the student a highly developed understanding of the theory, diagnosis, and service of the advanced steering, suspension, and brake systems, with a heavy emphasis on the electronic side of those systems. Prerequisites: AMT 220 and AMT 2201.
<b>AMT 1231</b> <b>Brakes/Suspension I Lab . . . . . 5.0 Credits</b> Lab to be taken concurrently with AMT 123.	<b>AMT 2231</b> <b>Brakes/Suspension II Lab . . . . . 5.0 Credits</b> Lab to be taken concurrently with AMT 223.
<b>AMT 130</b> <b>Engine Performance . . . . . 2.0 Credits</b> This combination class/lab is designed to give the student a basic understanding of the theory, diagnosis, and service of automotive engine performance systems. Emphasis will be on basic engine performance related to engine diagnosis, ignition systems, fuel delivery, emission systems, and routine maintenance. Prerequisites: AMT 123, AMT 1231, and CMST 103.	<b>AMT 230</b> <b>Automatic Transmission . . . . . 2.0 Credits</b> This combination class/lab is designed to give the student a basic understanding of the theory, diagnosis, and service of automotive automatic transmissions. This includes the complete rebuild of an automatic transmission and the understanding of the internal hydraulic, electrical, and mechanical operations. Prerequisites: AMT 223, AMT 2231, and PSYC 103.
<b>AMT 1301</b> <b>Engine Performance Lab . . . . . 5.0 Credits</b> Lab to be taken concurrently with AMT 130.	<b>AMT 2301</b> <b>Automatic Transmission Lab . . . . . 4.0 Credits</b> Lab to be taken concurrently with AMT 230.
<b>AMT 133</b> <b>Engine Repair and Rebuild . . . . . 2.0 Credits</b> This combination class/lab is designed to give the student a basic understanding of the theory, diagnosis, and service of internal engines. Students will study the operation of an internal combustion engine with an emphasis on failure analysis. Upon completing an engine rebuild the learner will do hot run engine dynamometer diagnostic tests. Prerequisites: AMT 130, AMT 1301, and CMST 103.	<b>AMT 233</b> <b>Manual Transmission . . . . . 2.0 Credits</b> This combination class/lab is designed to give the student a basic understanding of the theory, diagnosis, and service of automotive manual transmissions. The student will rebuild a manual transmission and gain knowledge of internal gear transfer paths. In addition, study of clutches, drive axles, and differentials will round out this course of study. Prerequisites: AMT 230, AMT 2301, and PSYC 103.



## AMT 2331

**Manual Transmission Lab** . . . . . **5.0 Credits**  
Lab to be taken concurrently with AMT 233.

## AMT 240

**Drivability Diagnostics** . . . . . **2.0 Credits**  
This combination class/lab is designed to give the student a highly developed understanding of the theory, diagnosis, and service of the drivability automotive systems. Emphasis will be on power train computer systems, sensors, and outputs, and the proper diagnostic strategies to locate potential problems in these systems. Prerequisites: AMT 233, AMT 2331, and above MATH 111.

## AMT 2401

**Drivability Diagnostics Lab** . . . . . **5.0 Credits**  
Lab to be taken concurrently with AMT 240.

## AMT 243

**Heating Ventilation and Air Conditioning Systems** . . . . . **2.0 Credits**  
This combination class/lab is designed to give the student a basic understanding of the theory, diagnosis, and service of automotive heating, ventilation, and air conditioning (HVAC) systems. Emphasis will be on proper air conditioning recharging techniques and the electrical portion of the HVAC systems. Prerequisites: AMT 240, AMT 2401, and above MATH 111.

## AMT 2431

**Heating Ventilation & Air Conditioning Systems Lab.** . . . . **5.0 Credits**  
Lab to be taken concurrently with AMT 243.

## Biology

### BIOL 108

**Plants of the Columbia Basin [M/S]** . . . . . **2.0 Credits**  
Spring wildflowers, flowering shrubs, and trees of eastern Washington with emphasis on the Columbia Basin Region. Techniques in identification, collection, preservation, mounting preserved specimens, and ecological principles. Field trips will be required as weather permits. This course is designed for non-science majors. No prerequisites are required. (Previously BIO 108.)

### BIOL 108L

**Plants of the Columbia Basin Lab [M/S]** . . . . . **3.0 Credits**  
Lab to be taken concurrently with BIOL 108. (Previously BIO 1081.)

### BIOL 120

**Bioethics [M/S]** . . . . . **5.0 Credits**  
A survey of the scientific basis of advances in biotechnology, and an examination of the ethical questions raised by applications in medicine, agriculture, and natural resources use. Topics will include reproductive technology and cloning, gene therapy, genetic and disease screening, transplantation, allocating healthcare resources, pharmaceutical biotechnology, genetic engineering crops, patenting natural resources, and the background in cellular and molecular biology required to analyze the issues. Prerequisite: BIOL& 100/BIOL& 100L or higher. (Previously BIO 120.)

### BIOL 140

**Fundamentals of Botany [M/S].** . . . . **1.0 - 4.0 Credits**  
An introductory course in the plant sciences. Includes structure and function of plant cells, tissues, organs; growth, reproduction, diversity, evolution, and ecology. Emphasis on local flora and ecology. Primarily for non-science or agriculture majors. (Previously BIO 140.)

### BIOL 140L

**Fundamentals of Botany Lab [M/S]** . . . . . **1.0 Credit**  
Lab to be taken concurrently with BIOL 140. (Previously BIO 1401.)

## BIOL 148

**Plant Identification [M/S]** . . . . . **2.0 Credits**  
Spring wildflowers of eastern Washington with emphasis on the Columbia Basin Region. Techniques in identification, collection, preservation, mounting of preserved specimens, and ecological principles. During the latter part of the quarter, attendance at all-day Saturday field trips is required. (Previously BIO 148.)

## BIOL 148L

**Plant Identification Lab [M/S]** . . . . . **3.0 Credits**  
Lab to be taken concurrently with BIOL 148. (Previously BIO 1481.)

## BIOL 186

**Extended Topics in Biology [M/S]** . . . . . **1.0 - 5.0 Credits**  
A class designed to explore a specific topic of special interest. (Previously BIO 186.)

## BIOL 186L

**Extended Topics in Biology Lab [M/S].** . . . . **1.0 - 3.0 Credits**  
Lab to be taken concurrently with BIOL 186. (Previously BIO 1861.)

## BIOL 201

**Soils [M/S]** . . . . . **4.0 Credits**  
A course offering the student a general background and understanding of soils, soil formation processes, soil origins with an emphasis on soil origins in the Pacific Northwest, soil taxonomy, organic matter, water relationships, pH, and biological relationships. Prerequisites: CHEM& 110/CHEM& 110L or CHEM& 140/CHEM& 140L or instructor permission. This course is cross linked to AG 201/AG 2011. Students completing BIOL 201/BIOL 201L may not receive graduation credit for AG 201/AG 2011. (Previously BIO 201.)

## BIOL 201L

**Soils Lab [M/S]** . . . . . **1.0 Credit**  
Lab to be taken concurrently with BIOL 201. (Previously BIO 2011.)

## BIOL 240

**General Ecology [M/S].** . . . . **4.0 Credits**  
A course offering the student a general background and understanding of the fundamental principles of ecology with emphasis on ecology of terrestrial systems. Topics will include review and discussion of the organism in the context of its environment, evolutionary processes, population dynamics, communities, energy flow and ecosystems, conservation biology, field and lab techniques as presented in the text and lecture, basic natural history, and human influences on ecosystems. Prerequisites: BIOL& 211/BIOL& 211L, or CHEM& 140/CHEM& 140L or higher, and ENV& 101/ENV& 101L. (Previously BIO 240.)

## BIOL 240L

**General Ecology Lab [M/S]** . . . . . **1.0 Credit**  
Lab to be taken concurrently with BIOL 240. (Previously BIO 2401.)

## BIOL 250

**General Genetics [M/S]** . . . . . **4.0 Credits**  
An introduction to molecular and classical genetics for students intending to take enhanced courses in biology and the health sciences. Emphasis on Mendelian genetics, chromosomes and genetic linkage, gene replication, regulation of gene expression, genetic engineering, and population genetics. Prerequisites: BIOL& 160/BIOL& 160L, or BIOL& 211/BIOL& 211L, and MATH 095. (Previously BIO 250.)

## BIOL 250L

**General Genetics Lab [M/S]** . . . . . **1.0 Credit**  
Lab to be taken concurrently with BIOL 250. (Previously BIO 2501.)



## BIOL 252

**Insects of Economic Importance [M/S] . . . . . 4.0 Credits**

A study designed to introduce the student to the breadth and diversity of the science of entomology and an in-depth study of insects including: their diversity; the basics of systematic entomology; insect societies; insect physiology and structures; their ecological relationships with their physical and biotic environments; their population and community level ecology; their effects on human welfare through applied disciplines of medical and agricultural entomology; and the methods by which humans attempt to manage insect populations. Prerequisite: BIOL 252L to be taken concurrently with BIOL 252. This course is cross linked to AG 252/AG 2521. Students completing BIOL 252/BIOL 252L may not receive graduation credit for AG 252/AG 2521. (Previously BIO 252.)

## BIOL 252L

**Insects of Economic Importance Lab [M/S] . . . . . 1.0 Credit**

Lab to be taken concurrently with BIOL 252. (Previously BIO 2521.)

## BIOL 253

**Plant Pathology [M/S] . . . . . 4.0 Credits**

An introduction to the organisms causing plant diseases, their identification, and control technologies. Material presented covers the basic principles necessary to develop an adequate understanding of plant disease processes in natural, urban, commercial, and industrial situations. Emphasis will be placed on diseases encountered in the Pacific Northwest. Prerequisite: AG 2531 to be taken concurrently with AG 253. This course is cross linked to AG 253/AG 2531. Students completing BIOL 253/BIOL 253L may not receive graduation credit for AG 253/AG 2531. (Previously BIO 253.)

## BIOL 253L

**Plant Pathology Lab [M/S] . . . . . 1.0 Credit**

Lab to be taken concurrently with BIOL 253. (Previously BIO 2531.)

## BIOL 254

**Plant Systematics [M/S] . . . . . 2.0 Credits**

A course offering the student a general background and understanding of the identification and classification of vascular plants with emphasis on the local flora of the Pacific Northwest. Prerequisites: BIOL& 212/BIOL& 212L or BIOL 140/BIOL 140L. This course is cross linked to AG 254/AG 2541. Students completing BIOL 254/BIOL 254L may not receive graduation credit for AG 254/AG 2541. (Previously BIO 254.)

## BIOL 254L

**Plant Systematics Lab [M/S]. . . . . 3.0 Credits**

Lab to be taken concurrently with BIOL 254. (Previously BIO 2541.)

## Biology Common Course

### BIOL& 100

**Survey of Biology w/lab [M/S] . . . . . 5.0 Credits**

An introductory course in basic biological principles and processes. The lab illustrates the basic concepts discussed in lecture and acquaints students with general laboratory procedures. Primarily for non-science majors. (Previously BIO 100.)

### BIOL& 100L

**Survey of Biology Lab [M/S]. . . . . .0.0 Credit**

You must sign up for both lecture and lab to receive combined lecture and lab credits. No lab credits will show as they are included in the lecture credits. (Previously BIO 1001.)

## BIOL& 160

**General Biology w/lab [M/S] . . . . . 5.0 Credits**

An introduction to basic cell structure and physiology with emphasis on: function and structure of cell membranes; metabolism and enzyme function; genetics and protein synthesis; genetics of viruses, prokaryotes, and eukaryotes; cell signaling, and communication. The use of models, microscope slides, and physiological experiments illustrate cellular structure and function. Prerequisite: Strongly recommended: high school chemistry, or CHEM& 110/CHEM& 110L or higher, or concurrent enrollment. This course does not satisfy the prerequisite for BIOL& 212/BIOL& 212L or BIOL& 213/BIOL& 213L. (Previously BIO 105.)

## BIOL& 160L

**General Biology Lab [M/S] . . . . . .0.0 Credit**

You must sign up for both lecture and lab to receive combined lecture and lab credits. No lab credits will show as they are included in the lecture credits. (Previously BIO 1051.)

## BIOL& 175

**Human Biology w/lab [M/S]. . . . . 5.0 Credits**

The biology of the human organism. Evolution, ecology, the functioning of cells, tissues and the major organ systems form the core of the class. Emphasis is placed on providing the student with sufficient background to make informed decisions relating to the biological aspects of the human species. Primarily for non-science majors. (Previously BIO 110.)

## BIOL& 175L

**Human Biology Lab [M/S] . . . . . .0.0 Credit**

You must sign up for both lecture and lab to receive combined lecture and lab credits. No lab credits will show as they are included in the lecture credits. (Previously BIO 1101.)

## BIOL& 211

**Majors Cellular w/lab [M/S] . . . . . 5.0 Credits**

An introductory cell biology lecture and lab course for biology majors, pre-medical, pre-dental, pre-pharmacy, pre-physical therapy, and other pre-professional students planning to transfer to a four-year university. This is the first of a three-quarter series with an emphasis on cell chemistry, structure, metabolism, energetics, cell division, cell signaling, the molecular basis of inheritance and development, and the basis of genetic engineering. Health Science majors are advised to take BIOL& 160/BIOL& 160L. Prerequisite: a grade of 2.0 or better in CHEM& 110/CHEM& 110L or higher. (Previously BIO 111.)

## BIOL& 211L

**Majors Cellular Lab [M/S]. . . . . .1.0 Credit**

You must sign up for both lecture and lab to receive combined lecture and lab credits. No lab credits will show as they are included in the lecture credits. (Previously BIO 1111.)

## BIOL& 212

**Majors Plant w/lab [M/S]. . . . . 5.0 Credits**

Includes the concept of evolution; the origin of life; a survey of prokaryotes, protists, plants, and fungi; plant anatomy, and function. Primarily for science majors. Prerequisites: a grade of 2.0 or better in BIOL& 211/BIOL& 211L and CHEM& 140/CHEM& 140L or higher. (Previously BIO 112.)

## BIOL& 212L

**Majors Plant Lab [M/S] . . . . . .0.0 Credit**

You must sign up for both lecture and lab to receive combined lecture and lab credits. No lab credits will show as they are included in the lecture credits. (Previously BIO 1121.)

## BIOL& 213

**Majors Animal w/lab [M/S] . . . . . 5.0 Credits**

A survey of the invertebrate and vertebrate animals covering their diversity, structure, and function of organ systems, and the interactions between organisms and the environment. Primarily for science majors. Prerequisite: a grade of 2.0 or better in BIOL& 212/BIOL& 212L. (Previously BIO 113.)



## BIOL& 213L

**Majors Animal Lab [M/S]** . . . . . **0.0 Credit**  
You must sign up for both lecture and lab to receive combined lecture and lab credits. No lab credits will show as they are included in the lecture credits. (Previously BIO 1131.)

## BIOL& 241

**Human A&P 1 w/lab [M/S]** . . . . . **6.0 Credits**  
The structure and functions of systems of the human body; integumentary, skeletal, muscular, and nervous. The use of human models and animals illustrate the systems. Prerequisite: a grade of 2.0 or better in BIOL& 160/BIOL& 160L or BIOL& 211/BIOL& 211L. Recommended: CHEM& 110/CHEM& 110L. (Previously BIO 221.)

## BIOL& 241L

**Human A&P 1 Lab [M/S]** . . . . . **0.0 Credits**  
You must sign up for both lecture and lab to receive combined lecture and lab credits. No lab credits will show as they are included in the lecture credits. (Previously BIO 221.)

## BIOL& 242

**Human A&P 2 w/lab [M/S]** . . . . . **6.0 Credits**  
Continuation of BIOL& 241/BIOL& 241L. Endocrine, digestive, respiratory, circulatory, lymphatic, urinary, and reproductive systems. Prerequisite: a grade of 2.0 or better in BIOL& 241/BIOL& 241L. (Previously BIO 222.)

## BIOL& 242L

**Human A&P 2 Lab [M/S]** . . . . . **0.0 Credits**  
You must sign up for both lecture and lab to receive combined lecture and lab credits. No lab credits will show as they are included in the lecture credits. (Previously BIO 222.)

## BIOL& 260

**Microbiology w/lab [M/S]** . . . . . **6.0 Credits**  
Basic principles, concepts, and techniques in the study of bacteria, protists, fungi, and viruses. Concepts of immunity and the role of micro-organisms in medicine. Prerequisite: a grade of 2.0 or better in BIOL& 160/BIOL& 160L or BIOL& 211/BIOL& 211L. Strongly recommended: CHEM& 110/CHEM& 110L, BIOL& 241/BIOL& 241L, and BIOL& 242/BIOL& 242L (for nursing majors) or BIOL& 212/BIOL& 212L and BIOL& 213/BIOL& 213L (for biology majors). (Previously BIO 260.)

## BIOL& 260L

**Microbiology Lab [M/S]** . . . . . **0.0 Credits**  
You must sign up for both lecture and lab to receive combined lecture and lab credits. No lab credits will show as they are included in the lecture credits. (Previously BIO 260.)

## Blueprint Reading

### BPR 106

**Blueprint Reading I (WT)** . . . . . **3.0 Credits**  
This course is designed to introduce the welding student to the world of blueprint symbols, facts, and figures. BPR 106 is the first of a two-part series in which the student will learn the various methods of presenting to the fabricator what the designer wants in the final product. Symbolism for welding structural shapes, types of fittings, their physical make up, material, and dimensioning are covered in the class. The successful student will be an asset to any fabrication shop or when working for the Ironworkers or Millwrights. Prerequisite: DRW 106.

### BPR 204

**Blueprint Reading II (MT)** . . . . . **3.0 Credits**  
This course is designed to give the student skills and knowledge necessary to read, understand tolerances, and apply geometric dimensioning to machine shop drawings. Prerequisite: MT 102.

### BPR 206

**Blueprint Reading II (WT)** . . . . . **3.0 Credits**  
The second course in the series with the emphasis on pipe isometrics. The course is designed to provide the student with the ability to read, draw, and dimension pipe isometrics for fabrication. The successful student will be an asset to any fabrication shop or when working for or with pipe fitters or entry level. Prerequisite: BPR 106.

## Business

### BUS 103

**Salesmanship** . . . . . **5.0 Credits**  
A study in consumer motivation, buyer benefits, overcoming sales resistance, and closing of sales supplemented by sales demonstrations developed and presented in the classroom. (Previously BA 103.)

### BUS 105

**Business & Payroll Tax Accounting.** . . . . . **5.0 Credits**  
A study of the various aspects of federal, state, and local taxes levied upon business. Emphasis placed on Federal Income and Social Security tax withholding, sales tax requirements, and various state regulations regarding employee health, safety, unemployment insurance, and business and occupation tax. Students will practice completion of various tax reports and maintenance of accurate tax related records. Offered spring quarter. Prerequisite: ACCT& 201 or instructor's permission. (Previously BA 105.)

### BUS 107

**Federal Income Taxes.** . . . . . **5.0 Credits**  
This course emphasizes tax planning and tax recognition, not tax expertise. Students will be aware of the many issues and general solutions in taxation, including tax considerations in business decision-making, tax effects of business transactions; taxation of compensation; fringe benefits; capital gains; fixed asset transactions; tax credits; alternative minimum tax and passive activity rules, but leaving the detailed tax planning or compliance work for other tax courses. Offered fall quarter. Recommended prerequisite: ACCT& 201. (Previously BA 107.)

### BUS 111

**Computerized Accounting** . . . . . **5.0 Credits**  
This course will require students to use QuickBooks to account for service and merchandising businesses. The different modules include Accounts Receivable, Accounts Payable, Payroll, and integration of Microsoft Excel and Word. Prerequisites: ACCT& 201 and ACCT& 202 or concurrent enrollment in ACCT& 202. (Previously BA 111.)

### BUS 120

**Personal Finance** . . . . . **5.0 Credits**  
A decision-making approach to personal financial planning. Students will use course materials and Internet resources to develop personal financial strategies. (Previously BA 120.)

### BUS 130

**Project Management** . . . . . **5.0 Credits**  
This introductory course covers project, program, and portfolio management. The course content includes project initiation, planning, execution, monitoring, and closing within the context of the project management profession, certification, and ethics. Theory and software application are combined to provide a foundation for future professional development.

### BUS 134

**Public Relations** . . . . . **5.0 Credits**  
A critical study of the theory, principles, and practices of organizational public relations in the complex social, technical, and political climate of the era. The class is writing and speaking intensive, culminating in student oral presentations, and a portfolio of media examples. (Previously BA 134.)



<b>BUS 150</b> <b>Advertising Principles . . . . . 5.0 Credits</b> Study of when and how to use the major advertising mediums, with emphasis on local advertising. The course will include media buying, copywriting, layouts, production, market research, and sales promotion. (Previously BA 150.)	<b>BUS 262</b> <b>Management Principles . . . . . 5.0 Credits</b> A study of the essentials of management in merchandising, manufacturing, agriculture, agrichemical business, and service businesses. (Previously BA 262.)
<b>BUS 165</b> <b>Investments . . . . . 5.0 Credits</b> Fundamentals of investing and investment alternatives, including a study of traditional investment vehicles such as stocks, bonds, mutual funds, and more speculative strategies such as options and futures. The course will examine investment decision-making within the framework of investment goals including safety, risk, growth, and income. The mechanics of various financial markets will also be discussed. (Previously BA 165.)	<b>BUS 263</b> <b>Principles of Finance . . . . . 5.0 Credits</b> An examination of the analytical tools used to manage and control finances. Concepts include: acquisition and oversight of working capital; intermediate and long term financing; and the cost of capital and capital budgeting. (Previously BA 263.)
<b>BUS 1952</b> <b>Supervised Employment . . . . . 1.0 - 15.0 Credits</b> A supervised paid work experience in a community agency, business, or industrial firm involving the application and practice of skills and principles learned in the classroom. Instructor's permission required. (Previously BA 1952.)	<b>BUS 264</b> <b>Fraud &amp; Accounting Information Systems . . . . . 5.0 Credits</b> This course provides a perspective of Accounting Information Systems through the examination of fraud including various schemes, skimming, and check tampering. Accounting and legal principles provide a context for the big picture of occupational fraud and abuse. The behavioral theory and social factors that motivate perpetrators of fraud are explained. The Systems Understanding Aid (SUA) is an accounting practice set supported with documents to enhance understanding an accounting system. Prerequisite: ACCT&201, ACCT& 202, or ACCT&203. (Previously BA 264.)
<b>BUS 1962</b> <b>Employment Seminar . . . . . 1.0 - 5.0 Credits</b> Designed to provide students with insight into the many aspects of the world of work through discussions of their personal work environments, encompassing actual on-the-job training, and observations. Concurrent enrollment with BUS 1952. May be repeated to a maximum of six credits. (Previously BA 1962.)	<b>BUS 265</b> <b>Marketing Principles . . . . . 5.0 Credits</b> Study of marketing functions from the viewpoint of the manager covering such topics as marketing, distribution channels, price market grid, transportation, and consumer behavior. (Previously BA 265.)
<b>BUS 220</b> <b>Advanced Personal Finance . . . . . 5.0 Credits</b> This advanced personal finance course is for the mature individual who is seeking in-depth information and discussion on retirement, tax, and estate planning. The specifics of retirement trends and strategies, life goals, IRAs, pension plans, distributions, insurance, and wills are researched culminating in a retirement and estate plan. Prerequisite: BUS 120 or instructor's permission.	<b>BUS 267</b> <b>Marketing Special Projects . . . . . 1.0 - 15.0 Credits</b> A practical and student-centered project oriented class, utilizing marketing skills to develop marketing plans for the Tri-Cities area business and charitable organizations. The use of primary and secondary data collection, research, business start-up planning, profitable business decision-making, and business communications skills as they relate to a final project. Prerequisite: instructor's permission. (Previously BA 267.)
<b>BUS 250</b> <b>Management Information Systems . . . . . 5.0 Credits</b> This course is designed to introduce business majors to Management Information Systems (MIS) and demonstrate how these systems are used throughout organizations in theory and application. The course will focus on organizational information systems, including managerial support systems and acquisition, and application of information systems. Topical coverage consists of a web-based, global environment and how to manage it through a competitive advantage and strategic information system. Ethics and privacy, network communications, E-Commerce, mobile commerce, and contemporary topics are explored. The software deliverables include a WebCT homepage, a PowerPoint presentation, and a Word document from the student's fictional or real business, followed by an Excel spreadsheet and an Access database. As a result of taking this course, students will obtain valuable information technology knowledge and skills required for success in business. (Previously BA 250.)	<b>BUS 268</b> <b>Marketing Special Projects II . . . . . 1.0 - 15.0 Credits</b> A continuing practical and student-centered marketing project course utilizing material provided by proposing clients. Included in this project is the development of a marketing promotional plan for-profit and not-for-profit companies. This special project is designed to help the student use marketing skills related to primary and secondary data collecting and added researched data, business startup planning, making a business more profitable, and decision-making as they relate to the final promotion of a product or business. As in course BUS 267 more advanced projects will be assigned and above skills will be expanded. Prerequisite: instructor's permission. (Previously BA 268.)
<b>BUS 257</b> <b>Government Accounting . . . . . 5.0 Credits</b> Accounting practices for the growing nonprofit segment of the economy (governmental units, educational institutions, hospitals, etc.) with a comparison to accounting for profit-making organizations. Includes a practice set to be used on microcomputer. Prerequisite: ACCT& 201. (Previously BA 257.)	<b>BUS 269</b> <b>Marketing Special Projects III . . . . . 1.0 - 15.0 Credits</b> A continuing practical and student-centered marketing project course utilizing material provided by proposing clients, student researched data. Included in this project is the development of a marketing promotional plan for-profit and not-for-profit companies. This special project is designed to help the student use marketing skills related to effective business promotion and/or product development. Selling skills, creative planning, and implementation training will be utilized for the clients benefit. As in course BUS 268 more technical and advanced projects and research will be assigned and the above skills will be expanded to client specifications. Prerequisite: instructor's permission. (Previously BA 269.)
<b>BUS 261</b> <b>Human Resource Management . . . . . 1.0 - 5.0 Credits</b> A critical inquiry into the theory, principles, and practices of human resource management in the global work place of the 21st century. Emphasis is on the shift from large-scale business to the practices needed to sustain and nourish world-class standards and practices in small and start-up enterprises. (Previously BA 261.)	<b>BUS 271</b> <b>Human Relations Business . . . . . 5.0 Credits</b> Study of the individual and his or her growth and development. Course is designed to enable students to establish goals and lead others in the accomplishment of those goals. It is aimed at heightening the student's awareness of leadership and management. (Previously BA 271.)



## BUS 272

### Organization Development . . . . . 3.0 Credits

A critical study of theory, principles, and practices in the development of contemporary business organizations. The focus is on diagnosis in a problem-solution approach. Key issues are triggering, managing, and nourishing change in a turbulent and highly competitive global business environment. Systems understanding, resource, and technology applications are considered. (Previously BA 272.)

## BUS 2952

### Supervised Employment . . . . . 1.0 - 5.0 Credits

A supervised, paid work experience in a community agency, business, or industrial firm involving the application and practice of skills and principles learned in the classroom. Instructor's permission required. (Previously BA 2952.)

## BUS 2962

### Employment Seminar . . . . . 1.0 - 2.0 Credits

Designed to provide students with insight into the many aspects of the world of work through discussions of their personal work environment, encompassing actual on-the-job training, and observations. Concurrent enrollment with Supervised Employment 2952. May be repeated to a maximum of six credits. (Previously BA 2962.)

## Business Common Course

### BUS& 101

#### Introduction to Business . . . . . 5.0 Credits

A critical survey of the theory, principles, and practices of modern business. The theme is building world class employees who produce and distribute world class goods and services in an increasingly competitive global marketplace. Critical thinking, systems understanding, resource allocation, human relations, and technology application are emphasized. (Previously BA 101.)

### BUS& 201

#### Business Law . . . . . 5.0 Credits

An introduction to the American legal system including its social, political, and philosophical roots. The court system and judicial procedures are critically examined, and the class inquires extensively into business torts, crimes, and contracts. (Previously BA 254.)

## Chemistry

### CHEM 254

#### Quantitative Analysis [M/S] . . . . . 2.0 Credits

Introduction to analytical chemistry. Sampling, statistics, and spreadsheets. Acid-base, precipitation, complexation, and redox equilibria. Activity coefficients and systematic treatment of equilibrium. Volumetric, gravimetric, potentiometric, environmental, and clinical methods of analysis taught in the lab. Prerequisite: CHEM& 163/CHEM& 163L. (Previously CHM 251.)

### CHEM 255

#### Instrumental Analysis [M/S]. . . . . 2.0 Credits

Electrochemistry, potentiometry, coulometry, voltammetry, spectrophotometry, atomic spectroscopy, chromatography, capillary electrophoresis, and mass spectrometry. Ion-selective electrode, coulometric, spectrophotometric, atomic spectrometric, solvent extraction, chromatographic, and mass spectrometric methods of analysis taught in the lab. CHEM 255/CHEM 265 has a heavy emphasis on instrumental methods of chemical analysis. Computer-interfaced instrumentation included in the lab. Prerequisite: grade of 2.0 or better in CHEM 254/CHEM 264. (Previously CHM 252.)

### CHEM 264

#### Quantitative Analysis Lab [M/S] . . . . . 3.0 Credits

Lab to be taken concurrently with CHEM 254. (Previously CHM 2511.)

### CHEM 265

#### Instrumental Analysis Lab [M/S] . . . . . 3.0 Credits

Lab to be taken concurrently with CHEM 255. (Previously CHM 2521.)

### CHEM 2861

#### Undergraduate Research, Special Topic [M/S] . . . . . 1.0 - 3.0 Credits

Designed for students who want to expand their knowledge of chemistry beyond the basics offered in their regular courses. By arrangement with the instructor, the student can pursue a special topic of interest, design, and carry out a project, or participate in undergraduate research (either alone or with other students) in the areas of natural product chemistry, or organic analytical chemistry. Prerequisite: CHEM& 140/CHEM& 140L with a grade of 2.0 or higher, or high school chemistry with a grade of B or better. Instructor's permission is also required to enroll. Note: credits earned in this course cannot be used as a substitute for required credits in other CBC chemistry courses. (Previously CHM 2861.)

### CHEM 2862

#### Undergraduate Research, Special Topic [M/S] . . . . . 1.0 - 3.0 Credits

Designed for students who want to expand their knowledge of chemistry beyond the basics offered in their regular courses. By arrangement with the instructor, the student can pursue a special topic of interest, design and carry out a project, or participate in undergraduate research (either alone or with other students) in the areas of natural product chemistry, or organic analytical chemistry. Prerequisite: CHEM& 140/CHEM& 140L with a grade of 2.0 or higher, or high school chemistry with a grade of B or better. Instructor's permission is also required to enroll. Note: credits earned in this course cannot be used as a substitute for required credits in other CBC chemistry courses. (Previously CHM 2862.)

### CHEM 2863

#### Undergraduate Research, Special Topic [M/S] . . . . . 1.0 - 3.0 Credits

Designed for students who want to expand their knowledge of chemistry beyond the basics offered in their regular courses. By arrangement with the instructor, the student can pursue a special topic of interest, design and carry out a project, or participate in undergraduate research (either alone or with other students) in the areas of natural product chemistry, or organic analytical chemistry. Prerequisite: CHEM& 140/CHEM& 140L with a grade of 2.0 or higher, or high school chemistry with a grade of B or better. Instructor's permission is also required to enroll. Note: credits earned in this course cannot be used as a substitute for required credits in other CBC chemistry courses. (Previously CHM 2863.)

### CHEM 2864

#### Undergraduate Research, Special Topic [M/S] . . . . . 1.0 - 3.0 Credits

Designed for students who want to expand their knowledge of chemistry beyond the basics offered in their regular courses. By arrangement with the instructor, the student can pursue a special topic of interest, design and carry out a project, or participate in undergraduate research (either alone or with other students) in the areas of natural product chemistry, or organic analytical chemistry. Prerequisite: CHEM& 140/CHEM& 140L with a grade of 2.0 or higher, or high school chemistry with a grade of B or better. Instructor's permission is also required to enroll. Note: credits earned in this course cannot be used as a substitute for required credits in other CBC chemistry courses. (Previously CHM 2864.)

### CHEM 2865

#### Undergraduate Research, Special Topic [M/S] . . . . . 1.0 - 3.0 Credits

Designed for students who want to expand their knowledge of chemistry beyond the basics offered in their regular courses. By arrangement with the instructor, the student can pursue a special topic of interest, design and carry out a project, or participate in undergraduate research (either alone or with other students) in the areas of natural product chemistry, or organic analytical chemistry. Prerequisite: CHEM& 140/CHEM& 140L with a grade of 2.0 or higher, or high school chemistry with a grade of B or better. Instructor's permission is also required to enroll. Note: credits earned in this course cannot be used as a substitute for required credits in other CBC chemistry courses. (Previously CHM 2865.)





## CHEM 2907

### Undergraduate Research, Special Topics [M/S]. . . . . 1.0 - 3.0 Credits

Designed for students who want to expand their knowledge of chemistry beyond the basics offered in their regular courses. By arrangement with the instructor, the student can participate in undergraduate research (either alone or as part of a team with other students), design and carry out a project, or pursue a special topic of interest in the fields of analytical chemistry, atmospheric science, or chemical education. Prerequisites: CHEM& 140/ CHEM& 140L with a grade of 2.0 or higher or high school chemistry with a grade of B or better. Instructor permission is also required to enroll. Note: credits earned in this course cannot be used as a substitute for required credits in other CBC chemistry courses. (Previously CHM 2907.)

## CHEM 2908

### Undergraduate Research, Special Topics [M/S]. . . . . 1.0 - 3.0 Credits

Designed for students who want to expand their knowledge of chemistry beyond the basics offered in their regular courses. By arrangement with the instructor, the student can participate in undergraduate research (either alone or as part of a team with other students), design and carry out a project, or pursue a special topic of interest in the fields of analytical chemistry, atmospheric science, or chemical education. Prerequisites: CHEM& 140/ CHEM& 140L with a grade of 2.0 or higher or high school chemistry with a grade of B or better. Instructor permission is also required to enroll. Note: credits earned in this course cannot be used as a substitute for required credits in other CBC chemistry courses. (Previously CHM 2908.)

## CHEM 2909

### Undergraduate Research, Special Topics [M/S]. . . . . 1.0 - 3.0 Credits

Designed for students who want to expand their knowledge of chemistry beyond the basics offered in their regular courses. By arrangement with the instructor, the student can participate in undergraduate research (either alone or as part of a team with other students), design and carry out a project, or pursue a special topic of interest in the fields of analytical chemistry, atmospheric science, or chemical education. Prerequisites: CHEM& 140/ CHEM& 140L with a grade of 2.0 or higher or high school chemistry with a grade of B or better. Instructor permission is also required to enroll. Note: credits earned in this course cannot be used as a substitute for required credits in other CBC chemistry courses. (Previously CHM 2909.)

## Chemistry Common Course

## CHEM& 110

### Chemical Concepts w/Lab (M/S) . . . . . 5.0 Credits

Basic introduction to chemical principles as they apply to the structure and behavior of matter. Illustrations from everyday life, environmental topics, medicine, and biochemistry will be used to illustrate chemical principles. Topics include: measurement in science, properties of matter, atomic structure, bonding, nuclear chemistry, mole concept, gas laws, solutions, and acids/bases. Assumes no previous chemistry and designed to fulfill the chemistry requirement for the AAS degree in Nursing at CBC. Course may also be used to fulfill the general science requirement for the AA degree. Prerequisite: MATH 091/MATH 096 or higher. (MATH 106 and Vocational Math do not apply.) (Previously CHM 100.)

## CHEM& 110L

### Chemical Concepts Lab . . . . . 0.0 Credits

You must sign up for both lecture and lab to receive combined lecture and lab credits. No lab credits will show as they are included in the lecture credits. (Previously CHM 1001.)

## CHEM& 121

### Intro to Chemistry w/lab [M/S]. . . . . 5.0 Credits

Fundamentals of inorganic chemistry with special emphasis on the application of principles to the health sciences. Topics covered include: measurements, energy, atomic structure, chemical bonding, nomenclature, mole concept, stoichiometry, gas laws, liquid and solid states, solutions, equilibrium, acid/base chemistry, oxidation-reduction, and nuclear chemistry. (Students pursuing an Associate degree in Nursing should take CHEM& 110/CHEM& 110L). Prerequisite: MATH 091/MATH 096 or higher. (MATH 106 and Vocational Math do not apply.) (Previously CHM 110.)

## CHEM& 121L

### Intro to Chemistry Lab [M/S] . . . . . 0.0 Credit

You must sign up for both lecture and lab to receive combined lecture and lab credits. No lab credits will show as they are included in the lecture credits. (Previously CHM 1101.)

## CHEM& 122

### Intro to Organic Chemistry w/lab [M/S] . . . . . 5.0 Credits

Fundamentals of organic chemistry with special emphasis on the application of principles to the health sciences. Topics covered include: saturated, unsaturated, aromatic hydrocarbons, alcohols, thiols, phenols, ethers, aldehydes, ketones, carboxylic acids, esters, amines, and amides. Each family of compounds will be studied with respect to its structure, behavior, and function. Biochemical applications will be integrated into this approach. Prerequisite: grade of 2.0 or better in CHEM& 121/CHEM& 121L. (Previously CHM 120.)

## CHEM& 122L

### Intro to Organic Chemistry Lab [M/S]. . . . . 0.0 Credit

You must sign up for both lecture and lab to receive combined lecture and lab credits. No lab credits will show as they are included in the lecture credits. (Previously CHM 1201.)

## CHEM& 123

### Intro to Biochemistry w/lab [M/S]. . . . . 5.0 Credits

Topics covered include: optical isomerism; structure and function of carbohydrates, lipids, proteins, and nucleic acids; protein synthesis, enzymes, hormones; biochemical energetics and metabolism of carbohydrates, lipids, and proteins. Prerequisite: grade of 2.0 or better in CHEM& 122/ CHEM& 122L. (Previously CHM 130.)

## CHEM& 123L

### Intro to Biochemistry Lab [M/S] . . . . . 0.0 Credit

You must sign up for both lecture and lab to receive combined lecture and lab credits. No lab credits will show as they are included in the lecture credits. (Previously CHM 1301.)

## CHEM& 131

### Intro Organic/Biochemistry w/lab [M/S]. . . . . 5.0 Credits

The course will provide the fundamental chemistry of organic compounds in molecules and reactions of living systems. Topics covered include: hydrocarbons, alcohols and thiols, carbonyl compounds, carboxylic acids, esters, amines, amides, carbohydrates, proteins, lipids, and nucleic acids. Universal metabolic pathways that occur in both simple and complex organisms will be covered including: glycolysis, gluconeogenesis, citric acid cycle, electron transport chain, oxidative phosphorylation, fatty acid biosynthesis and degradation, amino acid transamination, and all aspects of the storage and expression of genetic information. This course is designed for students that need a laboratory science class that has a depth of both organic chemistry and biochemistry. Prerequisite: grade of 2.0 or better in CHEM& 140/CHEM& 140L or CHEM& 121/CHEM& 121L. (Previously CHM 135.)

## CHEM& 131L

### Intro Organic/Biochemistry Lab [M/S] . . . . . 0.0 Credit

You must sign up for both lecture and lab to receive combined lecture and lab credits. No lab credits will show as they are included in the lecture credits. (Previously CHM 1351.)

## CHEM& 140

### General Chemistry Prep w/lab [M/S] . . . . . 5.0 Credits

Introduction to chemical principles, chemical measurements, matter and energy, atomic theory, periodic properties, mole concept, molecules, compounds and chemical bonding, nomenclature and chemical equations, stoichiometry and chemical calculations, gas laws, solids, liquids, phase changes, oxidation-reduction reactions, solutions, reaction rates and chemical equilibrium, and acids/bases. The course is directed toward students needing a knowledge of the fundamentals of inorganic chemistry and planning to obtain a degree in the physical/life science/engineering disciplines. Excellent preparation for CHEM& 161/CHEM&161L. Prerequisite: MATH 095 or MATH 098. (Previously CHM 101.)



## CHEM& 140L

**General Chemistry Prep Lab [M/S]** . . . . . **.0.0 Credit**  
You must sign up for both lecture and lab to receive combined lecture and lab credits. No lab credits will show as they are included in the lecture credits. (Previously CHM 1011.)

## CHEM& 161

**General Chemistry I w/lab [M/S]** . . . . . **5.0 Credits**  
Fundamental concepts, stoichiometry, atomic structure and chemical bonding, nomenclature, periodic table trends, reactions, oxidation-reduction, and gas laws. Problem-solving techniques stressed. Prerequisite: high school chemistry with a grade of B or better, or CHEM& 140/CHEM& 140L, with a grade of 2.0 or better. (Previously CHM 111.)

## CHEM& 161L

**General Chemistry I Lab [M/S]** . . . . . **.0.0 Credit**  
You must sign up for both lecture and lab to receive combined lecture and lab credits. No lab credits will show as they are included in the lecture credits. (Previously CHM 1111.)

## CHEM& 162

**General Chemistry II w/lab [M/S]** . . . . . **5.0 Credits**  
Liquids, solids, solutions, colloids, acids, bases, salts, kinetics, molecular and ionic equilibria, thermodynamics, oxidation-reduction, electrochemistry, and nuclear chemistry. Theory and problem-solving are given vigorous emphasis. Prerequisite: grade of 2.0 or better in CHEM& 161/CHEM& 161L. (Previously CHM 112.)

## CHEM& 162L

**General Chemistry II Lab [M/S]** . . . . . **.0.0 Credit**  
You must sign up for both lecture and lab to receive combined lecture and lab credits. No lab credits will show as they are included in the lecture credits. (Previously CHM 1121.)

## CHEM& 163

**General Chemistry III w/lab [M/S]** . . . . . **5.0 Credits**  
Nonmetals, metalloids, metals, coordination chemistry, and an introduction to organic and biochemistry. Laboratory includes a basic introduction to the qualitative analysis of common cations and anions. Prerequisite: grade of 2.0 or better in CHEM& 162/CHEM& 162L. (Previously CHM 113.)

## CHEM& 163L

**General Chemistry III Lab [M/S]** . . . . . **.0.0 Credit**  
You must sign up for both lecture and lab to receive combined lecture and lab credits. No lab credits will show as they are included in the lecture credits. (Previously CHM 1131.)

## CHEM& 241

**Organic Chemistry I [M/S]** . . . . . **3.0 Credits**  
Stresses nomenclature, structure, stereochemistry, and introduces conceptual material needed to understand reaction mechanisms and synthesis. Prerequisite: CHEM& 163/CHEM& 163L. (Previously CHM 221.)

## CHEM& 242

**Organic Chemistry II [M/S]** . . . . . **3.0 Credits**  
Deals with the major classes of organic compounds with respect to preparations, mechanisms of reactions, syntheses, and identification. Prerequisite: grade 2.0 or better in CHEM& 241/CHEM& 251. (Previously CHM 222.)

## CHEM& 243

**Organic Chemistry III [M/S]** . . . . . **3.0 Credits**  
Advanced reaction mechanisms and syntheses. Polymers, macromolecular and biochemical applications, spectroscopy, chromatography, and identification of organic compounds. Prerequisite: grade of 2.0 or better in CHEM& 242/CHEM& 252. (Previously CHM 223.)

## CHEM& 251

**Organic Chemistry I Lab [M/S]** . . . . . **3.0 Credits**  
Lab to be taken concurrently with CHEM& 241. (Previously CHM 2211.)

## CHEM& 252

**Organic Chemistry II Lab [M/S]** . . . . . **3.0 Credits**  
Lab to be taken concurrently with CHEM& 242. (Previously CHM 2221.)

## CHEM& 253

**Organic Chemistry III Lab [M/S]** . . . . . **3.0 Credits**  
Lab to be taken concurrently with CHEM& 243. (Previously CHM 2231.)

## Chinese Common Course

### CHIN& 121

**Chinese I [H]** . . . . . **5.0 Credits**  
Introduction to the Chinese language including speaking and listening skills, reading, writing, and grammar and Chinese culture including geography, customs, daily life, and heritage. Designed for the novice learner of Chinese, with little or no proficiency in the Chinese language. Recommended that students have successfully completed at least ENGL 099. (Previously CHIN 101.)

### CHIN& 122

**Chinese II [H]** . . . . . **5.0 Credits**  
Introduction to the Chinese language including speaking and listening skills, reading, writing, and grammar and Chinese culture including geography, customs, daily life, and heritage. Prerequisite: CHIN& 122 or instructor's permission. (Previously CHIN 102.)

### CHIN& 123

**Chinese III [H]** . . . . . **5.0 Credits**  
Introduction to the Chinese language including speaking and listening skills, reading, writing, and grammar and Chinese culture including geography, customs, daily life, and heritage. Prerequisite: CHIN& 122 or instructor's permission. (Previously CHIN 103.)

## Communication Studies

### CMST 101

**Speech Essentials [C]** . . . . . **3.0 Credits**  
This is a basic course in public speaking. The goal of this course is to introduce, practice, and become comfortable speaking in front of people in the workplace and in the community. This course is recommended for students with no previous speech experience. Students are taught different forms of public speaking. The student will learn to be a more effective communicator and organize his/her ideas for effective and efficient oral communication. (Previously SPE 101.)

### CMST 103

**Workplace Communication** . . . . . **3.0 Credits**  
Students in the workforce will be able to develop a toolbox of communication strategies and techniques. These tools include interviewing, customer service, cultural diversity, and resolving conflicts topics. No prerequisite required. (Previously SPE 103.)

### CMST 108

**Voice and Articulation** . . . . . **3.0 Credits**  
An introduction to problems of pronunciation and enunciation. Through voice and articulation techniques and the use of the international phonetic alphabet, the student gains basic knowledge of phonetics and anatomy of speech. Individual attention is given to minor speech problems. (Previously SPE 108.)

### CMST 110

**Communication Behavior [C]** . . . . . **3.0 Credits**  
An introduction to the basic elements that impact our communication with each other. The course is designed to illustrate to the student the reasons for communication failures in two-party and small group situations. Among other areas, active listening, conflict communication, self-esteem, and assertiveness will be covered. (Previously SPE 110.)



## CMST 141

**Debate I . . . . . 2.0 Credits**  
Provides investigation and practice in oral problem-solving through debate format and impromptu speaking. Includes principles of argumentation and analysis of propositions; use of tests of evidence, reasoning, and logic; detection of fallacies, structure of arguments, and methods of refutation and rebuttal. The student is expected to attend a minimum of two debate tournaments. CMST 101 or equivalent recommended. (Previously SPE 141.)

## CMST 142

**Debate II . . . . . 2.0 Credits**  
Provides investigation and practice in oral problem-solving through debate format and persuasive speaking. Includes principles of argumentation and analysis of propositions; use of tests of evidence, reasoning, and logic; detection of fallacies, structure of arguments, and methods of refutation and rebuttal. The student is expected to attend a minimum of two debate tournaments. CMST 101 or equivalent recommended. (Previously SPE 142.)

## CMST 143

**Debate III. . . . . 2.0 Credits**  
Provides investigation and practice in oral problem-solving through debate format and extemporaneous speaking. Includes principles of argumentation and analysis of propositions; use of tests of evidence, reasoning, and logic; detection of fallacies, structure of arguments, and methods of refutation and rebuttal. The student is expected to attend a minimum of two debate tournaments. CMST 101 or equivalent recommended. (Previously SPE 143.)

## CMST 221

**Communication Skills for Conflict Resolution [H] . . . . . 5.0 Credits**  
This course is highly recommended for those majoring in a number of disciplines including Business Administration, Human Resources, Human Services, Criminal Justice, Pre-Law, Psychology, and Communications. Many employers today are looking for people skilled in dispute resolution techniques. Interpersonal dispute in the workplace is the major reason for termination of employees. In this active and thought-provoking class, students will study and develop communication and dispute resolution skills through role-play and practicing the mediation process. The class is designed to develop communication skills that promote active and constructive problem-solving and dispute resolution in both personal and work relationships. (Previously SPE 220.)

## CMST 240

**Leadership Development . . . . . 5.0 Credits**  
A study in theory and practice to develop individual leadership skills for the students' personal, professional, and academic lives. Includes substantial experiential learning opportunities to practice leadership in action. Prerequisite: ENGL& 101 or instructor permission. (Previously SPE 240.)

## CMST 241

**Applied Leadership I . . . . . 2.0 Credits**  
This course will explore leadership skills, concepts, and theories as it relates to student involvement on campus. Prerequisite: instructor's permission. (Previously SPE 241.)

## CMST 242

**Applied Leadership II . . . . . 2.0 Credits**  
A continuation of CMST 241, this course will explore leadership skills, concepts, and theories as it relates to student involvement on campus. Prerequisite: instructor's permission. (Previously SPE 242.)

## CMST 243

**Applied Leadership III . . . . . 2.0 Credits**  
A continuation of CMST 242, this course will explore leadership skills, concepts, and theories as it relates to student involvement on campus. Prerequisite: instructor's permission. (Previously SPE 243.)

## CMST 246

**Oral Interpretation [H] . . . . . 5.0 Credits**  
Students are taught to use their voices more effectively for character interpretation and presentation. Demonstrations, class exercises, and oral reading assignments are employed. (Previously SPE 246.)

## CMST 254

**Parl Procedures Workshop . . . . . 1.0 Credit**  
This course is open to members of the student government. The student will receive instruction in parliamentary procedure, and will practice the procedure at the meetings of the Student Senate. (Previously SPE 254.)

## CMST 254I

**Parl Procedures Workshop . . . . . 1.0 Credit**  
This course is open to members of the student government. The student will receive instruction in parliamentary procedure, and will practice the procedure at the meetings of the Student Senate. (Previously SPE 254I.)

## CMST 256

**Parl Procedures. . . . . 1.0 - 2.0 Credits**  
The theory and study of parliamentary procedures. (Previously SPE 253.)

## CMST 260

**Multicultural Communications [C]. . . . . 5.0 Credits**  
Multicultural Communications will teach the student culturally-sensitive methods of identifying basic problems involving communication failures across ethnic and racial settings. The course is designed to encourage participants to explore their own cultural identities in relationship to their cultures and those of others in order to improve the quality of their interpersonal communication skills. They will also learn to apply various multicultural approaches to behavior modification, racism, sexism, the valuing of cultural diversity, collaboration, and the move toward inherent pluralism. Prerequisite: ENGL& 101. (Previously SPE 260.)

## Communication Studies Common Course

### CMST& 102

**Intro to Mass Media . . . . . 5.0 Credits**  
This course offers an overview of the development and current function and effects of the mass media in America and in the world. Media to be considered include: books, magazines, newspapers, motion pictures, radio, TV, and recorded music. (Previously JOR 100.)

### CMST& 210

**Interpersonal Communication[C] . . . . . 5.0 Credits**  
This course is recommended for students seeking to improve their communication with friends, family, and co-workers. It is designed to heighten the student's awareness of personality styles and communication behaviors, and their respective impact on interpersonal and group communication. Credit not granted for both CMST 110 and CMST& 210. (Previously SPE 111.)

### CMST& 220

**Public Speaking [C] . . . . . 5.0 Credits**  
This is a basic course in speech that expands beyond the three-credit requirement for an AA degree. The goal of this course is to introduce, practice, and become comfortable speaking in front of people in the workplace and in the community. This course is recommended for students with no previous speech experience. Students are taught different forms of public speaking. The student will learn to be a more effective communicator and organize his/her ideas for effective and efficient oral communication (Previously SPE 102.)



## Community Education

### CSRE 002

#### Traffic Control . . . . . 0.0 Credit

Columbia Basin College offers the Evergreen Flagger Training Certification program which is the most recognized course for Flagger Training for Washington state. This flagger card is accepted in Oregon and Idaho as well. The handbook and instructor's manual are constantly updated and contains all the timely information and requirements. Class will be held at the Columbia Basin College Pasco campus, 8:30am-4pm. See the program website for location on campus. Please pre-register for class.

## Computer Applications

### CA 100

#### Introduction to Microcomputers . . . . . 4.0 Credits

Introduces hardware and software concepts, operating systems and/or interface systems, Internet access, basic word processing, and spreadsheet software through hands-on experience. Recommended: keyboarding experience or AOT 101 taken concurrently.

### CA 103

#### Presentations Graphics Applications . . . . . 2.0 Credits

Introduces the fundamentals of Microsoft PowerPoint. Students will learn how to create and modify a slide presentation, insert clip art, add slide transition effects, as well as more advanced operations such as creating graphic objects. Preparation for Microsoft Office User Specialist, Microsoft PowerPoint Expert Certification. Prerequisite: CA 100.

### CA 124

#### Intermediate Spreadsheet Applications. . . . . 2.0 Credits

Develops employable application skills using a spreadsheet software, currently Excel. Emphasizes creation and design of spreadsheets including formulas, projections, charting, and lists as needed for effective presentations in the business/office environment. Preparation for Microsoft Office User Specialist, Microsoft Excel Certification. Prerequisites: CA 100 and eligibility for MATH 106.

### CA 125

#### Database Applications . . . . . 2.0 Credits

Develops employable application skills using a database software, currently Microsoft Access. Emphasis is on planning and creating the structure, the data file, queries for retrieval and interpretation of data, and the forms and reports needed for effective presentations in a business/office environment. Prerequisite: CA 100.

### CA 172

#### Word Processing . . . . . 5.0 Credits

Develops employable word processing skills and implements effective application in a business environment using a word processing software, currently Microsoft Word. Topics covered include all major functions of Word, including margins, tabs, tables, columns, document enhancement, graphics, styles, outline, tables of contents, and templates. Preparation for Microsoft Office User Certification. Specialist or Expert level. Prerequisites: CA 100 required and keyboarding recommended.

## Computer Science

### CS 101

#### Introduction to Computers and Information Technology . . . 5.0 Credits

CS 101 is a five-credit introductory class designed to meet the needs of all students as defined in CBC's "Using Information Technology & Tools Student Learning Outcome." The class emphasizes the cognitive aspects of dealing with Information Technology (IT): evaluating information, learning practical IT skills, solving problems, and dealing with information related issues such as privacy, security, ethics, etc. Students will also learn computer basics, using Windows, Word, Excel, PowerPoint, email, and Internet skills to locate, present, and report information. Prerequisite: there is no prerequisite for the class.

### CS 102

#### Visual Basic 1 [Q/SR] . . . . . 5.0 Credits

This course is an introduction to programming using Visual Basic.NET. It is designed for those with little or no programming experience. Topics include: program development cycle, fundamentals of programming in Visual Basic, decisions, repetitions, controls, functions, and procedures. Prerequisite: MATH 095 or MATH 098. All prerequisites must be passed with a 2.0 or better before taking this class.

### CS 106

#### Database Systems . . . . . 5.0 Credits

This is a beginning database course in which the student will create, modify, and implement relational databases using Microsoft Access. Topics include: tables, queries, forms, reports, sharing information with other programs, data access pages, advanced queries, managing database objects, and creating macros and switchboards. Prerequisite: CS 101. All prerequisites must be passed with a 2.0 or better before taking this class.

### CS 107

#### Intermediate Word Processing. . . . . 2.0 Credits

The student will learn to create documents using the current version of Microsoft Word. Students will learn the principles of word processing to produce and revise a variety of business documents including brochures, flyers, and memoranda. These documents will include tables, graphics, and custom formatting to effectively convey written information. Prerequisite: CS 101.

### CS 108

#### Intermediate Spreadsheets. . . . . 2.0 Credits

The student will learn to develop spreadsheets using the current version of Microsoft Excel. Students will learn how to use the principles of spreadsheet applications to solve a variety of financial, marketing, manufacturing, and business problems. This course will include hands-on instruction regarding how to use formulas to analyze data and generate documents using charts and graphs focusing on appearance and effectiveness of conveying information. Prerequisite: CS 101.

### CS 109

#### PC Hardware 1 . . . . . 5.0 Credits

This is the first course in a two-course series designed to provide the knowledge, skills, and abilities essential for a successful computer service technician as defined by experts from companies across the industry. Hardware topics include: power supply, CPUs, and motherboards. Other topics include: DOS Operating System, number systems, working safely and professionally, and the customer relations skills necessary in the industry. Prerequisite: CS 101.

### CS 110

#### Windows Operating Systems . . . . . 5.0 Credits

This is an introductory operating system course using Windows Vista. Topics include: operating system fundamentals, organizing disks, managing files, system maintenance, customizing computer systems, system backup, shortcuts, troubleshooting tools, system performance, computer safeguards, solving problems, and optimizing computer systems. Prerequisite: CS 101. All prerequisites must be passed with a 2.0 or better before taking this class.

### CS 113

#### Introduction to the Internet . . . . . 2.0 Credits

Effective use of the Internet is recognized as an important asset for professionals in virtually every area of work or study. The student will learn how to use the Internet in a productive way to access services, resources, and information. Prerequisite: computer experience.



## CS 114

### HTML (Internet Publishing 1) . . . . . 5.0 Credits

This course will provide students with the skills needed to create Web pages using XHTML. Students will learn how to include text, pictures, and hypertext links, as well as tables, forms, and frames. They will also learn how to create and manipulate image maps and animated GIFs. In addition, students will be exposed to the critical design concepts including: visual design, user interface design, designing for accessibility, and designing technically correct (valid) documents. Prerequisite: CS 101. All prerequisites must be passed with a 2.0 or better before taking this class.

## CS 115

### JavaScript/CSS (Internet Publishing 2) . . . . . 5.0 Credits

This course will provide students with the skills needed to add JavaScript and Cascading Style Sheets to Web pages (all the way through, etc). JavaScript is the scripting language used for developing client-side applications for Web pages. It is used for creating dynamic, interactive content for otherwise static HTML pages. The student will learn the W3C/ECMA Document Object Model (DOM) and the methods required to add client-side error checking, dynamic images, rollover buttons, and dynamic menus, etc. The student will also learn how to control page layout and appearance of Web pages using CSS. Prerequisites: CS 102 and CS 114. All prerequisites must be passed with a 2.0 or better before taking this class.

## CS 122

### PC Hardware 2 . . . . . 5.0 Credits

This is the second course in a two-course series designed to provide the knowledge, skills, and abilities essential for a successful computer service technician as defined by experts from companies across the industry. Students will learn how to troubleshoot and repair hardware problems, and install components. Hardware topics include: memory, I/O busses, removable and fixed drives, optical drives, graphics and sounds, and printers. Prerequisite: CS 109. All prerequisites must be passed with a 2.0 or better before taking this class.

## CS 150

### Computer Security. . . . . 5.0 Credits

This class covers the basics of computer security. Students will learn about virus protection, installing security patches, using firewalls to protect networks, cryptography and Public Key Infrastructure (PKI), and legal issues. Prerequisites: CS 109 and CS 110, or instructor's permission. All prerequisites must be passed with a 2.0 or better before taking this class.

## CS 162

### C++2 [Q/SR]. . . . . 5.0 Credits

This is an intermediate C++ course that provides students an understanding of key object-oriented programming (OOP) theories and concepts, and how to create and manipulate objects in a GUI environment. Students will learn advanced features of C++ including: arrays, strings, file processing, classes, inheritance, composition, pointers, virtual functions, templates, and introduction to linked lists. Prerequisite: CS& 131. All prerequisites must be passed with a 2.0 or better before taking this class.

## CS 171

### C# 1 . . . . . 5.0 Credits

This class is the first in a series of three in which the student will learn the C# programming language using Microsoft Visual Studio. Topics include: visual programming, visual studio, control structures, object-oriented programming, selection structure, repetition structure, methods, and classes. Prerequisite: MATH 095 or MATH 098. All prerequisites must be passed with a 2.0 or better before taking this class.

## CS 172

### C# 2 . . . . . 5.0 Credits

This class is the second in a series of three in which the students will learn the C# programming language using Microsoft Visual Studio. Topics include: parameter passing, type conversion, arrays, user defined classes, methods, random-numbers, collections, graphs objects, mouse and keyboard events, string processing, sequential-access files, and streams. Prerequisite: CS 171. All prerequisites must be passed with a 2.0 or better before taking this class.

## CS 1952

### Work-Based Learning 1 . . . . . 1.0 - 5.0 Credits

An internship course designed to provide a single contact point for quality technical support service and/or other computer-related service in a timely manner for college faculty, staff, administrators, or a local employer. It also provides practical experience for technical support students as an integral part of the overall academic program. This course is for academic credits only and non-paying. Students are required to work 55 hours to earn one credit hour. Prerequisite: CS student and instructor's permission.

## CS 1953

### Work-Based Learning 2 . . . . . 1.0 - 5.0 Credits

Required for Computer Science program students who receive on-the-job training on information systems or any computer-related assignments. Instructor's signature is required for registration. Includes components of job search skills/career management, written communication, and cultural diversity. Students are required to work 33 hours to earn one credit hour, and are paid by the employer. In addition, students must meet the requirements of job performance specified by the employer and learning objectives. Employers and the college cooperate in providing an educational experience relevant to the demands of today's work. Prerequisite: CS student, a job placement, and instructor's permission.

## CS 202

### Visual Basic 2 [Q/SR] . . . . . 5.0 Credits

This is an intermediate Visual Basic programming course using Microsoft Visual Basic.Net. Students will learn to write, design, and debug Windows applications using a variety of controls and events, procedures, functions, arrays, structures, files, classes, ADO.net, and calculations to solve problems. Class projects involve writing simple games and business applications. Prerequisite: CS 102. All prerequisites must be passed with a 2.0 or better before taking this class.

## CS 203

### Digital Graphics & Design 1 . . . . . 5.0 Credits

This class teaches the student how to use PhotoShop. The focus is on both using the software and the elements of design as they specifically apply to online applications. The students will learn color theory, typography, using layers, compression, and the various file formats, and preparing images for use on the Web. Students will learn how to use basic PhotoShop tools, as well as filters, pen tool, shape tools, and the selection tools. Students will also learn advanced techniques such as converting between paths and selections, using masks to selectively apply filter or changes to an image, etc. Prerequisite: CS 101. All prerequisites must be passed with a 2.0 or better before taking this class.

## CS 206

### Database Design . . . . . 5.0 Credits

An advanced course designed to help students understand concepts including: SQL, integrity constraints, relational database design, normalization, and physical database design. Students also gain hands-on experience using Microsoft. Prerequisites: CS 106, MATH 095 or MATH 098, and/or instructor's permission. All prerequisites must be passed with a 2.0 or better before taking this class.

## CS 207

### Word Implementation . . . . . 5.0 Credits

This class teaches application-specific skills that will enable students to effectively implement, support, and troubleshoot Microsoft Word within a corporate environment. There is a strong emphasis on the skills required for supporting users of Microsoft Word in a workgroup. This class is designed to help prepare students for the MOUS Word Expert Certification test. (Extra study and product experience are typically required to pass a certification exam). Prerequisite: AOT 172, or CS 107, or instructor's permission. All prerequisites must be passed with a 2.0 or better before taking this class.



## CS 208

### Advanced Spreadsheets . . . . . 5.0 Credits

An advanced spreadsheets course with topics including: integrating Excel with other Windows programs and the World Wide Web, working with multiple worksheets, data tables, and scenario management, using solver for complex problems, importing data into Excel, exchanging Excel with Visual Basic, and installation and troubleshooting user's problems. Prerequisite: AOT 124, or CS 108, or instructor's permission. All prerequisites must be passed with a 2.0 or better before taking this class.

## CS 212

### Visual Basic 3 . . . . . 5.0 Credits

This is an advanced Visual Basic programming course using Microsoft Visual Basic.Net. Students will learn to write, design, and debug Windows applications with essential data structures and databases with .Net interfaces. Students will also learn to use different types of programming models to fit the needs of customers. Class projects involve writing applications using inheritance, polymorphism, arrays, collections, multithreading, and data from various sources. Prerequisite: CS 202. All prerequisites must be passed with a 2.0 or better before taking this class.

## CS 213

### Advanced Internet. . . . . 5.0 Credits

The current Internet applications such as Web browsers and email packages make it very easy to access and exchange information with other Internet users, without an in-depth understanding of what is actually happening. This class takes the student beyond simply using the Internet, to understanding its processes and mechanisms. This will allow the student to not only use the Internet more efficiently, but also give them the skills to troubleshoot problems, or avoid potential pitfalls from the outset. Students must know how to use basic Internet applications. Prerequisite: CS 101 or instructor's permission. All prerequisites must be passed with a 2.0 or better before taking this class.

## CS 216

### XML (Internet Publishing III) . . . . . 5.0 Credits

This course provides an introduction and practical experience with the Extensible Markup Language (XML) and its associated standards including: SGML, XSL, SXML, XHTML, CSS, and other emerging standards, and mainstream electronic publishing technologies concerning page description languages, colors, and fonts. Students will learn to edit and debug XML documents, create a DTD, create a schema, and transform documents with XSLT. Students who have some exposure to a programming or scripting language will have an advantage, though programming skill is not required. Prerequisites: CS 115 or equivalent advanced HTML skills and MATH 095 or MATH 098. All prerequisites must be passed with a 2.0 or better before taking this class.

## CS 218

### ASP.NET . . . . . 5.0 Credits

This course will prepare students to develop Web applications in the .NET arena. Students will learn to create Web Services sites using Microsoft's Visual Web Developer (VWD). Students will learn how to create a Web interface to a database and add/update/delete tables and records; create a masterpage to control site appearance and layout, use navigation controls to build dynamic menus, and control access to the sites and individual pages using different forms of authentication. Prerequisites: CS 102 and CS 114, or instructor's permission. All prerequisites must be passed with a 2.0 or better before taking this class.

## CS 219

### Active Server Pages (ASP) Internet Publishing. . . . . 5.0 Credits

ASP is a technology used for building interactive Web pages. In this class, students will build server-side scripts using VBScript that dynamically create and modify XHTML pages and return those pages to the browser. Topics include: ASP architecture, ADP basics, creating custom response pages, working with query string and form collections, and building a database Web application. Prerequisites: CS 102, CS 106, and CS 114. All prerequisites must be passed with a 2.0 or better before taking this class.

## CS 221

### SQL Server Administration . . . . . 5.0 Credits

This course provides students with the knowledge and skills to install, configure, administer, and troubleshoot Microsoft SQL Server client/server database management systems. It will help prepare students for the MCDBA Certificate. Prerequisites: CS 106 and MATH 095 or MATH 098. All prerequisites must be passed with a 2.0 or better before taking this class.

## CS 222

### Novell . . . . . 5.0 Credits

This course is an introduction to Novell Netware. It provides students with basic knowledge about implementing NetWare and using its management tools. The course will contain information on setting up and managing network access for users, managing the file system, securing NDS and the file system, and server installation. Prerequisites: CS 109 and MATH 095 or MATH 098. All prerequisites must be passed with a 2.0 or better before taking this class.

## CS 223

### Unix/Linux . . . . . 5.0 Credits

This course will prepare students to administer UNIX and Linux. This course covers topics related to: installation, configuration, troubleshooting, and optimization of a Linux Server. Students will learn to set up and maintain users, groups, and file systems. The students will learn how to use critical thinking and troubleshooting tools to troubleshoot the server, printers, and workstations. Prerequisite: CS 224, MATH 095 or MATH 098, or instructor's permission. All prerequisites must be passed with a 2.0 or better before taking this class.

## CS 224

### Networking Essentials . . . . . 5.0 Credits

Theory, design, installation, configuration, and management of computer networks. Focuses on local area network concepts with emphasis on configuring TCP/IP, subnetting, the ISO stack, interconnect devices, and physical media. Prerequisite: CS 109. All prerequisites must be passed with a 2.0 or better before taking this class.

## CS 225

### SQL Server Programming . . . . . 5.0 Credits

This course provides students with the knowledge and skills to implement a database solution with Microsoft SQL Server client/server 2000 database management system. Prerequisites: CS 206 and MATH 095 or MATH 098. All prerequisites must be passed with a 2.0 or better before taking this class.

## CS 227

### Windows Administration . . . . . 5.0 Credits

This course will prepare students for working with Microsoft Windows. The students will learn about installation, managing accounts, configuration, interactive Access, disk resource management, printing, performance tuning and optimization, and troubleshooting. This class will help to prepare students to pass one of the Windows exams. Prerequisites: CS 224 and MATH 095 or MATH 098. All prerequisites must be passed with a 2.0 or better before taking this class.

## CS 228

### Windows Server . . . . . 5.0 Credits

This course will prepare students to work with Windows Server. This course covers topics related to installation, configuration, troubleshooting, and optimization of a Windows Server. The students will learn to set up and maintain users, groups, and file systems. The students will learn how to use critical thinking and troubleshooting tools to troubleshoot the server, printers, and workstations. This class will help to prepare students to pass one of the Windows exams. Prerequisites: CS 224 and MATH 095 or MATH 098. All prerequisites must be passed with a 2.0 or better before taking this class.



## CS 229

### Webmaster . . . . . 5.0 Credits

In this course, the student will gain the knowledge and skills needed to design and manage an Intranet for an Internet website. Specifically, the student will learn how to set up and configure a web server and the applications needed to support it. Familiarity with building web pages and basic programming concepts are assumed. Prerequisite: CS 114, CS 228, and MATH 095 or MATH 098. All prerequisites must be passed with a 2.0 or better before taking this class.

## CS 230

### Active Directory . . . . . 5.0 Credits

This course is designed to provide students with the knowledge and skills necessary to install, configure, and administer Microsoft Windows Active Directory. The course also focuses on implementing Group Policy and performing the Group Policy-related tasks that are required to centrally manage users and computers. Prerequisites: CS 228 and MATH 095 or MATH 098. All prerequisites must be passed with a 2.0 or better before taking this class.

## CS 231

### Network Infrastructure . . . . . 5.0 Credits

This course will prepare students to install, manage, monitor, configure, and troubleshoot DNS, DHCP, Remote Access, Network Protocols, IP Routing, and WINS in a Windows network infrastructure. In addition, this class will also prepare students to manage, monitor, and troubleshoot Network Address Translation and Certificate Services. It also prepares the student to pass one of the MCSA/MCSE exams. Prerequisites: CS 228 and MATH 095 or MATH 098. All prerequisites must be passed with a 2.0 or better before taking this class.

## CS 232

### Network Security . . . . . 5.0 Credits

This course will prepare students to design network security solutions. These solutions include analyzing business requirements, identifying security needs, and applying the security recommendations to assist in the control and monitoring of network service resources. Students will also learn how to use critical thinking and troubleshooting tools to troubleshoot security problems throughout the network. Prerequisites: CS 224, CS 228, and MATH 095 or MATH 098. All prerequisites must be passed with a 2.0 or better before taking this class.

## CS 233

### UNIX Administration . . . . . 5.0 Credits

This course will prepare students to administer UNIX and Linux. This course covers topics related to installation, configuration, troubleshooting, and optimization of a Linux Server. Students will learn to set up and maintain users, groups, and file systems. Students will learn how to use critical thinking and troubleshooting tools to troubleshoot the server, printers, and workstations. Prerequisites: CS 223 and 224, or instructor's permission. All prerequisites must be passed with a 2.0 or better before taking this class.

## CS 234

### JAVA 2 . . . . . 5.0 Credits

This is an intermediate Java course. Students will learn to write Java applications and applets, which enhance information delivery on the Web. The topics covered include using menus, fonts, colors, images, shapes, file processing, and databases. Prerequisites: CS& 141 or instructor's permission. All prerequisites must be passed with a 2.0 or better before taking this class.

## CS 235

### JAVA 3 . . . . . 5.0 Credits

This is an advanced Java course. Students will learn to write various types of Java web applications and applets using essential data structures. Prerequisites: CS 234 or instructor's permission. All prerequisites must be passed with a 2.0 or better before taking this class.

## CS 243

### Web Animation . . . . . 5.0 Credits

This class covers the basics of 2D animation for use on the web. Students will learn Flash, a timeline-based 2D animation application. The class will introduce the Flash drawing tools, tweening, and cartoon animation techniques. Students will also be introduced to actionscript and create a simple game. Prerequisites: CS 203 and MATH 095 or MATH 098, or instructor's permission. All prerequisites must be passed with a 2.0 or better before taking this class.

## CS 244

### Digital Graphics and Design 2 . . . . . 5.0 Credits

This is the second in a series of classes that teach the student how to use PhotoShop. The students will learn color theory and the various models for storing and representing color. This theory will then be applied to improve or fix focus issues, color balance, and contrast. Students will learn how to use advanced PhotoShop tools and techniques to repair flaws, add or remove wrinkles, do selection by color, and use the liquefy filter. Prerequisites: CS 203. All prerequisites must be passed with a 2.0 or above before taking this class.

## CS 260

### Data Structures in C++ . . . . . 5.0 Credits

This course is the third in a series of three in which the students will learn the C++ programming language. Students will learn how to implement and use different types of data-structures. This will lead the students to create data-driven programs and algorithms. The students will learn more about linked lists, stacks, queues, binary trees, and binary search, recursion, and sorting. The course starts at a level that assumes a good working knowledge of C++. Prerequisite: CS 162 or instructor's permission. All prerequisites must be passed with a 2.0 or better before taking this class.

## CS 261

### Visual C++ . . . . . 5.0 Credits

A course in Windows programming with C++ and Visual C++ will help students to program using C++ Standard Template Libraries and Graphical User Interfaces and Multimedia. Students also learn to use Windows object-oriented development techniques for large applications. This course is intended for students who are already familiar with C++ language. Prerequisite: CS 162. All prerequisites must be passed with a 2.0 or better before taking this class.

## CS 262

### Game Programming Design. . . . . 5.0 Credits

Helps students understand important fundamentals of how to develop game applications using object-oriented development techniques. Course projects involve developing, debugging, and optimizing games for multiple hardware platforms. Prerequisite: CS 162 or CS 172. All prerequisites must be passed with a 2.0 or better before taking this class.

## CS 270

### Data Structures in C# . . . . . 5.0 Credits

This class is the third in a series of three in which students learn the C# programming language in the .Net framework. The students will learn about how to implement and use different types of data-structures. This will lead the students to create data-driven programs and algorithms. The students will learn more about lists, arrays, stacks, queues, trees, searching, sorting, and Windows forms. The course starts at a level that assumes a good working knowledge of C#. Prerequisite: CS 172 or instructor's permission. All prerequisites must be passed with a 2.0 or better before taking this class.



## Computer Science Common Course

### CS& 131

#### Computer Science I C++ [Q/SR] . . . . . 5.0 Credits

This class is the first in a series of three in which students learn the C++ programming language. C++ is an extension of C language, which includes both procedural and object-oriented programming. It is the basis for most PC based windows programs. Students will learn C++ keywords, control structures, functions, arrays, strings, and introduction to classes and objects. Prerequisite: MATH 095 or MATH 098. All prerequisites must be passed with a 2.0 or better before taking this class. (Previously CS 161.)

### CS& 141

#### Computer Science I Java . . . . . 5.0 Credits

JAVA is an object oriented programming language that is widely used to enhance information delivery on the web. Students will learn how to write programs and applets using JAVA. Prerequisite: CS& 131 or instructor's permission. All prerequisites must be passed with a 2.0 or better before taking this class. (Previously CS 215.)

## Contemporary Civilization

### CC 201

#### Contemporary Civilization I [H] . . . . . 5.0 Credits

Introduces students to a range of issues concerning the kinds of communities -political, social moral, and religious- that human beings construct and the values that inform and define such communities. The course is intended to prepare students to become active and informed citizens. The course requires students to read text in various traditions of arguments: African, Asian, Middle Eastern, European, and American traditions developed from biblical and classical sources. The course also asks students to construct arguments of their own, both in speech and in writing, about some of the explicit and implicit issues these texts raise.

### CC 202

#### Contemporary Civilization II [H] . . . . . 5.0 Credits

Introduce students to a range of issues concerning the kinds of communities -political, social moral, and religious- that human beings construct and the values that inform and define such communities. The course is intended to prepare students to become active and informed citizens. The course requires students to read text in various traditions of arguments: African, Asian, Middle Eastern, European, and American traditions developed from biblical and classical sources. The course also asks students to construct arguments of their own, both in speech and in writing, about some of the explicit and implicit issues these texts raise.

### CC 203

#### Contemporary Civilization III [H] . . . . . 5.0 Credits

Introduce students to a range of issues concerning the kinds of communities -political, social moral and religious- that human beings construct and the values that inform and define such communities. The course is intended to prepare students to become active and informed citizens. The course requires students to read text in various traditions of arguments: African, Asian, Middle Eastern, European, and American traditions developed from biblical and classical sources. The course also asks students to construct arguments of their own, both in speech and in writing, about some of the explicit and implicit issues these texts raise.

## Criminal Justice and Forensics

### CJ 095

#### Orientation to Correctional Careers . . . . . 1.0 Credit

Introduce the student to a basic understanding of how important communicating professionally is to the correctional environment. The course design is to introduce the student to four areas that are identified as crucial when working in the corrections profession. The course provides a basic understanding of how important observation, listening, and verbal and written communications are for correctional employees and the correctional facility smooth operations. The course also provides a basic understanding of being able to communicate clearly and professionally with your co-workers. Prerequisite: a criminal background check acceptable to the Department of Corrections.

### CJ 096

#### Communications in Corrections . . . . . 1.0 Credit

Introduce the student to a basic understanding of how important communicating professionally is to the correctional environment. The course design is to introduce the student to four areas that are identified as crucial when working in the corrections profession. The course provides a basic understanding of how important observation, listening, and verbal and written communications are for correctional employees and the correctional facility smooth operations. The course also provides a basic understanding of being able to communicate clearly and professionally with your co-workers. Prerequisite: a criminal background check acceptable to the Department of Corrections.

### CJ 097

#### Supervision/Human Relations in Corrections . . . . . 1.0 Credit

Introduce the student to the diverse work force and offender population and helps them understand the very basics of supervising offenders in a correctional environment. The course provides a basic understanding of how a corrections employee deals with the day to day duties in managing a diverse ethnic offender population, while being a positive and professional team member. Prerequisite: a criminal background check acceptable to the Department of Corrections.

### CJ 134

#### Organization/Administration . . . . . 5.0 Credits

The principles of organization and administration of the modern law enforcement agency. Principles of management and operation of a law enforcement agency.

### CJ 135

#### Traffic Control . . . . . 5.0 Credits

A study of the history of traffic control, routine, and emergency traffic procedures. Fundamentals of traffic accident investigation will be covered.

### CJ 136

#### Delinquent Behavior/Youth . . . . . 3.0 Credits

A study of the causes of juvenile delinquency, Washington law concerning juvenile problems, the role of law enforcement agencies, and juvenile delinquency.

### CJ 137

#### Constitutional Law . . . . . 5.0 Credits

A study of the provisions of the U.S. Constitution with primary emphasis on the Bill of Rights and the 14th Amendment and the application to law enforcement and the Criminal Justice System.

### CJ 172

#### Internship . . . . . 1.0 - 5.0 Credits

A supervised, individual learning experience for the student in the law enforcement environment. The experience shall consist of a minimum of six hours per week. The experience assignment will be at the discretion of the agency where the student is placed. The agency will make an effort to give the student a well-rounded experience. The assignment may be terminated by either party at any time. Instructor's permission required.



## CJ 198

### Special Projects . . . . . 1.0 - 3.0 Credits

A supervised, individual learning experience for the student in the law enforcement environment. The experience shall consist of a minimum of six hours per week. The experience assignment will be for the student to conduct a research project that will benefit the student in the criminal justice field. Instructor's permission required.

## CJ 222

### Alcohol/Drug Pharmacology/Physiology . . . . . 3.0 Credits

Physical responses of the human body to alcohol and other drugs, current research findings, basic information, and terminology essential for working in the criminal justice field.

## CJ 232

### Criminal Investigation . . . . . 5.0 Credits

The fundamentals of criminal investigation, criminalistics, and investigative techniques. An overview of investigations of crimes against people and property, and the role of science in crime detection. Prerequisite: CJ& 101 or instructor's permission.

## CJ 234

### Criminal Evidence . . . . . 3.0 Credits

Rules of evidence affecting the admissibility of evidence into court in criminal cases as they pertain to the law enforcement officer or other members of the criminal justice system. Prerequisite: CJ& 101 or instructor's permission.

## CJ 290

### Basic Reserve Officer Law Enforcement Academy . . . . . 1.0 - 9.0 Credits

An overview of the fundamental subjects associated with the position of Reserve Law Enforcement Officer. Washington Criminal Justice Training Commission approved. A law enforcement agency sponsorship required.

## Criminal Justice and Forensics Common Course

### CJ& 101

#### Introduction to Criminal Justice . . . . . 3.0 Credits

An overview of the criminal justice system in America. A look at philosophy, history, Constitutional limitations, agencies, and processes within the criminal justice system. A study of local, state, and federal careers in the criminal justice field. (Previously CJ 131.)

### CJ& 110

#### Criminal Law . . . . . 5.0 Credits

A study of the classification of crimes, criminal responsibility, and the elements of a crime. Determining the difference between crimes against property, crimes against the public, and crimes against a person. The study of the constitutional defenses, searches, seizures, and arrest. An overview of the pretrial process, the trial, sentencing, and appeals. (Previously CJ 132.)

### CJ& 240

#### Intro to Forensic Science . . . . . 5.0 Credits

An overview of the role of the forensic scientist in criminal investigation. Course subject matter will focus upon the crime laboratory, instruments, and methods used by the forensic scientist in analyzing criminal evidence. Specialized careers in forensic science will be reviewed. (Previously CJ 242.)

## Culinary and Food Services

### CUL 101

#### Culinary/Food Services I . . . . . 8.0 Credits

The Culinary and Food Services program is designed to prepare students for employment as entry-level culinary professionals in the food industry and/or preparation for further education in a degree or certificate program in the fields of food sciences or hospitality. The classroom is set up as a functioning restaurant and catering business. Students will gain valuable hands-on experience by participating in all operational aspects of running a restaurant and catering business. Students will work in teams to develop competencies in each of seven different operational/production areas: bakery, pantry, soups/sauces, line, dish room/kitchen sanitation, dining room and kitchen management. This class is a special Tech Prep course in partnership with Tri-Tech.

### CUL 102

#### Culinary/Food Services II. . . . . 8.0 Credits

A continuation of CUL 101. Students will continue to work in teams to develop competencies in each of seven different operational/production areas: bakery, pantry, soups/sauces, line, dish room/kitchen sanitation, dining room and kitchen management. This class is a special Tech Prep course in partnership with Tri-Tech.

### CUL 103

#### Culinary/Food Services III . . . . . 8.0 Credits

A continuation of CUL 102. Students will continue to work in teams to develop competencies in each of seven different operational/production areas: bakery, pantry, soups/sauces, line, dish room/kitchen sanitation, dining room and kitchen management. This class is a special Tech Prep course in partnership with Tri-Tech.

## Dental Assisting

### DEN 101

#### Dental Assisting I . . . . . 8.0 Credits

Students will learn oral anatomy, infection control, oral pathology, preventative dentistry, and radiography (X-Ray). Other course objectives include chairside procedures, impressions, study models, safety standards and regulations, observation, and internships. Course will follow Tri-Tech Skills Center calendar. This class is a special Tech Prep course in partnership with Tri-Tech.

### DEN 102

#### Dental Assisting II . . . . . 8.0 Credits

Students will learn oral anatomy, infection control, oral pathology, preventative dentistry, and radiography (X-Ray). Other course objectives include chairside procedures, impressions, study models, safety standards and regulations, observation, and internships. Course will follow Tri-Tech Skills Center calendar. This class is a special Tech Prep course in partnership with Tri-Tech.

### DEN 103

#### Dental Assisting III. . . . . 8.0 Credits

Students will learn oral anatomy, infection control, oral pathology, preventative dentistry, and radiography (X-Ray). Other course objectives include chairside procedures, impressions, study models, safety standards and regulations, observation, and internships. Course will follow Tri-Tech Skills Center calendar. This class is a special Tech Prep course in partnership with Tri-Tech.



## Dental Hygiene

### DHYG 110

#### Dental Anatomy . . . . .1.0 Credit

This course is an introduction to the anatomy of crown and root structures of the teeth. Builds on basic sciences, prepares for the study of additional dental sciences, and how these structures relate to the clinical practice of dental hygiene. Prerequisite: enrollment in Columbia Basin College Dental Hygiene program.

### DHYG 111

#### Histology/Embryology . . . . .1.0 Credit

This course is an introduction to the embryology and histology of the head and neck region. Builds on basic sciences, prepares for the study of additional dental sciences, and how these structures relate to the clinical practice of dental hygiene. Prerequisite: enrollment in Columbia Basin College Dental Hygiene program.

### DHYG 112

#### Oral Radiology I . . . . .1.0 Credit

First in a series on oral radiology. Focuses on radiation physics, biology, protection, recognition of anatomical landmarks, and evidence of pathologies. Prerequisites: enrollment in the Columbia Basin College Dental Hygiene program and concurrent enrollment in DHYG 1121.

### DHYG 1121

#### Oral Radiology I Lab . . . . .1.0 Credit

First in a series of oral radiology labs. Application of protection, film placement, proper exposure, and developing techniques are introduced. Identification of oral structures present in radiographs is introduced. Prerequisites: enrollment in the Columbia Basin College Dental Hygiene program and current enrollment in DHYG 112.

### DHYG 113

#### Clinical Dental Hygiene Techniques I . . . . .2.0 Credits

Introduces basic principles used in the practice of dental hygiene, including infection control, patient assessment, and treatment. Prerequisites: enrollment in the Columbia Basin College Dental Hygiene program and concurrent enrollment in DHYG 1131.

### DHYG 1131

#### Clinical Dental Hygiene Techniques I Lab . . . . .3.0 Credits

Introduces basic skills used in the practice of dental hygiene, including infection control, patient assessment, and treatment. Skills are practiced in a pre-clinical setting on dental models and student partners. Prerequisites: enrollment in the Columbia Basin College Dental Hygiene program and concurrent enrollment in DHYG 113.

### DHYG 114

#### Dental Health Education . . . . .1.0 Credit

Covers the principles and practices of prevention and control of dental disease with emphasis on plaque control, motivation, and personal and patient oral hygiene education and techniques. Prerequisite: enrollment in the Columbia Basin College Dental Hygiene program.

### DHYG 115

#### Dental Materials . . . . .1.0 Credit

First in a series dealing with restorative dentistry. Presents the history, composition, chemical and physical properties, and use of materials commonly utilized in the dental laboratory and dental operator. Prerequisite: concurrent enrollment in DHYG 1151. Due to the nature of the program curriculum, each quarter builds on the knowledge and skills gained in previous quarters. Continuing enrollment is contingent upon successful completion of quarterly Dental Hygiene program courses.

### DHYG 1151

#### Dental Materials Lab . . . . .1.0 Credit

First in series of lab courses dealing with restorative dentistry skills as practiced by a dental hygienist in the state of Washington. Provides laboratory experience in performing common dental laboratory procedures and prepares for the clinical practice of expanded functions. Prerequisite: concurrent enrollment in DHYG 115. Due to the nature of the program curriculum, each quarter builds on the knowledge and skills gained in previous quarters. Continuing enrollment is contingent upon successful completion of quarterly Dental Hygiene program courses.

### DHYG 116

#### Head and Neck Anatomy . . . . .2.0 Credits

Study of the head and neck regions and oral anatomy. Identification of nerves, bones, and muscles associated with the head, neck, and oral regions. Prerequisite: enrollment in the Columbia Basin College Dental Hygiene program.

### DHYG 120

#### Medical Emergencies in Dentistry . . . . .2.0 Credits

This course focuses on the study of commonly encountered medical emergencies in the dental setting that may involve systemic diseases and the etiology, presentation, treatment, and effect of dental treatment on patients who may present these diseases and other medical conditions. The associated emergency procedures required to treat medical emergencies in the dental setting will be covered as well as Cardio Pulmonary Resuscitation, the use of an AED, and First Aid and safety training to meet the standards required for Health Sciences Division students. Prerequisite: enrollment in the Columbia Basin College Dental Hygiene program.

### DHYG 121

#### General Pathology . . . . .1.0 Credit

This course focuses on the study of commonly encountered systemic diseases: etiology, presentation, treatment, and effect on dental treatment. Emphasizes the principles of inflammation, immunology, healing, and repair. Prerequisites: acceptance and enrollment in the Columbia Basin College Dental Hygiene program.

### DHYG 122

#### Oral Radiology II . . . . .1.0 Credit

Second in a series of oral radiology. Focuses on radiographic quality, techniques, film processing, mounting, and interpretation of errors. Prerequisite: concurrent enrollment in DHYG 1221. Due to the nature of the program curriculum, each quarter builds on the knowledge and skills gained in previous quarters. Continuing enrollment is contingent upon successful completion of quarterly Dental Hygiene program courses.

### DHYG 1221

#### Oral Radiology II Lab . . . . .1.0 Credit

Practices oral radiology skill on dental manikin and student partner in a clinical setting. Application of knowledge, radiographic technique, and evaluation of films for diagnostic effectiveness is the focus. Prerequisite: concurrent enrollment in DHYG 122. Due to the nature of the program curriculum, each quarter builds on the knowledge and skills gained in previous quarters. Continuing enrollment is contingent upon successful completion of quarterly Dental Hygiene program courses.

### DHYG 123

#### Clinical Dental Hygiene Techniques II . . . . .1.0 Credit

Second in a series of clinical dental hygiene techniques. Focuses on dental hygiene treatment planning, effective communication, and preventative client education. Prerequisite: concurrent enrollment in DHYG 1231. Due to the nature of the program curriculum, each quarter builds on the knowledge and skills gained in previous quarters. Continuing enrollment is contingent upon successful completion of quarterly Dental Hygiene program courses.



## DHYG 1231

### Clinical Dental Hygiene Techniques II Lab . . . . . 4.0 Credits

Second in a series on clinical practice of dental hygiene. Basic skills of dental hygiene practice, including patient assessment, instrumentation, and treatment are introduced and practiced on manikins, student partners, and clients in a clinical setting. Prerequisite: concurrent enrollment in DHYG 123. Due to the nature of the program curriculum, each quarter builds on the knowledge and skills gained in previous quarters. Continuing enrollment is contingent upon successful completion of quarterly Dental Hygiene program courses.

## DHYG 125

### Restorative Dentistry I . . . . . 1.0 Credit

Second in a series of courses dealing with restorative dentistry. Presents the composition, chemical and physical properties, and use of materials commonly utilized in the dental laboratory and dental operator. Prerequisite: concurrent enrollment in DHYG 1251. Due to the nature of the program curriculum, each quarter builds on the knowledge and skills gained in previous quarters. Continuing enrollment is contingent upon successful completion of quarterly Dental Hygiene program courses.

## DHYG 1251

### Restorative Dentistry I Lab . . . . . 1.0 Credit

Second in a series dealing with restorative dentistry. Provides laboratory experience in performing common dental laboratory procedures and prepares for the clinical practice of expanded functions including amalgam manipulation techniques. Prerequisite: concurrent enrollment in DHYG 125. Due to the nature of the program curriculum, each quarter builds on the knowledge and skills gained in previous quarters. Continuing enrollment is contingent upon successful completion of quarterly Dental Hygiene program courses.

## DHYG 126

### Pain Control In Dentistry. . . . . 2.0 Credits

Covers the pharmacology and physiology of both local anesthetic agents and nitrous oxide sedation. Application of knowledge of the anatomy of nerves, physiology of nerve conduction and the transmission of pain impulse, and the use of local anesthetics and Nitrous Oxide for pain control in the delivery of dental procedures. Discussion and application of knowledge, prevention, and management of associated possible emergencies is included. Practice of local anesthetics and administration of Nitrous Oxide sedation is practiced on student partners. Prerequisite: concurrent enrollment in DHYG 1261. Due to the nature of the program curriculum, each quarter builds on the knowledge and skills gained in previous quarters. Continuing enrollment is contingent upon successful completion of quarterly Dental Hygiene program courses.

## DHYG 1261

### Pain Control In Dentistry Lab . . . . . 2.0 Credits

Includes effective techniques in the delivery of anesthetic to the oral cavity, the appropriate selection of anesthetic, and the safe and effective delivery of Nitrous Oxide sedation as part of the expanded functions for dental hygienists in the state of Washington. Skills are practiced on student partners. Prerequisite: concurrent enrollment in DHYG 126. Due to the nature of the program curriculum, each quarter builds on the knowledge and skills gained in previous quarters. Continuing enrollment is contingent upon successful completion of quarterly Dental Hygiene program courses.

## DHYG 127

### Pharmacology . . . . . 2.0 Credits

Focuses on pharmacology as it affects the clinical practice of dentistry. Emphasizes drugs commonly used in medicine that affect dental treatment. Also emphasizes drugs of choice for treatment of common systemic and oral diseases, and for emergency treatment; effects, administration, and toxicology. Due to the nature of the program curriculum, each quarter builds on the knowledge and skills gained in previous quarters. Continuing enrollment is contingent upon successful completion of quarterly Dental Hygiene program courses.

## DHYG 131

### Oral Pathology . . . . . 2.0 Credits

Pathology for dental hygienist. Focuses on the study of commonly encountered oral diseases; etiology, presentation, recognition, treatment, and effect on dental treatment. Due to the nature of the program curriculum, each quarter builds on the knowledge and skills gained in previous quarters. Continuing enrollment is contingent upon successful completion of quarterly Dental Hygiene program courses.

## DHYG 132

### Periodontics I . . . . . 2.0 Credits

First in a series on periodontology. Focuses on the study of the healthy periodontal tissues, and the factors, recognition, and classes of periodontal disease. Due to the nature of the program curriculum, each quarter builds on the knowledge and skills gained in previous quarters. Continuing enrollment is contingent upon successful completion of quarterly Dental Hygiene program courses.

## DHYG 134

### Clinical Dental Hygiene Techniques III . . . . . 1.0 Credit

Third in a series on dental hygiene techniques. Focuses on expanding dental hygiene skills. Prerequisite: concurrent enrollment in DHYG 1341. Due to the nature of the program curriculum, each quarter builds on the knowledge and skills gained in previous quarters. Continuing enrollment is contingent upon successful completion of quarterly Dental Hygiene program courses.

## DHYG 1341

### Clinical Dental Hygiene Techniques III Lab . . . . . 4.0 Credits

Third in a series on clinical practice of dental hygiene. Basic skills of dental hygiene practice, including client assessment, instrumentation, and treatment are practiced on clients in a clinical setting. Expands on the procedures and techniques introduced in previous clinical courses. Prerequisite: concurrent enrollment in DHYG 134. Due to the nature of the program curriculum, each quarter builds on the knowledge and skills gained in previous quarters. Continuing enrollment is contingent upon successful completion of quarterly Dental Hygiene program courses.

## DHYG 135

### Restorative Dentistry II . . . . . 1.0 Credit

Third in a series of courses dealing with restorative dentistry skills. Includes application of dental materials, amalgam restoration, and composite restoration materials. Prerequisite: concurrent enrollment in DHYG 1351. Due to the nature of the program curriculum, each quarter builds on the knowledge and skills gained in previous quarters. Continuing enrollment is contingent upon successful completion of quarterly Dental Hygiene program courses.

## DHYG 1351

### Restorative Dentistry II Lab . . . . . 2.0 Credits

Third in a series of courses dealing with restorative dentistry skills. Preclinical laboratory exercises in the expanded functions of the placement and finishing of amalgam and composite restoration on model teeth. Includes application of knowledge of dental materials, tooth anatomy, and clinical skills. Prerequisite: concurrent enrollment in DHYG 135. Due to the nature of the program curriculum, each quarter builds on the knowledge and skills gained in previous quarters. Continuing enrollment is contingent upon successful completion of quarterly Dental Hygiene program courses.

## DHYG 136

### Patient Management. . . . . 2.0 Credits

This course focuses on the characteristics of individual patients, motivation, and interpersonal communication. Students are exposed to diverse cultures and their attitudes and approaches to medical and dental care. Additionally, treatment modifications for the young, geriatric, medically or mentally compromised patient, and those with transitional special needs are presented. Prerequisite: enrollment in the Columbia Basin College Dental Hygiene program. Due to the nature of the program curriculum, each quarter builds on the knowledge and skills gained in previous quarters. Continuing enrollment is contingent upon successful completion of quarterly Dental Hygiene program courses.



## DHYG 144

### Clinical Dental Hygiene Techniques IV . . . . . 1.0 Credit

Fourth in a series of clinical dental hygiene technique courses. Provides an expanded learning experience with application of knowledge of oral findings and associated clinical application. Prerequisite: concurrent enrollment in DHYG 1441. Due to the nature of the program curriculum, each quarter builds on the knowledge and skills gained in previous quarters. Continuing enrollment is contingent upon successful completion of quarterly Dental Hygiene program courses.

## DHYG 1441

### Clinical Dental Hygiene Techniques IV Lab . . . . . 5.0 Credits

Fourth in a series of clinical dental hygiene technique lab courses. Focuses on expanding dental instrumentation skills and patient care in the clinical setting. Prerequisite: concurrent enrollment in DHYG 144. Due to the nature of the program curriculum, each quarter builds on the knowledge and skills gained in previous quarters. Continuing enrollment is contingent upon successful completion of quarterly Dental Hygiene program courses.

## DHYG 211

### Nutrition in Dentistry. . . . . 1.0 Credit

The information in this class recalls and reviews the basic principles of nutrition and develops an understanding of their relationship to oral health. Emphasis is placed on the assessment of patient nutritional status and chairside nutritional counseling for optimal oral health. The class builds on basic sciences and dental sciences and prepares for the clinical practice of dental hygiene. Prerequisites: successful completion of the first year of the Columbia Basin College Dental Hygiene program and current enrollment in the second year of the program.

## DHYG 212

### Advance Clinical Topics . . . . . 1.0 Credit

Specific advanced skills in clinical dental hygiene for periodontally involved and implant patients are discussed and explained. Prepares for clinical dental hygiene practice application. Prerequisite: concurrent enrollment in DHYG 2121. Due to the nature of the program curriculum, each quarter builds on the knowledge and skills gained in previous quarters. Continuing enrollment is contingent upon successful completion of quarterly Dental Hygiene program courses.

## DHYG 214

### Clinical Dental Hygiene Techniques V. . . . . 1.0 Credit

Fifth in a series of clinical dental hygiene technique courses. Provides an expanded learning experience through discussion, case presentation, and study of clinical cases. Prerequisite: concurrent enrollment in DHYG 2141. Due to the nature of the program curriculum, each quarter builds on the knowledge and skills gained in previous quarters. Continuing enrollment is contingent upon successful completion of quarterly Dental Hygiene program courses.

## DHYG 2141

### Clinical Dental Hygiene Techniques V Lab . . . . . 6.0 Credits

Fifth in a series of clinical dental hygiene technique lab courses. Provides progressive clinical experience, application of knowledge and skills; including restorative care for clinic patients. Prerequisite: concurrent enrollment in DHYG 214. Due to the nature of the program curriculum, each quarter builds on the knowledge and skills gained in previous quarters. Continuing enrollment is contingent upon successful completion of quarterly Dental Hygiene program courses.

## DHYG 215

### Ethics and Jurisprudence, Practice Management . . . . . 2.0 Credits

Explores the fundamental factors necessary to practice within the ethical and legal framework of the American Dental Hygiene Association Code of Ethics and the Washington State Dental Practice Act. Focuses on the history of the dental profession, dental specialties, professional dental associations, practice management, career considerations, and stress management relating to dental hygiene practice. Due to the nature of the program curriculum, each quarter builds on the knowledge and skills gained in previous quarters. Continuing enrollment is contingent upon successful completion of quarterly Dental Hygiene program courses.

## DHYG 221

### Community Oral Health I. . . . . 2.0 Credits

Examines the principles of community health, including assessment indices planning, implementation, and evaluation of healthcare, with an emphasis on oral health. Builds on knowledge of ethics, basic and dental sciences, and clinical dental hygiene practice. Provides the knowledge to function in a community oral health setting. Prerequisite: concurrent enrollment in DHYG 2211. Due to the nature of the program curriculum, each quarter builds on the knowledge and skills gained in previous quarters. Continuing enrollment is contingent upon successful completion of quarterly Dental Hygiene program courses.

## DHYG 2211

### Community Oral Health I Lab . . . . . 2.0 Credits

Supervised clinical practice of dental hygiene students in a variety of community health settings. Prerequisite: concurrent enrollment in DHYG 221. Due to the nature of the program curriculum, each quarter builds on the knowledge and skills gained in previous quarters. Continuing enrollment is contingent upon successful completion of quarterly Dental Hygiene program courses.

## DHYG 222

### Periodontics II . . . . . 2.0 Credits

Second in a series on periodontology. Provides background knowledge of the treatment of periodontal disease, including concepts concerning treatment planning and evaluation of treatment options and outcomes. Includes case presentation. Due to the nature of the program curriculum, each quarter builds on the knowledge and skills gained in previous quarters. Continuing enrollment is contingent upon successful completion of quarterly Dental Hygiene program courses.

## DHYG 224

### Clinical Dental Hygiene Techniques VI . . . . . 1.0 Credit

Sixth in a series of clinical dental hygiene technique courses. Provides a learning experience for periodontally involved patients and the Dental Hygiene diagnosis and process of care. Case studies and advanced instrumentation techniques will be taught as well as clinical application of new skills and concepts for more difficult AAP patients. Restorative care will be added to the clinical portion of the class that is supported by this lecture class. Discussion of restorative care for patients will also be included. Prerequisites: Current enrollment in the Columbia Basin College Dental Hygiene program and successful completion of DHYG 214 and DHYG 2141.

## DHYG 2241

### Clinical Dental Hygiene Techniques VI Lab . . . . . 6.0 Credits

Sixth in series on clinical practice in dental hygiene. Provides comprehensive clinical experience in all phases of dental hygiene practice for patient care. Expands on the procedures and techniques introduced in previous clinical courses; includes restorative care for clinical patients. Due to the nature of the program curriculum, each quarter builds on the knowledge and skills gained in previous quarters. Continuing enrollment is contingent upon successful completion of quarterly Dental Hygiene program courses.

## DHYG 234

### Clinical Dental Hygiene Techniques VII . . . . . 1.0 Credit

Seventh in a series of clinical dental hygiene courses. Provides an expanded learning experience through discussion and exploration of clinical technique practices. Prerequisite: concurrent enrollment in DHYG 2341. Due to the nature of the program curriculum, each quarter builds on the knowledge and skills gained in previous quarters. Continuing enrollment is contingent upon successful completion of quarterly Dental Hygiene program courses.



## DHYG 2341

### Clinical Dental Hygiene Techniques VII Lab . . . . . 8.0 Credits

Seventh in a series of clinical dental hygiene lab courses. Provides an expanded learning experience of dental hygiene care through performing clinical dental hygiene techniques already learned for various clients and the clinical application of new concepts and skills including critical evaluation of dental hygiene care and restorative treatment. Prerequisites: enrollment in the Columbia Basin College Dental Hygiene program and DHYG 234.

## DHYG 246

### Restorative Dentistry III . . . . . 1.0 Credit

Third in a series of courses dealing with restorative dentistry skills as practiced by a dental hygienist in the state of Washington. Focuses on Class II amalgam and composite restorations and cusp build-ups. Based on dental sciences and previous laboratory courses in dental materials. Prerequisites: enrollment in the Columbia Basin College Dental Hygiene program and completion of DHYG 135.

## DHYG 2461

### Restorative Dentistry III Lab . . . . . 2.0 Credits

Third in a series of courses dealing with restorative dentistry skills as practiced by a dental hygienist in the state of Washington. Laboratory exercises in the placement and finishing of amalgam and composite restorations on prepared model teeth.

## Diagnostic Ultrasound Technology

## DUTEC 101

### Concepts of Patient Care . . . . . 3.0 Credits

Develops patient care and communication skills required in sonography. Students discuss legal, ethical, and psychological aspects of patient care as well as professional issues and concerns. Prerequisite: acceptance into program.

## DUTEC 105

### Pathophysiology I . . . . . 3.0 Credits

Introduces pathogenesis the sequence of events in the development of a disease. Students focus on pathological conditions affecting the abdomen and identifiable with diagnostic imaging techniques. An extensive review of normal physiology is also presented. Prerequisites: BIOL& 241/BIOL& 241L, BIOL& 242/BIOL& 242L, and acceptance into program or permission of program chair.

## DUTEC 106

### Pathophysiology II. . . . . 3.0 Credits

Continues Pathophysiology I, with focus on the disease process and disease states relevant to obstetrics, gynecology, and neurology. Prerequisites: DUTEC 105 and acceptance into program or permission of program chair.

## DUTEC 107

### Human Cross-Sectional Anatomy . . . . . 7.0 Credits

Covers the human anatomy from the cross-sectional perspective in longitudinal, transverse, coronal, and oblique planes. Students analyze correlations with clinical diagnostic imaging techniques. Prerequisite: acceptance into program or permission of program chair.

## DUTEC 110

### Ultrasound I: Abdominal Scanning & Techniques . . . . . 4.0 Credits

Presents basic concepts and terminology, as well as scanning protocols for the ultrasound examination of the abdomen. Topics include both normal and pathological states. Prerequisite: acceptance into program or permission of program chair.

## DUTEC 112

### Pathophysiology III . . . . . 3.0 Credits

Continues Pathophysiology II, emphasizing the physiology and pathology of the cardiovascular and the peripheral vascular system. Prerequisites: DUTEC 105, DUTEC 106, and acceptance into program or permission of program chair.

## DUTEC 113

### Pathophysiology IV . . . . . 3.0 Credits

Continues Pathophysiology III, emphasizing the physiology and the pathology of the cardiovascular and cerebral vascular system. Prerequisites: DUTEC 105, DUTEC 106, DUTEC 112, and acceptance into program or permission of program chair.

## DUTEC 120

### Ultrasound II: Obstetrics & Gynecological Techniques . . . . . 5.0 Credits

Presents current theory and scanning techniques for medical sonographers, focusing on obstetrics and gynecology procedures and pathologies. Prerequisite: acceptance into program or permission of program chair.

## DUTEC 130

### Ultrasound III: Small Parts/Intraoperative Techniques . . . . . 3.0 Credits

Presents the anatomy and pathophysiology of small human body parts. Intraoperative scanning focuses on surgical procedures. Prerequisite: acceptance into program or permission of program chair.

## DUTEC 135

### Ultrasound Equipment I . . . . . 3.0 Credits

Introduces knobology and annotation for state-of-art diagnostic ultrasound equipment and prepares student for hands-on live scanning. Prerequisite: acceptance into program or permission of program chair.

## DUTEC 145

### Ultrasound Equipment II. . . . . 4.0 Credits

Introduces hands-on live scanning in cardiac, vascular, abdomen, and gynecological applications. Students prepare for hospital-based live scanning on patients. Prerequisite: acceptance into program or permission of program chair.

## DUTEC 150

### Basic Echocardiography . . . . . 3.0 Credits

Covers basic ultrasound protocols and scanning techniques of the heart. Students focus on anatomy, physiology, pathology, and echocardiographic pattern recognition. Prerequisite: acceptance into program or permission of program chair.

## DUTEC 155

### Ultrasound IV: Echocardiography . . . . . 3.0 Credits

Continues basic echocardiography. Students concentrate on Doppler echocardiographic techniques and congenital heart disease as relating to the practice of adult echocardiography. Prerequisite: acceptance into program or permission of program chair.

## DUTEC 160

### Ultrasound V: Peripheral Vascular Scanning Techniques . . . . . 3.0 Credits

Presents current theory and scanning techniques for medical sonographers. Students learn Doppler techniques used to diagnose peripheral vascular and cerebral vascular disease. Prerequisite: acceptance into program or permission of program chair.

## DUTEC 165

### Ultrasound Equipment III . . . . . 3.0 Credits

Provides hands-on ultrasound scanning experience in the student's clinical specialty area. Competency is required before beginning the clinical practicum. Prerequisite: acceptance into program or permission of program chair.

## DUTEC 170

### Ultrasound Physics & Instrumentation I . . . . . 3.0 Credits

Covers acoustical physics, including heat energy, light and sound, wave theory, reflection, refraction, resonance, tissue interaction, transducers, bioeffects, and computers in ultrasonic's. Prerequisite: acceptance into program or permission of program chair.

## DUTEC 171

### Ultrasound Physics & Instrumentation II . . . . . 3.0 Credits

Continues DUTEC 170. Topics include: Doppler effect, Doppler techniques, acoustic power, fluid dynamics, and quality assurance procedures. Prerequisite: acceptance into program or permission of program chair.



## DUTEC 180

**Advanced Studies: General Ultrasound . . . . . 3.0 Credits**

Examines issues relating to the clinical practicum in abdominal and obstetrics/gynecology. Prerequisite: acceptance into program or permission of program chair.

## DUTEC 181

**Advanced Studies: Echo-Vascular . . . . . 3.0 Credits**

Examines issues relating to the clinical practicum in echocardiography and vascular technology. Prerequisite: acceptance into program or permission of program chair.

## DUTEC 210

**Clinical Practicum I . . . . . 10.0 Credits**

Provides clinical experience in an ultrasound department under the supervision of a sonographer. Prerequisites: acceptance into program and completion of all prerequisite coursework with a grade of C or better.

## DUTEC 220

**Clinical Practicum II . . . . . 10.0 Credits**

Provides additional clinical experience in an ultrasound department under the supervision of a sonographer. Prerequisites: DUTEC 210, acceptance into program, and completion of all prerequisite course work with a grade of C or better.

## DUTEC 230

**Clinical Practicum III . . . . . 10.0 Credits**

Provides additional clinical experience in an ultrasound department under the supervision of a sonographer. Prerequisites: DUTEC 210, DUTEC 220, acceptance into program, and completion of all prerequisite coursework with a grade of C or better.

## DUTEC 240

**Clinical Practicum IV . . . . . 10.0 Credits**

Provides additional clinical experience in an ultrasound department under the supervision of a sonographer. Prerequisites: DUTEC 210, DUTEC 220, DUTEC 230, acceptance into program, and completion of all prerequisite coursework with a grade of C or better.

## DUTEC 250

**Ultrasound Physics for Mammographers . . . . . 3.0 Credits**

Covers acoustical physics, including the concepts and principles of sound transmission, and the utilization of high frequency sound to produce images for diagnostic purposes. Prerequisite: acceptance into program or permission of program chair.

## DUTEC 251

**Breast Ultrasound for Mammographers . . . . . 3.0 Credits**

Reviews anatomy and physiology of the breast. Includes orientation to cross-sectional imaging of the breast, correlation with mammographic images, and characterization of normal and abnormal findings from a sonographic viewpoint. Prerequisite: DUTEC 250 or permission of program chair.

## DUTEC 252

**Ultrasound Equipment/Knobology for Mammographers . . . . . 2.0 Credits**

Introduces the ultrasound system. Includes detailed descriptions of essential parts of the ultrasound system using a variety of ultrasound machines, classroom demonstrations of system operations and technique, and some practice on the systems. Prerequisite: DUTEC 251 or permission of program chair.

## DUTEC 269

**Physics Review . . . . . 2.0 Credits**

Prepares student for certification exams by reviewing physics and ultrasound instrumentation. Students focus on mathematical analysis and physics theories. Prerequisite: acceptance into program or permission of program chair.

## Early Childhood Education

### ECE 101

**Issues and Trends in ECE . . . . . 3.0 Credits**

Examines current and historical theories, issues, and trends in ECE and provides an opportunity to visit and compare a variety of ECE programs.

### ECE 1011

**Issues and Trends in ECE Lab . . . . . 1.0 Credit**

Laboratory courses provide an opportunity for practical application of course content. This course is offered on an as-needed basis.

### ECE 102

**Introduction to Curriculum . . . . . 3.0 Credits**

Provides students with both a theoretical and practical understanding of the content in a developmentally appropriate curriculum for young children.

### ECE 1021

**Early Childhood Curriculum lab . . . . . 1.0 Credit**

Laboratory courses provide an opportunity for practical application of course content. This course is offered on an as-needed basis.

### ECE 103

**Art . . . . . 3.0 Credits**

Provides the student with a basic understanding of the methods used for teaching visual art to young children in a developmentally appropriate manner.

### ECE 104

**Child Guidance & Communications Techniques . . . . . 3.0 Credits**

Students will learn methods of communication and behavior management that are effective with young children. Current models and theories will be explored.

### ECE 105

**Physical Education. . . . . 3.0 Credits**

Provides students with a basic knowledge of developmentally appropriate physical education games and activities.

### ECE 1061

**Child Growth & Development Lab . . . . . 1.0 Credit**

Laboratory courses provide an opportunity for practical application of course content. This course is offered on an as-needed basis.

### ECE 113

**Stars 20 Hour Basic Training. . . . . 2.0 Credits**

This class meets the Washington State Training and Registry System (STARS) requirements for child care providers. Instruction provides an overview of the core competency areas including child growth and development, child guidance, and health and safety as well as current state policies and early childhood research.

### ECE 114

**Stars 10 Hour Continuing Education . . . . . 1.0 Credit**

This class meets the Washington State Training and Registry System (STARS) requirements for child care providers. Instruction addresses one or more of the core competency areas including child growth, development and learning; curriculum development; child guidance; communication; health, safety, and nutrition; administration; professionalism; environmental design; family systems; cultural and individual diversity; and observation and assessment.

### ECE 116

**ECE Special Topics Symposium . . . . . 1.0 - 3.0 Credits**

An opportunity to participate in a class dealing with special topics that relate to early childhood education but are not covered in depth in the existing curriculum.

### ECE 117

**ECE Seminar . . . . . 1.0 - 3.0 Credits**

Provides an opportunity to participate in an intensive, short-term learning experience relating to early childhood education.



## ECE 1172

### **Preschool Seminar . . . . . 1.0 - 3.0 Credits**

Provides an opportunity to participate in a short-term seminar relating to early childhood education.

## ECE 118

### **Skills Training . . . . . 1.0 - 3.0 Credits**

Provides an opportunity to participate in a short-term skills training relating to early childhood education.

## ECE 119

### **Workshop . . . . . 1.0 - 3.0 Credits**

An opportunity to participate in a workshop class relating to early childhood education.

## ECE 120

### **Children's Literature . . . . . 3.0 Credits**

Provides an opportunity to increase awareness of and knowledge about the vast array of literature currently available for young children birth to eight-years-old. Meaningful and purposeful ways to invite children into the realm of books will be presented. Ample opportunity to evaluate literature that supports the language, intellectual, emotional, social, and creative development of young children will also be provided.

## ECE 122

### **Math & Science . . . . . 1.0 - 5.0 Credits**

Provides ideas for introducing developmentally appropriate math and science concepts to young children. Students will have an opportunity to develop and experience math and science learning activities.

## ECE 125

### **Instructional Media . . . . . 3.0 Credits**

A hands-on introduction to using instructional media equipment. Emphasis is given to basic computer operation and computer software review.

## ECE 126

### **Literacy & Language . . . . . 3.0 Credits**

Examines the knowledge base that adults need to support the development of language and literacy in young children. Language acquisition and its connection to literacy will be presented, and purposeful ways to involve children in language and literacy activities will be explored.

## ECE 127

### **Early Childhood Music, Movement & Motor Activity . . . . . 3.0 Credits**

Provides the student with a basic understanding of the methods used for teaching music, movement, and gross motor activities to young children.

## ECE 141

### **Child Development Associate . . . . . 10.0 Credits**

Provides the formal education hours required for Child Development Associate (CDA) candidates working in center-based, home visitor, or family child care programs. Instruction focuses on CDA Competency Goals and prepares students for the National CDA assessment and credential. This course is offered on an as-needed basis.

## ECE 1411

### **Child Development Associate . . . . . 1.0 - 10.0 Credits**

Provides the formal education hours required for Child Development Associate (CDA) candidates working in center-based infant/toddler, center-based preschool, or family child care programs. Instruction focuses on CDA Competency Goals and prepares students for the National CDA Assessment and credential.

## ECE 151

### **Supervised Practicum. . . . . 3.0 Credits**

Designed to be taken just before completion of an Early Childhood Education certificate or degree, this class must be taken in conjunction with ECE 1511. In class, theory is combined with practical experience in an ECE setting. Emphasis is on improving teaching skills through self-evaluation.

## ECE 1511

### **Supervised Practicum Lab . . . . . 1.0 - 6.0 Credits**

Designed to be taken just before completion of an Early Childhood Education certificate or degree, this class must be taken in conjunction with ECE 151. The student is required to spend 33 hours working in an early childhood setting to complete class assignments.

## ECE 201

### **Multicultural Education . . . . . 3.0 Credits**

Explores the theory and practice of implementing a culturally responsible early childhood program.

## ECE 202

### **Curriculum Development . . . . . 3.0 Credits**

Provides an extensive exploration of the process of theme/project development and curriculum integration for the early childhood classroom. Students will be expected to develop specific themes while integrating the different curriculum areas of an early childhood program. Prerequisite: ECE 102.

## ECE 205

### **Infant & Toddler Education . . . . . 3.0 Credits**

Explores the physical, cognitive, and psychosocial development of infants and toddlers from birth to age three. Topics covered include planning developmentally appropriate curriculum, designing infant-toddler environments, and creating nurturing relationships with very young children. Emphasis is on teaching infants and toddlers in a group setting.

## ECE 209

### **Parent Involvement . . . . . 3.0 Credits**

Assists students to develop strategies for encouraging parent participation in an early childhood setting.

## ECE 213

### **Materials Construction . . . . . 3.0 Credits**

Gives students an opportunity to construct developmentally appropriate teacher-made materials and examine their use in an early childhood setting.

## ECE 215

### **Child Care Administration . . . . . 3.0 Credits**

Provides a general background in the organization and operation of a child care facility from the administrative perspective. Topics include licensing regulations and federal guidelines, fiscal responsibilities, staffing issues, and public relations.

## ECE 216

### **Advanced Special Topics . . . . . 1.0 - 3.0 Credits**

An opportunity to participate in advanced classes dealing with special topics that relate to early childhood education but are not covered in depth in the existing curriculum.

## ECE 217

### **Advanced Seminar. . . . . 1.0 - 3.0 Credits**

Provides an opportunity to participate in an advanced short-term learning experience relating to early childhood education.

## ECE 218

### **Advanced Skills Training . . . . . 1.0 - 3.0 Credits**

Provides an opportunity to participate in an advanced short-term skills training relating to early childhood education.

## ECE 219

### **Advanced Workshop . . . . . 1.0 - 3.0 Credits**

An opportunity to participate in an advanced workshop class relating to early childhood education.

## ECE 221

### **Strategies for Teaching Special Needs . . . . . 3.0 Credits**

An introduction to teaching methods that can be used with special needs children in an inclusive early childhood setting. Prerequisite: EDUC& 203.



## ECE 222

### Sign Language Level 1 . . . . . 3.0 Credits

An introduction to sign language using either the Signing Exact English (SEE) or American Sign Language (ASL) method. This course provides an opportunity for students to gain a better understanding of sign language, its application, and to build a basic signing vocabulary.

## ECE 223

### Sign Language Level 2 . . . . . 3.0 Credits

The level 2 sign language course broadens a student's knowledge of either Signing Exact English (SEE) or American Sign Language (ASL) and builds fluency and communication skills. Prerequisite: ECE 222 or instructor's permission.

## ECE 224

### Sign Language Level 3 . . . . . 3.0 Credits

Level 3 sign language broadens a student's knowledge of either Signing Exact English (SEE) or American Sign Language (ASL), extending communication fluency and skills learned in the Level 1 or Level 2 sign language classes. Prerequisite: ECE 223 or instructor's permission.

## ECE 230

### First Aid, Health, Safety & Nutrition . . . . . 3.0 Credits

Emphasizes setting up and maintaining safe and healthy environments for young children. Course content includes basic First Aid and CPR, accident prevention and safety procedures, identification of good health practices, and basic nutritional needs of children.

## ECE 289

### Special Studies . . . . . 1.0 - 15.0 Credits

Designed to incorporate into the curriculum special learning opportunities in the field of early childhood.

## ECE 2891

### Special Studies Lab . . . . . 1.0-3.0 Credits

Designed to incorporate into the curriculum special learning opportunities in the field of Early Childhood Education.

## ECE 2892-2899

### Special Studies Lab . . . . . 1.0-3.0 Credits

Designed to incorporate into the curriculum special learning opportunities in the field of Early Childhood Education.

## Economics

### ECON 110

#### Economic Trends, Issues and Policy [S/B] . . . . . 5.0 Credits

This course is intended as a non-technical, issues-orientated 100 level course in economics. The course uses economic theory to analyze economic situations and the implications for possible public policy. The economic theory is very basic and appropriate and not geared to business and economics majors but to those students who would like an overview of economic theory. The theory includes supply and demand, aggregate supply and aggregate demand, production possibilities, and a basic description of the general macroeconomic model. Some economic history related to the formation of U.S. policy and law is included. The course makes an effort to include issues of gender, race, and ethnicity. (Previously EC 110.)

### ECON 116

#### Economic Development of the United States . . . . . 5.0 Credits

This class is a history of the American economy. It looks at the evolution of American economic institutions, from the colonial period, early statehood, the American Civil War, westward expansion, the impact of the two world wars, and the Great Depression that was between them. It looks at the regional and occupational specialization that enable the colonial economy to grow internally and to fit itself into the world economy that nurtured it. (Previously EC 116.)

## ECON 291

### History of American Economic Development[S/B]. . . . . 1.0 - 5.0 Credits

Concise overview of the basic elements of microeconomics and macroeconomics. Economic analysis is used to understand the major economic forces in American history with emphasis on those factors which aided growth and development. Economic theory is applied to understand and evaluate current social and economic problems in contemporary American society. (Previously EC 291.)

## Economics Common Course

### ECON& 201

#### Micro Economics [S/B]. . . . . 5.0 Credits

Microeconomic concepts are applied to business and household decision-making as well as public policy. Major topics include: scarcity and choice, production possibilities, alternative allocative mechanisms, supply and demand analysis, elasticity, consumer choice, production and costs, market structures, antitrust and regulation, and public Micro Economics. (Previously EC 202.)

### ECON& 202

#### Macro Economics [S/B] . . . . . 5.0 Credits

This course introduces such important concepts as: market systems and their alternatives, supply and demand, measurement and determination of a nation's output and income, inflation and unemployment, both demand-side and supply-side aspects of fiscal and monetary policies, federal debt, and international trade and finance. (Previously EC 201.)

## Education

### EDUC 100

#### College Success . . . . . 3.0 Credits

This course is designed to assist students in learning effective techniques for having a college experience that is successful both academically and personally. Topics include: time management, test-taking, communication skills, learning styles, and campus resources. The development of critical thinking skills will be incorporated throughout the course. (Previously ED 100.)

### EDUC 101

#### Introduction to Education . . . . . 4.0 Credits

Students receive an overview of the history and philosophy of education as well as develop an awareness of current educational requirements based on legislation for K-12 schools. Students also begin to develop a personal philosophy of education. This class must be taken in conjunction with EDUC 192. (Previously ED 101.)

### EDUC 110

#### Tutor Training . . . . . 1.0 Credit

This course is designed to teach the student basic principles and practical strategies of peer tutoring. (Previously ED 110.)

### EDUC 110L

#### Tutor Training Lab . . . . . 1.0 Credit

Lab to be taken concurrently with EDUC 110. (Previously ED 110L.)

### EDUC 135

#### College Major/Career Planning. . . . . 3.0 Credits

This course is designed to assist students in gaining insight into interests, values, personality, strengths, and the decision-making processes necessary for choosing a college major and planning a career. This course is for those who are choosing, changing, or confirming their educational goals. Topics include: growing: career opportunities, job hunting techniques, goal-setting, and tools for success. (Previously ED 135.)

### EDUC 192

#### Field Experience . . . . . 1.0 - 2.0 Credits

Students have an opportunity to observe theory in action and to gain experience in the field of education. This class must be taken in conjunction with EDUC 101. (Previously ED 192.)



## EDUC 201

### Introduction to Multicultural Education. . . . . 3.0 Credits

Examines attitudes and practices that are explicitly and/or subtly biased on the basis of race, gender, socioeconomic status, ethnicity, age, culture, disability, and family/lifestyle. Emphasis is placed on the implications for classroom practices and developing a plan for incorporating anti-bias attitudes and practices into an educational setting. (Previously ED 201.)

## Education Common Course

### EDUC& 114

#### Child Development . . . . . 3.0 Credits

A study of the physical, emotional, social, and cognitive development of children from conception through eight years of age and related theories. Emphasis on current early childhood brain development research. (Previously ECE 106.)

### EDUC& 203

#### Exceptional Child . . . . . 3.0 Credits

A comprehensive introduction to the field of special needs children and their families, including an examination of legislative action, individualized education program (IEP), handicapping conditions, child abuse, drug and alcohol effects, and socioeconomic, societal, and cultural factors that affect family functioning. (Previously ECE 107.)

## Emergency Medical Services-CPR

### EMS 100

#### CPR-Cardiopulmonary Resuscitation . . . . . 1.0 Credit

This course is the foundational level of training for all first responders and EMS workers. The course covers the risk factors and early indicators of heart attacks and strokes, prudent heart living, airway obstruction, and cardiopulmonary resuscitation for adults, children, and infants. Upon the successful completion of the course, the student will receive a Health Care Provider card.

## Emergency Medical Technician

### EMT 101

#### Emergency Medical Technician-Basic. . . . . 1.0 - 10.0 Credits

This is the entry-level course to the Emergency Medical Service (EMS) profession and is designed for those who aspire to become an Emergency Medical Technician-Basic. The course will focus on EMT roles and responsibilities, airway management, patient assessment, medical and trauma emergencies, anatomy and physiology, documentation, lifting and moving, and communications. The course also includes practical labs and a total of 10 hours of clinical experience in the emergency department to provide direct hands-on experience with a variety of patients. Upon successful completion of this course, the student will be eligible to take the Washington State Certification Exam and may be considered for the Pre-Paramedic Short Term Certificate. Current Health Care Provider CPR card required. Malpractice insurance fees are added into the registration. Immunization records must be presented the first day of class. A Washington state background check must be completed prior to admittance into this course. More information is available from the Health Sciences Division office at (509) 544-8300.

### EMT 102

#### Emergency Medical Technician-Intermediate . . . . . 1.0 - 10.0 Credits

EMT-Intermediate is an additional course that is offered on an as-needed basis. This need is determined by the EMS officers and fire chiefs from rural departments. EMT-I is approximately 80 hours of additional training beyond EMT-B, and equips the responder with the skills to start IVs, control the airway with invasive procedures, and administer some medications to patients.

## Engineering Technology

### ENT 111

#### Introduction to Engineering . . . . . 5.0 Credits

This course introduces students to the role of the engineer, engineering dimensions and standards, and the basic methodology of engineering problem solving. Prerequisite: concurrent enrollment in MATH 095 or MATH 098.

### ENT 1161

#### Basic Drafting . . . . . 5.0 Credits

Basic principles of drafting to include lettering, geometric construction, mechanical drawings, orthographic projection, sectional views, auxiliary views, isometric and oblique drawings, threads, fasteners, and basic applications.

### ENT 121

#### Engineering Fundamentals. . . . . 3.0 Credits

Fundamental concepts relevant to many engineering disciplines, including energy, vectors, force systems, free body diagrams, strength of materials, associated problem solving, and basic design procedures. Prerequisite: ENT 111.

### ENT 1211

#### Engineering Fundamentals Lab . . . . . 1.0 Credit

This course is a reinforcement of theory through practical applications.

### ENT 122

#### Materials. . . . . 3.0 Credits

An introduction to the materials which are used in the fabrication of construction projects including foundations, wood, heavy timber frame construction, wood light frame construction, exterior finishes, interior finishes, masonry, roofing, and glass.

### ENT 1261

#### Graphical Analysis . . . . . 5.0 Credits

Descriptive geometry to include the spatial relationship of points, lines, and planes; intersection of planes and polyhedra; and development of surfaces. Vector analysis of coplanar concurrent and coplanar parallel force systems. Advanced isometric drawings. Prerequisite: ENT 1161.

### ENT 134

#### Surveying . . . . . 3.0 Credits

A course in plane surveying, which includes: horizontal, vertical, and angular measurements, traversing, mapping, construction survey, land survey, and calculations. Prerequisite: MATH 113, MATH& 142, or instructor's permission.

### ENT 1341

#### Surveying Lab . . . . . 3.0 Credits

This course allows students to demonstrate their abilities to use the equipment and apply their surveying knowledge. Lab to be taken concurrently with ENT 134.

### ENT 135

#### Statics. . . . . 5.0 Credits

Vectors, types of forces, vector addition, moments, conditions for equilibrium, free-body diagrams and conventions, coplanar and non-coplanar force systems, and load analysis of basic trusses and frames. Prerequisite: MATH 113, ENT 121, or instructor's permission.

### ENT 1361

#### Advanced Drafting. . . . . 4.0 Credits

A introduction to the fundamentals of computer-aided drafting including extensive use of the draw and modify commands for sketches and mechanical drawings. Prerequisite: ENT 1261 or instructor's permission.



## ENT 1711

### Technical Drafting . . . . . 3.0 Credits

An introductory course in mechanical drawing which includes geometric construction, orthographic projection, sectional views, auxiliary views, isometric and oblique drawings, dimensions, threads, fasteners, and lettering.

## ENT 1721

### Technical Drafting . . . . . 3.0 Credits

This course builds on the fundamentals of multiview projection, sectional views, auxiliary views, shop fabrication processes, and dimensioning. Prerequisite: ENT 1711 or instructor's permission.

## ENT 214

### Strength of Materials . . . . . 5.0 Credits

A study of stress and deformation of materials. Topics include: axial and torsional loading, stress-strain relationships, shearing stresses, temperature stresses, and engineering applications. Prerequisite: ENT 135 or instructor's permission.

## ENT 2161

### Mechanical Drafting & Design . . . . . 5.0 Credits

Fundamentals of design, assembly drawings, dimensioning systems, and a mechanical design/drafting project. The primary emphasis of this course is the application of CAD to mechanical drawings using AutoCAD. Prerequisite: ENT 1361 or instructor's permission.

## ENT 2191

### Construction Estimating . . . . . 1.0 Credit

An overview of the techniques used in estimating material quantities in construction projects. Prerequisite: ENT 122, completion of or concurrent enrollment in ENT 2261, or instructor's permission.

## ENT 224

### Structures . . . . . 5.0 Credits

Load analysis and design of basic structural members using timber and steel. Prerequisite: ENT 214.

## ENT 2261

### Architectural/Structural Drafting . . . . . 5.0 Credits

A drafting and design course covering construction techniques, architectural drawings, organization of drawing sets, and design projects. Prerequisite: ENT 1361.

## ENT 229

### Construction Specifications . . . . . 2.0 Credits

A study of construction specifications using the CSI format. Prerequisite: completion of or concurrent enrollment in ENT 2261 or instructor's permission.

## ENT 2361

### Design. . . . . 5.0 Credits

Various individual and team projects with specific criteria and constraints assigned. The completed projects are formally presented using both oral and written reporting techniques. Prerequisites: ENT 224, ENT 2261, and students must be enrolled in the ENT program.

## ENT 238

### Electricity . . . . . 5.0 Credits

An introductory course in electricity which includes basic electrical theory and mathematical relationships, series and parallel circuits, DC and AC circuit components, power generation and distribution. Prerequisite: MATH& 141 and the student must be enrolled in the ENT program or instructor's permission.

## ENT 267

### AutoCAD I . . . . . 2.0 Credits

This course utilizes AutoCAD for Computer-Aided Drafting (CAD). The course shows how to use AutoCAD to set up drawings, additional draw and edit commands, dimensioning, and text. Students utilize drafting and editing techniques to efficiently produce their drawings. Prerequisite: ENT 1161, ENT 1721, or equivalent.

## ENT 2671

### AutoCAD I Lab . . . . . 1.0 Credit

This course is offered to complement the ENT 267 course. Students must be concurrently enrolled in ENT 267.

## ENT 268

### AutoCAD II . . . . . 2.0 Credits

This course goes beyond the basic fundamentals of AutoCAD and examines ways to use it in today's workplace. Emphasis is placed on advanced commands including blocks, dimensions, attributes and extracting them, paper space/model space, xrefs, and file management. The class then customizes a menu creating custom pulldown menus, toolbars, and macros. Prerequisite: ENT 267.

## ENT 2681

### AutoCAD II Lab . . . . . 1.0 Credit

This course is offered to complement the ENT 268 course. Students must be concurrently enrolled in ENT 268.

## ENT 269

### Visual LISP . . . . . 2.0 Credits

This course is the beginning VisualLISP course. The course covers how to write simple programs using AutoCAD's programming language. It also demonstrates, using VisualLISP, how to interface with, control, and enhance AutoCAD. Prerequisite: ENT 268 or instructor's permission.

## ENT 2691

### Visual LISP Lab . . . . . 1.0 Credit

This course is offered to complement the ENT 269 course. Students must be concurrently enrolled in ENT 269.

## ENT 270

### 3-D. . . . . 2.0 Credits

The focus of this course is three-dimensional drawings using AutoCAD. After completion, the student will be proficient in wire line and surface 3-D modeling. There will also be a brief overview of rendering and transferring of rendered information to other presentation software. Prerequisite: ENT 268 or instructor's permission.

## ENT 2701

### 3-D Lab . . . . . 1.0 Credit

This course is offered to complement the ENT 270 course. Students must be concurrently enrolled in ENT 270.

## ENT 271

### Drawing Production . . . . . 2.0 Credits

This course simulates actual drawing projects in a variety of disciplines such as civil, structural, architectural, mechanical, and electrical. Students are expected to develop and manage large sets of drawings. Prerequisite: ENT 268 or instructor's permission.

## ENT 2711

### Drawing Production Lab . . . . . 1.0 Credit

This course is offered to complement the ENT 271 course. Students must be concurrently enrolled in ENT 271.

## ENT 272

### Advanced 3-D . . . . . 2.0 Credits

The focus of this course is three-dimensional solid modeling using AutoCAD. After completion, students will be proficient in 3-D solids modeling, mass property takeoffs, and the uses of three-dimensional media across software platforms. Prerequisite: ENT 268.

## ENT 2721

### Advanced 3-D Lab . . . . . 1.0 Credit

This course is offered to complement the ENT 272 course. Students must be concurrently enrolled in ENT 272.



## ENT 273

### Advanced AutoCAD Applications . . . . . 2.0 Credits

This course covers advanced AutoCAD features, such as how AutoCAD interacts with the web, from transmitting files, reviewing, to collaborating. The class also examines AutoCAD interactions with Imaging, AutoDesk View, Microsoft Word and Excel. Advanced features also include attributes, xrefs, and layouts. Express Tools are also covered. Prerequisites: ENT 268 or instructor's permission.

## ENT 2731

### Advanced AutoCAD Applications Lab . . . . . 1.0 Credit

This course is offered to complement the ENT 273 course. Students must be concurrently enrolled in ENT 273.

## ENT 274

### Architectural Residential Drawing . . . . . 2.0 Credits

A drafting and design course covering architecture, residential drawings, and the organization of drawing sets incorporating design projects. Prerequisite: ENT 267.

## ENT 2741

### Architectural Residential Drawing Lab . . . . . 1.0 Credit

This course is offered to complement the ENT 274 course. Students must be concurrently enrolled in ENT 274.

## ENT 2801

### Extended CAD Lab . . . . . 1.0 - 3.0 Credits

This is an open lab class to support AutoCAD. It allows for intermediate and advanced skill placement. Specific projects may be assigned. It is be a variable credit, continued enrollment class. Prerequisite: ENT 267 or instructor's permission.

## ENT 281

### MicroStation I for the AutoCAD User . . . . . 2.0 Credits

This course utilizes MicroStation for Computer-Aided Drafting (CAD). The course is designed for the beginning user who wants to transfer existing AutoCAD knowledge to MicroStation skills. Prerequisite: ENT 267.

## ENT 2811

### MicroStation I for the AutoCAD User Lab. . . . . 1.0 Credit

This course is offered to complement the ENT 281 course. Students must be concurrently enrolled in ENT 281.

## ENT 282

### MicroStation II for the AutoCAD User . . . . . 2.0 Credits

This course continues the development of concepts presented in ENT 281/ENT 2811, MicroStation I for the AutoCAD User, and therefore utilizes MicroStation for computer-aided drafting (CAD). The course is designed for the advanced CAD user who wants to continue transferring existing AutoCAD knowledge to MicroStation skills, or to enhance current MicroStation knowledge. Prerequisites: ENT 281/ENT 2811 or instructor's permission.

## ENT 2821

### MicroStation II for the AutoCAD User Lab . . . . . 1.0 Credit

This course is offered to complement the ENT 282 course. Students must be concurrently enrolled in ENT 282.

## English

### ENGL 086

#### Writing Skills . . . . . 1.0 - 3.0 Credits

This class is for students needing individualized instruction to improve their proficiency in basic writing skills. After interpreting diagnostic testing in the Learning Opportunities Center (LOC), the instructor develops a program for each student. The grade is pass/no-credit. Class is held in the Learning Opportunities Center (LOC) where instruction is conducted in a lab format. (Previously ENG 086.)

### ENGL 087

#### Writing Skills . . . . . 1.0 - 3.0 Credits

This class is for students needing individualized instruction to improve their proficiency in basic writing skills. After interpreting diagnostic testing in the Learning Opportunities Center (LOC), the instructor develops a program for each student. The grade is pass/no credit. Class is held in the Learning Opportunities Center (LOC) where instruction is conducted in a lab format. (Previously ENG 087.)

### ENGL 088

#### Writing Skills . . . . . 1.0 - 3.0 Credits

This class is for students needing individualized instruction to improve their proficiency in basic writing skills. After interpreting diagnostic testing in the Learning Opportunities Center (LOC), the instructor develops a program for each student. The grade is pass/no-credit. Class is held in Learning Opportunities Center (LOC) where instruction is conducted in a lab format. (Previously ENG 088.)

### ENGL 090

#### Writing Express. . . . . 1.0 - 3.0 Credits

An intensive composition course designed to prepare students for college reading and writing. Successful completion of this course will make the student eligible for ENGL& 101. Prerequisite: ENGL 098 or an ASSET score between 39-42. (Previously ENG 090.)

### ENGL 091

#### Grammar Skills . . . . . 1.0 - 3.0 Credits

A review of basic grammar including sample writing, sentence structure, usage, and mechanics. The grade is pass/no credit. Class is held in the Learning Opportunities Center (LOC) where instruction is a lab format. Prerequisite: ASSET score of 23-32 or COMPASS score of 1-12. (Previously ENG 091.)

### ENGL 095

#### English Review . . . . . 5.0 Credits

A study of basic grammar and beginning paragraph writing. This is a review class to better prepare students to continue to more advanced English courses. (Previously ENG 095.)

### ENGL 098

#### Writing Prep I . . . . . 5.0 Credits

This course is designed to teach the basics of writing well-developed and grammatically correct single and multiple paragraph papers. Prerequisite: an ASSET score between 33-38 or COMPASS score of 13-44. (Previously ENG 098.)

### ENGL 099

#### Writing Prep II [C] . . . . . 5.0 Credits

This is an intensive reading and writing course designed to prepare students for the reading and writing they will do in college. Students will respond to and make connections between thematically linked texts. Successful completion of this course will make the student eligible for ENGL& 101. Prerequisites: successful completion of ENGL 098 or COMPASS writing score of 43-77 and COMPASS reading score of 82-100 or ASSET writing score of 39-42 and ASSET reading score of 42-53 (college-level reading) (Previously ENG 100.)

### ENGL 100

#### Reading and Writing in College . . . . . 5.0 Credits

This is an intensive reading and writing course designed to prepare students for the reading and writing they will do in college. Students will respond to and make connections between thematically linked texts. Successful completion of this course will make the student eligible for ENGL& 101. (Previously ENG 100.)

### ENGL 103

#### Writing in the Workplace . . . . . 5.0 Credits

This course is designed to teach writing tasks encountered in the workplace including resumes, business letters, memos, reports, instructions, and policies. Prerequisite: a passing grade in ENGL 099 or ASSET score of 43 or above or a COMPASS score of 78 or above. (Previously ENG 103.)



## ENGL 136

**Intro to Drama** . . . . . **3.0 Credits**  
The reading and analysis of various dramas, with emphasis on understanding its constituent parts, meanings, and methods. Previous completion of ENGL& 101 is strongly recommended. (Previously LIT 136.)

## ENGL 140

**The Cinema [H]** . . . . . **5.0 Credits**  
The study of cinema and its narrative function; presentation of alternative modes of narrative structure; comparative analyses of original texts and their filmic adaptations. Prerequisite: ENGL 099 or concurrent enrollment. (Previously LIT 140.)

## ENGL 160

**Women's Literature [H]** . . . . . **5.0 Credits**  
This course is a study of the ways women represent female experience and question cultural norms through the literary arts. Prerequisite: eligible for ENGL& 101 or currently enrolled in ENGL 099. (Previously LIT 160.)

## ENGL 180

**Multicultural Literature [H]** . . . . . **5.0 Credits**  
Introduction to the multicultural literatures of the Americas (i.e., African American literature, Native American literature, Hispanic American literature, Asian American literature, etc). Prerequisite: eligible for ENGL& 101 or currently enrolled in ENGL 099. (Previously LIT 180.)

## ENGL 195

**Bible as Literature [H]** . . . . . **5.0 Credits**  
Readings from the Old Testament and New Testament, in appropriate cultural, historical, and literary contexts. Prerequisite: eligible for ENGL& 101 or currently enrolled in ENGL 099. (Previously LIT 195.)

## ENGL 203

**Mythology [H]** . . . . . **5.0 Credits**  
The theory of mythology and the use of Greco-Roman myths in art, literature, and music. Prerequisite: eligible for ENGL& 101 or currently enrolled in ENGL 099. (Previously LIT 203.)

## ENGL 210

**Intro to Linguistics [H]** . . . . . **5.0 Credits**  
An introduction to the study of human language from the standpoint of sounds and sound patterns, word formation, and sentence structure. Students will learn about the similarities and differences among the world's languages and be introduced to the various sub-disciplines of the field of linguistics. Prerequisite: ENGL& 101 or concurrent enrollment in ENGL& 101. (Previously ENG 210.)

## ENGL 257

**English Grammar [H]** . . . . . **5.0 Credits**  
An introduction to the terms, concepts, (including phonemics, morphology, and syntax) and analytical methods of English grammar. Prerequisite: ENGL& 101 or concurrent with ENGL& 101. (Previously ENG 255.)

## ENGL 264

**English Literature [H]** . . . . . **5.0 Credits**  
A survey of English literature from Beowulf to 1640. Prerequisite: eligible for ENGL& 101 or currently enrolled in ENG 099. (Previously LIT 264.)

## ENGL 265

**English Literature [H]** . . . . . **5.0 Credits**  
A survey of English literature from 1640 to 1800. Prerequisite: eligible for ENGL& 101 or currently enrolled in ENGL 099. (Previously LIT 265.)

## ENGL 266

**English Literature [H]** . . . . . **5.0 Credits**  
A survey of English literature from 1800 to the present. Prerequisite: eligible for ENGL& 101 or currently enrolled in ENGL 099. (Previously LIT 266.)

## ENGL 275

**The Lord of the Rings** . . . . . **5.0 Credits**  
Students will study J.R.R. Tolkien's trilogy and Peter Jackson's films, analyzing their literary, theological, and philosophical elements. Students will be reading the novels in their entirety over the course of the quarter. Prerequisite: eligible for ENGL& 101 or currently enrolled in ENGL 099. (Previously LIT 275.)

## ENGL 280

**Gay and Lesbian Studies [H]** . . . . . **5.0 Credits**  
An introduction to interdisciplinary field of lesbian/gay/bisexual/transgender studies from a historical and multicultural perspective. Readings from fiction, poetry, autobiography, history, essays, plays, and film/television will be used to understand connections between sexual orientation and the humanities. Prerequisite: eligible for ENGL& 101 or currently enrolled in ENGL 099. (Previously LIT 280.)

## English Common Course

### ENGL& 101

**English Composition I [C]** . . . . . **5.0 Credits**  
Study and application of the principles of writing clear exposition, with emphasis on organizing unified and coherent essays. Prerequisite: a passing grade in ENGL 099 or ASSET score of 43 or above or COMPASS score above 78. (Previously ENG 101.)

### ENGL& 102

**Composition II [C]** . . . . . **5.0 Credits**  
An advanced expository writing course, focusing on research essays and other aspects of college writing. Prerequisite: ENGL& 101. (Previously ENG 201.)

### ENGL& 111

**Intro to Literature [H]** . . . . . **5.0 Credits**  
This course focuses on reading and analyzing prose, poetry, and drama and is designed to help students develop a method of reading and evaluating literature. Prerequisite: eligible for ENGL& 101 or currently enrolled in ENGL 099. (Previously LIT 150.)

### ENGL& 220

**Intro to Shakespeare [H]** . . . . . **5.0 Credits**  
Shakespeare as dramatist and poet. Readings from comedies, histories, and tragedies. Prerequisite: eligible for ENGL& 101 or currently enrolled in ENGL 099. (Previously LIT 270.)

### ENGL& 235

**Technical Writing [C]** . . . . . **5.0 Credits**  
This course emphasizes students technical communication skills for use in the workplace and other academic settings. Students will employ various methods of analyzing and writing for different audiences and purposes. Students will also use traditional and online resources for problem solving, research, documentation, and editing. Prerequisite: ENGL& 101. (Previously ENG 205.)

### ENGL& 236

**Creative Writing I [H]** . . . . . **5.0 Credits**  
A study of creative writing, emphasizing diverse styles and techniques. Previous completion of ENGL& 101 is strongly recommended. (Previously ENG 240.)

### ENGL& 237

**Creative Writing II [H]** . . . . . **5.0 Credits**  
A continuation of ENGL& 236. Prerequisite: ENGL& 236. (Previously ENG 241.)

### ENGL& 244

**American Literature I [H]** . . . . . **5.0 Credits**  
A survey of American literature from the founding of Jamestown to the Civil War Era. Prerequisite: eligible for ENGL& 101 or currently enrolled in ENGL 099. (Previously LIT 225.)



## ENGL& 245

**American Literature II [H]** . . . . . **5.0 Credits**  
A survey of American literature from Civil War to World War I. Prerequisite: eligible for ENGL& 101 or currently enrolled in ENGL 099. (Previously LIT 226.)

## ENGL& 246

**American Literature III [H]** . . . . . **5.0 Credits**  
A survey of American literature from World War I to the present. Prerequisite: eligible for ENGL& 101 or currently enrolled in ENGL 099. (Previously LIT 227.)

## ENGL& 254

**World Literature I [H]** . . . . . **5.0 Credits**  
A survey of world literature from ancient times through the Roman Empire. Prerequisite: eligible for ENGL& 101 or currently enrolled in ENGL 099. (Previously LIT 205.)

## ENGL& 255

**World Literature II [H]** . . . . . **5.0 Credits**  
A survey of world literature emphasizing European Medieval and Renaissance literature. Prerequisite: eligible for ENGL& 101 or currently enrolled in ENGL 099. (Previously LIT 206.)

## ENGL& 256

**World Literature III [H]** . . . . . **5.0 Credits**  
A survey of world literature emphasizing Classicism, Romanticism, Realism, and Modernism. Prerequisite: eligible for ENGL& 101 or currently enrolled in ENGL 099. (Previously LIT 207.)

## English As A Foreign Language

### EFL 090

**Spelling and Pronunciation** . . . . . **3.0 Credits**  
This course is designed for non-native speakers of English to develop an understanding of the patterns in English spelling and pronunciation.

### EFL 101

**Written English Language I [H]** . . . . . **5.0 Credits**  
This course is part one of a two-step sequence dealing with written English skills. The course will address rhetorical styles in writing essays as well as journal writing to increase fluency in writing. Students will also learn to use the reader's guide to periodical literature and other research facilities in the library. Finally, English structures particularly problematical for non-native speakers will be addressed, including verb tense choice and verb form and article usage. Prerequisite (at least one of the following): P grade in ENGL 098, MTELP score 70 or more, TOEFL score 500 or more, or instructor's permission.

### EFL 102

**Spoken English** . . . . . **5.0 Credits**  
This course addresses the challenges of spoken English in an academic setting. Activities are evenly divided between note-taking while listening to academic lectures and pronunciation work and oral presentation skills. This course may be taken concurrently with either EFL 101 or EFL 111. Prerequisite (at least one of the following): P grade in developmental ESL, MTELP 70 or more, TOEFL score of 500 or more, or instructor's permission.

### EFL 111

**Written English Language II [H]** . . . . . **5.0 Credits**  
This course is the continuation of EFL 101. This second course covers more rhetorical styles for use in academic papers written in conjunction with the reading of literature. Journal writing will be continued, and further research will be encouraged. More problematical structures will be explained. Prerequisite (at least one of the following): completion of EFL 101, MTELP score of 85 or more, TOEFL score of 520 or more, or instructor's permission.

## English As A Second Language

### ESL 010

**ESL Level 1** . . . . . **1.0 - 18.0 Credits**  
For people who have had little or no formal English instruction and who have little or no ability to communicate in English. Emphasis is on basic literacy, fundamental speaking and listening skills, and an introduction to computer use.

### ESL 015

**First Language Literacy** . . . . . **1.0 - 18.0 Credits**  
A course to help non-native speakers of English to develop or improve fundamental literacy skills in their first language as a tool to facilitate their acquisition of English as a second language.

### ESL 020

**ESL Level 2** . . . . . **1.0 - 18.0 Credits**  
For people who have had some formal English language instruction but whose ability to communicate is very limited. Emphasis is on basic survival needs, beginning reading and writing skills, and an increased familiarity with computer skills.

### ESL 030

**ESL Level 3** . . . . . **1.0 - 18.0 Credits**  
For people who read and write some English and are able to communicate with native speakers with some difficulty. Emphasis is on developing students' reading, writing, communication, and computer skills.

### ESL 040

**ESL Level 4** . . . . . **1.0 - 18.0 Credits**  
Designed for persons who are fairly literate in English, can handle their jobs using simple oral and written instructions, and can communicate with native speakers with little difficulty. Emphasis is on improving the students' speaking, listening, reading, and writing skills along with use of various computer software.

### ESL 050

**ESL Level 5** . . . . . **1.0 - 18.0 Credits**  
Designed for persons who are functionally literate in English, can handle their jobs with oral and written instructions, and can communicate with native speakers with little difficulty. Emphasis is on strengthening students' speaking, listening, reading, and writing skills and performing additional computer skills.

### ESL 053

**ESL Writing Workshop** . . . . . **4.0 Credits**  
This multi-level class is designed to teach non-native speakers of English the fundamentals of good English writing. Students will do a variety of writing including dialogue journals and compositions. Students may choose to practice other forms such as resumes, applications, or longer essays. The class is open to ESL level 3 students and above.

### ESL 055

**ESL Special Purposes** . . . . . **1.0 - 18.0 Credits**  
Course designed to address specific needs for non-native speakers of English. Content may vary from course to course.

### ESL 056

**ESL Computer Lab** . . . . . **1.0 - 6.0 Credits**  
A course with a computer lab setting to help non-native speakers of English transition to college level academic or vocational courses. Course-work will be individualized to fit the needs of each student. Although there is a multi-skill base, particular emphasis is given to writing. The lab may be taken in conjunction with an ESL class or independently.

### ESL 060

**ESL Level 6** . . . . . **1.0 - 18.0 Credits**  
Designed for persons who are literate in English, can handle their jobs with oral and written instructions, and can communicate with native speakers. Emphasis is on speaking, listening, reading, and writing skills with continued use of computers and other technologies.



## Environmental Science

### ENVS 174

#### Intro to Meteorology and the Atmosphere [M/S] . . . . . 5.0 Credits

An introduction to meteorology, weather, climate, and the atmospheric processes related to air pollution and climate change. Topics include atmospheric structure, solar radiation, clouds, precipitation, pressure, fronts, hurricanes, air pollution, climate, and global climate change. Prerequisites: MATH 095 or MATH 098.

## Environmental Science Common Course

### ENVS& 101

#### Intro to Environmental Science w/Lab [M/S] . . . . . 5.0 Credits

A multidisciplinary course designed to provide both the non-science and science major the background necessary to understand environmental problems that have arisen due to human activities. Topics include food chains, energy production, nutrient cycles, forest and wildlife management, population demographics, air and water pollution, ozone depletion, and global warming. Lab and lecture must be taken concurrently. (Previously ENVS 100.)

### ENVS& 101L

#### Intro to Environmental Science Lab [M/S] . . . . . 0.0 Credits

You must sign up for both lecture and lab to receive combined lecture and lab credits. No lab credits will show as they are included in the lecture credits. (Previously ENVS 1001.)

## Fire Protection Technology

### FPT 110

#### Fire Behavior and Tactics. . . . . 5.0 Credits

Discussion of basic fire behavior and the firefighting tactics of company response, including size-up, rescue, exposure, ventilation and fire problems, and tactics used.

### FPT 120

#### Fire Protection Systems/Fire Prevention . . . . . 5.0 Credits

Designed to give students a clear understanding of the principles and limitations of fire suppression and detection systems. This also covers the history and philosophy of fire prevention, challenges of fire prevention education, and public education.

### FPT 130

#### Fire Service Hydraulics/E.V.A.P. . . . . 5.0 Credits

A course that is designed to give the new firefighter a basic understanding of municipal water systems, principles of fluids, fire flow requirements, and basic fire stream calculations. This course will also study safe vehicle operations and safe response procedures.

### FPT 205

#### Fire Academy I . . . . . 8.0 Credits

Introduction to firefighting tools, equipment, and basic firefighting techniques. Skills development and proficiency in fire ground operations using firefighting companies. Emphasis on fire ground safety.

### FPT 210

#### Building Construction . . . . . 5.0 Credits

A course covering basic building construction concepts, structure rating, classification, and outlining the specific weakness of various types of construction. Building collapse and firefighter safety in burning buildings.

### FPT 215

#### Fire Academy II . . . . . 8.0 Credits

Continuation of FPT 205. Introduction to firefighting tools, equipment, and basic firefighting techniques. Skills development and proficiency in fire ground operations using firefighting companies. Emphasis on fire ground safety. Prerequisites: FPT 205 (with a 2.0 GPA) and instructor's permission.

### FPT 220

#### Fire Inspection/Fire Codes . . . . . 5.0 Credits

A course designed to give the new firefighter a basic concept of inspections involving the International Fire Code and the International Building Code.

### FPT 225

#### Fire Academy III . . . . . 8.0 Credits

Continuation of FPT 215. Introduction to firefighting tools, equipment, and basic firefighting techniques. Skills development and proficiency in fire ground operations using firefighting companies. Emphasis on fire ground safety and multi-company operations. Prerequisites: FPT 215 (with a 2.0 GPA) and instructor's permission.

### FPT 230

#### Fire Investigation . . . . . 5.0 Credits

Includes methods of determining the area of fire origin, fire causes, fire spread, and the aspects of fire behavior; recognition of accidental and incendiary fires, and securing and preserving evidence.

## Fire Science

### FS 111

#### Fire Administration . . . . . 1.0 - 3.0 Credits

Management in the fire service explores the skills and techniques used by competent management in business, government, and voluntary organizations, with particular emphasis on their application to the fire service.

### FS 121

#### Fire Tactics . . . . . 1.0 - 3.0 Credits

Discussion of basic firefighting tactics of company response, including size-up rescue, exposure, ventilation and fire problems, and tactics used.

### FS 131

#### Introduction to Fire Inspections . . . . . 1.0 - 3.0 Credits

A course designed to give the new inspector a basic concept of inspections that deal with fire hazards, authority to inspect, and how to conduct a pre-fire plan.

### FS 141

#### Hazardous Materials I. . . . . 1.0 - 3.0 Credits

A basic hazardous materials course with emphasis on the identification, recognition, and resource information available to the fire fighting situations involving hazardous materials.

### FS 151

#### Hazardous Materials II . . . . . 1.0 - 3.0 Credits

An applied course covering special firefighting situations involving hazardous materials. Prerequisite: FS 141.

### FS 211

#### Building Construction . . . . . 1.0 - 3.0 Credits

A course covering basic building construction, outlining the specific weaknesses of various constructions.

### FS 222

#### Fire Tactics II. . . . . 3.0 Credits

This course includes planning, implementing, and evaluating basic and advanced fire tactics at the command officer level. Prerequisite: FS 121.

### FS 231

#### Fire Protection Equipment . . . . . 1.0 - 3.0 Credits

Designed to give students a clear understanding of the principles and limitations of fire suppression and detection systems.

### FS 241

#### Fire Investigation . . . . . 1.0 - 3.0 Credits

Includes methods of determining the area of fire origin, fire causes, fire spread, and the aspects of fire behavior; recognizing accidental and incendiary fires, and securing and preserving evidence. Witness interrogation methods, arson laws, court procedures, and review of case histories will be discussed.



## Firefighter I

### FCA 105

#### Hydraulics . . . . . 3.0 Credits

A course that is designed to give the new firefighter a basic understanding of municipal water systems, principles of fluids, fire flow requirements, and basic fire stream calculations.

### FCA 120

#### Fire Investigation . . . . . 3.0 Credits

Includes methods of determining the area of fire origin, fire causes, fire spread, and the aspects of fire behavior; recognition of accidental and incendiary fires, and securing and preserving evidence.

### FCA 137

#### Fire Protection Systems . . . . . 3.0 Credits

Designed to give a clear understanding of the principles and limitations of fire suppression and detection systems.

### FCA 152

#### Building Construction . . . . . 3.0 Credits

A course covering basic building construction, outlining the specific weaknesses of various types of construction.

### FCA 160

#### Fire Ground Tactics. . . . . 3.0 Credits

Discussion of basic firefighting tactics of company response, including size-up, rescue, exposure, ventilation and fire problems, and tactics used.

### FCA 177

#### Wildland/Urban Interface . . . . . 3.0 Credits

Discussion of basic firefighting tactics of wildland fires that threaten homes within urban areas. In addition to general firefighting tactics, discussions on determining if a home or a group of homes can be safely protected will be presented.

### FCA 190

#### Introduction to Fire Inspection and Codes . . . . . 3.0 Credits

A course designed to give the new firefighter a basic concept of inspections involving the International Fire Code and the International Building Code.

### FCA 251

#### Firefighter Level I Academy. . . . . 1.0 - 23.0 Credits

This Academy offers extensive classroom and hands-on training to those seeking a career in fire science. The Academy meets or exceeds all the required subject areas for Firefighter Level I Certification as outlined by the Washington State Patrol Fire Protection Bureau.

### FCA 261

#### Firefighter Level II Academy . . . . . 8.0 Credits

This Academy is a continuation of Firefighter Academy I. Firefighter II provides extensive classroom and hands-on training to those seeking a career in fire science. The Academy meets or exceeds all the required subject areas for Firefighter Level II. Prerequisite: Firefighter I certification. Certification as outlined by the Washington State Patrol Fire Protection Bureau.

## First Year Introduction (FYI)

### WKSP 090

#### First Year Introduction . . . . . .0.0 Credit

Introduction to the academic culture, purpose, expectations, resources, procedures, and policies. Required for all degree and certificate seeking students prior to enrollment in second quarter of classes. There is a fee of \$50.

### WKSP 097

#### Self Guided First Year Introduction . . . . . .0.0 Credit

Degree or certificate seeking students may elect to complete the FYI requirement by taking a self-guided workshop. The workshop assesses student's knowledge of college, general policy, procedures, and resources available to students at CBC. There is a fee of \$50.

## First Year Introduction for Trades

### FYI 103

#### First Year Introduction for Trades . . . . . 1.0 Credit

An introduction to the academic and trades culture, purpose, expectations, resources, procedures, policies, and shop safety. Required for all degree or long term certificate seeking students in Agriculture and Industrial Equipment, Autobody, Automotive, Machine, and Welding Technology prior to enrollment in second quarter of classes. Students must earn a 3.0 in FYI 103 to register for their second quarter of classes.

## French

### FRCH 150

#### Beginning Conversational French . . . . . 1.0 - 5.0 Credits

Intensive practice in speaking and listening with an emphasis on surviving in everyday situations. Recommended that students have successfully completed at least FRCH& 121. (Previously FR 150.)

### FRCH 151

#### Beginning Conversational French . . . . . 1.0 - 5.0 Credits

Intensive practice in speaking and listening with an emphasis on surviving in everyday situations. Recommended that students have successfully completed at least FRCH& 121. (Previously FR 151.)

### FRCH 152

#### Beginning Conversational French . . . . . 1.0 - 5.0 Credits

Intensive practice in speaking and listening with an emphasis on surviving in everyday situations. Recommended that students have successfully completed at least FRCH& 121. (Previously FR 152.)

### FRCH 250

#### Intermediate Conversational French . . . . . 1.0 - 5.0 Credits

Intensive practice in speaking French for students who have already gained a knowledge of beginning level grammar and vocabulary. Class will be conducted entirely in French. Instructor's permission required. (Previously FR 250.)

### FRCH 251

#### Intermediate Conversational French . . . . . 1.0 - 5.0 Credits

Intensive practice in speaking French for students who have already gained a knowledge of beginning level grammar and vocabulary. Class will be conducted entirely in French. Instructor's permission required. (Previously FR 251.)

### FRCH 252

#### Intermediate Conversational French . . . . . 1.0 - 5.0 Credits

Intensive practice in speaking French for students who have already gained a knowledge of beginning level grammar and vocabulary. Class will be conducted entirely in French. Instructor's permission required. (Previously FR 252.)

### FRCH 260

#### French Literature Reading [H] . . . . . 1.0 - 3.0 Credits

Selected readings of French literature. Prerequisite: FRCH& 223 or instructor's permission. (Previously FR 260.)

### FRCH 261

#### French Literature Reading [H] . . . . . 1.0 - 3.0 Credits

Selected readings of French literature. Prerequisite: FRCH& 223 or instructor's permission. (Previously FR 261.)

### FRCH 262

#### French Literature Reading [H] . . . . . 1.0 - 3.0 Credits

Selected readings of French literature. Prerequisite: FRCH& 223 or instructor's permission. (Previously FR 262.)



## French Common Course

### FRCH& 121

**French I [H]** . . . . . **5.0 Credits**  
Introduction to the French language including conversational skills, reading, writing, and grammar, and French culture including geography, customs, daily life, and heritage. Designed for the novice learner of French, with little or no proficiency in the French language. Recommended that students have successfully completed at least ENGL 099. (Previously FR 101.)

### FRCH& 122

**French II [H]** . . . . . **5.0 Credits**  
Introduction to the French language including conversational skills, reading, writing, and grammar, and French culture including geography, customs, daily life, and heritage. Prerequisite: FRCH& 121 or instructor's permission. (Previously FR 102.)

### FRCH& 123

**French III [H]** . . . . . **5.0 Credits**  
Introduction to the French language including conversational skills, reading, writing, and grammar, and French culture including geography, customs, daily life, and heritage. Prerequisite: FRCH& 122 or instructor's permission. (Previously FR 103.)

### FRCH& 221

**French IV [H]** . . . . . **5.0 Credits**  
Extensive practice in all four language skills (reading, writing, speaking, listening). The course includes cultural readings and short stories and includes an in-depth review of basic French grammar, expansion of basic vocabulary, and a broadening of the student's understanding of French culture. Prerequisite: FRCH& 123 or instructor's permission. (Previously FR 201.)

### FRCH& 222

**French V [H]** . . . . . **5.0 Credits**  
Extensive practice in all four language skills (reading, writing, speaking, listening). The course includes cultural readings and short stories and includes an in-depth review of basic French grammar, expansion of basic vocabulary, and a broadening of the student's understanding of French culture. Prerequisite: FRCH& 221 or instructor's permission. (Previously FR 202.)

### FRCH& 223

**French VI [H]** . . . . . **5.0 Credits**  
Extensive practice in all four language skills (reading, writing, speaking, listening). The course includes cultural readings and short stories and includes an in-depth review of basic French grammar, expansion of basic vocabulary, and a broadening of the student's understanding of French culture. Prerequisite: FRCH& 222 or instructor's permission. (Previously FR 203.)

## General Engineering

### ENGR 120

**Innovative Engineering Design I** . . . . . **2.0 Credits**  
Engineering problem-solving, creativity, role, function, design methods, and product development. Topics include engineering disciplines, ethics, engineering issues, design methods and tools, product development process, product safety and reliability, engineering economics, and decision-making process. Engineering design problems will be introduced and discussed. This introductory course is designed on a two-quarter basis. Students are required to complete the two consecutive quarters of this course (ENGR 120 and ENGR 121). This course is equivalent to ENGR 120 "Innovation in Design," offered at WSU during the freshman year. Prerequisites: MATH& 142, MATH& 144, or MATH 103. (Previously GE 120.)

### ENGR 121

**Innovative Engineering Design II** . . . . . **2.0 Credits**  
Engineering problem solving, creativity, role, function, design methods, product development, design projects, and reports. This course focuses on design projects in major branches of engineering disciplines such as electrical, mechanical, and civil engineering. Computer engineering design project may be included. The goals are to provide students an opportunity to explore the different engineering disciplines, and to expose students to engineering problems, designs, and product development. This course emphasizes teamwork, and students are required to work in teams for all projects. Each student will individually explore an engineering discipline and complete a research project and written report. Students will demonstrate awareness of applicable codes and standards related to the selected project. Prerequisite: ENGR 120. (Previously GE 121.)

## General Engineering Common Course

### ENGR& 111

**Engineering Graphics 1** . . . . . **3.0 Credits**  
Principles of mechanical drawing: geometric construction, orthographic projection, sectional views, auxiliary views, isometric and oblique drawings, dimensions, threads, fasteners, and lettering. (Previously GE 101.)

### ENGR& 112

**Engineering Graphics 2** . . . . . **3.0 Credits**  
Descriptive geometry: lines, points, planes, successive auxiliary views, intersections, and developments. Prerequisite: ENGR& 111. (Previously GE 102.)

### ENGR& 214

**Statics** . . . . . **5.0 Credits**  
Analysis of force systems in static equilibrium. Topics include force vectors, equilibrium of particles and rigid bodies, structural analysis, distributed forces, friction, center of gravity, moments of inertia. Prerequisites: PHYS& 221/PHYS& 231 and MATH& 151. (Previously GE 281.)

### ENGR& 215

**Dynamics** . . . . . **5.0 Credits**  
Analysis of motion of particles and rigid bodies. Topics include kinematics of particles and rigid bodies, kinetics of particles and rigid bodies, Newton's laws, work and energy, impulse, and momentum. Prerequisite: ENGR& 214. (Previously GE 291.)

## Geography

### GEO 101

**Physical Geography [M/S]** . . . . . **5.0 Credits**  
An introduction to the physical earth. It may include processes, which impact the earth; it may also include the relationship between humans and the earth. Study of the physical areas and environment of the earth. Topics include the weather, climate, water cycle, soils, and land form studies. The class also covers how humans influence and are influenced by their physical environment.

### GEO 120

**Introduction to Atmospheric Science [M/S]** . . . . . **4.0 Credits**  
An introductory study of fundamental scientific principles through their application to everyday weather events. Study and observations of the atmosphere and the principles of meteorology. Students use analysis and decision-making skills used by meteorologists to diagnose weather patterns, understand air motions, and predict future atmospheric conditions. Lecture/lab must be taken concurrently. Prerequisites: reading ASSET score of 35+; a WebCT workshop.

### GEO 120I

**Introduction to Atmospheric Science Lab [M/S]** . . . . . **1.0 Credit**  
Lab to be taken concurrently with GEO 120.



## GEO 150

### Cultural Geography [S/B]. . . . . 5.0 Credits

An introduction to the use of human geography as a framework with which to critically analyze and understand the world, both on a micro and macro level. CBC's course in Cultural Geography provides an introduction to the ways in which human groups think about, arrange, and modify their physical habitats. This geographic knowledge is a basic means to understanding one's own world and the worlds of others.

## Geology

### GEOL 102

#### Physical Geology II [M/S]. . . . . 3.0 Credits

An introduction to geomorphology. A descriptive and interpretive examination of the earth's topographic features produced by a) surface processes such as glaciers, streams, wind, waves, and groundwater, and b) deformation which results in structures such as folds and faults. Laboratory exercises will include the use and interpretation of topographic maps and aerial photographs, and possible field experiences. Lecture and lab must be taken concurrently. Prerequisite: GEOL& 101/GEOL& 101L or instructor's permission. (Previously GEL 102.)

### GEOL 102L

#### Physical Geology II Lab [M/S]. . . . . 1.0 - 2.0 Credits

Lab to be taken concurrently with GEOL 102. (Previously GEL 102L.)

## Geology Common Course

### GEOL& 101

#### Intro to Physical Geology w/Lab [M/S]. . . . . 3.0 Credits

Composition and structure of the earth. Study and identification of common minerals and the three major rock groups. Plate tectonics concept of the evolution of surface features of continents. A study of volcanic, seismic, weathering, and ground water processes. Outline of geologic development of the Pacific Northwest, including field studies. Lecture and lab must be taken concurrently. (Previously GEL 101.)

### GEOL& 101L

#### Intro Physical Geology Lab [M/S]. . . . . 2.0 Credits

Lab to be taken concurrently with GEOL& 101. (Previously GEL 101L.)

### GEOL& 103

#### Historical Geology w/Lab [M/S]. . . . . 3.0 Credits

Assessment of the history and development of the earth's physical environment and its inhabitants. An historical and chronologic analysis of the origin of the earth, including the development of the earth through time and discussion based on the paleontologic, sedimentologic, and stratigraphic record. Study of distinctive fossil groups for each geologic period and applications for correlation and reconstruction of regional geologic history. Lecture and lab must be taken concurrently. Prerequisite: GEOL& 101/GEOL& 101L or instructor's permission. (Previously GEL 203.)

### GEOL& 103L

#### Historical Geology Lab [M/S]. . . . . 2.0 Credits

Lab to be taken concurrently with GEOL& 103. (Previously GEL 203L.)

### GEOL& 110

#### Environmental Geology w/Lab [M/S]. . . . . 3.0 Credits

Relationships of human activities with earth materials and processes. Earthquakes, volcanic activity, mass wasting, subsidence, surface water, mineral resources, waste disposal, water pollution, and a heavy emphasis on groundwater may all be included. Students will be expected to make interpretations and draw conclusions from scientific data such as graphs, charts, and maps. Lecture and lab must be taken concurrently. Field trips may be included as a part of the laboratory experience. Prerequisite: GEOL& 101/GEOL& 101L or instructor's permission. (Previously GEL 211.)

### GEOL& 110L

#### Environmental Geology Lab [M/S]. . . . . 2.0 Credits

Lab to be taken concurrently with GEOL& 110. (Previously GEL 211L.)

## German

### GERM 150

#### Beginning Conversational German . . . . . 1.0 - 5.0 Credits

Intensive practice in speaking and listening with an emphasis on surviving in everyday situations. Recommended that students have successfully completed at least GERM& 121. (Previously GER 150.)

### GERM 151

#### Beginning Conversational German . . . . . 1.0 - 5.0 Credits

Intensive practice in speaking and listening with an emphasis on surviving in everyday situations. Recommended that students have successfully completed at least GERM& 121. (Previously GER 151.)

### GERM 152

#### Beginning Conversational German . . . . . 1.0 - 5.0 Credits

Intensive practice in speaking and listening with an emphasis on surviving in everyday situations. Recommended that students have successfully completed at least GERM& 121. (Previously GER 152.)

### GERM 250

#### Intermediate Conversational German . . . . . 1.0 - 5.0 Credits

Intensive practice in speaking German for students who have already gained a knowledge of beginning-level grammar and vocabulary. Class will be conducted entirely in German. Instructor's permission required. (Previously GER 250.)

### GERM 251

#### Intermediate Conversational German . . . . . 1.0 - 5.0 Credits

Intensive practice in speaking German for students who have already gained a knowledge of beginning-level grammar and vocabulary. Class will be conducted entirely in German. Instructor's permission required. (Previously GER 251.)

### GERM 252

#### Intermediate Conversational German . . . . . 1.0 - 5.0 Credits

Intensive practice in speaking German for students who have already gained a knowledge of beginning-level grammar and vocabulary. Class will be conducted entirely in German. Instructor's permission required. (Previously GER 252.)

### GERM 260

#### German Literature Readings [H]3 . . . . . 1.0 - 3.0 Credits

Selected readings of German literature. Prerequisite: GERM& 223 or instructor's permission. (Previously GER 260.)

### GERM 261

#### German Literature Readings [H] . . . . . 1.0 - 3.0 Credits

Selected readings of German literature. Prerequisite: GERM& 223 or instructor's permission. (Previously GER 261.)

### GERM 262

#### German Literature Readings [H] . . . . . 1.0 - 3.0 Credits

Selected readings of German literature. Prerequisite: GERM& 223 or instructor's permission. (Previously GER 262.)

## German Common Course

### GERM& 121

#### German I [H]. . . . . 5.0 Credits

Introduction to the German language including conversational skills, reading, writing, and grammar, and German culture including geography, customs, daily life, and heritage. Designed for the novice learner of German, with little or no proficiency in the German language. Recommended that students have successfully completed at least ENGL 099. (Previously GER 101.)



## GERM& 122

**German II [H]** . . . . . **5.0 Credits**  
Introduction to the German language including conversational skills, reading, writing, and grammar, and German culture including geography, customs, daily life, and heritage. Prerequisite: GERM& 121 or instructor's permission. (Previously GER 102.)

## GERM& 123

**German III [H]** . . . . . **5.0 Credits**  
Introduction to the German language including conversational skills, reading, writing, and grammar, and German culture including geography, customs, daily life, and heritage. Prerequisite: GERM& 122 or instructor's permission. (Previously GER 103.)

## GERM& 221

**German IV [H]** . . . . . **5.0 Credits**  
Extensive practice in all four language skills (reading, writing, speaking, and listening). The course is based on cultural readings and short stories and includes an in-depth review of basic German grammar, expansion of basic vocabulary, and a broadening of the student's understanding of the Germanic culture. Prerequisite: GERM& 123 or instructor's permission. (Previously GER 201.)

## GERM& 222

**German V [H]** . . . . . **5.0 Credits**  
Extensive practice in all four language skills (reading, writing, speaking, and listening). The course is based on cultural readings and short stories and includes an in-depth review of basic German grammar, expansion of basic vocabulary, and a broadening of the student's understanding of the Germanic culture. Prerequisite: GERM& 221 or instructor's permission. (Previously GER 202.)

## GERM& 223

**German VI [H]** . . . . . **5.0 Credits**  
Extensive practice in all four language skills (reading, writing, speaking, and listening). The course is based on cultural readings and short stories and includes an in-depth review of basic German grammar, expansion of basic vocabulary, and a broadening of the student's understanding of the Germanic culture. Prerequisite: GERM& 222 or instructor's permission. (Previously GER 203.)

## Health Education

### HE 160

**Diet, Exercise & Weight Control [PE]** . . . . . **2.0 Credits**  
Class is designed to promote and achieve knowledge in the areas of diet, exercise, and weight management for today's lifestyles as it relates to the student's total well-being.

### HE 161

**HIV/AIDS Issues and Strategies [PE]** . . . . . **2.0 Credits**  
A comprehensive overview of the virus HIV and AIDS, including biological, epidemiological, historical, universal precautions, economic, legal, ethical, social, and behavioral aspects.

### HE 170

**Health and Wellness [PE]** . . . . . **3.0 Credits**  
Study of current health and wellness issues and problems of the college-age student. Emphasis is on lifestyles, risk factors, and preventing disease and illness with a wellness lifestyle.

### HE 171

**Exercise Prescription [PE]** . . . . . **2.0 Credits**  
This course is the study of the history, current trends, and research regarding proper protocols for designing individual workout programs based on needs and experience of individuals.

### HE 1711

**Exercise Prescription Lab [PE]** . . . . . **1.0 Credit**  
Lab to be taken concurrently with HE 171.

## HE 180

**Adaptive Physical Education [PE]** . . . . . **2.0 Credits**  
This course is a study of the history, current global perspective, current trends, and laws regarding the opportunity for people with challenges and limitations to participate in physical activity and sports.

## HE 1801

**Adaptive Physical Education Lab [PE]** . . . . . **1.0 Credit**  
Lab to be taken concurrently with HE 180.

## HE 210

**Sports Nutrition [PE]** . . . . . **3.0 Credits**  
This course is an introduction to terms, concepts, and research regarding proper nutrition for athletes and active individuals. In addition, supplementation and aids to enhance performance will be studied.

## HE 215

**Health and Fitness for Life [PE]** . . . . . **2.0 Credits**  
This is a foundation course designed to prepare students for living the rest of their lives in a state of optimal health by providing the necessary knowledge and skills that are desirable in order to make meaningful, beneficial, and successful choices in the area of physical fitness, nutritional awareness, stress management, and other aspects of health. This class requires lab activities in the fitness center.

## HE 2151

**Health and Fitness for Life Lab [PE]** . . . . . **1.0 Credit**  
Lab to be taken concurrently with HE 215.

## HE 220

**Drugs and Health [PE]** . . . . . **3.0 Credits**  
This course is designed to achieve physiological knowledge and awareness of chemical use and abuse as it relates to the student's total well-being.

## HE 230

**First-Aid Safety [PE]** . . . . . **3.0 Credits**  
Course designed to help students learn first-aid skills and accident prevention. Advanced first-aid and CPR card given for successful completion.

## HE 232

**Sports Psychology [PE]** . . . . . **3.0 Credits**  
This course is an introduction to terms, concepts, and research regarding the psychological area of sports. The history, current trends, and legal issues regarding the field of sports psychology will be studied.

## HE 240

**Stress Management [PE]** . . . . . **3.0 Credits**  
A study of the causes of human stress and how to manage or minimize this stress. Theories, implications, and practical applications are emphasized.

## HE 250

**Sports Management [PE]** . . . . . **3.0 Credits**  
This course is an introduction to the history, current global perspectives, trends, and research regarding the field of sports management. Students will gain an understanding of marketing, organization, and financial aspects of sports management.

## Health Information Technology

### HIT 115

**Legal Aspects of the Medical Office I** . . . . . **2.0 Credits**  
An introduction of the basics of the American legal system, the physician-patient relationship, the medical record and its uses; informed consent; licensure, certification, and registration; the basic laws protecting patient information including knowledge of HIPAA regulations, and how they pertain to the medical assistant. Prerequisite: Internet proficiency.



## HIT 116

### **Legal Aspects of the Medical Office II . . . . . 1.0 Credit**

A continuation course on how to apply the laws protecting patient information including a basic knowledge of HIPPA, RCWs, and WACs regulations and how they pertain to the medical office. Emphasis is on the release of healthcare information process. Intended for the transferring medical assistant student who has completed HIT 115 and needs to fulfill AOT requirements. Prerequisites: AOT 115/HIT 115 and Internet proficiency.

## HIT 118

### **Legal Aspects of the Medical Office III . . . . . 3.0 Credits**

An introduction to the American legal system; the physician-patient relationship; the laws and statutes that apply to health professions; the basis of medical law; the litigation processes; employment and safety laws including quality improvement programs and incident reports; medical ethics, and bioethics; professional and ethical conduct and behavior; and ethical issues in the medical office; the medical record and its uses; the basic laws protecting patient information including knowledge of HIPPA regulations and how they pertain to the medical office. Prerequisite: Internet proficiency.

## HIT 147

### **Medical Terminology . . . . . 5.0 Credits**

Provides a basic background of medical terminology for the medical office. Major topics to be studied are cells and oncology, tissues and the integumentary system, skeletal system, muscular system, nervous system, special senses, glands, cardiovascular system; blood and lymphatic-immune systems, respiratory system; digestive system; urinary system, reproductive system, pregnancy and human development; and general diseases, lab tests, diagnoses, surgery, pharmacology, and therapy. Emphasis is placed on identifying and labeling word parts, defining and building medical terms, basic anatomy, and becoming familiar with common diseases of the systems.

## HIT 152

### **Pharmacotherapy for Health Information Technology . . . . . 2.0 Credits**

Emphasis is placed on the understanding of the action of drugs, including the absorption, distribution, metabolism, and excretion of drugs by the body. Prerequisite: AOT 147/HIT 147 with a minimum 2.0.

## HIT 153

### **Medical Reimbursement. . . . . 4.0 Credits**

Introduction to medical insurance including diagnostic coding, procedural coding, ambulatory care coding (ICD-9-CM, CPT/HCPCS) and completion of HCFA forms for insurance billing. The course will also include specific discussion of Blue Cross/Blue Shield, Medicare, Medicaid, Champus/Champo, and Worker's Compensation. Prerequisites: AOT 101, AOT 118/HIT 118 (or HIT 115 and HIT 116), and HIT 155 or AOT 150. Concurrent enrollment in HIT 156 approved.

## HIT 154

### **Anatomy and Physiology for Health Information Technology . . . 4.0 Credits**

A study of the structure and function of the human body utilizing a system approach. Emphasis is placed on the gross and microscopic anatomy as well as the physiology of the cell, skeletal system, muscular system, nervous system, cardiovascular, respiratory, urinary, reproductive, endocrine, and digestive systems. Prerequisite: AOT 147/HIT 147 with a minimum 2.0.

## HIT 155

### **Introduction to Medical Coding . . . . . 4.0 Credits**

Introduction to medical coding concepts, methods, and, guidelines using International Classification of Diseases 9th Edition (ICD-9-CM) and Current Procedural Terminology (CPT). Prerequisite: AOT 147/HIT 147 with a minimum 2.0.

## HIT 156

### **Intermediate Medical Coding . . . . . 4.0 Credits**

An intermediate presentation of medical coding concepts, methods, and guidelines using the International Classification of Diseases 9th Edition (ICD-9-CM) and Current Procedural Terminology (CPT). This course covers the rules and regulations regarding coding. Prerequisite: AOT 155/HIT 155 or AOT 150 with a minimum 2.0.

## HIT 157

### **Advanced Medical Coding . . . . . 4.0 Credits**

Advanced medical coding concepts, methods, and guidelines using International Classification of Diseases 9th Edition (ICD-9-CM), Current Procedural Terminology (CPT), and HCPCS. Prerequisite: HIT 156 or AOT 151 with a minimum 2.0.

## HIT 158

### **Pathophysiology for Health Information Technology . . . . . 4.0 Credits**

Emphasis is placed on the disease processes affecting the human body via an integrated approach to specific disease entities including the causes, diagnosis, and treatment of disease. Prerequisite: AOT 147/HIT 147 with a minimum 2.0.

## HIT 159

### **Advanced Hospital Coding and CCS Prep . . . . . 4.0 Credits**

The Advanced Hospital and CCS Prep course is a capstone course. It is designed for students with previous experience and or education in coding and billing and want to prepare for successful completion of the American Health Information Management Association's Mastery level credentialing exam Certified Coding Specialist (CCS). Students must have an intermediate knowledge of medical terminology, anatomy, physiology, pathology, ICD-9-CM coding and CPT-4 coding. Prerequisites: HIT 157 or a score of 78 percent on the AOT coding exam.

## HIT 245

### **Medical Office Procedures . . . . . 2.0 Credits**

Integrates application of skills with knowledge of medical office procedures to complete a simulated medical office project. Includes conducting online research. Prerequisites: AOT 142, AOT 147/HIT 147, and Internet proficiency.

## HIT 283

### **Medical Transcription I . . . . . 4.0 Credits**

Prepares students to transcribe reports commonly dictated in physicians' offices and clinics. History and physical examinations, pharmacology and laboratory procedures, chart notes, letters, initial office evaluations, consultations, and discharge summaries in several specialties are covered. Emphasis is on accuracy, appropriate formats, and acquiring skill in the use of references. Prerequisites: AOT 114, HIT 147, and AOT 172.

## HIT 284

### **Medical Transcription II . . . . . 4.0 Credits**

Prepares students to transcribe reports commonly dictated in physicians' offices, clinics, hospitals, surgery centers, radiology centers, and pathology offices. Operative reports, diagnostic procedures, surgical discharge summaries, radiology, and pathology reports in several specialties are covered. Emphasis is on speed, accuracy, appropriate formats, and use of references. Prerequisite: HIT 283.

## HIT 285

### **Medical Transcription III . . . . . 4.0 Credits**

Prepares students to transcribe operative reports, diagnostic procedures, surgical discharge summaries, radiology, and pathology reports commonly dictated in outpatient and same-day surgery centers, hospitals, large multi-specialty clinics, radiology centers, and pathology offices. Specialties include cardiology, GI, orthopedic, pathology, and radiology transcription. Included are dictations from physicians for whom English is not their first language. In addition, this comprehensive course provides an opportunity to demonstrate mastery of medical transcription specialty fields from previous medical transcription courses. Prerequisite: HIT 284.



## Health Sciences

### HSCI 220

#### ACLS Initial . . . . . 2.0 Credits

Through the Advanced Cardiac Life Support course, healthcare providers will enhance their skills in the treatment of the adult victim of a cardiac arrest or other cardiopulmonary emergencies. The emphasis will be on the importance and integration of basic life support CPR with advanced cardiovascular life support and then importance of effective team interaction and communication during resuscitation. Prerequisites: current healthcare provider BLS card and completion of prerequisite checklist.

### HSCI 221

#### ACLS Renewal . . . . . .0.9 Credit

This course is offered to provide an update to current ACLS providers and to renew ACLS provider status. Prerequisites: current healthcare provider BLS card, current ACLS provider card, and completed ACLS precourse checklist.

### HSCI 222

#### ACLS Experienced Provider . . . . . 1.0 Credit

The ACLS Experienced Provider course is for seasoned ACLS providers who wish to renew their ACLS provider status. This course provides a stimulus for expert healthcare providers to identify areas in resuscitation that deal with special circumstances. Prerequisites: Current Healthcare Provider BLS card and current ACLS Provider Card.

### HSCI 223

#### ACLS Instructor Course . . . . . 1.0 Credit

One credit class to prepare individuals to become instructors in advanced cardiovascular life support. Prerequisites: current ACLS provider. Recommendation of an ACLS course director or ACLS regional faculty member. Completion of AHA core instructor course prior to class.

### HSCI 230

#### PALS Initial . . . . . 2.0 Credits

The goal of the Pediatric Advanced Life Support course is to aid the healthcare provider in developing the knowledge and skills necessary to provide emergency care for the pediatric population, and effectively manage critically ill infants and children. Skills taught include recognition and treatment of infants and children at risk for cardiopulmonary arrest; the systematic approach to pediatric assessment, effective respiratory management; defibrillation and synchronized cardioversion; intraosseous access and fluid bolus administration; and effective resuscitation team dynamics. Prerequisites: current healthcare provider BLS card and completed PALS precourse checklist.

### HSCI 231

#### PALS Renewal . . . . . .0.9 Credit

This course is offered to provide an update to current PALS providers and to renew PALS provider status. Prerequisites: current healthcare provider BLS card, current PALS provider card, and completed PALS precourse checklist.

### HSCI 233

#### PALS Instructor Course . . . . . 1.0 Credit

One credit class to prepare individuals to become instructors in pediatric advanced life support. Prerequisites: current PALS provider is required. Recommendation of PALS course director or PALS regional faculty member. Completion of AHA core instructor course prior to class.

### HSCI 240

#### ALS/OTEP General Pharmacology . . . . . .0.3 Credit

This course provides an overview of the basic principles of pharmacology as they apply to the paramedic administering medications in the field setting. Significant emphasis is placed on the pharmacokinetics and dynamics with specific drug profiles being completed in the specific treatment modalities taught in the separate courses of ALS OTEP. Prerequisite: current certification as EMT-I/Paramedic.

### HSCI 241

#### ALS/OTEP Medical Legal . . . . . .0.3 Credit

This course provides a general overview of legal considerations as they apply to the certified paramedic or EMT-Intermediate. The course focuses on standard of care issues, legal terminology, issues regarding consent to treat, refusals, Do Not Resuscitate Orders and POLST, abandonment, negligence claims, civil and tort law, certification, and proper documentation. Prerequisite: current certification as Paramedic.

### HSCI 242

#### ALS/OTEP Patient Assessment in the Field . . . . . .0.3 Credit

This course provides an overview of patient assessment of the patient in the field. The course focuses on the general medical and trauma patient with specific emphasis on scene size-up, initial assessment, identifying life threatening emergencies, focused assessment and history, detailed and ongoing exam, and the prioritization of patients. Prerequisite: current certification as Paramedic.

### HSCI 243

#### ALS/OTEP Communicable Disease . . . . . .0.3 Credit

This course provides a general overview of communicable disease to the certified Paramedic or EMT-Intermediate. The course focuses on principles of infectious disease control, barriers to infection, and stages of infectious disease. The course further discusses the pathophysiology, identification, and treatment of various blood, air, parasitic, and fecal/sputum pathogens. Prerequisite: current certification as Paramedic.

### HSCI 244

#### ALS/OTEP Mass Casualty & Terrorist Incidents . . . . . .0.3 Credit

This course provides the certified paramedic with the necessary knowledge and skills necessary to identify the Mass Casualty Incident and the possibilities of terrorist involvement. The course emphasizes the need of the paramedic to recognize the need for triage, treatment, and transportation; as well as fulfill the role of each of the MCI positions as they relate to the size and complexity of the emergency. The course provides specific information on explosive, nuclear, chemical, and biological agents, as well as tools to assist EMS personnel in recognition of terrorist acts. There is a strong emphasis of scene safety for all EMS personnel. Prerequisite: current certification as Paramedic.

### HSCI 245

#### ALS/OTEP Shock Trauma Resuscitation . . . . . .0.3 Credit

This course provides current specific assessment and management techniques to be used on the trauma patient suffering compensated, uncompensated, or irreversible shock. Identifying the stage of shock and the appropriate actions to improve end organ perfusion will be the primary focus of the course. Prerequisite: current certification as Paramedic.

### HSCI 246

#### ALS/OTEP Burns & Soft Tissue Trauma . . . . . .0.3 Credit

The purpose of this course is to review the various mechanisms and effects of soft tissue trauma, ranging from the minor laceration to the severe crush injury, and compartment syndrome. Within this subject, specific pathophysiology, assessment, and management will be covered. Additionally, the pathophysiology, assessment, and management of all severities of burns will be addressed. At the completion of the course, students will be expected to perform specific skills pertaining to the treatment of soft tissue injuries. Prerequisite: current certification as EMT-I/Paramedic.

### HSCI 247

#### ALS/OTEP Musculoskeletal Trauma . . . . . .0.3 Credit

The purpose of this course is to review the various mechanisms and effects of musculoskeletal trauma on the human body. Pathophysiology of the trauma, assessment, and management of the injury will be covered in depth. At the completion of the course, students will be expected to perform specific skills pertaining to the treatment of musculoskeletal injuries. Prerequisite: current certification as Paramedic.



## HSCI 248

### ALS/OTEP Head & Facial Trauma . . . . .0.3 Credit

The focus of this course is the epidemiology and pathophysiology of head and facial trauma. Specific assessment and management techniques will be reviewed and discussed within the course. At the completion of the course, students will be expected to perform specific skills pertaining to the treatment of head and facial injuries. Prerequisite: current certification as Paramedic.

## HSCI 249

### ALS/OTEP Neck & Spinal Trauma . . . . .0.3 Credit

The focus of this course is the epidemiology and pathophysiology of neck and spinal trauma. Specific assessment and management techniques will be reviewed and discussed within the course. At the completion of the course, students will be expected to perform specific skills pertaining to the treatment of neck and spinal injuries. Prerequisite: current certification as Paramedic.

## HSCI 250

### ALS/OTEP Chest & Abdominal Trauma . . . . .0.3 Credit

The focus of this course is the epidemiology and pathophysiology of chest and abdominal trauma. Specific assessment and management techniques will be reviewed and discussed within the course. At the completion of the course, students will be expected to perform specific skills pertaining to the treatment of chest and abdominal injuries. Prerequisite: current certification as Paramedic.

## HSCI 251

### ALS/OTEP Environmental Emergencies . . . . .0.3 Credit

The focus of this course is to provide the paramedic with additional information regarding the various medical and trauma emergencies that can evolve from exposure to a wide spectrum of environmental conditions. Drowning, altitude illnesses, diving complexes, and exposure to various reptiles and spiders are discussed. Prerequisite: current certification as Paramedic.

## HSCI 252

### ALS/OTEP Respiratory Emergencies . . . . .0.3 Credit

The focus of this course is to review the pathophysiology of various pulmonary disorders that frequently affect the population. There is a heavy focus on the assessment and management of the patient suffering from various components of COPD, asthma, SARS, lung cancer, and pulmonary embolism. Prerequisite: current certification as EMT-I/Paramedic.

## HSCI 253

### ALS/OTEP Neurological Emergencies . . . . .0.3 Credit

This course specifically targets the assessment and treatment of patients suffering from a neurological disorder. Specific illness/diseases covered include stroke, seizures, altered mental status, and syncope. Prerequisite: current certification as Paramedic.

## HSCI 254

### ALS/OTEP Gastro & Endocrine Emergencies . . . . .0.3 Credit

The purpose of this course is to provide a general overview of the assessment and treatment of acute upper and lower gastrointestinal disorders treated by paramedics in the pre-hospital setting. Prerequisite: current certification as EMT-I/Paramedic.

## HSCI 255

### ALS/OTEP OB-GYN Emergencies. . . . .0.3 Credit

The focus of this course is obstetrical and gynecological emergencies faced by the paramedic in the pre-hospital setting. At the completion of the course, paramedics should be able to distinguish various OB/GYN emergencies from GI emergencies and adequately provide treatment accordingly. Prerequisite: current certification as Paramedic.

## HSCI 256

### ALS/OTEP Geriatric Emergencies . . . . .0.3 Credit

The focus of this course is to review the added difficulty in managing both medical and trauma emergencies involving geriatric patients. Prerequisite: current certification as Paramedic.

## HSCI 257

### ALS/OTEP Behavioral Emergencies & the Violent Patient . . . . .0.3 Credit

This course reviews the three major mental illnesses, identifies appropriate assessment techniques, and discusses the appropriate treatment of these patients, to include the physical and chemical restraint of violent patients. Prerequisite: current certification as Paramedic.

## HSCI 258

### ALS/OTEP Allergies & Anaphylaxis . . . . .0.3 Credit

This course specifically discusses the assessment and aggressive treatment of anaphylaxis in the pre-hospital setting. Prerequisite: current certification as EMT-I/Paramedic.

## HSCI 259

### ALS/OTEP Toxicologic Emergencies . . . . .0.3 Credit

This course reviews toxicological emergencies found in the pre-hospital setting and discusses the current treatment modalities of such emergencies. Prerequisite: current certification as Paramedic.

## HSCI 260

### ALS/OTEP Advanced Airway Management . . . . .0.9 Credit

This course provides the paramedic with specific training in the techniques for securing a patent airway in the critical medical or trauma patient. Included within the course is anatomy and physiology, recognition of existing and impending airway compromise, determination of appropriate advanced maneuvers, and deployment of various advanced airway skills and tools. Prerequisite: current certification as Paramedic.

## HSCI 261

### ALS/OTEP Advanced Cardiac Life Support . . . . .0.9 Credit

This course provides recertification to the certified paramedic in Advanced Cardiac Life Support. The course focuses on ACLS as intended to be taught by the American Heart Association. In addition, focus is also applied to the modalities of care for the cardiac patient in Benton/Franklin counties as per local protocol. Prerequisite: current certification as Paramedic.

## HSCI 262

### ALS/OTEP Pediatric Advanced Life Support . . . . .0.9 Credit

This course provides recertification to the certified paramedic in Pediatric Advanced Life Support. The course focuses on PALS as intended to be taught by the American Heart Association. In addition, focus is also applied to the modalities of care for the general pediatric patient in Benton/Franklin counties as per local protocol. Prerequisite: current certification as Paramedic.

## HSCI 263

### 48 Hour Paramedic Refresher . . . . .4.5 Credits

This course is intended for the paramedic preparing for recertification of the National Registry of EMT-Paramedic, or attempting to regain this certification. The course covers all required hours and skills required of the National Registry 48 Hour Certificate. Prerequisite: current certification as Paramedic.

## HSCI 264

### ILS/OTEP Refresher . . . . .0.9 Credit

This course is intended for the EMT-Intermediate as a supplement to his/her EMT-B OTEP courses. This course will focus on the additional skills and requisite knowledge of the EMT-I in the areas of assessment, pharmacology, intravenous skills, and advanced airway management. Prerequisite: current certification as an EMT- Intermediate.

## HSCI 265

### Combi-Tube Endorsement Course . . . . .0.9 Credit

This course is intended for EMT-Basic who desires the additional endorsement to his/her certification for insertion of a dual lumen advanced airway device, specifically Combi-Tube. Prerequisite: current certification as an EMT-Basic.



## Hebrew

### HEB 121

**Hebrew I [H]** . . . . . **5.0 Credits**

Introduction to the modern Hebrew language including conversational skills, reading, writing, and grammar and Israeli and Jewish culture including geography, customs, daily life, and heritage. Designed for the novice learner of Hebrew, with little or no proficiency in the Hebrew language. Prerequisite: recommended that students have successfully completed at least ENGL 099.

### HEB 122

**Hebrew II [H]** . . . . . **5.0 Credits**

Introduction to the Hebrew language including conversational skills, reading, writing, and grammar and Israeli and Jewish culture including geography, customs, daily life, and heritage. Prerequisite: HEB 101 or instructor's permission.

### HEB 123

**Hebrew III [H]** . . . . . **5.0 Credits**

Introduction to the Hebrew language including conversational skills, reading, writing, and grammar and Israeli and Jewish culture including geography, customs, daily life, and heritage. Prerequisite: HEB 122 or instructor's permission.

## History

### HIST 100

**Cultural and Historical Linked to Travel** . . . . . **1.0 - 3.0 Credits**

An introduction to the history, culture, geography, art, and language of a country or countries, to be followed by a required trip to the area studied for an immersion experience. (Previously ICS 100.)

### HIST 107

**Chicano History [S/B]** . . . . . **5.0 Credits**

This course is an introduction to the history of peoples of Mexican origin in the United States beginning with the period before the arrival of the Europeans and ending with an examination of contemporary issues such as immigration, acculturation/assimilation, and political representation facing the Chicano community during the contemporary period. (Previously HIS 107.)

### HIST 108

**History of Immigration in the United States [S/B]** . . . . . **5.0 Credits**

This course provides an overview of the history of immigration (voluntary and involuntary) in the United States and examines the factors that led people from Europe, Asia, Africa, Latin America, and other parts of the world to migrate to the United States. The course will also examine and compare the experience of the various groups once they are in the United States. (Previously HIS 108.)

### HIST 110

**History of Modern East Asia [S/B]** . . . . . **5.0 Credits**

A history of East Asia. Major emphasis will be upon the history of China, an analysis of modernization in Japan, and issues of colonialism and nationalism in East Asia. (Previously HIS 110.)

### HIST 111

**Colonial Latin America [S/B]** . . . . . **5.0 Credits**

The primary objective of the course is to familiarize students with the major phases in colonial Latin American history and to study, analyze, and understand the most important issues that characterized and shaped this period. Some of the topics include the conquest of the indigenous people, the imposition of Catholicism, the insertion of Latin America into the world market, the introduction and development of African slavery, independence movements, and the creation of new societies resulting from the mixing of indigenous, Iberian, and African cultures. (Previously HIS 111.)

### HIST 112

**Modern Latin America [S/B]** . . . . . **5.0 Credits**

A survey of the political, social, and economic history of Latin America from the last decades of the 19th century to the present. (Previously HIS 112.)

### HIST 113

**Mexico Since Independence [S/B]** . . . . . **5.0 Credits**

This course will provide students with an overview of the history of modern Mexico from the first movements towards independence at the beginning of the 19th century to the economic, political, and cultural struggles which the nation faces at the start of the 21st century. Through an examination of a number of periods and events (such as Independence, French Intervention, Mexican Revolution, and the Zapatista Uprising) that the country has experienced in the last 200 years, students will learn about the racial, economic, social, and political complexities of the Mexican past in order to understand the forces that produced contemporary Mexican society. Finally, in this course we will also pay attention to the ways Mexico's relationships with the United States and its citizens has also helped to influence the course of Mexican history since the latter part of the 19th century. (Previously HIS 113.)

### HIST 115

**History of Modern Middle East [S/B]** . . . . . **5.0 Credits**

An introduction to the history of the modern Middle East. Topics covered include: an introduction to Islam as a polity; Arab Muslim societies, past and present; Islamic law; the Ottoman Empire; the age of nation-states and the end of Empires; economics of the region. (Previously HIS 115.)

### HIST 116

**History of Africa [S/B]** . . . . . **5.0 Credits**

This course is an introduction to the history of the peoples of Africa from the earliest human civilizations on the continent to the present. (Previously HIS 116.)

### HIST 117

**History of India [S/B]** . . . . . **5.0 Credits**

This course is an introduction to the history of India from the earliest civilizations in the Indus Valley to the current political, social, and economic conditions of modern-day India. (Previously HIS 117.)

### HIST 233

**War In History [S/B]** . . . . . **5.0 Credits**

A study of the history of warfare in the Western world from the Ancient period to the present. Students will be introduced to the study of war in terms of its social, political, economic, technological, and cultural roots, and its effects on these various fields. (Previously HIS 233.)

### HIST 275

**Recent American History.** . . . . . **5.0 Credits**

A survey of United States history from World War II to the present. Emphasis on political, diplomatic, and social history. (Previously HIS 275.)

## History Common Course

### HIST& 126

**World Civilizations I [H]** . . . . . **5.0 Credits**

A study of world civilizations from their origins through late antiquity. Emphasis will be placed upon Western, East Asian, and South Asian civilizations. Philosophies, religions, and political and social systems will be covered. (Previously HIS 101.)

### HIST& 127

**World Civilizations II [H]** . . . . . **5.0 Credits**

The development of world civilizations from the end of the classical age to the beginning of the modern. Political, social, economic and cultural development will be covered with emphasis upon Europe, Asia, and Africa. (Previously HIS 102.)



## HIST& 128

**World Civilizations III [H]. . . . . 5.0 Credits**  
An examination of the major civilizations of the world from the birth of the modern age to the present. Emphasis is on the development of the modern nation-state, international relations, socio-economic developments, and shifting patterns of thought. (Previously HIS 103.)

## HIST& 136

**U.S. History I [S/B]. . . . . 5.0 Credits**  
Survey of American history from the colonial period through the Civil War and Reconstruction. Emphasis is placed on early colonial development, the American Revolution, the building of the nation, territorial expansion, slavery, the Civil War, and Reconstruction. (Previously HIS 104.)

## HIST& 137

**U.S. History II [S/B]. . . . . 5.0 Credits**  
A survey of American history from the post-Civil War era to the present. Emphasis is upon the political, social, economic, and cultural forces which have shaped modern America. Special emphasis is given to industrialization, class, race relations, social reform movements, foreign policy and political change, including the World Wars, the Great Depression, and postwar politics to the present. (Previously HIS 105.)

## HIST& 214

**Pacific Northwest History . . . . . 5.0 Credits**  
A general history of the Pacific Northwest, with particular emphasis on Washington state. Special emphasis is given to Indian culture, Indian-White relations, settlement, race relations, industrialization, and changes created by WWI and WWII. (Previously HIS 251.)

## HIST& 219

**Native American History [H]. . . . . 5.0 Credits**  
An introduction to the history and culture of Native American peoples. The situation of Native Americans in contemporary society is also discussed with particular focus on issues of tribal sovereignty. (Previously ICS 125.)

## HIST& 220

**African American History [S/B]. . . . . 5.0 Credits**  
This course is an introduction to the history of African Americans in the United States beginning with a study of the ancestors in Africa and ending with a discussion of the issues facing the African American community today. (Previously HIS 106.)

## Horticulture

### HORT 201

**Introduction to Horticulture . . . . . 5.0 Credits**  
A course offering the student a general background in the basic principles of plant growth and development covering a wide range of plants and industries related to production, marketing, and utilization of plants and plant products. Topics will emphasize nursery operations, landscaping, container gardening, houseplants, floral design, plant identification, and career opportunities.

### HORT 202

**Cultivated Plants . . . . . 4.0 Credits**  
The goal of the course is to introduce students to the morphology, anatomy, growth, and development of agronomic and horticultural crops. Prerequisite: BIOL& 211 is recommended.

### HORT 2021

**Cultivated Plants Lab . . . . . 1.0 Credit**  
Lab to be taken concurrently with HORT 202.

### HORT 215

**Urban Forest Management . . . . . 5.0 Credits**  
Introduction to the use of trees and related vegetation planted in cities and urban sites. Such plantings are used for beautification, religious purposes, and linkage with nature. The elements of area design, cultural considerations, environmental impact, and maintenance of trees and shrubs used in urban settings will be addressed.

## HORT 220

**Turf and Landscape Management. . . . . 4.0 Credits**  
A course in the principles and practices of landscape installation and management. Students will survey the landscape industry; learn the biology and management of turf grasses, and interior plantscape management including soil preparation, planting, maintenance, and pest identification and management. Prerequisite: concurrent enrollment in HORT 2201.

## HORT 2201

**Turf and Landscape Management Lab . . . . . 1.0 Credit**  
A course in the principles and practices of landscape installation and management. Students will survey the landscape industry; learn the biology and management of turf grasses and interior plantscape management, including soil preparation, planting, maintenance, and pest identification and management. Prerequisite: concurrent enrollment in HORT 220.

## HORT 230

**Tree Fruit Technology . . . . . 5.0 Credits**  
Introduction to the horticultural principles and practices used in deciduous tree fruit production and orchard management. Topics include cultivars, rootstocks, climate and environment, orchard systems, orchard establishment, pruning and training, flowering, pollination, fruit set, fruit growth and thinning, fruit maturation, harvest and storage, hardiness, and acclimation.

## HORT 234

**Small Fruit Technology . . . . . 5.0 Credits**  
An introduction to the cultivation of plants bearing edible fruit of small to moderate size. Small fruits produced in the Pacific Northwest will be emphasized. Cultural, financial, and environmental factors will be addressed. Uses of fruit produced from fresh consumption to medicinal extracts, will be discussed.

## HORT 235

**Greenhouse Management . . . . . 5.0 Credits**  
A course designed to present the principles and practices of greenhouse production and management. Students will survey the greenhouse industry; learn the biology and management of greenhouse plants and interior plantscape management, including soil preparation, planting, maintenance, and pest identification and management.

## HORT 240

**Aquaculture Technology . . . . . 5.0 Credits**  
An introduction to the basic principles of aquaculture. Examples of major aquatic plant and animal species cultured in fresh, brackish, and marine ecosystems will be discussed. Production and uses of flowering plant materials, methods of production, cultural practices, and environmental factors will be emphasized. Specific reference to selected freshwater species of commercially cultured animals, their culture, and uses, will complete the course.

## HORT 242

**Hydroponic Technology . . . . . 5.0 Credits**  
An introduction to the production and uses of liquid (soil less) culture media to produce plant materials. Methods of production, cultural practices, and environmental factors will be emphasized. Specific reference to selected plants, growth media, their culture and uses, will complete the course.

## HORT 245

**Floriculture . . . . . 4.0 Credits**  
An introduction to the production and uses of flowering plant materials. Methods of production, cultural practices, and environmental factors will be emphasized. Specific reference to selected flowering plants, their culture, and uses, will complete the course. Prerequisite: concurrent enrollment in HORT 2451.



## HORT 2451

### Floriculture Lab. . . . . 1.0 Credit

An introduction to the production and uses of flowering plant materials. Methods of production, cultural practices, and environmental factors will be emphasized. Specific reference to selected flowering plants, their culture, and uses, will complete the course. Prerequisite: concurrent enrollment in HORT 245.

## HORT 251

### Plant Propagation. . . . . 4.0 Credits

An introduction to the methods of plant propagation including methods of propagating by true seed, bulbs, divisions, layering, cuttings, budding, grafting, and micro-propagation. Emphasis is placed on the basic principles necessary to furnish an adequate understanding for commercial and industrial application. Prerequisite: concurrent enrollment in HORT 2511.

## HORT 2511

### Plant Propagation Lab. . . . . 1.0 Credit

An introduction to the methods of plant propagation including methods of propagating by true seed, bulbs, divisions, layering, cuttings, budding, grafting, and micro-propagation. Emphasis is placed on the basic principles necessary to furnish an adequate understanding for commercial and industrial application. Prerequisite: concurrent enrollment in HORT 251.

## Human Services

## HS 101

### Introduction to Social Work. . . . . 5.0 Credits

An overview of social work experience including history, purpose and tasks, practice settings, and future trends of social work profession.

## HS 102

### Counseling: Theory & Practice . . . . . 5.0 Credits

Introduction to psychopathology, personality theory, assessment, and counseling theories. The course will include some demonstration techniques associated with the therapies as well as an opportunity for student involvement and role play.

## HS 103

### Ethical & Legal Issues in Human Services/Chemical Dependency. 3.0 Credits

The course is intended to help the human services worker identify, understand, and deal with the professional ethical issues, dilemmas, and laws that most affect the human service practitioner in a variety of settings.

## HS 104

### Community Resources . . . . . 3.0 Credits

Introduction to publicly and privately funded social services. The services provided by the agencies will be reviewed. Students will also learn how to facilitate an appropriate referral and act as an effective advocate for people in need.

## HS 105

### Crisis Intervention. . . . . 3.0 Credits

The course is intended to introduce crisis theory and techniques for beginning counselors. Emphasis will be placed on areas causing stress such as psychiatric emergencies, sexual assault, incest, battered women, death and dying, and loss. Assessment techniques and in-depth interviewing skills will also be covered along with time spent on the actual practice of crisis intervention.

## HS 110

### HIV/AIDS Brief Risk Intervention . . . . . 1.0 Credit

Overview of interview/listening skills and counseling theories unique to the chemically dependent person (adult as well as child/adolescent) who is infected with HIV/AIDS or other bloodborne pathogens. Areas to be covered: etiology of HIV, transmission and infection control, testing and counseling, clinical manifestations and treatment, legal and ethical issues, and psychosocial issues. This course is required by the Washington State Department of Health for certification as a Chemical Dependency Counselor.

## HS 120

### Drug/Alcohol Counseling Techniques. . . . . 3.0 Credits

Overview of interview/listening skills and counseling theories unique to the chemically dependent person and family members. Introduction to self-help support systems and developmental aspects of coping skills to maintain a clean and sober lifestyle.

## HS 122

### Alcohol/Drug Group Process. . . . . 5.0 Credits

Practical basics of group work as applied to alcohol/drug and co-dependency treatment. Dynamics of group interaction, composition, goal-setting, and group topic development to be included. Experiential learning opportunity provided.

## HS 124

### Case Management of Chemically Dependent Client . . . . . 3.0 Credits

Understanding coordination of assessment, treatment planning, resource identification, service implementation, monitoring progress, legal documentation requirements, and evaluation of the chemically dependent patient.

## HS 202

### Therapeutic Approaches & Techniques . . . . . 5.0 Credits

Introduction to basic counseling skills. The course will deal with principles, concepts, and processes of counseling. Counseling skills are demonstrated and practiced.

## HS 220

### Advanced Counseling. . . . . 5.0 Credits

Designed for the individual who is involved in the field of therapeutic counseling of chemically dependent patients, their families, and significant others. Advanced skills are introduced and practiced in class sessions. Includes brief review of basic interviewing skills. Special attention to issues regarding nonverbal language and counselor ethics. Prerequisite: HS 120.

## HS 222

### Alcohol/Drug Pharmacology/Physiology . . . . . 3.0 Credits

Physical response of the human body to alcohol and other drugs, current research findings, basic information and terminology essential for working on treatment teams with physicians and nurses and for communicating with patients and families.

## HS 224

### Chemical Dependency in the Family . . . . . 5.0 Credits

Study of family dysfunction and family therapy models focusing on empowerment of family members. Introduction to dynamics of co-dependency, family intervention, and support programs.

## HS 231

### Adolescent Chemical Dependency Assessment

### & Counseling Techniques. . . . . 3.0 Credits

This course will explore in depth the various needs of the chemically dependent adolescent, including specific assessment and counseling techniques. Models of adolescent chemical dependency treatment will be studied as well as their effectiveness.

## HS 232

### Relapse Prevention . . . . . 3.0 Credits

The course will provide a comprehensive understanding of the problems of relapse, models of relapse, assessment of relapse, relapse management, and relapse prevention.

## HS 233

### Chemical Dependency and the Law . . . . . 3.0 Credits

This course will allow the student to have an enhanced understanding of the legal ramifications of chemical dependency. Topics that will be covered are ethical and legal obligations and limitations of the chemical dependency counselor, search and seizure law practices, domestic law as related to chemical dependency, the influence and effect of drugs on the criminal justice and corrections systems, and other related topics.



## HS 240

### Survey of Chemical Dependency . . . . . 3.0 Credits

This course is designed to provide the student with a basic knowledge of chemical dependency, disease concepts, theories of addiction, rates of prevalence, and problems associated with addiction.

## HS 241

### Advanced Adolescent Chemical Dependency

### Assessment & Counseling . . . . . 5.0 Credits

This course will expand the knowledge gained in HS 231 and will provide additional experience with adolescent addictions theory. Specific course topics will include advanced adolescent assessment, adolescent and child development in relation to alcohol/drug use, and advanced assessment and treatment of the culturally diverse youth as required by Washington Administrative Code for Youth Chemical Dependency Counselors (YCDC.)

## HS 2972

### Alcohol/Drug Practicum . . . . . 1.0 - 6.0 Credits

Students will acquire practical experience within a qualified chemical dependency agency to assist in utilizing skills learned within the classroom.

## Industrial Drawing

## DRW 106

### Mechanical Drawing for Vocational Application . . . . . 3.0 Credits

A basic course in the technique of sketching and drawing. Welding students will learn to create orthographic, oblique, and isometric renderings. The course also teaches dimensioning for the welding shop fabrication drawings.

## Intercultural Studies

## ICS 120

### Survey of Hispanic Culture [H] . . . . . 5.0 Credits

An introduction to the culture and civilization of the Spanish-speaking world; taught in English.

## ICS 130

### Survey of Asian American Culture [H]. . . . . 5.0 Credits

This course offers an introduction to the history and people of Asian descent in the United States. The class will cover the ethnic, national, cultural, and religious diversity of Americans who trace their culture and/or origins to Asia as well as the immigration and acculturation of members of these populations.

## ICS 222

### Columbia Basin Cultures [H]. . . . . 5.0 Credits

A study of the history and contemporary situation of the Columbia Basin with special attention paid to Native Americans, Hispanic Americans, Asian Americans, and African Americans. Important topics include early settlement, labor relations, race relations, and historic and modern patterns of migration.

## ICS 255

### Race and Ethnic Relations [S/B] . . . . . 5.0 Credits

Relationships among various ethnic and racial groups in America, patterns of immigration, assimilation and mobility, and inter-ethnic conflicts and coalitions will be examined. Although the perspective is historical, contemporary data will be used to explore the question of the persisting impact of ethnicity. Special attention will be paid to the relationship between ethnicity and social class.

## Japanese Common Course

## JAPN& 121

### Japanese I [H] . . . . . 5.0 Credits

Introduction to the Japanese language including speaking and listening skills, reading, writing, and grammar, and the Japanese culture including geography, customs, daily life, and heritage. Designed for the novice learner of Japanese, with little or no proficiency in the Japanese language. Recommended that students have successfully completed at least ENGL 099. (Previously JPSE 101.)

## JAPN& 122

### Japanese II [H] . . . . . 5.0 Credits

Introduction to the Japanese language including speaking and listening skills, reading, writing, grammar, and the Japanese culture including geography, customs, daily life, and heritage. Prerequisite: JAPN& 121 or instructor's permission. (Previously JPSE 102.)

## JAPN& 123

### Japanese III [H]. . . . . 5.0 Credits

Introduction to the Japanese language including speaking and listening skills, reading, writing, grammar, and the Japanese culture including geography, customs, daily life, and heritage. Prerequisite: JAPN& 122 or instructor's permission. (Previously JPSE 103.)

## JAPN& 221

### Japanese IV [H] . . . . . 5.0 Credits

Extensive practice in all four language skills (reading, writing, speaking, and listening). The course includes cultural readings and includes an in-depth review of basic Japanese grammar, expansion of basic vocabulary, and a broadening of the student's understanding of Japanese culture (including geography, customs, daily life, and heritage). Prerequisite: JAPN& 123 or instructor's permission. (Previously JPSE 201.)

## JAPN& 222

### Japanese V [H] . . . . . 5.0 Credits

Extensive practice in all four language skills (reading, writing, speaking, and listening). The course includes cultural readings and in-depth review of basic Japanese grammar, expansion of basic vocabulary, and a broadening of the student's understanding of Japanese culture. Prerequisites: JAPN& 221 or instructor's permission. (Previously JPSE 202.)

## JAPN& 223

### Japanese VI [H] . . . . . 5.0 Credits

Extensive practice in all four language skills (reading, writing, speaking, and listening). The course includes cultural readings and in-depth review of basic Japanese grammar, expansion of basic vocabulary, and a broadening of the student's understanding of Japanese culture. Prerequisites: JAPN& 222 or instructor's permission. (Previously JPSE 203.)

## Machine Technology

## MT 102

### Solid Works for Machine Technology . . . . . 5.0 Credits

This course is an introduction to solidworks design software. The course's intent is to guide students through the software so they develop an understanding of how parts are designed as well as the concepts of blueprint construction/reading. We are stressing the principles of geometric construction and constraints such as perpendicularity, concentricity, and parallelism so the student will be able to understand the workings of a precision model. Prerequisite: CA 100 or instructor's permission.

## MT 111

### Basic Machine Tech I . . . . . 5.0 Credits

This course is designed to give students skills in using measuring instruments and concepts of machining with a metal lathe. Upon completion of this course, the student should know how to turn and measure diameters within .001", cut threads, knurl, and cut tapers. Student will take ASSET test first week of class if not previously taken.



<p><b>MT 1111</b>  <b>Basic Machine Tech I Lab</b> . . . . . <b>1.0 - 9.0 Credits</b>            Work on projects using the lathe to practice the concepts taught in the class.</p> <p><b>MT 121</b>  <b>Basic Machine Tech II</b> . . . . . <b>5.0 Credits</b>            This course is designed to build skills and knowledge on vertical and horizontal milling machine. Upon completion, the student should be able to set up a milling machine to cut features with a tolerance of .001". Prerequisite: MT 111 or instructor's permission.</p> <p><b>MT 1211</b>  <b>Basic Machine Tech II Lab</b> . . . . . <b>1.0 - 9.0 Credits</b>            Work on projects using the lathe and milling machine to practice the concepts taught in class. Prerequisite: MT 1111 or instructor's permission.</p> <p><b>MT 131</b>  <b>Basic Machine Tech III</b> . . . . . <b>5.0 Credits</b>            This course is designed to build skills and knowledge on a vertical milling machine. Upon completion of this course, the student should be able to set up the machine and cut project within a .001" tolerance. Prerequisite: MT 121 or instructor's permission.</p> <p><b>MT 1311</b>  <b>Basic Machine Tech III Lab</b> . . . . . <b>1.0 - 9.0 Credits</b>            Work on projects using the lathe and milling machine to practice the concepts taught in the class. Prerequisite: MT 1211 or instructor's permission.</p> <p><b>MT 201</b>  <b>Introduction to Engineering Material Science</b> . . . . . <b>5.0 Credits</b>            As an introductory course, the goal is to learn the fundamental nature of engineered materials as applied to a Machine Technology Certificate or as a qualifying transfer class to a bachelor program. Instruction will start with the basics of how materials are organized on the atomic, microscopic, and macroscopic levels, and how and why these produce a finished project. Though this course is more practical to the common processes used today, it will also introduce new trends in materials manufacturing for sustainability, automation, and some of the recent developments in materials science using polymers, composites, ceramics, and advanced metal alloys. Materials science and engineering is an exciting field and an understanding of it is vital for technologists and engineers alike.</p> <p><b>MT 211</b>  <b>Advanced Machine Tech I</b> . . . . . <b>5.0 Credits</b>            This course is designed to build skills and knowledge in Computer Numerical Controlled (CNC) milling. Upon completion of this course, the student should be able to program, set up, and operate a CNC milling machine. Prerequisite: MT 131 or instructor's permission.</p> <p><b>MT 2111</b>  <b>Advanced Machine Tech I Lab</b> . . . . . <b>1.0 - 9.0 Credits</b>            Work on projects using the lathe and milling machine to practice the concepts taught in class. Prerequisite: MT 211 or instructor's permission.</p> <p><b>MT 221</b>  <b>Advanced Machine Tech II</b> . . . . . <b>5.0 Credits</b>            This course is designed to build skill and knowledge in CNC. Upon completion of this course, the student should be able to program, set up, and operate CNC equipment. Prerequisite: MT 211 or instructor's permission.</p> <p><b>MT 2211</b>  <b>Advanced Machine Tech II Lab</b> . . . . . <b>9.0 Credits</b>            Work on projects using the CNC to practice the concepts taught in class. Prerequisite: MT 2111 or instructor's permission.</p>	<p><b>MT 231</b>  <b>Advanced Machine Tech III</b> . . . . . <b>5.0 Credits</b>            This course is designed to build skill and knowledge in Computer Aided Manufacturing (CAM). Upon completion of this course, the student should be able to draw a part in a solid modeling software, write a program with the CAM system, and machine the part on a CNC. Prerequisite: MT 221 or instructor's permission.</p> <p><b>MT 2311</b>  <b>Advanced Machine Tech III Lab</b> . . . . . <b>9.0 Credits</b>            Work on projects using Solidworks, CAM system, and CNC milling machine to practice the concepts taught in class. Prerequisite: MT 2211 or instructor's permission.</p> <p><b>MT 291</b>  <b>Basic Tool/Die</b> . . . . . <b>1.0 - 18.0 Credits</b>            This course is designed to teach students the basics of tool and die. The students work on various projects in tool and die design using CAD/CAM and CNC machines.</p> <hr/> <p><b>Mathematics</b></p> <hr/> <p><b>MATH 080</b>  <b>Whole Numbers</b> . . . . . <b>1.0 Credit</b>            Addition, subtraction, multiplication, and division. Class is held in the Learning Opportunities Center (LOC) where instruction is a lab format unless otherwise noted. Prerequisite: ASSET score between 23-28 or COMPASS score between 1-19. (Previously MTH 080.)</p> <p><b>MATH 081</b>  <b>Fractions</b> . . . . . <b>1.0 Credit</b>            Fraction operations and word problems. Class is held in the Learning Opportunities Center (LOC) where instruction is a lab format unless otherwise noted. Prerequisite: ASSET score between 29-32 or COMPASS score between 20-27. (Previously MTH 081.)</p> <p><b>MATH 082</b>  <b>Measures/Decimals/Percentages</b> . . . . . <b>2.0 Credits</b>            Decimals, ratios, proportions, percents, measurements, and graphs. Class is held in the Learning Opportunities Center (LOC) where instruction is a lab format unless otherwise noted. Prerequisite: MATH 081. (Previously MTH 082.)</p> <p><b>MATH 083</b>  <b>Review Basics</b> . . . . . <b>2.0 Credits</b>            A review of whole numbers, fractions, decimals, percents, power and square roots, measurement and metrics, word problems (fractions, decimals, percentages), and tables and graphs. Class is held in the Learning Opportunities Center (LOC) where instruction is a lab format unless otherwise noted. Prerequisite: ASSET score between 33-37 or COMPASS score between 28-43. (Previously MTH 083.)</p> <p><b>MATH 084</b>  <b>Algebra/Geometry</b> . . . . . <b>2.0 Credits</b>            This introductory course includes signed number operations, algebraic concepts, ratio and proportion, rectangular coordinates, angles, triangles, and area and volume. For the student who has never taken algebra or who needs a refresher before enrolling in MATH 091. Prerequisite: MATH 082 with appropriate TABE test score or MATH 083 or ASSET 38-40/COMPASS 44-50 placement. (Previously MTH 084.)</p>
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## MATH 093

### Vocation Review . . . . . 3.0 Credits

This course is primarily coverage of high school shop math and elementary algebra. Topics include measurement principles such as fractional measure calculations plus decimals, conversion of metric to standard and vice versa using various measuring devices, area and volume formulas of complex shapes, solution of linear equations and inequalities for industry application, along with reading of graphs intended for industrial usage, and designed to meet deficiencies in computing measure for vocational applications. This course is for vocational students entering the various vocational disciplines, not intended to replace or augment MATH 096, MATH 097, MATH 098, or MATH 095. Prerequisite: MATH 084 or ASSET test placement at MATH 096 or better and a grade of 2.5 or above.

## MATH 095

### Intermediate Algebra. . . . . 5.0 Credits

This course is a rapid coverage of high school-level algebra. Topics include integer and rational exponents, operations with polynomials and factoring, operations with rational and radical expressions, solving quadratic and rational equations, graphs of lines and parabolas, systems of equations, complex numbers, functions, and applications of all of the aforementioned. Prerequisite: 2.0 or better in MATH 097 is acceptable but not advised or ASSET/COMPASS test placement. (Previously MTH 095.)

## MATH 096

### Algebra Review 1 . . . . . 5.0 Credits

The first course of a three-quarter sequence (MATH 096, MATH 097, MATH 098) which covers elementary and intermediate algebra. Topics include operations with real numbers, solutions of linear equations and inequalities, graphing lines, and applications of the aforementioned. Prerequisite: MATH 084 or ASSET/COMPASS test placement. (Previously MTH 096.)

## MATH 097

### Algebra Review 2 . . . . . 5.0 Credits

The second course of a three-quarter sequence (MATH 096, MATH 097, MATH 098) which covers elementary and intermediate algebra. Topics include operations with polynomials, factoring polynomials, solving equations by factoring, exponents, scientific notation, operations with rational expressions, solving rational equations, and applications of all of the aforementioned. Prerequisite: grade of 2.0 or better in MATH 096 or ASSET/COMPASS test placement. (Previously MTH 097.)

## MATH 098

### Algebra Review 3 . . . . . 5.0 Credits

The third course of a three-quarter sequence (MATH 096, MATH 097, MATH 098) which covers Elementary and Intermediate Algebra. Topics include: graphs of lines and parabolas, systems of equations, operations with radical expressions, complex numbers, solving quadratic equations, functions, and applications of the aforementioned. A grade of 2.0 or better in this class will satisfy the Intermediate Algebra proficiency requirement for the AA degree. Prerequisite: grade of 2.0 or better in MATH 097. (Previously MTH 098.)

## MATH 100

### Algebraic Tools for Vocational Application . . . . . 2.0 Credits

The first course of a three-quarter sequence designed to introduce the vocational student to the tools necessary to solve mathematical problems applicable to the student's trade. Topics include operations with natural numbers, integers, and rational numbers; introduction to set theory; solving linear equations; linear. Prerequisite: ASSET test placement at MATH 096 or 2.5 or higher in MATH 092. (Previously MTH 100.)

## MATH 102

### Geometric Tools for Vocational Application. . . . . 3.0 Credits

The second course of a three-quarter sequence designed to introduce the vocational student to the tools necessary to solve mathematical problems applicable to the student's trade. Topics include fundamental instruction in plane and solid geometry including linear, area, and volumetric calculations of various composite shapes. Prerequisite: 2.0 or higher in MATH 100. (Previously MATH 102.)

## MATH 106

### Business Mathematics . . . . . 5.0 Credits

Mathematical concepts used in business such as interest, buying, selling, and depreciation. Required by some majors for AAS degree; does not satisfy math requirement for AA degree. This course does not satisfy the prerequisite requirements for courses requiring MATH 095. Prerequisite: MATH 084 or ASSET/COMPASS test placement. (Previously MTH 106.)

## MATH 108

### Math for Early Childhood Education . . . . . 5.0 Credits

An elementary introduction to problem solving, fractions and decimals, probability and statistics, geometry and measurement, and functions and graphs. Intended for early childhood and para education majors only. Prerequisite: MATH 084 or ASSET/COMPASS test placement. (Previously MTH 108.)

## MATH 109

### Trigonometric Tools for Vocational Application . . . . . 3.0 Credits

The third course of a three-quarter sequence designed to introduce the vocational student to the mathematical tools necessary to solve problems applicable to the student's trade. Topics include trigonometric functions, emphasis on right angle triangles; law of sines; law of cosines; solving oblique triangles; and vectors. Prerequisite: 2.0 or higher in MATH 102. (Previously MTH 109.)

## MATH 111

### Automotive Math . . . . . 5.0 Credits

Mathematical concepts listed in the automotive trades including algebraic functions, geometry, interest, discounts, brief review of micrometer reading, and the physics of engine design. Required by Automotive Technology for AAS degree; does not satisfy math requirement for AA degree. Prerequisite: MATH 084 or COMPASS test placement. (Previously MTH 111.)

## MATH 112

### Machinist Math. . . . . 5.0 Credits

A mathematic course designed to assist the machine student with the tools necessary to solve problems associated with the field of endeavor-the machine shop. Topics include algebraic manipulation of equations, both linear and quadratic with graphs. The use of ratios, direct, and inverse proportions especially in relation to gears. Introduction to geometric principles, volumes of various shapes, right angle, and oblique trigonometry required for Machine Technology for AAS degree; does not satisfy math requirement for AA degree. Prerequisite: grade of 2.0 or better in MATH 095 or MATH 098, or permission of program lead with input from instructor.

## MATH 113

### Geometry/Trigonometry [M/S]. . . . . 5.0 Credits

Areas and volumes of basic geometric figures, approximations, ratio and proportions, literal equations, scientific notation, vectors, logarithms, complex numbers, trigonometric functions, and graphs of trigonometric functions. Recommended for students intending to take PHYS& 121. Prerequisite: grade of 2.0 or better in MATH 095, MATH 098, or ASSET/COMPASS test placement. (Previously MTH 113.)

## MATH 121

### Structure of Elementary Math [M/S] . . . . . 5.0 Credits

An introduction to problem solving principles and strategies, sets and logic, numeration systems, properties of the real number system and its subsystems, and applications of mathematics. Primarily for elementary education majors. This course satisfies the quantitative skills requirement for the AA degree provided that MATH 122 is also successfully completed. Prerequisite: grade of 2.0 or better in MATH 095, MATH 098, or ASSET/COMPASS test placement. (Previously MTH 121.)



## MATH 122

### Informal Geometry/Elementary Teachers [M/S][Q/SR] . . . . . 5.0 Credits

An informal approach to the basic ideas of geometry; including construction, congruence and similarity, transformations, symmetry, measurement, and coordinate geometry. This course satisfies the quantitative skills requirement for the AA degree, provided that MATH 121 has also been successfully completed. Prerequisite: grade of 2.0 or better in MATH 121. (Previously MTH 122.)

## MATH 123

### Algebra/Probability/Stats Elementary [M/S][Q/SR] . . . . . 5.0 Credits

An elementary introduction to algebraic reasoning, probability, and statistics. Primarily for elementary education majors. This course satisfies the quantitative skills requirement for the AA degree, provided that MATH 121 has been successfully completed. Prerequisite: grade of 2.0 or better in MATH 121. (Previously MTH 123.)

## MATH 147

### Finite Math [M/S] [Q/SR] . . . . . 5.0 Credits

Fundamental concepts of mathematics emphasizing appreciation and respect for precise definitions and logical reasoning. A course especially suited for students in the behavioral, managerial, and social sciences. Topics include matrices, systems of linear equations and inequalities, finance, probability, and counting techniques, game theory, decision analysis, and Markov chains. Prerequisite: grade of 2.0 or better in MATH 095, MATH 098, or ASSET/COMPASS test placement. (Previously MTH 147.)

## MATH 243

### Linear Algebra [M/S] [Q/SR] . . . . . 5.0 Credits

Designed for the physical science majors in fields such as mathematics, engineering, and physics. Topics include vectors, matrices and determinants, lines and planes in 3-space, linear systems, vector spaces, linear transformations, eigenvalues, and eigenvectors. Prerequisite: grade of 2.0 or better in MATH& 151. (Previously MTH 243.)

## MATH 246

### Discrete Structures [M/S] [Q/SR] . . . . . 5.0 Credits

This course is an introduction to discrete mathematics, trees, graphs, elementary logic, and combinatorics with applications to computer science. Prerequisite: grade of 2.0 or better in MATH& 141. A knowledge of computers, programming, and calculus would be beneficial but is not required. (Previously MTH 246.)

## MATH 255

### Differential Equations [M/S] [Q/SR] . . . . . 5.0 Credits

Beginning course in differential equations. Topics include first order methods, linear differential operators, laplace transforms, series methods, and numerical techniques. Prerequisite: MATH& 153 or equivalent. MATH& 153 may be taken concurrently. (Previously MTH 254.)

## Mathematics Common Course

### MATH& 107

#### Math In Society [M/S] [Q/SR] . . . . . 5.0 Credits

This class is designed for the student who has successfully completed intermediate algebra. The course will attempt to make mathematics enjoyable, practical, understandable, and informative using a variety of real-life applications. Topics include linear, quadratic, exponential, and logarithmic models, geometry, tessellations, fractals, logic, interest, annuities, loans, probability, and statistics. The class will satisfy the quantitative skills requirement for the AA degree. Prerequisite: grade of 2.0 or better in MATH 095, MATH 098, or ASSET/COMPASS test placement. (Previously MTH 130.)

## MATH& 141

### Precalculus I [M/S] [Q/SR] . . . . . 5.0 Credits

Designed to prepare the student for entry into Basic Calculus. Precalculus I together with Precalculus II is designed to prepare the student for entry into the calculus sequence: MATH& 151, MATH& 152, MATH& 153, and MATH& 254. The topics include absolute value, complex numbers, linear and quadratic equations, rational, polynomial, exponential and logarithmic functions, inverse functions, theory of equations, and sequences and series. Prerequisite: grade of 2.0 or better in MATH 095, MATH 098, or ASSET/COMPASS test placement. Students completing MATH& 141 may not receive graduation credit for MATH& 144. (Previously MTH 154.)

## MATH& 142

### Precalculus II [M/S] [Q/SR] . . . . . 5.0 Credits

Precalculus II is the second quarter of the precalculus sequence. Precalculus II is predominantly trigonometry. The topics include trigonometric functions and their inverses, solving triangles, circular functions, identities, conditional equations, complex numbers in polar form, conic sections, parametric and polar equations, systems of equations, matrices and determinants, and vectors. Prerequisite: grade of 2.0 or better in MATH& 141. Students completing MATH& 142 may not receive graduation credit for MATH& 144. (Previously MTH 155.)

## MATH& 144

### Precalculus I & II [M/S] [Q/SR] . . . . . 5.0 Credits

Precalculus I & II is a condensed, accelerated combination of Precalculus I and Precalculus II. Selected topics from Precalculus I and Precalculus II are covered in one quarter, allowing the better prepared student to complete the precalculus preparation in one quarter rather than two. The topics include polynomial, rational, logarithmic, and circular functions. Also, analytic geometry, complex numbers, vectors, and sequences and series. Prerequisite: ASSET/COMPASS test placement or instructor's permission. Students completing MATH& 144 may not receive graduation credit for MATH& 141 and/or MATH& 142. (Previously MTH 157.)

## MATH& 146

### Introduction to Stats [M/S] [Q/SR] . . . . . 5.0 Credits

A course especially suited for the non-physical science major such as business, behavioral sciences, computer science, etc. A study of both descriptive and inferential statistics. It includes measures of central tendency, probability, sampling methods, hypothesis testing, linear regression, and correlation. Prerequisite: grade of 2.0 or better in MATH 095, MATH 098, or ASSET/COMPASS test placement. (Previously MTH 143.)

## MATH& 148

### Business Calculus [M/S] [Q/SR] . . . . . 5.0 Credits

Designed for non-physical science majors such as business, management, behavioral science, and social science. Topics include relations, functions, exponential and logarithmic functions, derivatives and their applications, integrals and their applications, and functions of several variables. Prerequisite: grade of 2.0 or better in MATH& 141 or ASSET/COMPASS test placement. (Previously MTH 210.)

## MATH& 151

### Calculus I [M/S] [Q/SR] . . . . . 5.0 Credits

The first course in the sequence for students whose major field of study requires a full year of calculus. Topics include limits of algebraic and trigonometric expressions, the derivatives of algebraic and trigonometric functions, applications of the derivative, and an introduction to antiderivatives and the definite and indefinite integral. Prerequisites: Grade of 2.0 or better in MATH& 141 and MATH& 142 or MATH& 144 or ASSET/COMPASS test placement. (Previously MTH 231.)

## MATH& 152

### Calculus II [M/S] [Q/SR] . . . . . 5.0 Credits

A continuation of MATH& 151. Topics include applications of the definite integral; differentiation and integration of logarithmic, exponential, and inverse trigonometric functions; hyperbolic functions and their inverses, techniques of integration; indeterminate forms and improper integrals. Prerequisite: grade of 2.0 or better in MATH& 151 or equivalent. (Previously MTH 232.)



## MATH& 153

### Calculus III [M/S] [Q/SR] . . . . . 5.0 Credits

A continuation of MATH& 152. Topics include infinite sequences and series, conics, parametric equations, polar coordinates, arc length, vectors in two and three dimensions, surfaces, cylindrical coordinates, and spherical coordinates. Prerequisite: grade of 2.0 or better in MATH& 152 or equivalent. (Previously MTH 233.)

## MATH& 254

### Calculus IV [M/S] [Q/SR] . . . . . 5.0 Credits

An introduction to the calculus applied to functions of two or three variables. Topics include functions of several variables, partial derivatives, differentials, directional derivatives, multiple integration, vector fields, line integrals, Green's Theorem, surface integrals, the Divergence Theorem, and Stokes's Theorem. Prerequisite: grade of 2.0 or better in MATH& 153 or equivalent. (Previously MTH 234.)

## Medical Assistant

### MA 111

#### Pharmacology I . . . . . 5.0 Credits

This class will provide a basic knowledge of pharmacology including the legal, ethical issues, the terms and abbreviations, the involvement of governmental agencies, the role of the providers and allied health professional, reading, interpreting, and documenting the medication orders; and the effects of medication and common drugs used with each body system including antineoplastics, analgesics, antipyretics, nutritional supplements, and alternative medicines. Prerequisites: MATH 082 or ASSET score of MATH 083. Required admission into the Medical Assistant program. Information available at the Health Sciences Division office, (509) 544-8300.

### MA 114

#### Human Body Structure, Function and Diseases I . . . . . 4.0 Credits

This is the first of two structure and function classes introducing cellular function, organ systems of the body, the anatomy and physiology of the integumentary, skeletal, muscular, nervous, endocrine systems, the senses and the blood, and the common diseases and their pathology of each of these body systems. Prerequisites: AOT 147/HIT 147. Required admission into the Medical Assistant program. Information available at the Health Sciences Division office, (509) 544-8300.

### MA 115

#### Clinical Procedures Theory I . . . . . 4.0 Credits

This class provides a theoretical foundation in medical asepsis and infection control, vital signs, phlebotomy, the medical record, physical agents to promote tissue healing, radiology, sterilization and disinfection, minor office surgery, eye and ear assessment and procedures, the physical examination, and hematology. Required admission into the Medical Assistant program. Information available at the Health Sciences Division office, (509) 544-8300.

### MA 115I

#### Clinical Procedures Lab I . . . . . 4.0 Credits

This lab class provides for a practice in basic patient exam techniques/procedures/lab tests commonly performed in the physician's office or clinic. Lab to be taken concurrently with MA 115. Required admission into the Medical Assistant program. Information available at the Health Sciences Division office, (509) 544-8300.

### MA 140

#### Administrative Medical Assistant Office Procedures I . . . . . 5.0 Credits

This course will help define the front office roles and responsibilities of an Administrative Medical Assistant. Major topics covered are a history of the profession, communication, patient education, performing administrative office duties including reception, appointment scheduling, and the use of computers in the medical office. Required admission into the Medical Assisting program. Information available at the Health Sciences Division office, (509) 544-8300.

## MA 141

### Career Development for Medical Assistants . . . . . 2.0 Credits

This class will cover professionalism in a medical office, successful job search, interview techniques, the importance of networking, and how to be successful on the job. Required admission into the Medical Assistant program. Information available at the Health Sciences Division office, (509) 544-8300.

## MA 211

### Pharmacology II . . . . . 5.0 Credits

This is the second of two pharmacology classes. This class includes the administration of medication including safety and quality assurance, enteral, percutaneous, and parenteral routes of medication, medication for multi-system application, and medications related to body systems. Prerequisites: MATH 082 or ASSET score of MATH 083. Required admission into the Medical Assistant program. Information available at the Health Sciences Division office, (509) 544-8300.

## MA 214

### Human Body Structure, Function and Diseases II . . . . . 4.0 Credits

This is the second of two body classes and includes the circulatory system, lymphatic system and immunity, the respiratory system, the digestive system, nutrition and metabolism, the urinary system, fluid and electrolyte balance, acid-base balance, the reproductive system, growth and development, and the common diseases and their pathology of each of these body systems. Prerequisites: AOT 147/HIT 147. Required admission into the Medical Assistant program. Information available at the Health Sciences Division office, (509) 544-8300.

## MA 215

### Clinical Procedures Theory II . . . . . 4.0 Credits

This class provides a theoretical foundation for the gynecological exam and prenatal care pediatric exam, cardiopulmonary procedures, colon procedures, introduction to the clinical laboratory, urinalysis, phlebotomy, hematology, blood chemistry and serology, medical microbiology, and office emergencies. Required admission into the Medical Assistant program. Information available at the Health Sciences Division office, (509) 544-8300.

## MA 215I

### Clinical Procedures Lab II . . . . . 4.0 Credits

This class provides for a practice in basic patient exam techniques/procedures/lab tests commonly performed in the provider's office or clinic. Lab to be taken concurrently with MA 215. Required admission into the Medical Assistant program. Information available at the Health Sciences Division office, (509) 544-8300.

## MA 240

### Administrative Medical Assistant Office Procedures II . . . . . 5.0 Credits

This course will expand on front office roles and responsibilities of an administrative medical assistant. Major topics covered are introductory level bookkeeping, medical billing, medical banking services and procedures, management of practice finances, and the use of computers in the medical office. Required admission into the Medical Assistant program. Information available at the Health Sciences Division office, (509) 544-8300.

## MA 241

### Externship Seminar . . . . . 1.0 Credit

This course is to be taken concurrently with the Externship for medical assistants. The seminar will provide current information regarding workplace issues, technologies, and advancements in healthcare pertinent to the externship experience. Students will be engaged in discussions based on their experiential learning opportunities within the externship. Prerequisites: successful completion of all other Medical Assistant courses with a GPA of 2.0 or higher. Required admission into the Medical Assistant program. Information available at the Health Sciences Division office, (509) 544-8300.



## MA 2413

**Externship . . . . . 6.0 Credits**

This class provides an opportunity to apply the theory learned in the classroom setting to a healthcare setting through practical, hands-on experience. Prerequisites: successful completion of all other Medical Assistant courses with a GPA of 2.0 or higher. Required admission into the Medical Assistant program. Information available at the Health Sciences Division office, (509) 544-8300.

## Medical Imaging Technology

### IMAGE 100

**Bone Densitometry . . . . . 4.0 Credits**

An in-depth analysis of bone densitometry positioning, exposure techniques, quality control, film critiquing, and radiation safety. Prerequisites: currently enrolled in an approved Radiologic Technology program or ARRT Certified Radiologic Technologist.

### IMAGE 110

**Bone Densitometry Clinical Practicum . . . . . 4.0 Credits**

Students are assigned to a bone densitometry department for 132 hours to satisfy clinical competency requirements of the ARRT for eligibility to sit for the ARRT advanced level exam in bone densitometry. Prerequisites: currently enrolled in an approved Radiologic Technology program or ARRT Certified Radiologic Technologist.

### IMAGE 225

**Mammography . . . . . 4.0 Credits**

An in-depth analysis of mammographic positioning, exposure techniques, quality control, film critiquing, and radiation safety. Prerequisites: currently enrolled in an approved Radiologic Technology program or ARRT Certified Radiologic Technologist.

### IMAGE 229

**Mammography Clinical . . . . . 4.0 Credits**

Students are assigned to a mammography department for 132 hours to satisfy clinical competency requirements of the ARRT for eligibility to sit for the ARRT advanced level exam in mammography. Prerequisite: acceptance into the program.

### IMAGE 250

**Cross Sectional Anatomy . . . . . 3.0 Credits**

Course presents normal human anatomy in various planes using CT, MR, Interventional, and Cardiac Cath images. Prerequisites: currently enrolled in an approved Radiologic Technology program, ARRT Certified Radiologic Technologist, ARRT Certified Radiation Therapist, or NMTCB Certified Nuclear Medicine Technologist.

### IMAGE 251

**Advanced Sectional Anatomy . . . . . 2.0 Credits**

Designed for students having completed a cross-sectional anatomy course. Neuro and vascular anatomy and sectional images of joint and extremity body areas will be presented with CT and MRI images. Prerequisites: currently enrolled in an approved Radiologic Technology program, ARRT Certified Radiologic Technologist, ARRT Certified Radiation Therapist, or NMTCB Certified Nuclear Medicine Technologist.

### IMAGE 265

**Body Pathophysiology . . . . . 3.0 Credits**

Presents pathologies of the abdomen, chest, and neck with physiological implications pertinent to CT, MR, Interventional, and Cardiac Cath imaging modalities. Prerequisites: currently enrolled in an approved Radiologic Technology program, ARRT Certified Radiologic Technologist, ARRT Certified Radiation Therapist, or NMTCB Certified Nuclear Medicine Technologist.

## IMAGE 266

**Neuropathophysiology . . . . . 3.0 Credits**

Presents neurological-based pathologies and the related diagnostic/interventional procedures applied in evaluation and treatment of them. Prerequisites: currently enrolled in an approved Radiologic Technology program, ARRT Certified Radiologic Technologist, ARRT Certified Radiation Therapist, or NMTCB Certified Nuclear Medicine Technologist.

### IMAGE 270

**CT Clinical Practicum I . . . . . 12.0 Credits**

Provides hands-on experience in the clinical setting. Students perform designated tasks associated with CT scanning and procedures under direct and indirect supervision. Completion of this course prepares the student for entry-level work in a CT department. Prerequisites: currently enrolled in an approved Radiologic Technology program, ARRT Certified Radiologic Technologist, ARRT Certified Radiation Therapist, or NMTCB Certified Nuclear Medicine Technologist.

### IMAGE 271

**MRI Clinical Practicum II . . . . . 12.0 Credits**

Provides hands-on experience in the clinical setting. Students perform designated tasks associated with MRI scanning and procedures under direct and indirect supervision. Prerequisites: currently enrolled in an approved Radiologic Technology program, ARRT Certified Radiologic Technologist, ARRT Certified Radiation Therapist, or NMTCB Certified Nuclear Medicine Technologist.

### IMAGE 280

**CT Instrumentation . . . . . 3.0 Credits**

Designed to provide didactic preparation for advanced-level certification exam in CT scanning. Includes information pertaining to the equipment used, clinical application, specific technique applications, patient care, and quality control. Prerequisites: currently enrolled in an approved Radiologic Technology program, ARRT Certified Radiologic Technologist, ARRT Certified Radiation Therapist, or NMTCB Certified Nuclear Medicine Technologist.

### IMAGE 281

**MRI Instrumentation and Procedures . . . . . 3.0 Credits**

Presents the physics of magnetization, image production, image weighting, pulse responses, scanning procedures, magnet safety, and the role of the technologist. Prerequisites: currently enrolled in an approved Radiologic Technology program, ARRT Certified Radiologic Technologist, ARRT Certified Radiation Therapist, or NMTCB Certified Nuclear Medicine Technologist.

## Music

### MUSC 100

**Music Fundamentals . . . . . 3.0 Credits**

Non-major course covering basic concepts of rhythm, melody, keyboards, scales, and harmony. (Previously MUS 100.)

### MUSC 116

**History of Jazz [H] . . . . . 5.0 Credits**

The evolution of jazz and the development of black music in white America. This is an intercultural humanities course. Emphasis on listening and enjoyment through the use of recordings, attendance at concerts, and films. (Previously MUS 116.)

### MUSC 118

**Band . . . . . 1.0 - 2.0 Credits**

Instruction and performance of standard and contemporary wind literature. In all performing groups a maximum of six elective credits may be applied to an AA degree. (Previously MUS 118.)



## MUSC 122

**Applied Music** . . . . . **.1.0 Credit**  
Private lessons on wind, percussion, and keyboard instruments. Instruction may be by CBC faculty or by instructors approved by the CBC Music department. There may be additional fees charged by the instructor. These courses are intended for students who are pursuing a degree in music. (Previously MUS 122.)

## MUSC 123

**Applied Music** . . . . . **.1.0 Credit**  
Private vocal lessons. Instruction may be by CBC faculty or by instructors approved by the CBC Music department. There may be additional fees charged by the instructor. These courses are intended for students who are pursuing a degree in music. (Previously MUS 123.)

## MUSC 124

**Applied Music** . . . . . **.1.0 Credit**  
Private lessons on string instruments. Instruction may be by CBC faculty or by instructors approved by the CBC Music department. There may be additional fees charged by the instructor. These courses are intended for students who are pursuing a degree in music. (Previously MUS 124.)

## MUSC 125

**Orchestra** . . . . . **.1.0 Credit**  
Introduction in and performance of standard orchestral literature. In all performing groups a maximum of six elective credits can be applied to an AA degree. Prerequisites: orchestra instrument background and instructor's permission. (Previously MUS 125.)

## MUSC 134

**Piano Class** . . . . . **2.0 Credits**  
Group piano instruction for all students interested in beginning piano. Students may take more than one quarter. (Previously MUS 134.)

## MUSC 135

**Piano Class** . . . . . **2.0 Credits**  
Group piano instruction for music majors and minors who cannot meet entrance requirements in piano and for all students interested in beginning piano. (Previously MUS 135.)

## MUSC 136

**Piano Class** . . . . . **2.0 Credits**  
Group piano instruction for music majors and minors who cannot meet entrance requirements in piano and for all students interested in beginning piano. (Previously MUS 136.)

## MUSC 137

**Jazz Band** . . . . . **.1.0 - 3.0 Credits**  
Study, rehearse, and perform jazz, commercial, and big band literature. Performances required on and off campus. A maximum of six elective credits from this course can be applied to an AA degree. Prerequisite: audition and/or instructor's permission. (Previously MUS 137.)

## MUSC 138

**Voice Class** . . . . . **2.0 Credits**  
An introduction to the principles of voice production, vocal literature, and vocal techniques. (Previously MUS 141.)

## MUSC 139

**Voice Ensemble** . . . . . **.1.0 - 3.0 Credits**  
Emphasis on vocal ensemble literature. May include different types of ensembles/styles according to available voicing. Prerequisite: instructor's permission. (Previously MUS 142.)

## MUSC 140

**Vocal Jazz** . . . . . **.1.0 - 3.0 Credits**  
Emphasis on swing and vocal jazz concepts within a performance ensemble. Performances required on and off campus. In all performing groups a maximum of six elective credits from this course can be applied to an AA degree. Prerequisite: instructor's permission. (Previously MUS 140.)

## MUSC 147

**Instrument Ensemble** . . . . . **.1.0 Credit**  
The following ensembles will be organized if enrollment warrants: brass ensemble, woodwind ensemble, string ensemble, and mixed instrumental ensemble. A maximum of six elective credits from this course can be applied to an AA degree. (Previously MUS 147.)

## MUSC 151

**Brass Techniques** . . . . . **.1.0 - 3.0 Credits**  
Class instruction in fundamentals and materials for beginning students on brass instruments. Cornet, trumpet, French horn, baritone horn, trombone, sousaphone, and tuba. (Previously MUS 151.)

## MUSC 152

**Percussion Techniques** . . . . . **2.0 Credits**  
Class instruction in fundamentals and materials for beginning students on percussion instruments. (Previously MUS 152.)

## MUSC 153

**Woodwind Techniques** . . . . . **2.0 Credits**  
Class instruction in the fundamentals and materials for beginning students on woodwind instruments. Clarinet, saxophone, flute, oboe, and bassoon. (Previously MUS 153.)

## MUSC 154

**Woodwind & Flute** . . . . . **2.0 Credits**  
Class instruction in the fundamentals and materials for beginning students on woodwind instruments. Clarinet, saxophone, flute, oboe, and bassoon. (Previously MUS 154.)

## MUSC 155

**Wood/Oboe/Bassoon** . . . . . **2.0 Credits**  
Class instruction in the fundamentals and materials for beginning students on woodwind instruments. Clarinet, saxophone, flute, oboe, and bassoon. (Previously MUS 155.)

## MUSC 156

**Wood/Oboe/Bassoon** . . . . . **2.0 Credits**  
Class instruction in the fundamentals and materials for beginning students on woodwind instruments. Clarinet, saxophone, flute, oboe, and bassoon. (Previously MUS 156.)

## MUSC 161

**Beginning Folk Guitar** . . . . . **2.0 Credits**  
Group guitar instruction in the fundamentals of folk guitar playing for the beginner, including basic strums, chords, and note reading. (Previously MUS 161.)

## MUSC 162

**Intermediate Folk Guitar** . . . . . **2.0 Credits**  
Group intermediate guitar instruction for intermediate students. The student will cover various techniques in strumming, picking, movable chords, and musical styles; i.e., Calypso, Latin Strum, Bossa Nova. (Previously MUS 162.)

## MUSC 171

**Ear Training Fundamentals** . . . . . **.1.0 Credit**  
This class will focus on developing the skills to correctly identify major and minor scales, intervals, rhythmic patterns, and triads in root position. This class should be taken concurrently with MUSC& 141. Offered fall quarter only. (Previously MUS 171.)

## MUSC 172

**Ear Training Fundamentals** . . . . . **.1.0 Credit**  
This class will focus on developing the skills to correctly identify triads in 1st and 2nd inversion, basic chord progressions, and cadences. This class should be taken concurrently with MUSC& 142. Offered winter quarter only. (Previously MUS 172.)



## MUSC 173

### Ear Training Fundamentals . . . . . 1.0 Credit

This class will focus on developing the skills to correctly identify seventh chords (both in root position and inversion), diatonic chord progression, and simple melodies containing basic non-harmonic tones. This class should be taken concurrently with MUSC& 143. Offered spring quarter only. (Previously MUS 173.)

## MUSC 181

### Chorus. . . . . 1.0 - 3.0 Credits

Instruction and performance of standard choral literature from a variety of historical periods and cultures. Performances required on and off campus. Open to all students. A maximum of six credits from this course can be applied to an AA degree. (Previously MUS 181.)

## MUSC 207

### Music Literature Survey I. . . . . 3.0 Credits

The historical forms and styles of musical literature with emphasis on the style and period in relation to the cultural development. Classes need not be taken in sequence. Music from the Middle Ages through the Baroque (1750). Prerequisite: MUSC& 105. (Previously MUS 207.)

## MUSC 208

### Music Literature Survey II . . . . . 3.0 Credits

The historical forms and styles of musical literature with emphasis on the style and periods in relation to the cultural development. Music of the Classical and Romantic Periods (1750-1900). (Previously MUS 208.)

## MUSC 209

### Music Literature Survey III . . . . . 3.0 Credits

The historical forms and styles of musical literature with emphasis on the style and period in relation to the culture development. Music of the 20th century. (Previously MUS 209.)

## MUSC 210

### Electronic Music I . . . . . 3.0 Credits

A beginning course focusing on the study of musical sounds and MIDI synthetic sound productions through the use of digital synthesizers and sequencers. Prerequisites: one quarter of piano or demonstrated piano proficiency and instructor's permission. (Previously MUS 210.)

## MUSC 211

### Electronic Music II . . . . . 3.0 Credits

An intermediate course focusing on the study of musical sounds and synthetic sound productions through the use of digital synthesizer combined with MIDI sequencers. Prerequisite: MUSC 210 or instructor's permission. (Previously MUS 211.)

## MUSC 212

### Electronic Music III. . . . . 3.0 Credits

An advanced course focusing on the study of musical sounds and synthetic sound productions through the use of digital synthesizers and MIDI sequencers. Prerequisite: MUSC 211 or instructor's permission. (Previously MUS 212.)

## MUSC 2151

### Studio Problems Electronic Music . . . . . 3.0 Credits

Individual study for advanced students relating to music. Prerequisites: instructor's permission and successfully completed classes in area of individual study and/or demonstrated proficiency in area of individual study. (Previously MUS 2151.)

## MUSC 2152

### Studio Problems - Conducting . . . . . 3.0 Credits

Individual study for advanced students relating to conducting. Prerequisites: instructor's permission and successfully completed classes in area of individual study and/or demonstrated proficiency in area of individual study. (Previously MUS 2152.)

## MUSC 2153

### Studio Problems - Composition . . . . . 3.0 Credits

Individual study for advanced students relating to composition. Prerequisites: instructor's permission and successfully completed classes in area of individual study and/or demonstrated proficiency in area of individual study. (Previously MUS 2153.)

## MUSC 2154

### Studio Problems - Performance . . . . . 3.0 Credits

Individual study for advanced students relating to performance. Prerequisites: instructor's permission and successfully completed classes in area of individual study and/or demonstrated proficiency in area of individual study. (Previously MUS 2154.)

## MUSC 225

### Applied Music . . . . . 2.0 Credits

Advanced private vocal lessons. Instruction may be by CBC faculty or by instructors approved by the CBC Music department. There may be additional fees charged by the instructor. These courses are intended for students who are pursuing a degree in music. (Previously MUS 225.)

## MUSC 227

### Applied Music . . . . . 2.0 Credits

Advanced private instrumental lessons. Instruction may be by CBC faculty or by instructors approved by the CBC Music department. There may be additional fees charged by the instructor. These courses are intended for students who are pursuing a degree in music. (Previously MUS 227.)

## MUSC 236

### Piano Class/Music Majors . . . . . 2.0 Credits

Group piano instruction for music majors who cannot meet keyboard entrance requirements necessary for transfer to four-year institutions or for more advanced students interested in concepts of piano theory. Students may take more than one quarter. (Previously MUS 236.)

## MUSC 240

### Jazz Theory and Improvisation . . . . . 1.0 - 2.0 Credits

A combination of jazz theory and improvisation techniques for the small group setting. The emphasis will be on individual solving skills. Performance required at various CBC concerts and jazz festivals. (Previously MUS 240.)

## MUSC 244

### Advanced Vocal Jazz . . . . . 1.0 - 3.0 Credits

Emphasis on traditional and contemporary vocal jazz concepts in an advanced ensemble situation. Extensive audition required each spring for the following academic year. Performances required on and off campus. A maximum of six credits from this course can be applied to an AA degree. Prerequisite: instructor's permission. (Previously MUS 242.)

## MUSC 274

### Advanced Ear Training . . . . . 1.0 Credit

This class will focus on developing the skills to correctly identify chord progressions and melodic dictation. There will also be continued work with ear training concepts. This class should be taken concurrently with MUSC& 241. Offered fall quarter only. (Previously MUS 274.)

## MUSC 275

### Advanced Ear Training . . . . . 1.0 Credit

This class will focus on developing the skills to correctly notate chord progressions using inversions, two-part melodic dictation, and identification of chromatically altered chords. This class should be taken concurrently with MUSC& 242. Offered winter quarter only. (Previously MUS 275.)

## MUSC 276

### Advanced Ear Training . . . . . 1.0 Credit

This class will focus on developing the skills to correctly notate chord progressions using inversions and chromatically altered chords, four-part dictation, and identification of scales, chords, and progressions as used in 20th century techniques. This class should be taken concurrently with MUSC& 243. Offered spring quarter only. (Previously MUS 276.)



## MUSC 281

**Advanced Chorus . . . . . 1.0 - 3.0 Credits**  
Instruction and performance of advanced choral literature from a variety of historical periods and cultures. Performances required on and off campus. A maximum of six credits from this course can be applied to an AA degree. Prerequisite: instructor's permission. (Previously MUS 281.)

## Music Common Course

### MUSC& 105

**Music Appreciation [H] . . . . . 5.0 Credits**  
The study of musical literature from early times to the present. Emphasis on listening and enjoyment through the use of recordings, attendance at concerts, and films. (Previously MUS 115.)

### MUSC& 141

**Music Theory I . . . . . 5.0 Credits**  
Courses must be taken in sequence. The melodic, rhythmic, and harmonic elements of music through ear-training, sight singing, writing, analysis, and keyboard work. This course should be taken concurrently with MUSC 171. Some music background is required. Students with no piano background should take MUSC 134 concurrently. Offered fall quarter only. (Previously MUS 101.)

### MUSC& 142

**Music Theory II . . . . . 5.0 Credits**  
Courses must be taken in sequence. The melodic, rhythmic, and harmonic elements of music through ear-training, sight singing, writing, analysis, and keyboard work. Students with no piano background must take MUSC 135 concurrently. Prerequisite: MUSC& 141. Offered winter quarter only. (Previously MUS 102.)

### MUSC& 143

**Music Theory III. . . . . 5.0 Credits**  
Courses must be taken in sequence. The melodic, rhythmic, and harmonic elements of music through writing, analysis, ear-training, sight singing, and keyboard work. Music background is required. Students with no piano background must take MUSC 136 concurrently. Prerequisite: MUSC& 142. Offered spring quarter only. (Previously MUS 103.)

### MUSC& 241

**Music Theory IV. . . . . 5.0 Credits**  
Melody harmonization, harmonic dictation, chromatic harmony, advanced modulation, 20th century techniques, and oral composition. Prerequisite: MUSC& 143. This course should be taken concurrently with MUSC 274. Offered fall quarter only. (Previously MUS 204.)

### MUSC& 242

**Music Theory V . . . . . 5.0 Credits**  
Melody harmonization, harmonic dictation, chromatic harmony, advanced modulation, 20th century techniques, and oral composition. Prerequisite: MUSC& 241. Offered winter quarter only. (Previously MUS 205.)

### MUSC& 243

**Music Theory VI. . . . . 5.0 Credits**  
Melody harmonization, harmonic dictation, chromatic harmony, advanced modulation, 20th century techniques, and oral composition. Prerequisite: MUSC& 242. Offered spring quarter only. (Previously MUS 206.)

## Non-Destructive Testing

### NDT 101

**Basic NDT Theory in VT, PT, RMT . . . . . 5.0 Credits**  
An introductory-level study of non destructive testing, welding codes, and standards as applied in the construction trades and maintenance repair programs. Includes discussion of NDE techniques, AWS, API inspection standards, ASME Sections V and IX codes, and introduces their use. The training will follow SNT-TC-1A format for Visual Testing Level I (VT-I), Magnetic Particle Testing Level I (MT-I) and Penetrant Testing Level I (PT-I). Upon completion of this course, the student should be able to minimally identify proper welding codes, follow inspection procedures, and be able to perform Level I NDE for the three techniques VT, PT, and MT.

### NDT 102

**Basic Ultrasound & Radiographic Testing . . . . . 5.0 Credits**  
An entry-level course on ultrasonic and radiographic testing, techniques as applied in the construction trades, and maintenance repair programs. This is a course for individuals with little or no experience in ultrasonic and radiographic testing. The course is divided into two parts, ultrasonic and radiographic testing. The course covers ultrasonic and radiographic theory, applications, inspection procedures, training standards, evaluation codes, interpretation of results, and instrument operation. Includes discussion of NDE techniques, AWS, API inspection standards, ASME Sections V and IX codes, and introduces their use. The class outline will generally follow SNT-TC-1A format for Ultrasonic Testing Level I (UT-I) and Radiographic Testing Level I (RT-I).

## Nuclear Medicine Technology

### NMTEC 200

**Applied Anatomy & Physiology. . . . . 1.0 Credit**  
Studies human anatomy and physiology as they apply to nuclear medicine imaging. Specific organ systems covered include skeletal, circulatory, cardiac, pulmonary, gastrointestinal, immune, excretory, endocrine, and central nervous systems. Prerequisite: acceptance into program.

### NMTEC 201

**Basic Nuclear Medicine Science . . . . . 3.0 Credits**  
Presents basic science required for nuclear medicine. Topics include types of radiation, half-life and radioactive decay, interactions of radiation, detection instruments, statistics of radiation counting, basic radiation protection, and introduction to gamma camera. Prerequisite: acceptance into program.

### NMTEC 202

**Instrumentation . . . . . 3.0 Credits**  
Examines the function and use of the nuclear medicine gamma camera. Topics include basic electronics, collimators, digital cameras, online correction systems, and modifications required for tomographic studies. Students learn quality control and troubleshooting. Also includes positron emission tomography. Prerequisite: acceptance into program.

### NMTEC 203

**Computers in Nuclear Medicine . . . . . 3.0 Credits**  
Introduces the use of computers in nuclear medicine, emphasizing analysis of static, dynamic, and tomographic images. Prerequisites: acceptance into program.

### NMTEC 210

**Radiopharmacy. . . . . 1.0 Credit**  
Studies all commonly used nuclear medicine pharmaceuticals, their preparation, indications for use, dosages, and contraindications. Prerequisite: acceptance into program.



## NMTEC 211

**Nursing Procedures . . . . . 1.0 Credit**  
Presents nursing procedures relating to nuclear medicine. Topics include patient assessment, oxygen administration, infection control, intravenous drug administration, vasovagal and anaphylactic reactions, basic pharmacology, sedation, medical and legal issues, cardiac physiology, and electrocardiography. Prerequisite: acceptance into program.

## NMTEC 212

**Position Emission Tomography. . . . . 1.0 Credit**  
Covers all aspects of Positron Emission Tomography (PET), including issues relating to implementation and reimbursement for PET scans, approved clinical indications for PET imaging, biochemistry of fluorodeoxyglucose (FDG), clinical aspects of FDG imaging, new PET radiopharmaceuticals, and PET/CT fusion imaging. Applications of PET to research. Prerequisite: acceptance into program.

## NMTEC 229

**Introduction to Clinical Education. . . . . 3.0 Credits**  
Provides the student with basic understanding of nuclear medicine instruments and procedures, with an emphasis on the operation of a gamma camera, basic radiopharmacy and radiation safety principles, and patient care procedures. Prerequisite: acceptance into program.

## NMTEC 230

**Clinical Education I . . . . . 10.0 Credits**  
First in a five-course sequence of supervised clinical instruction in nuclear medicine technology. Topics including imaging, patient care, radiopharmacy, camera quality control, and computer analysis. Students are expected to gain proficiency according to defined objectives. Prerequisite: acceptance into program.

## NMTEC 231

**Clinical Education II . . . . . 10.0 Credits**  
Second in a five-course sequence of supervised clinical instruction in nuclear medicine technology. Topics include imaging, patient care, radiopharmacy, camera quality control, and computer analysis. Students are expected to gain proficiency according to defined objectives. Prerequisite: acceptance into program.

## NMTEC 232

**Clinical Education III . . . . . 10.0 Credits**  
Third in a five-course sequence of supervised clinical instruction in nuclear medicine technology. Topics include imaging, patient care, radiopharmacy, camera quality control, and computer analysis. Students are expected to gain proficiency according to defined objectives. Prerequisite: acceptance into program.

## NMTEC 233

**Clinical Education IV . . . . . 13.0 Credits**  
Fourth in a five-course sequence of supervised clinical instruction in nuclear medicine technology. Topics include imaging, patient care, radiopharmacy, camera quality control, and computer analysis. Students are expected to gain proficiency according to defined objectives. Prerequisite: acceptance into program.

## NMTEC 234

**Clinical Education V . . . . . 13.0 Credits**  
Fifth in a five-course sequence of supervised clinical instruction in nuclear medicine technology. Topics include radiopharmacy, positron emission tomography, nuclear cardiology, and pediatrics. Prerequisite: acceptance into program.

## NMTEC 240

**Radiation Safety . . . . . 1.0 Credit**  
Covers principles and practices for radiation safety. Topics include calculation of doses absorbed from procedures, personnel monitoring, handling, and disposal of radioactive materials, and licensing of a nuclear medicine department. Prerequisite: acceptance into program.

## NMTEC 241

**Radiation Biology . . . . . 1.0 Credit**  
Discusses the potentially harmful effects of radiation on humans. Topics include the basic chemistry of radiation interactions in living cells, the effects of extensive radiation exposure, and the potential long-term effects of accumulated radiation damage. Prerequisite: acceptance into program.

## NMTEC 250

**Sectional Anatomy for Nuclear Medicine . . . . . 3.0 Credits**  
Presents sectional anatomy of the body, including a brief introduction to the following imaging modalities: CT, MRI, angiography, and ultrasound. Prerequisite: acceptance into program.

## NMTEC 260

**Clinical Nuclear Medicine I . . . . . 1.0 Credit**  
Presents nuclear medicine from the technologist's standpoint, emphasizing the technical aspects and pitfalls of nuclear medicine procedures. NMTEC 260 lectures are coordinated with NMTEC 200. Prerequisite: acceptance into program.

## NMTEC 261

**Clinical Nuclear Medicine II . . . . . 1.0 Credit**  
Presents nuclear medicine from the physician's standpoint, emphasizing the diagnosis of disease and ways in which the technologist can assist the physician making a correct diagnosis. Prerequisite: acceptance into program.

## NMTEC 262

**Clinical Nuclear Medicine III. . . . . 1.0 Credit**  
Discusses advanced topics related to imaging and non-imaging procedures. Topics include Schilling test, H.pylori breath testing, blood volume determination, radioimmunotherapy, and advanced topics in nuclear cardiology, nuclear neurology, and bone densitometry. Prerequisite: acceptance into program.

## NMTEC 275

**Board Preparation. . . . . 1.0 Credit**  
Prepares students for the NMTCB exam by reviewing all aspects of nuclear medicine technology and giving practice tests. Students focus on practical application of the basic science knowledge gained throughout the program. Students also complete a capstone project. Prerequisite: acceptance into program.

## NMTEC 280

**CT for the Nuclear Medicine Technologist . . . . . 3.0 Credits**  
Provides didactic instruction in CT scanning, as is pertinent to its application to nuclear medicine procedures. Includes information pertaining to production and detection of X-rays in CT, instrumentation and image reconstruction, specific technique applications, patient care and quality control. Prerequisite: acceptance into program.

## Nursing

### NRS 101

**Basic Pharmacology . . . . . 1.0 - 3.0 Credits**  
Drug dosage calculations and administration techniques. Emphasis is on mathematic computations for various forms of drug administration utilizing household, metric and Apothecary measurements. Prerequisite: admission to the Nursing program.

### NRS 111

**Nursing I . . . . . 1.0 - 7.0 Credits**  
Initial course in the Nursing program. Includes theory and clinical practice in the fundamentals of Nursing care and the introduction of the nursing process. Concepts of growth and developmental tasks for all ages and beginning-level professional communication skills are presented. Emphasis is on safety, health maintenance and basic skills development. Prerequisites: admission to the Nursing program and BIOL& 241/BIOL& 241L with a grade of 2.0 or above or concurrent enrollment.



## NRS 1111

**Nursing I Lab** . . . . . **.1.0 - 4.0 Credits**  
Lab to be taken concurrently with NRS 111.

## NRS 121

**Nursing II** . . . . . **.1.0 - 5.0 Credits**  
A continuation of the skills and concepts introduced in NRS 111/NRS 1111. Introduction of physical and mental illness throughout the life span. The nursing process is used as a framework to develop knowledge and skills needed to care for clients. Clinical experience in acute care and gerontology are a part of the course. Prerequisites: NRS 101; NRS 111/NRS 1111; BIOL& 241/BIOL& 241L; BIOL& 242/BIOL& 242L; PSYC& 100 or concurrent enrollment. All must have a grade of 2.0 or above.

## NRS 1211

**Nursing II Lab** . . . . . **.1.0 - 5.0 Credits**  
Lab to be taken concurrently with NRS 121.

## NRS 131

**Nursing III** . . . . . **.1.0 - 5.0 Credits**  
A continuation of NRS 121/NRS 1211 with further exploration of physical and mental illness throughout the life span. Normal labor, delivery, and postpartum care are introduced. A continuing and increasing emphasis on the use of the nursing process to plan, deliver, and evaluate nursing care in the clinical setting. Prerequisites: BIOL& 242/BIOL& 242L; NRS 121/NRS 1211; PSYC& 100, and ENGL& 101 or concurrent enrollment. All must have a grade of 2.0 or above.

## NRS 1311

**Nursing III Lab** . . . . . **.1.0 - 5.0 Credits**  
Lab to be taken concurrently with NRS 131.

## NRS 1351

**Nursing Trends Lab** . . . . . **2.0 Credits**  
A campus laboratory experience designed to allow the nursing student time to gain proficiency in nursing skills before actual practice in the hospital setting. Students enrolled in the Nursing program register for this class each quarter. Pass/Fail class. Prerequisite: enrollment in the Nursing program.

## NRS 141

**Practical Nursing** . . . . . **.1.0 - 5.0 Credits**  
A course designed to be the completion point of the Practical Nurse curriculum. Emphasis is on theory and practice at the Practical Nurse level in the acute care setting. The legal and professional roles of the Licensed Practical Nurse are included. Students satisfactorily completing the course are eligible to write the State Board Examination leading to licensure as an LPN. Prerequisites: NRS 131/NRS 1311, ENGL& 101. All must have a grade of 2.0 or above.

## NRS 1411

**Practical Nursing Lab** . . . . . **.1.0 - 6.0 Credits**  
This course provides a basic understanding in the role of the Licensed Practical Nurse. This quarter is designed to expand on the student's knowledge and skill base as well as help the student to recognize and identify specific situation and problem areas which require critical thinking and problem-solving skills. Current issues in healthcare and the Washington state laws related to the Licensed Practical Nurses will be reviewed. It is also designed to assist in the transition of student to graduate Practical Nurse and meet the eligibility requirements to write the State Board Exam for Licensure. Team-leading and delegation principles will be introduced and the student will be participating in planned team-leading activities in the clinical setting. Additionally, an introduction to community health nursing will be provided. Prerequisites: successful completion of NRS 131/NRS 1311, or the student is a Licensed Practical Nurse and has met the requirements for entrance into the Advanced Placement program.

## NRS 151

**Advanced Placement** . . . . . **1.0 - 11.0 Credits**  
This course is offered to LPNs in the community licensed in the state of Washington. An LPN may apply for advanced placement into the second year of the Nursing program. This course is offered summer quarter on a space available basis.

## NRS 201

**Pharmacology** . . . . . **.1.0 Credit**  
This class will supplement, review, and reinforce information provided on pharmacology of drugs that have been covered in Nursing I, II, III, and IV. Students will review drug classifications and pharmacological principles associated with medication administration, while relating this information to a corresponding patient diagnosis as well as understanding the related nursing implications. Students will also be challenged with medication calculations throughout the course of the program. Prerequisites: current enrollment in NRS 211/NRS 2111.

## NRS 211

**Nursing IV** . . . . . **.1.0 - 5.0 Credits**  
The first course in the second level of the Nursing program. Emphasis is on the application of the nursing process in the delivery of nursing care to individuals experiencing acute medical/surgical and psychiatric illness. Classroom and clinical experiences are directed toward increasing the student's knowledge of pathophysiological and psychiatric dysfunctions and developing advanced nursing skills in assessment, planning, and implementation of patient care. Prerequisite: student must meet minimal requirements for entry into the second year of the Nursing program under the following conditions: an LPN with advanced placement; a student continuing in the Nursing program from the first year with a minimum 2.5 GPA in Nursing and a 2.0 in all supporting courses; BIOL& 260/BIOL& 260L with a grade of 2.0 or above or concurrent enrollment.

## NRS 2111

**Nursing IV Lab** . . . . . **.1.0 - 5.0 Credits**  
Lab to be taken concurrently with NRS 211.

## NRS 221

**Nursing V** . . . . . **.1.0 - 5.0 Credits**  
A continuation of NRS 211/NRS 2111. There is continued emphasis on advanced nursing skills as well as leadership, delegation, pharmacological management, and critical thinking skills development in both theory and clinical. Prerequisites: NRS 211/NRS 2111 and BIOL& 260/BIOL& 260L. All must have a grade of 2.0 or above.

## NRS 2211

**Nursing V Lab** . . . . . **.1.0 - 5.0 Credits**  
Lab to be taken concurrently with NRS 221.

## NRS 222

**Professional Issues I** . . . . . **.1.0 Credit**  
One-credit class providing an overview of nursing management and leadership, legal issues in nursing, job search, nursing delivery systems, and role transition issues related to moving from a nursing student to professional nursing practice. Prerequisites: concurrent enrollment in NRS 221/NRS 2211.

## NRS 231

**Nursing VI** . . . . . **.1.0 - 5.0 Credits**  
A progression from NRS 221/NRS 2211 with additional physiological and psychological health needs. Concurrent focus on exploration of nursing roles and organizational approach to the delivery of nursing and healthcare. Clinical experience focuses on the refinement of advanced nursing skills, critical thinking, and leadership abilities. Clinical experiences will assist the student in transition from the classroom to employment. The professional issues will focus on the history and trends of nursing, legal aspects, community health, and current political issues concerning nursing. A project reviewing normal pediatric growth and development as well as care of the pediatric client in the healthcare setting will be required. Prerequisites: NRS 221/NRS 2211; PSYC& 200 and SOC& 101 or concurrent enrollment. All must have a grade of 2.0 or above.



## NRS 2311

**Nursing VI Lab** . . . . . **1.0 - 8.0 Credits**  
Lab to be taken concurrently with NRS 231.

## NRS 232

**Professional Issues II** . . . . . **1.0 Credit**  
One-credit class provides an overview of contemporary healthcare, regulations of Registered Nurse practice, collective bargaining, conflict management, safety in the workplace, and boundary issues for professional nurses. Prerequisites: concurrent enrollment in NRS 231/NRS 2311.

## NRS 2351

**Nursing Trends Lab** . . . . . **1.0 Credit**  
A campus laboratory experience designed to allow the nursing student time to gain proficiency in nursing skills before actual practice in the hospital setting. Students enrolled in the Nursing program register for this class each quarter. Pass/Fail class. Prerequisite: enrollment in the Nursing program.

## Nursing Assistant

### NA 100

**Nursing Assistant** . . . . . **4.0 Credits**  
This course leads to the ability of those completing the course to become eligible for testing as a Nursing Assistant Certified. The course covers communication and interpersonal skills, infection control, safety and emergency procedures, promoting resident independence, respecting resident rights, basic nursing skills, personal care skills, mental health and social services needs, care of the cognitively impaired resident, basic restorative care, resident rights, HIPAA, First Aid and CPR for the healthcare provider, HIV/AIDS, dementia, and cultural awareness. Concurrent enrollment into NA 1001 Lab. Students will be required to demonstrate skills associated with each of the course subjects within the laboratory or clinical setting. More information is available from the Health Sciences Division office at (509) 544-8300.

### NA 1001

**Nursing Assistant Lab.** . . . . . **4.0 Credits**  
This course provides the skills laboratory and clinical requirements for the Nursing Assistant lecture course. The student will be involved in on-campus learning laboratory experiences as well as clinical rotations within community health facilities.

## Nutrition [M/S]

### NUTR& 101

**Nutrition [M/S]** . . . . . **5.0 Credits**  
Principles of nutrition as they apply to macro-nutrients. Economic, cultural, and psychological influences are considered. The need for vitamins, minerals, and special nutritional requirements at different stages of the life cycle and special topics of current concern are included. (Previously NFS 111.)

## Paralegal

### PL 101

**Introduction to Paralegalism** . . . . . **5.0 Credits**  
Basic paralegal procedures designed to acquaint those interested in the paralegal field with a broader understanding of the judicial process.

### PL 103

**Civil Procedures** . . . . . **3.0 Credits**  
This course is designed to familiarize the student with rules of civil procedure in Washington state, including pretrial tasks in the office, through discovery, to the trial and appeal, and the role of the paralegal in civil litigation.

### PL 104

**Criminal Procedures** . . . . . **3.0 Credits**  
This course is designed to familiarize the student with rules of criminal procedure in Washington state. This class will begin with constitutional concepts (state and federal) including double jeopardy, right against self-incrimination, right to counsel, etc., how criminal cases are initiated, arrest, search and seizure, exceptions to the warrant requirement, confession procedure, preliminary appearances, pre-trial, trial, verdicts, and post-conviction procedures.

### PL 105

**Law Office Management** . . . . . **3.0 Credits**  
Office management including policies, budgeting, personnel, purchasing, billing, etc., to relieve attorney from routine duties.

### PL 107

**Interview/Investigation** . . . . . **3.0 Credits**  
Methods of successfully interviewing clients in a legal setting to put them at ease and obtain the necessary information needed by the attorney.

### PL 108

**Administrative Law** . . . . . **3.0 Credits**  
Class focuses on state and federal administration agencies, their impact, rule-making procedures, growth, accountability, discretion, and judicial review of their actions.

### PL 121

**Beginning Contract Law** . . . . . **3.0 Credits**  
A three-quarter series of courses that study promissory agreements between two or more persons which create, modify, or destroy legal relations. Courses include the study of offer, acceptance, and consideration.

### PL 122

**Intermediate Contract Law** . . . . . **3.0 Credits**  
The study of promissory agreements between two or more persons that create, modify, or destroy legal relations. Courses will include the study of offer, acceptance, and consideration. Prerequisite: PL 121 with a grade of 2.0 or better.

### PL 123

**Advanced Contract Law** . . . . . **3.0 Credits**  
The study of promissory agreements between two or more persons that create, modify, or destroy legal relations. Courses will include the study of offer, acceptance, and consideration. Prerequisite: PL 122 with a grade of 2.0 or better.

### PL 131

**Introduction to Torts** . . . . . **3.0 Credits**  
A three-quarter series of courses that includes an introduction to the field of personal injury case law. Emphasis on principles such as international injuries, negligent injuries, activities for which one may be held strictly liable, and products liability. The student also develops an understanding of the principles of case and tort analysis.

### PL 132

**Intermediate Torts** . . . . . **3.0 Credits**  
Student will develop an understanding of the principles of case and tort analysis. Prerequisite: PL 131 with a grade of 2.0 or better.

### PL 133

**Advanced Torts** . . . . . **3.0 Credits**  
Studying personal injury case law. Prerequisite: PL 132 with a grade of 2.0 or better.

### PL 141

**Probate Procedures** . . . . . **3.0 Credits**  
The study of probate laws, practices, and procedures necessary to probate estates. Special emphasis on the skills necessary for a paralegal to handle probate matters.



## PL 142

### **Community Property Law . . . . . 3.0 Credits**

A study of the various laws and regulations as they pertain to community and separate property.

## PL 143

### **Trial Preparation . . . . . 3.0 Credits**

This course explores the use of investigative techniques in both the civil and criminal arenas, including crime scene and physical evidence, civil rules of evidence, and witness location and interviews. The class learns how the evidence gathered may eventually be used in trial through participation in a mock trial.

## PL 145

### **Family Law . . . . . 5.0 Credits**

The various laws and regulations of community and separate property along with the study of procedures as they relate to the family. Substantive practice including dissolution procedures, decrees of invalidity, separate maintenance, property settlement agreements, adoptions, and surrogacy.

## PL 146

### **Paralegal Ethics . . . . . 3.0 Credits**

This course will explore ethics and the practice of law. Special attention will be paid to ethics for paralegal practice and issues that the paralegal might encounter.

## PL 147

### **Computers in a Law Environment . . . . . 1.0 Credit**

A course that will assist the student to use standard and specialized computer software to complete legal documents, conduct research, and coordinate paralegal activities. Must be taken currently with PL 1471. Prerequisite: CA 100 or instructor's permission.

## PL 1471

### **Computers in a Law Environment Lab . . . . . 1.0 Credit**

A lab that provides an opportunity to have hands-on interaction with standard and specialized computer software to complete legal documents, conduct research, and coordinate paralegal activities. This lab is taken with PL 147.

## PL 150

### **Introduction to Legal Writing . . . . . 3.0 Credits**

This is the first of a three-quarter sequence of courses that examine and develop legal research and writing skills. This course examines the fundamentals of legal research and writing. Students become familiar with the American court system, criminal and civil legal process, legal citations, and the law library. Lectures, practical exercises, as well as writing assignments, will be used to assist the students in understanding the topics covered in this course. Prerequisites: PL 101 and ENGL& 101.

## PL 151

### **Legal Research & Writing . . . . . 5.0 Credits**

This is the second course in a series of three designed to examine the fundamentals of legal research and writing. The students continue familiarization with the law library and sources of legal information. Application of these sources in the form of practical exercises, research and writing assignments, as well as examinations will be used to assist the student in developing and learning the skills of legal research and writing. Prerequisite: PL 150 with a grade of 2.0 or better.

## PL 152

### **Advanced Legal Writing . . . . . 5.0 Credits**

This course examines advanced techniques of legal research and writing. Emphasis is on developing advanced research methods and concise legal writing. Students apply research methods in practical applications and in legal writing assignments. Prerequisite: PL 151 with a grade of 2.0 or better.

## PL 1972

### **Internship . . . . . 1.0 - 3.0 Credits**

Supervised learning in a law office or other legal facility. Jobs are planned to give students on-the-job training as legal assistants enabling them to see the practical use of course work they have completed. Prerequisite: at least 45 credits of paralegal courses.

## PL 201

### **Commercial Law . . . . . 3.0 Credits**

The study of commercial law as it relates to transactions in personal property, commercial paper, mortgages, and other security agreements. Prerequisites: PL 121, PL 122, PL 123.

## PL 210

### **Immigration Law . . . . . 3.0 Credits**

This course explores all significant aspects of the immigration and naturalization process in the United States, including the Homeland Security Act of 2002 and the Illegal Immigration Reform and Immigrant Responsibility Act of 1996. Helps students ground conceptual principles in real-world applications; delve more deeply into the intricacies of immigration law in practice; exposes students with the materials they will encounter on the job; provides a convenient study and review tool; familiarizes students with the professional vocabulary they will encounter on the job; and challenges students to analyze real-world immigration scenarios.

## PL 212

### **Real Estate & Personal Property . . . . . 3.0 Credits**

An overview of basic Washington State Real Estate Law, designed to acquaint the student with traditional concepts.

## PL 213

### **Insurance Law . . . . . 3.0 Credits**

General legal principles relating to motor vehicles, homeowners, commercial property, and multiple line insurance agreements. Emphasis will be on understanding insurance agreements, in particular, relating to the definition of insurable events, and understanding of endorsements, duties of the insured exclusions, and policy limits. Laws relating to the regulation of the insurance industry in Washington state will also be examined.

## PL 214

### **Criminal Law . . . . . 3.0 Credits**

Examination of criminal justice system, including procedures from arrest to final disposition; study of federal, state, and local laws as they affect the process in criminal court procedures.

## PL 215

### **Bankruptcy Law . . . . . 3.0 Credits**

Study of the Bankruptcy Act including procedural steps involved in bankruptcy proceedings and wage-earner plans. Attention also given to collection of claims and creditors' rights including enforcement of judgments and remedies.

## PL 216

### **Corporate Law . . . . . 3.0 Credits**

Study of law, procedures, and documents involved in the organization, operation, and dissolutions of business entities, with emphasis on corporations.

## PL 219

### **Environmental Law . . . . . 3.0 Credits**

History of environmental law, with emphasis on the inter-relationships between federal, state, and local environmental regulations and requirements. Prerequisites: PL 108 and PL 150.

## PL 220

### **Employee Benefits Law . . . . . 3.0 Credits**

Survey of employee benefits laws with applications to paralegal work. Prerequisites: 15 credits of 100-level PL courses.



## PL 221

### Labor Law . . . . . 3.0 Credits

Survey of the field of labor law and relations as it relates to paralegal work.

Prerequisites: 15 credits of 100-level PL courses.

## PL 222

### Personal Injury . . . . . 3.0 Credits

An advanced course that teaches students how to manage a personal injury case. Prerequisites: PL 103, PL 104, PL 107, PL 131, PL 132, PL 133, PL 143.

## PL 225

### CLA Prep . . . . . 3.0 Credits

This course is offered to assist students in preparing for the Certified Legal Assistant (CLA) examination sponsored by the National Association of Legal Assistants (NALA.)

## PL 2972

### Advanced Internship . . . . . 1.0 - 3.0 Credits

Continuation of PL 1972. Prerequisite: 60 hours of paralegal courses.

## Paramedic

### PMD 100

#### Pre-Paramedic Short Term Certificate . . . . . 2.0 Credits

The Pre-Paramedic Short Term Certificate is designed to supplement an EMT's basic field experience. The Short Term Certificate course starts with an introduction course that reviews EMT cognitive and psychomotor objectives and lays the groundwork for students to prepare for PMD 1002 and the Paramedic course. This field experience focuses on primary responsibilities of an EMT.

### PMD 1002

#### Pre-Paramedic Short Term Certificate Practicum . . . . . 1.0 - 6.0 Credits

The Pre-Paramedic Short Term Certificate includes up to six credits of practicum experience, designed to provide the EMT with a minimum number of patient contacts, geared towards establishing a strong EMT basic foundation. The practicum portion of the Short Term Certificate will be accomplished with the local fire department agencies. The practicum will include no more than 110 hours of ride time per quarter in the field.

### PMD 201

#### Paramedic I . . . . . 6.0 Credits

This is the first course in a six-quarter sequence intended to prepare the paramedic student in the areas of medical, legal, ethics, roles and responsibilities, principles of Pathophysiology, Pharmacology, intravenous access, and medication administration. The course follows the 1998 DOT National Standard Curriculum for EMT-Paramedics, and is designed to give students the foundation to continue training to become eligible to take the National Registry EMT-Paramedic exam. The lab portion of the course introduces the students to the policies and procedures of the field and hospital internship sites, where students begin in same-day surgery performing IVs on patients preparing for surgical procedures. Prerequisite: acceptance into the program upon application and completion of the oral interview and approval of the Paramedic program director.

### PMD 2013

#### Paramedic I Lab . . . . . 2.0 Credits

Lab to be taken concurrently with PMD 201.

### PMD 202

#### Paramedic II . . . . . 6.0 Credits

The second course in the Paramedic sequence, intended to train the student in the areas of advanced airway management, physical assessment, field assessment, clinical decision-making, documentation, and the assessment and management of respiratory emergencies. The course follows the 1998 DOT National Standard Curriculum for EMT-Paramedics, and is designed to give students the foundation to continue training to become eligible to take the National Registry EMT-Paramedic exam. The lab portion of the course introduces the students to the policies and procedures of the field and hospital internship sites, where they continue to work on their minimum competencies in same-day surgery, operating room, emergency department, as well as beginning their field/ambulance experience. Prerequisite: completion of PMD 201/PMD 2013 with a grade of 2.0 or better.

### PMD 2023

#### Paramedic II Lab . . . . . 3.0 Credits

Lab to be taken concurrently with PMD 202.

### PMD 203

#### Paramedic III . . . . . 6.0 Credits

This is the third course in the Paramedic sequence. It provides skills and knowledge necessary to assess and manage medical emergencies, specifically cardiac, neurological, and endocrine emergencies as well as allergies and anaphylaxis. At the completion of this course, students will be certified in ACLS. The course follows the 1998 DOT National Standard Curriculum for EMT-Paramedics, and is designed to give students the foundation to continue training to become eligible to take the National Registry EMT-Paramedic exam. Prerequisite: completion of PMD 202/PMD 2023 with a grade of 2.0 or better.

### PMD 2033

#### Paramedic III Lab . . . . . 3.0 Credits

The lab portion of the course introduces the students to the policies and procedures of the field and hospital internship sites, where they continue to work on their minimum competencies in the operating room, emergency department, respiratory therapy, cardiac catheterization lab and the intensive care units. Students continue the field/ambulance clinical competencies. Lab to be taken concurrently with PMD 203.

### PMD 204

#### Paramedic IV . . . . . 6.0 Credits

This is the fourth course in the Paramedic sequence. It provides skills and knowledge necessary to assess and manage trauma emergencies, specifically mechanism of injury, soft tissue and burn injuries, as well as head, neck, chest, abdominal, and other musculoskeletal trauma. The course follows the 1998 DOT National Standard Curriculum for EMT-Paramedics, and is designed to give students the foundation to continue training to become eligible to take the National Registry EMT-Paramedic exam. The lab portion of the course introduces the students to the policies and procedures of the field and hospital internship sites, where they continue to work on their minimum competencies in the emergency department, respiratory therapy, cardiac catheterization lab, and the intensive care units. Students continue the field/ambulance clinical competencies. At the end of this course, the areas of neonate and pediatric care will begin, with completion in PMD 205. Prerequisite: completion of PMD 203/PMD 2033 with a grade of 2.0 or better.

### PMD 2043

#### Paramedic IV Lab . . . . . 3.0 Credits

Lab to be taken concurrently with PMD 204.



## PMD 205

### Paramedic V . . . . . 6.0 Credits

This is the fifth course in the Paramedic sequence. It provides skills and knowledge necessary to assess and manage special emergencies with neonates, pediatrics, childbirth, geriatrics, behavioral emergencies as well as abuse and assault. At the completion of this course students will be certified in PALS. The course follows the 1998 DOT National Standard Curriculum for EMT-Paramedics, and is designed to give students the foundation to continue training to become eligible to take the National Registry EMT-Paramedic exam. The lab portion of the course introduces the students to the policies and procedures of the field and hospital internship sites, where they continue to work on their minimum competencies in the emergency department, respiratory therapy, cardiac catheterization lab, intensive care units, pediatrics, neonate intensive care unit, obstetrics unit, and psychiatric rotations. Students continue the field/ambulance clinical competencies. Prerequisite: completion of PMD 204/PMD 2043 with a grade of 2.0 or better.

## PMD 2053

### Paramedic V Lab . . . . . 3.0 Credits

Lab to be taken concurrently with PMD 205.

## PMD 206

### Paramedic VI . . . . . 6.0 Credits

Sixth and final major course in the Paramedic sequence. The course provides skills and knowledge necessary to assess and manage emergencies of a gastrointestinal, urological, toxicological, or environmental nature. It additionally reviews special considerations of mass casualty, hazardous materials, rescue, and crime scene awareness. At the completion of this course, students will complete a term paper and oral presentation. The course follows the 1998 DOT National Standard Curriculum for EMT-Paramedics, and is designed to give students the foundation to continue training to become eligible to take the National Registry EMT-Paramedic exam. The lab portion of the course focuses on the completion of hospital internship, where they continue to work on their minimum competencies in the emergency department, respiratory therapy, cardiac catheterization lab, intensive care units, pediatrics, neonate intensive care unit, obstetrics unit, and psychiatric rotations. Students continue the field/ambulance clinical competencies.

## PMD 2063

### Paramedic VI Lab . . . . . 3.0 Credits

Lab to be taken concurrently with PMD 206.

## PMD 2103

### Extended Paramedic Internship . . . . . 1.0 - 3.0 Credits

This course is provided to current paramedic students who are working to complete field and/or hospital internship requirements as required by the program. The course follows the National Curriculum for Paramedic Training and it allows the student to complete all requirements, and to become eligible to take the National EMT-P Certification exam. Prerequisite: successful completion of all previous PMD sequences, with a minimum overall GPA of 2.5. All students must have malpractice insurance.

## PMD 235

### Professional Issues for the Paramedic . . . . . 2.0 Credits

A course designed to provide the Paramedic student the opportunity to explore professional issues important to the success of a certified paramedic. The focus will be upon advanced directives of terminally ill patients, documentation considerations, advanced cardiac life-support skills, and advanced trauma skills and procedures.

## Parent Education

### PED 085

#### Parent-Infant . . . . . 1.0 - 2.0 Credits

Parents and infants 0-12 months attend class together once each week in a specially designed infant/toddler environment. Class time is spent in active parent-child interactions and in group discussions led by parenting education instructors. The class helps parents develop realistic age-level expectations, clarify child rearing values, explore methods of child guidance, strengthen family communication, explore contemporary family issues, and relax and enjoy their role as parents.

### PED 086

#### Parent-Young Toddler. . . . . 1.0 - 2.0 Credits

Parents and children ages 12 to 24 months attend class together once a week. A quality early learning program, taught by an early childhood specialist, is offered to the children. Parents assist in the classroom with developmentally appropriate activities. During group discussion, led by a parenting education instructor, parents develop realistic age-level expectations, clarify personal child rearing values, explore child guidance techniques, and discuss contemporary family issues.

### PED 087

#### Parent-Toddler-Sibling . . . . . 1.0 - 2.0 Credits

Parents and their children ages three years and under attend class together once a week. A quality early learning program taught by an early childhood specialist, is offered to the children. Parents assist in the classroom with developmentally appropriate activities. During discussion time with a parenting education instructor, parents explore parenting siblings, develop realistic age-level expectations, clarify personal child rearing values, explore child guidance techniques, and discuss contemporary family issues.

### PED 088

#### Parent-Toddler . . . . . 1.0 - 2.0 Credits

Parents and children ages 24 to 36 months attend class together once a week. A quality early learning program, taught by an early childhood specialist is offered to the children. Parents assist in the classroom with developmentally appropriate activities. During group discussion led by a parenting education instructor, parents develop realistic age-level expectations, clarify personal child rearing values, explore child guidance techniques, and discuss contemporary family issues.

### PED 089

#### CO-OP Preschool . . . . . 1.0 - 3.0 Credits

Parents and children ages three to five years attend school together one day and the child attends an additional one or two days per week. A quality preschool program taught by an early childhood specialist is offered to the children. Parents assist in the classroom with developmentally appropriate activities. Through observation, participation, and discussion with a parenting education instructor, parents have an opportunity to better understand their own child and his/her individual needs as well as explore a variety of parenting issues.

## Philosophy

### PHIL 121

#### Symbolic Logic [Q/SR] . . . . . 5.0 Credits

A study of the principles of formal thinking, which includes an analysis of symbolic theory within a context that encourages the development of logical skills. This course can be used as an elective or quantitative reasoning. Previous completion of MATH 095 is highly recommended. (Previously PHI 121.)

### PHIL 131

#### World Religions [H] . . . . . 5.0 Credits

A survey of the major religious systems of the world, including Hinduism, Buddhism, Confucianism, Taoism, Judaism, Christianity, and Islam. (Previously PHI 131.)



## PHIL 150

**Introduction to Ethics [H]** . . . . . **5.0 Credits**  
An introduction to moral concepts; their assumptions, arguments, implications, and practices. Special consideration will be given to topics in the area of medicine, business, war, individual rights, and the future. (Previously PHI 150.)

## Philosophy Common Course

### PHIL& 101

**Intro to Philosophy [H]** . . . . . **5.0 Credits**  
A study of the fundamental questions concerning humans and the universe that recur in the history of their thoughts, religion, knowledge, reality, and morality. (Previously PHI 101.)

### PHIL& 106

**Intro to Logic [H]** . . . . . **5.0 Credits**  
A study of the principles of formal and informal thinking; induction, deduction, and language. (Previously PHI 120.)

## Phlebotomy

### PHLEB 100

**Phlebotomy I** . . . . . **4.0 Credits**  
This first quarter is lecture for the two-quarter sequence. Students must pass this first quarter with 70 percent or higher in order to continue into the following quarter, PHLEB 1001 Lab. Malpractice Insurance fees are added into the registration. A national background check must be completed prior to admittance into this course. Immunization records must be presented the first day of class. Prerequisite: acceptance into the Phlebotomy program. Information available at the Health Sciences Division office, (509)544-8300.

### PHLEB 1001

**Phlebotomy I Lab** . . . . . **5.0 Credits**  
The second quarter of the class includes 120 hours of supervised clinical experience in 14 various medical facilities throughout the Tri-Cities area. These 120 clinical hours will be arranged by the instructor. Students will need to accommodate the hours of the facility and complete the 120 hours within the quarter. Students that successfully complete both quarters will receive a certification of completion from CBC with academic credit and will be prepared to test with the American Society of Clinical Pathologists (ASCP). The licensing test is not included and will be an additional fee. Prerequisite: acceptance into the Phlebotomy program. Information available at the Health Sciences Division office, (509)544-8300.

## Physical Education

### PE 1101

**Aerobics Step Training I [PE]** . . . . . **1.0 Credit**  
A low-impact exercise program that involves stepping up and down on a platform of adjustable height to the accompaniment of music, leading to improved cardiovascular conditioning, as well as lower body endurance and strength.

### PE 1111

**Aerobics Step Training II [PE]** . . . . . **1.0 Credit**  
Continued study and involvement offering a greater level of conditioning through the use of more intense training techniques involved with step training.

### PE 1121

**Aerobic Dance I [PE]** . . . . . **1.0 Credit**  
Dance steps and routines rigorously executed to increase cardiovascular rate, leading to figure trimming and toning. Records on improvements in pulse rates and pulmonary recovery will be kept.

### PE 1131

**Aerobic Dance II [PE]** . . . . . **1.0 Credit**  
Continued study and advanced techniques of this activity. Dance steps and routines executed to increase cardiovascular rate. Student's test and record improvements in pulse rates and pulmonary recovery. Prerequisite: PE 1121.

### PE 1141

**Aerobic Dance III [PE]** . . . . . **1.0 Credit**  
Advanced study in this activity. Dance steps and routines rigorously executed for improving cardiovascular rate and leading to figure trimming and toning. Improvements will be tested and recorded. Prerequisite: PE 1131.

### PE 1151

**Body Mechanics [PE]** . . . . . **1.0 Credit**  
This course involves special exercise and calisthenics which enhance total fitness, figure improvement, body toning, weight control, and posture.

### PE 1161

**Pilates [PE]** . . . . . **1.0 Credit**  
An introductory course to Pilates. The course will emphasize physical exercises, breathing, core strength and stability, and muscle awareness.

### PE 1171

**Yoga I [PE]** . . . . . **1.0 Credit**  
An introductory course to Hatha Yoga. The course will emphasize physical exercises, breathing exercises, and meditation practice.

### PE 1181

**Step Aerobic Interval Training [PE]** . . . . . **1.0 Credit**  
Using intervals of high intensity exercise followed by recovery periods, this class will combine high and low intensity exercises performed on the floor as well as on the step. Aerobic exercise, power moves, step training, light weight training, and body resistance will be used to introduce the student to the benefits of an interval training program. Greater cardiovascular strengthening as well as muscular strengthening and endurance will be introduced and practiced in this class.

### PE 1191

**Yoga II [PE]** . . . . . **1.0 Credit**  
A continuation course to a Hatha Yoga practice. The course will include intermediate physical poses, yoga breathing exercises, and selected meditations.

### PE 1201

**Weight Training I [PE]** . . . . . **1.0 Credit**  
The student will be exposed to theories of weight training. Emphasis will be placed on strength development, muscular endurance, and flexibility. The student will design an individual program with the use of free weights and multi-station machines.

### PE 1211

**Weight Training II [PE]** . . . . . **1.0 - 2.0 Credits**  
An intermediate program with the student designing his/her individual workout program.

### PE 1221

**Weight Training III [PE]** . . . . . **1.0 - 2.0 Credits**  
An advanced program with the student designing her/his individual workout program.

### PE 1271

**Fitness Center I [PE]** . . . . . **1.0 - 2.0 Credits**  
A total fitness program that develops individual fitness levels in cardiovascular training with benefits of weight training to improve muscle tone and physical conditioning.

### PE 1281

**Fitness Center II [PE]** . . . . . **1.0 - 2.0 Credits**  
A continuation of the total fitness program with more involvement in strength, flexibility, muscle toning, aerobic exercise, and body composition.



<p><b>PE 1291</b>  <b>Fitness Center III [PE]</b> . . . . . <b>.1.0 - 2.0 Credits</b>            An advanced, self-paced approach to fitness through the use of specialized exercises, multiple weight machines, and aerobic equipment.</p> <p><b>PE 1321</b>  <b>Golf I [PE]</b>. . . . . <b>.1.0 Credit</b>            Basic stroke instruction with all clubs to provide the student with sufficient skill to enjoy playing the game. The rules, courtesies, and safety factors will be taught and tested.</p> <p><b>PE 1331</b>  <b>Golf II [PE]</b> . . . . . <b>.1.0 Credit</b>            Techniques on special shots such as sand shots, sidehill, and downhill lies are emphasized. Prerequisite: PE 1321.</p> <p><b>PE 1351</b>  <b>Golf Swing Analysis Strategies [PE]</b> . . . . . <b>2.0 Credits</b>            A comprehensive study of the individual parts of the modern golf swing with intensive training directed toward precise control and more power.</p> <p><b>PE 1401</b>  <b>Softball I [PE]</b> . . . . . <b>.1.0 Credit</b>            Designed for the beginning softball player. The course offers instruction of basic skills and rules of softball. Skills and knowledge of rules will be tested.</p> <p><b>PE 1411</b>  <b>Softball II [PE]</b> . . . . . <b>.1.0 Credit</b>            Designed for the intermediate softball player. Additional work of strategy, individual, and team offensive/defensive techniques will be taught. Skills and knowledge of rules will be tested. Prerequisite: PE 1401.</p> <p><b>PE 1421</b>  <b>Softball III [PE]</b> . . . . . <b>.1.0 Credit</b>            Designed for the advanced softball player. Additional work of strategy, individual, and team offensive/defensive techniques will be taught. Skills and knowledge of rules will be tested. Prerequisites: PE 1401 and PE 1411.</p> <p><b>PE 1451</b>  <b>Soccer I [PE]</b> . . . . . <b>.1.0 Credit</b>            Basic individual skills are presented and developed. The international rules are emphasized and a physical conditioning program designed to prepare the student for play is implemented.</p> <p><b>PE 1461</b>  <b>Soccer II [PE]</b>. . . . . <b>.1.0 Credit</b>            Designed for the intermediate player. Review of the basic skills taught in the beginning course. Additional work on strategy and defensive techniques will be taught. Prerequisite: PE 1451.</p> <p><b>PE 1471</b>  <b>Soccer III [PE]</b> . . . . . <b>.1.0 Credit</b>            Designed for the advanced player. Advanced strategy, team defensive, and team offensive techniques will be taught. Skills and rules will be tested. Prerequisite: PE 1461.</p> <p><b>PE 1481</b>  <b>Jogging I [PE]</b> . . . . . <b>.1.0 - 2.0 Credits</b>            Provides cardiovascular improvement, burns body fat, and builds lifetime skills in aerobic fitness. Emphasis on stretching, safety, motivation, and enjoying jogging. Offered for the beginning jogger or walker through the competitive runner.</p> <p><b>PE 1491</b>  <b>Jogging II [PE]</b> . . . . . <b>.1.0 - 2.0 Credits</b>            Provides cardiovascular improvement, burns body fat, and builds lifetime skills in aerobic fitness. Emphasis on stretching, safety, motivation, and enjoying jogging. Offered for the intermediate jogger or walker through the competitive runner.</p>	<p><b>PE 1501</b>  <b>Jogging III [PE]</b> . . . . . <b>.1.0 - 2.0 Credits</b>            Provides cardiovascular improvement, burns body fat, and builds lifetime skills in aerobic fitness. Emphasis on stretching, safety, motivation, and enjoying jogging. Offered for the advanced jogger or walker through the competitive runner.</p> <p><b>PE 1601</b>  <b>Basketball I [PE]</b> . . . . . <b>.1.0 Credit</b>            Beginning skills and strategy; this class is suitable for anyone with a desire to learn the basics of the game, with emphasis on rules and court procedure.</p> <p><b>PE 1611</b>  <b>Basketball II [PE]</b> . . . . . <b>.1.0 Credit</b>            Students will expand their knowledge of the skills of basketball, and additional skills will be introduced. Team strategy at a more advanced level will be emphasized. Prerequisite: PE 1601.</p> <p><b>PE 1621</b>  <b>Basketball III [PE]</b> . . . . . <b>.1.0 Credit</b>            Review of advanced basketball skills. Introduction of offensive patterns, defensive sets, and individual style of play. The class will also involve usage of fast break and the transition game. Prerequisite: PE 1611.</p> <p><b>PE 1631</b>  <b>Volleyball I [PE]</b>. . . . . <b>.1.0 Credit</b>            Covers basic skills, court positions, and strategies for beginning sets along with 4-2 and 5-1 offenses.</p> <p><b>PE 1641</b>  <b>Volleyball II [PE]</b> . . . . . <b>.1.0 Credit</b>            A continuation of Volleyball I. Intermediate skills, defensive strategies, play sets, and how to play doubles and triples volleyball. Prerequisite: PE 1631.</p> <p><b>PE 1651</b>  <b>Volleyball III [PE]</b> . . . . . <b>.1.0 Credit</b>            Emphasis is on team plan and interaction using and applying all volleyball skills. Prerequisite: PE 1641.</p> <p><b>PE 180</b>  <b>Adaptive PE [PE]</b> . . . . . <b>2.0 Credits</b>            This course is a study of the history, current global perspective, current trends, and laws regarding the opportunity for people with challenges and limitations to participate in physical activity and sports.</p> <p><b>PE 1801</b>  <b>Adaptive PE Lab [PE]</b> . . . . . <b>.1.0 Credit</b>            Lab to be taken concurrently with PE 180.</p> <p><b>PE 1811</b>  <b>Swimming I [PE]</b> . . . . . <b>.1.0 Credit</b>            This course is designed to provide students with the basic fundamental skills to become a proficient safe swimmer. Rhythmic breathing, breath holding, leveling off from vertical position, floats in both supine and prone positions, arm strokes for front crawl, back stroke, side stroke, breast stroke and the front dive.</p> <p><b>PE 1871</b>  <b>Baseball I [PE]</b> . . . . . <b>.1.0 - 2.0 Credits</b>            Introduces the student to basic skills of baseball. Student will be given instruction in all phases of the game, with main purpose being to gain an understanding of fundamentals.</p> <p><b>PE 1881</b>  <b>Baseball II [PE]</b> . . . . . <b>.1.0 Credit</b>            Students will expand their knowledge of the skills of baseball taught at the beginning level. Team strategy will be taught at a more advanced level. Prerequisites: PE 1871.</p>
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## PE 1891

**Baseball III [PE]** . . . . . **1.0 Credit**  
Advanced level of skills will be taught, and theory of baseball strategy will be introduced in all phases of the game. Specific drills will be used for development of specialized skills. Prerequisites: PE 1881.

## PE 1901

**Cardio Kickboxing I [PE]** . . . . . **1.0 Credit**  
This course involves the study and implementation of martial art style kicks and punches, along with exercises to enhance flexibility, cardiovascular endurance, and increased stamina.

## PE 2011

**Exercise and Weights [PE]** . . . . . **1.0 Credit**  
Combination of activities including plyometrics, agility and speed training, and circuit training. Students participate in a supervised program designed to improve cardiovascular conditioning, core body strength, and physical agility.

## Physical Education Professional

### PEC 1351

**Swing Analysis and Strategies** . . . . . **2.0 Credits**  
A comprehensive study of the individual parts of the modern golf swing with intensive training directed toward precise control and more power. Class meets at Golf Land, Argent and Road 42 in Pasco.

### PEC 180

**Care and Prevention of Athletic Injuries.** . . . . **3.0 Credits**  
This course includes information on preventative procedures such as taping and bracing. Care of initial injury including American Red Cross Certification for Adult CPR and First Aid. Rehabilitation and return to activity protocol. This is good information for coaches, athletes, or active people in general.

### PEC 182

**Care & Prevention of Athletic Injuries II** . . . . . **2.0 Credits**  
This course is a continuation of the study as to the causes of athletic injury with a focus on rehabilitation. Theories, implications, and techniques such as rehabilitation program development, re-evaluations, communication with the medical community, and modalities are researched. Prerequisite: PEC 180.

### PEC 1821

**Care & Prevention of Athletic Injuries II Lab** . . . . . **1.0 Credit**  
Lab to be taken concurrently with PEC 182.

### PEC 183

**Athletic Training Internship.** . . . . **2.0 Credits**  
This course is for students interested in transferring to a four-year athletic training program and therefore need to complete a minimum of 100 internship hours under the supervision of a certified athletic trainer. The internship consists of practical work in the training room and with sports programs. Prerequisite: PEC 180.

### PEC 1831

**Athletic Training Internship Lab** . . . . . **1.0 Credit**  
Lab to be taken concurrently with PEC 183.

### PEC 235

**Fundamentals of Basketball** . . . . . **2.0 Credits**  
History, fundamentals, practice organization, method of instruction, game preparation, and player evaluation are the main topics for instruction.

### PEC 236

**Fundamentals of Volleyball.** . . . . **2.0 Credits**  
This is an introductory course in the history and development of power volleyball. It is also a study of the basic skills and organization of offensive and defensive strategies.

## PEC 239

**Fundamentals of Golf.** . . . . **2.0 Credits**  
All elements of basic knowledge of golf fundamentals will be reviewed with emphasis on methods and techniques of golf instruction for individuals or groups.

## PEC 242

**Theory of Basketball** . . . . . **2.0 Credits**  
Advanced concepts and theory in basketball coaching and continuation of fundamentals of basketball will supply students with up-to-date information concerning fundamentals, practice organization, game preparation, and player evaluation. Prerequisite: PEC 235.

## PEC 243

**Theory of Volleyball** . . . . . **2.0 Credits**  
Theory of volleyball for prospective coaches and advanced players with the aspects of philosophy, psychology, methods, and organization.

## PEC 248

**Theory of Baseball I** . . . . . **2.0 Credits**  
Introduces the student to the complexities of offensive and defensive strategies. A complete review of the mental aspects of individual and team play. Prerequisite: PEC 250.

## PEC 249

**Theory of Golf** . . . . . **2.0 Credits**  
To introduce the student to the philosophies and strategies involved in golf at all levels. The main objective is to help each student understand and form sound philosophy in teaching and playing the sport. The course will include stroke, match, and best ball strategy and cover weather, game management, and the mental aspects. The complete theory of the mechanics of the golf swing will be investigated and explored with reference to the scientific foundation of the maneuver. Prerequisites: PE 1321, PE 1331, and instructor's permission.

## PEC 250

**Baseball Fundamentals** . . . . . **3.0 Credits**  
Study of the basics involved in the total offensive and defensive scheme of baseball. Methods of instruction and techniques of performance will be covered along with specific progress drills.

## Physics Common Course

### PHYS& 100

**Physics Non-Sci Majors [M/S]** . . . . . **4.0 Credits**  
Introduces the principles and concepts of physics using elementary algebraic procedures. Selected topics from classical and modern physics. Primarily for the non-science major. Prerequisite: MATH 095 or MATH 096. (Previously PHY 100.)

### PHYS& 101

**Physics Lab Non-Sci Majors [M/S]** . . . . . **1.0 Credit**  
Lab to be taken concurrently with PHYS& 100. (Previously PHY 1001.)

### PHYS& 121

**General Physics I [M/S]** . . . . . **4.0 Credits**  
This course is designed for those students that are not majoring in a four-year engineering or physical science degree. Topics include measurement and units, vectors, motion in one and two dimensions, Newton's laws, work and energy, momentum and collisions, circular motion, gravity, and rotational motion. Prerequisite: MATH 113 or equivalent with a 2.0 or higher. (Previously PHY 105.)

### PHYS& 122

**General Physics II [M/S]** . . . . . **4.0 Credits**  
Solids and fluids, thermal physics, laws of thermodynamics, vibrations and waves, sound, electric forces and fields, electrical energy, capacitance. Prerequisite: PHYS& 121/PHYS& 131. (Previously PHY 106.)



## PHYS& 123

**General Physics III [M/S]** . . . . . **4.0 Credits**  
Resistance, direct current circuits, magnetism, inductance, alternating current circuits, electromagnetic waves, reflection, refraction, interference and diffraction of light, mirrors and lenses, and optical instruments. Prerequisite: PHYS& 122/PHYS& 132. (Previously PHY 107.)

## PHYS& 131

**General Physics Lab I [M/S]** . . . . . **1.0 Credit**  
Lab to be taken concurrently with PHYS& 121. (Previously PHY 1051.)

## PHYS& 132

**General Physics Lab II [M/S]** . . . . . **1.0 Credit**  
Lab to be taken concurrently with PHYS& 122. (Previously PHY 1061.)

## PHYS& 133

**General Physics Lab III [M/S]** . . . . . **1.0 Credit**  
Lab to be taken concurrently with PHYS& 123. (Previously PHY 1071.)

## PHYS& 221

**Engineering Physics I [M/S]** . . . . . **4.0 Credits**  
Physics for Engineering or Physical Science majors. Mechanics. Prerequisite: MATH& 151, or equivalent, with a G.P.A. of 2.0 or better. (Previously PHY 201.)

## PHYS& 222

**Engineering Physics II [M/S]** . . . . . **4.0 Credits**  
Mechanics, thermodynamics, and electromagnetism. Prerequisites: MATH& 152 and PHYS& 221/PHYS& 231. (Previously PHY 202.)

## PHYS& 223

**Engineering Physics III [M/S]** . . . . . **4.0 Credits**  
Electromagnetism and optics. Prerequisite: PHYS& 222/PHYS& 232. (Previously PHY 203.)

## PHYS& 231

**Engineering Physics Lab I [M/S]** . . . . . **1.0 Credit**  
Lab to be taken concurrently with PHYS& 221. (Previously PHY 2011.)

## PHYS& 232

**Engineering Physics Lab II [M/S]** . . . . . **1.0 Credit**  
Lab to be taken concurrently with PHYS& 222. (Previously PHY 2021.)

## PHYS& 233

**Engineering Physics Lab III [M/S]** . . . . . **1.0 Credit**  
Lab to be taken concurrently with PHYS& 223. (Previously PHY 2031.)

## Political Science

### POLS 104

**State and Local Government [S/B]** . . . . . **5.0 Credits**  
An examination of federal, state, and local government relationships; state executive, legislative, judicial, and political party systems; and forms of local governmental units. (Previously PS 104.)

## Political Science Common Course

### POLS& 200

**Introduction to Law** . . . . . **5.0 Credits**  
A continuation of BUS& 201. Topics covered include partnerships, corporations, real and personal property, financial arrangements, government regulatory schemes, and more. (Previously BA 255.)

### POLS& 201

**Intro Political Theory [S/B]** . . . . . **5.0 Credits**  
An introduction to fundamental concepts and theories in political science. This course uses classic and contemporary works of political thought to deal with basic issues in the study of politics, such as who should rule, and the nature and limits of political authority, and political rights. (Previously PS 150.)

## POLS& 202

**American Government [S/B]** . . . . . **5.0 Credits**  
A survey of the system and process of American national politics and government; including the structure and function of the executive, legislative, and judicial branches and the American political party system. (Previously PS 100.)

## POLS& 203

**International Relations [S/B]** . . . . . **5.0 Credits**  
An examination of various theoretical approaches to international politics, causes of war, approaches to peace, and sources of conflict in the contemporary world. (Previously PS 103.)

## POLS& 204

**Comparative Government [S/B]** . . . . . **5.0 Credits**  
A survey of the system and process of American national politics and government; including the structure and function of the executive, legislative, and judicial branches and the American political party system. (Previously PS 101.)

## Psychology

### PSYC 103

**Applied Psychology [S/B]** . . . . . **3.0 Credits**  
Designed to meet requirements for students graduating with vocational and technical degrees. The application of psychology in the workplace and the development of human relations skills is emphasized. (Previously PSY 100.)

### PSYC 106

**Child Growth & Development** . . . . . **3.0 Credits**  
This course provides an overview of all aspects of child growth and the developmental stages of children from conception to adolescence. You will study the physical, cognitive, linguistic, emotional, mental, social, and personality development of the child. It will help you understand the things and situations that can affect how a child behaves. (Previously PSY 106.)

### PSYC 201

**Social Psychology [S/B]** . . . . . **5.0 Credits**  
Interaction between the individual and the group with emphasis on how the group influences the behavior of individuals. Topics include conformity, aggression, communication, attitudes, attribution processes, group dynamics, and the social construction of reality. (Previously PSY 201.)

### PSYC 205

**Psychology of Adjustment [S/B]** . . . . . **5.0 Credits**  
A study of important findings of modern psychology as they relate to adjustment. Social development, personality theory, motivation, mental health, and resources for personal growth. (Previously PSY 205.)

### PSYC 2972

**Field Experience** . . . . . **1.0 - 3.0 Credits**  
The student will work as a volunteer in a community agency and complete a journal and report (usually one credit). Prerequisites: PSYC& 100 and instructor's permission. (Previously PSY 2972.)

## Psychology Common Course

### PSYC& 100

**General Psychology [S/B]** . . . . . **5.0 Credits**  
Introduction to the basic principles of human behavior and mental processes. Some areas of study are personality and learning theory, neurobiology, motivation, cognition, memory, research design, and methods. (Previously PSY 101.)

### PSYC& 180

**Human Sexuality** . . . . . **5.0 Credits**  
A survey of human sexuality from biological, psychological, sociocultural, and sociobiological perspectives. Topics include sexual orientation, sexual dysfunction, and sexually transmitted diseases. (Previously PSY 230.)



## PSYC& 200

**Lifespan Psychology [S/B]** . . . . . **5.0 Credits**  
A comprehensive survey of psychological development of the human from conception to death in relation to biological, physical, social, and psychological conditions. Prerequisite: PSYC& 100. (Previously PSY 240.)

## PSYC& 220

**Abnormal Psychology [S/B]** . . . . . **5.0 Credits**  
Explores mental disorders from sociocultural, neurobiological, psychodynamic, cognitive, and behavioral perspectives. Describes maladaptive mental disorders as well as their incidence and treatment. Prerequisite: PSYC& 100. (Previously PSY 202.)

## Radio Broadcasting

### RBR 101

**Radio Broadcasting 1** . . . . . **8.0 Credits**  
This course is designed to prepare individuals for entry-level employment in the radio broadcasting field. Students who take this class will learn about music format and programming, marketing, and sales. Opportunities to work on the air on KTCV FM 88.1. This class is a special Tech Prep course in partnership with Tri-Tech.

### RBR 102

**Radio Broadcasting 2** . . . . . **8.0 Credits**  
This is the second course in a series designed to prepare individuals for entry-level employment in the radio broadcasting field. Students who take this class will learn about music format and programming, marketing, and sales. Opportunities to work on the air on KTCV FM 88.1. This class is a special Tech Prep course in partnership with Tri-Tech.

### RBR 103

**Radio Broadcasting 3** . . . . . **8.0 Credits**  
This is the third course in a series designed to prepare individuals for entry-level employment in the radio broadcasting field. Students who take this class will learn about music format and programming, marketing, and sales. Opportunities to work on the air on KTCV FM 88.1. Also internship possibilities along with job shadows. This class is a special Tech Prep course in partnership with Tri-Tech.

## Radiologic Technology

### RATEC 101

**Introduction to Radiologic Technology** . . . . . **1.0 Credit**  
Surveys types and operations of hospital departments. Students learn medical ethics, basic radiation protection, chemistry, and methods of film processing, and construction of film. Prerequisite: acceptance into program.

### RATEC 102

**Radiographic Physics** . . . . . **5.0 Credits**  
Examines x-ray circuits, tubes, and x-ray equipment. Topics include design and application, troubleshooting and maintenance, equipment testing, imaging intensification, cineradiography, and advanced imaging procedures. Prerequisite: acceptance into program.

### RATEC 103

**Principles of Radiographic Exposure** . . . . . **3.0 Credits**  
Presents basic elements of radiologic technique and other factors influencing it. Format includes two-hour lectures and two-hour labs each week. Prerequisite: acceptance into program.

### RATEC 104

**Advanced Radiographic Procedures** . . . . . **4.0 Credits**  
Examines the theory and principles of contrast media used in radiologic examinations and special positioning. Prerequisite: acceptance into program.

## RATEC 105

**Introduction to Radiographic Technique** . . . . . **2.0 Credits**  
Introduces concepts of electromagnetic radiation necessary to understanding the production and control of x-radiation. Students learn how the radiographic image is created and what factors affect the appearance of that image. Prerequisite: acceptance into program.

## RATEC 106

**Computed Imaging** . . . . . **2.0 Credits**  
Presents computed imaging in comparison to screen-film technology. Topics include identifying components, understanding how they affect the image, and quality control. Prerequisite: acceptance into program.

## RATEC 107

**Positioning and Related Anatomy I** . . . . . **2.0 Credits**  
Presents basic positioning principles and terminology. Students get demonstration and film evaluation experience in positioning and related anatomy of the chest, abdomen, and upper extremities. Format includes one hour lecture and two hours lab each week. Prerequisite: acceptance into program.

## RATEC 108

**Positioning and Related Anatomy II** . . . . . **3.0 Credits**  
Provides demonstration and film evaluation experience in positioning and related anatomy of the spine, pelvis, and lower extremities. Format includes one hour lecture and two hours lab each week. Prerequisite: acceptance into program.

## RATEC 109

**Positioning and Related Anatomy III** . . . . . **3.0 Credits**  
Provides demonstration and film evaluation experience in positioning and related anatomy of the skull, facial bones, sinuses, and mastoids. Format includes a one hour-lecture and two-hour labs each week. Prerequisite: acceptance into program.

## RATEC 1103

**Clinical Education I** . . . . . **3.0 Credits**  
Provides supervised clinical experience at an affiliated healthcare site. Beginning RATEC students are assigned to clinical education sites, 40 hours per week for two weeks. Students get an orientation to hospital and department procedures, participate in ancillary radiology activities, and observe and perform diagnostic radiologic procedures. Prerequisite: acceptance into program.

## RATEC 1113

**Clinical Education II** . . . . . **5.0 Credits**  
Second in a series of supervised clinical education experiences. Students are assigned to clinical sites, 15 hours per week. Students observe and perform diagnostic radiologic procedures. Prerequisite: acceptance into program.

## RATEC 1123

**Clinical Education III** . . . . . **5.0 Credits**  
Third in a series of supervised clinical education experiences. Students are assigned to clinical sites, 15 hours per week. Specific performance objectives are established for the student. Prerequisite: acceptance into program.

## RATEC 1133

**Clinical Education IV** . . . . . **5.0 Credits**  
Fourth in a series of supervised clinical education experiences. Students are assigned to clinical sites, 15 hours per week. Specific performance objectives are established for the student. Prerequisite: acceptance into program.

## RATEC 120

**Nursing Procedures** . . . . . **2.0 Credits**  
Presents basic nursing procedures, emphasizing the role of the radiologic technologist in various patient-care situation. Incorporates seven hours of AIDS and bloodborne pathogen education. Prerequisite: acceptance into program.



## RATEC 121

**Patient Care . . . . . 2.0 Credits**  
Examines patient care and assessment in the imaging department, as well as in other special care units. Topics include medications and their administration, acute patient care, bedside radiography, and patient lines and tubes. Healthcare provider BLS is also included. Prerequisite: acceptance into program.

## RATEC 125

**Medical Terminology . . . . . 1.0 Credit**  
Presents a systematic approach to medical terminology combining word roots, prefixes, and suffixes. Prerequisite: acceptance into program.

## RATEC 127

**Introduction to Sectional Anatomy . . . . . 2.0 Credits**  
Expands knowledge of anatomy through the introduction of transverse and sagittal orientations. Students review normal anatomy of the brain, chest, abdomen, pelvis, neck, and spine. Prerequisite: acceptance into program.

## RATEC 207

**Concept Integration . . . . . 2.0 Credits**  
Prepares students for the American Registry of Radiologic Technologists exam through a comprehensive review.

## RATEC 2103

**Clinical Education V . . . . . 13.0 Credits**  
Fifth in a series of supervised clinical education experiences. Students are assigned to clinical sites, 40 hours per week for 11 weeks. Specific performance objectives are established for the student. Prerequisite: acceptance into program.

## RATEC 2113

**Clinical Education VI . . . . . 8.0 Credits**  
Sixth in a series of supervised clinical education experiences. Students are assigned to clinical sites, 24 hours per week. Specific performance objectives are established for the student. Prerequisite: acceptance into program.

## RATEC 2123

**Clinical Education VII . . . . . 8.0 Credits**  
Seventh in a series of supervised clinical education experiences. Students are assigned to clinical sites, 24 hours per week. Specific performance objectives are established for the student. Prerequisite: acceptance into program.

## RATEC 2133

**Clinical Education VIII. . . . . 8.0 Credits**  
Eighth in a series of supervised clinical education experiences. Students are assigned to clinical sites, 24 hours per week. Specific performance objectives are established for the student. Prerequisite: acceptance into program.

## RATEC 220

**Pathology I . . . . . 3.0 Credits**  
Introduces changes that occur in disease and injury, with application to radiologic technology. Topics include respiratory, skeletal, gastrointestinal, and urinary systems. Prerequisite: acceptance into program.

## RATEC 221

**Pathology II . . . . . 2.0 Credits**  
Continues RATEC 220. Students become familiar with the etiology, symptoms, prognosis, and imaging of disease processes of the cardiovascular, nervous, hemoparetic, endocrine, and reproductive systems. Prerequisite: acceptance into program.

## RATEC 230

**Quality Assurance . . . . . 2.0 Credits**  
Presents theory and practice for operating a successful quality assurance program in a diagnostic radiology department. Students discuss the importance of quality control with respect to healthcare costs, radiation exposure to patients, and improvement of the diagnostic quality of films. Prerequisite: acceptance into program.

## RATEC 240

**Radiation Biology and Protection . . . . . 3.0 Credits**  
Explores types of radiation, interaction of radiation with matter, and the effects of those interactions in human tissue. Students learn methods and principles of radiation protection for both patient and technologist. Prerequisite: acceptance into program.

## RATEC 296

**Special Topics in Radiology . . . . . 2.0 Credits**  
Allows study of special topics that may be necessary to update students in the field of radiologic technology. Prerequisite: acceptance into program or instructor's permission.

## Reading

### RDG 079

**Spelling . . . . . 1.0 - 3.0 Credits**  
This course teaches students how to improve their spelling through the use of spelling rules and in-context exercises. Grading is pass/no credit. Class is held in the Learning Opportunities Center (LOC) where instruction is a lab format.

### RDG 080

**Study Techniques . . . . . 1.0 - 3.0 Credits**  
Students become active learners by developing academic study strategies for college. Topics include needs assessments, campus resources, self (time) management, creating a study system, test preparation and taking. This is a directed learning course offered by the Learning Opportunities Center (LOC). Instruction includes textbook and web activities.

### RDG 081

**Study Techniques . . . . . 1.0 - 3.0 Credits**  
Students become active learners by developing academic study strategies for college. Topics include needs assessments, campus resources, self (time) management, creating a study system, test preparation and taking. This is a directed learning course offered by the Learning Opportunities Center (LOC). Instruction includes textbook and web activities.

### RDG 082

**Study Techniques . . . . . 1.0 - 3.0 Credits**  
Students become active learners by developing academic study strategies for college. Topics include needs assessments, campus resources, self (time) management, creating a study system, test preparation and taking. This is a directed learning course offered by the Learning Opportunities Center (LOC). Instruction includes textbook and web activities.

### RDG 083

**Vocabulary Improvement . . . . . 1.0 - 3.0 Credits**  
This developmental vocabulary class teaches students how to increase their vocabulary using an in-context approach. Two levels of text are available, based on reading level. Grading is pass/no credit. Class is held in the Learning Opportunities Center (LOC) where instruction is a lab format.

### RDG 084

**Vocabulary Improvement . . . . . 1.0 - 3.0 Credits**  
This developmental vocabulary class teaches students how to increase their vocabulary using an in-context approach. Two levels of text are available, based on reading level. Grading is pass/no credit. Class is held in the Learning Opportunities Center (LOC) where instruction is a lab format.

### RDG 085

**Vocabulary Improvement . . . . . 1.0 - 3.0 Credits**  
This developmental vocabulary class teaches students how to increase their vocabulary using an in-context approach. Two levels of text are available, based on reading level. Grading is pass/no credit. Class is held in the Learning Opportunities Center (LOC) where instruction is a lab format.



## RDG 086

### Reading Skills . . . . . 1.0 - 3.0 Credits

Designed for students needing individualized instruction to improve their proficiency in basic reading skills. After interpreting diagnostic testing in the Learning Opportunities Center (LOC), the instructor develops a program for each student. Grading is pass/no credit. Class is held in the LOC where instruction is a lab format. For those students whose schedules do not allow for Reading 091, this class serves as an alternate. Prerequisite: minimum ASSET score of 32, or teacher recommendation.

## RDG 087

### Reading Skills . . . . . 1.0 - 3.0 Credits

Designed for students needing individualized instruction to improve their proficiency in basic reading skills. After interpreting diagnostic testing in the Learning Opportunities Center (LOC), the instructor develops a program for each student. Grading is pass/no credit. Class is held in the LOC where instruction is a lab format. For those students whose schedules do not allow for Reading 091, this class serves as an alternate. Prerequisite: minimum ASSET score of 32, or COMPASS score of 45-60, or teacher recommendation.

## RDG 088

### Reading Skills . . . . . 1.0 - 3.0 Credits

Designed for students needing individualized instruction to improve their proficiency in basic reading skills. After interpreting diagnostic testing in the Learning Opportunities Center (LOC), the instructor develops a program for each student. Grading is pass/no credit. Class is held in the LOC where instruction is a lab format. For those students whose schedules do not allow for RDG 091, this class serves as an alternate. Prerequisite: minimum ASSET score of 32, or COMPASS score of 45-60, or teacher recommendation.

## RDG 089

### Speed Reading . . . . . 1.0 - 3.0 Credits

This class is designed to increase reading speed and to improve reading comprehension and vocabulary through the use of computer software. Grading is pass/no credit. Class is held in the Learning Opportunities Center (LOC) where instruction is a lab format.

## RDG 091

### Reading Skills . . . . . 3.0 Credits

Reinforces six essential reading comprehension skills: recognizing vocabulary in context, locating main ideas, understanding supporting details, identifying transitions, making inferences, outlining, and summarizing. This class gives students an opportunity to practice and improve these strategies. Prerequisite: minimum ASSET score of 32, or COMPASS score of 45-60, or teacher recommendation.

## RDG 099

### College Reading Skills . . . . . 3.0 Credits

Breaks reading down into the skills necessary for academic success: identification of unfamiliar words, main ideas, supporting details, and inferences; distinguishing among organization patterns, and between fact and opinion. Prerequisite: minimum ASSET score of 35, or COMPASS score of 61-81, or successful completion of RDG 091, or teacher recommendation.

## RDG 105

### Speed Reading . . . . . 1.0 - 3.0 Credits

This class is designed to increase reading speed and to improve reading comprehension and vocabulary through the use of computer software. Class is held in the Learning Opportunities Center (LOC) where instruction is a lab format.

## RDG 110

### Study Techniques . . . . . 1.0 - 3.0 Credits

Students become active learners by developing academic study strategies for college. Topics include needs assessments, campus resources, self (time) management, creating a study system, test preparation and taking. This is a directed learning course offered by the Learning Opportunities Center (LOC). Instruction includes textbook and web activities.

## RDG 115

### Vocabulary Improvement . . . . . 1.0 - 3.0 Credits

This class teaches students how to expand their vocabularies with emphasis on Greek and Latin root words. Also included are words often confused and misused, descriptive words, action words, name derivatives, and words from various academic disciplines. Class is held in the Learning Opportunities Center (LOC) where instruction is a lab format.

## Real Estate

### RE 207

#### Principles of Real Estate . . . . . 1.0 - 5.0 Credits

An overview of the sale, financing, transfer, and management of real estate, through lectures, discussion, workbooks, and video materials. Course completion qualifies for taking the Washington State Real Estate Licensing exam.

## Retail Associate

### RO 100

#### Introduction to Retail. . . . . 10.0 Credits

This class prepares students for working in a variety of customer service and cashiering positions in the retail wholesale and/or grocery industry. Students learn workplace skills along with the ability to provide excellent customer service and effectively handle monetary transactions. Prerequisites: minimum score of 221 on CASAS Reading and Math Assessments. Familiarity with keyboard and/or 10 key.

## Russian Common Course

### RUSS& 121

#### Russian I [H]. . . . . 5.0 Credits

Introduction to the Russian language including speaking and listening skills, reading, writing, and grammar, and Russian culture including geography, customs, daily life, and heritage. Designed for the novice learner of Russian, with little or no proficiency in the Russian language. Recommended that students have successfully completed at least ENGL 099. (Previously RUS 101.)

### RUSS& 122

#### Russian II [H]. . . . . 5.0 Credits

Introduction to the Russian language including speaking and listening skills, reading, writing, and grammar, and Russian culture including geography customs, daily life, and heritage. Prerequisite: RUSS& 121 or instructor's permission. (Previously RUS 102.)

### RUSS& 123

#### Russian III [H]. . . . . 5.0 Credits

Introduction to the Russian language including speaking and listening skills, reading, writing, and grammar, and Russian culture including geography, customs, daily life, and heritage. Prerequisite: RUSS& 122 or instructor's permission. (Previously RUS 103.)

## Science

### SCI 110

#### Natural History of the Columbia Basin Region [M/S]. . . . . 3.0 Credits

The course will examine basic principles of biology, geology, and environmental science through an understanding and appreciation of local ecosystems, human activities, and cultural history. The laboratory will include Saturday field trips and subsequent analysis of collected materials. A local emphasis on the role of the Columbia River will include a day long float trip on the Hanford Reach, observing salmon spawning and migratory eagles, and a discussion of natural and cultural history. Topics include Shrub-Steppe ecosystem structure, ornithology, wildlife management, local geology, cultural history, and environmental impacts of the Hanford site.



## SCI 1101

**Natural History of the Columbia Basin Region Lab [M/S]** . . . . **2.0 Credits**  
Lab to be taken concurrently with SCI 110.

## Social Science

### SSCI 100

**Social Science of American History** . . . . . **5.0 Credits**  
A survey of core concepts of sociology, psychology, economics, anthropology, and political science applied to American history. The course provides a basic foundation for subsequent social science courses.

### SSCI 290

**Social Research Methods [S/B]** . . . . . **4.0 Credits**  
This course introduces students to the theory, methodology, and some of the specific techniques of social science research. Students will learn how to compose research questions, review the literature, make measurements and obtain data, perform basic analyses of qualitative and quantitative data, and write up research findings. The course will also explore the philosophical underpinnings and ethical considerations involved in social research. This course is intended for students majoring in the social or behavioral sciences.

### SSCI 2901

**Social Research Methods Lab [S/B]** . . . . . **1.0 Credit**  
Lab to be taken concurrently with SSCI 290.

## Sociology

### SOC 150

**Marriage-Family [S/B]** . . . . . **5.0 Credits**  
The family is discussed in broad sociobiological, historical, and comparative perspectives. Modern family life is analyzed after conceptual frameworks have been developed.

### SOC 160

**Gender Studies** . . . . . **5.0 Credits**  
Societies create many roles for their members, depending upon technology, organization, and the distribution of power. Some of those roles are assigned on the basis of sex. This course examines the social creation of those gender roles assigned to sex and sexual behavior, and explores the inner life of acting out those roles.

### SOC 1972

**Field Experience** . . . . . **1.0 - 3.0 Credits**  
Arrangements will be made for the student to receive actual field experience. The number of hours per week will determine the credit enrollment. Prerequisites: SOC& 101 and instructor's permission.

### SOC 230

**Human Sexuality** . . . . . **3.0 Credits**  
A survey of human sexuality from biological, psychological, sociocultural, and sociobiological perspectives. Topics include sexual orientation, sexual dysfunction, and sexually transmitted diseases.

### SOC 269

**Sociology of World Cinema [S/B]** . . . . . **5.0 Credits**  
This course introduces students to one of the most vital and significant aspects of cultural life in the world. The world cinema is central to an artistic self-awareness that reflects a range of dominant social and cultural issues. Through a number of feature films from the Arab, Iranian, Israeli, Turkish, Chinese, Indian, French, Italian, German, Mexican, and American cinema, this course takes these cultural products as the aesthetic expressions of some enduring social, cultural, political, and economic concerns in contemporary world societies. A total of about ten feature films will be shown and discussed in the course of the quarter.

## SOC 2972

**Field Experience** . . . . . **1.0 - 3.0 Credits**  
Arrangements will be made for the student to receive actual field experience. The number of hours per week will determine the credit enrollment. Prerequisites: SOC& 101 and instructor's permission.

## Sociology Common Course

### SOC& 101

**Intro to Sociology [S/B]** . . . . . **5.0 Credits**  
An introduction to the scientific study of society. Emphasis on relationship of the individual to society, inequality, social institutions, and deviant behavior. (Previously SOC 101.)

### SOC& 201

**Social Problems [S/B]** . . . . . **5.0 Credits**  
Examines conditions that adversely affect the quality of life in the United States. Deviant behavior (crime, alcoholism, drug abuse, sexual deviance, mental illness) and problems of inequality (including poverty, racism, and sexism) will be covered. (Previously SOC 201.)

## Spanish

### SPAN 104

**Intensive 1st Year Spanish [H]** . . . . . **15.0 Credits**  
An intensive introduction to the Spanish language (including speaking and listening skills, reading, writing, and grammar) and Hispanic culture (including geography, customs, daily life, and heritage). (Previously SPA 104.)

### SPAN 110

**Beginning Spanish for Professionals [H]**. . . . . **5.0 Credits**  
A beginning-level Spanish course designed for those who interact with Spanish-speaking people professionally as customers, clients, patients, or co-workers. This course is also intended for students who intend to follow business, service, legal, or medical professions. The class will begin with basic Spanish language study, followed by activities specifically designed to meet the individual needs and professions of the participants. No previous Spanish is required. (Previously SPA 110.)

### SPAN 111

**Intermediate Spanish for Professionals [H]**. . . . . **5.0 Credits**  
The second level of Spanish for Professionals, is a course designed for those who interact with Spanish-speaking people professionally as customers, clients, patients, or co-workers. This course is also intended for students who intend to follow business, service, legal, or medical professions. Continuing basic Spanish instruction will be followed by activities specifically designed to meet the individual needs and professions of the participants. Prerequisite: SPAN 110, SPAN& 121, or instructor's permission. (Previously SPA 111.)

### SPAN 112

**Advanced Spanish for Professionals [H]** . . . . . **5.0 Credits**  
The third level of Spanish for Professionals, a course designed for those who interact with Spanish-speaking people professionally as customers, clients, patients, or co-workers. This course is also intended for students who intend to follow business, service, legal, or medical professions. Continuing Spanish language instruction will be followed by activities specifically designed to meet the individual needs and professions of the participants. Prerequisite: SPAN 111, SPAN& 122, or instructor's permission. (Previously SPA 112.)

### SPAN 150

**Beginning Conversational Spanish** . . . . . **1.0 - 5.0 Credits**  
Intensive practice in speaking and listening with an emphasis on surviving in everyday situations. Recommended that students have successfully completed at least SPAN& 121. (Previously SPA 150.)



## SPAN 151

**Beginning Conversational Spanish . . . . . 1.0 - 5.0 Credits**  
Intensive practice in speaking and listening with an emphasis on surviving in everyday situations. Recommended that students have successfully completed at least SPAN& 121. (Previously SPA 151.)

## SPAN 152

**Conversational Spanish . . . . . 5.0 Credits**  
Intensive practice in speaking and listening with an emphasis on surviving in everyday situations. Recommended that students have successfully completed SPAN& 121. (Previously SPA 152.)

## SPAN 205

**Spanish for Spanish Speakers [H] . . . . . 5.0 Credits**  
Native or near-native speakers of Spanish will develop and improve reading, writing, and grammar skills in their native language, while learning to appreciate the depth and diversity of Latino culture both in the United States and abroad. Special attention will be given to spelling, accents, grammar, and vocabulary of standard Spanish. Students will also be introduced to a comprehensive and analytical survey of Spanish and Latin American literature. (Previously SPA 205.)

## SPAN 206

**Spanish for Spanish Speakers [H] . . . . . 5.0 Credits**  
Native or near-native speakers of Spanish develop and improve reading, writing, and grammar skills in their native language, while learning to appreciate the depth and diversity of Latino culture both in the United States and abroad. Special attention is given to advanced grammar and vocabulary of standard Spanish. Students are introduced to a comprehensive and analytical survey of Spanish and Latin American literature. Prerequisite: SPAN 205 or instructor's permission. (Previously SPA 206.)

## SPAN 207

**Spanish For Spanish Speakers [H] . . . . . 5.0 Credits**  
Native or near-native speakers of Spanish develop and improve reading, writing, and grammar skills in their native language, while learning to appreciate the depth and diversity of Latino culture both in the United States and abroad. Special attention is given to advanced grammar and vocabulary of standard Spanish. Students are introduced to a comprehensive and analytical survey of Spanish and Latin American literature, as well as theoretical and practical approaches in Spanish translating and interpreting. Prerequisite: SPAN 206 or instructor's permission. (Previously SPA 207.)

## SPAN 250

**Intermediate Conversational Spanish . . . . . 1.0 - 5.0 Credits**  
Intensive practice in speaking Spanish for students who have already gained a knowledge of beginning-level grammar and vocabulary. Class will be conducted entirely in Spanish. Prerequisite: one year of college-level Spanish or instructor's permission. (Previously SPA 250.)

## SPAN 251

**Intermediate Conversational Spanish . . . . . 1.0 - 5.0 Credits**  
Intensive practice in speaking Spanish for students who have already gained a knowledge of beginning-level grammar and vocabulary. Class will be conducted entirely in Spanish. Prerequisite: one year of college-level Spanish or instructor's permission. (Previously SPA 251.)

## SPAN 252

**Intermediate Conversational Spanish . . . . . 1.0 - 5.0 Credits**  
Intensive practice in speaking Spanish for students who have already gained a knowledge of beginning-level grammar and vocabulary. Class will be conducted entirely in Spanish. Prerequisite: one year of college-level Spanish or instructor's permission. (Previously SPA 252.)

## SPAN 260

**Spanish Literature Readings [H] . . . . . 3.0 Credits**  
An introduction to Spanish and Spanish American Literature, with reading selections from a variety of Hispanic authors and discussions of literary movements and periods. Taught entirely in Spanish. Prerequisite: SPAN& 223 or instructor's permission. (Previously SPA 260.)

## SPAN 261

**Spanish Literature Readings [H] . . . . . 3.0 Credits**  
An introduction to Spanish and Spanish American literature, with reading selections from a variety of Hispanic authors and discussions of literary movements and periods. Taught entirely in Spanish. Prerequisite: SPAN& 223 or instructor's permission. (Previously SPA 261.)

## SPAN 262

**Spanish Literature Readings [H] . . . . . 3.0 Credits**  
An introduction to Spanish and Spanish American literature, with reading selections from a variety of Hispanic authors and discussions of literary movements and periods. Taught entirely in Spanish. Prerequisite: SPAN& 223 or instructor's permission. (Previously SPA 262.)

## Spanish Common Course

### SPAN& 121

**Spanish I [H] . . . . . 5.0 Credits**  
Introduction to the Spanish language including conversational skills, reading, writing, and grammar, and Hispanic culture including geography, customs, daily life, and heritage. Designed for the novice learner of Spanish, with little or no proficiency in the Spanish language. Recommended that students have successfully completed at least ENGL 099. (Previously SPA 101.)

### SPAN& 122

**Spanish II [H] . . . . . 5.0 Credits**  
Introduction to the Spanish language including conversational skills, reading, writing, and grammar, and Hispanic culture including geography, customs, daily life, and heritage. Prerequisite: SPAN& 121 or instructor's permission. (Previously SPA 102.)

### SPAN& 123

**Spanish III [H] . . . . . 5.0 Credits**  
Introduction to the Spanish language including conversational skills, reading, writing, grammar, and Hispanic culture including geography, customs, daily life, and heritage. Prerequisite: SPAN& 122 or instructor's permission. (Previously SPA 103.)

### SPAN& 221

**Spanish IV [H] . . . . . 5.0 Credits**  
Extensive practice in all four language skills (reading, writing, speaking, listening). The course includes cultural readings and short stories and an in-depth review of basic Spanish grammar, expansion of basic vocabulary, and a broadening of the student's understanding of Hispanic culture. Prerequisite: SPAN& 123 or instructor's permission. (Previously SPA 201.)

### SPAN& 222

**Spanish V [H] . . . . . 5.0 Credits**  
Extensive practice in all four language skills (reading, writing, speaking, listening). The course includes cultural readings and short stories and an in-depth review of basic Spanish grammar, expansion of basic vocabulary, and a broadening of the student's understanding of Hispanic culture. Prerequisite: SPAN& 221 or instructor's permission. (Previously SPA 202.)

### SPAN& 223

**Spanish VI [H] . . . . . 5.0 Credits**  
Extensive practice in all four language skills (reading, writing, speaking, listening). The course includes cultural readings and short stories and an in-depth review of basic Spanish grammar, expansion of basic vocabulary and a broadening of the student's understanding of Hispanic culture. Prerequisite: SPAN& 222 or instructor's permission. (Previously SPA 203.)



## Surgical Technology

### SRGT 101

#### Introduction to Surgical Technology . . . . . 4.0 Credits

This class is an introduction to the knowledge and techniques essential to the surgical technician in preparation for a surgical procedure. Areas of emphasis include expertise in preparation/utilization of equipment and supplies, sterilization and disinfection, aseptic techniques, instrumentation, surgical accessories and duties of the surgical technologist, working as a member of the surgical team.

### SRGT 1011

#### Introduction to Surgical Technology Lab . . . . . 2.0 Credits

This class is an introduction to the knowledge and techniques essential to the surgical technician in preparation for a surgical procedure. Areas of emphasis will include expertise in preparation/utilization of equipment and supplies, sterilization and disinfection, aseptic techniques, instrumentation, surgical accessories and duties of the surgical technologist, working as a member of the surgical team.

### SRGT 102

#### Disease Transmission and Control . . . . . 3.0 Credits

This class provides an understanding of the basic concepts of microbiology as related to surgical procedures and overall patient safety, and proper application in the operating room environment as identified in the core curriculum for surgical technologists.

### SRGT 103

#### Ethics & Professionalism . . . . . 2.0 Credits

This class will provide an understanding of the necessary ethical and legal background to address ethical dilemmas, participate in the functioning of organizational ethical issues and ethics committees, ethical and legal concepts, and the law as related to every aspect of the decision-making process in the healthcare setting, and resolving ethical conflicts and dilemmas.

### SRGT 104

#### Pharmacology for the Surgical Technologist . . . . . 5.0 Credits

This class provides a basic knowledge of the language of pharmacology including reading, interpreting, and documenting medication orders; systems of measurement and conversions; measuring medications for administration; calculating dosages and solutions; routes of administration for the surgical patient; anesthesia agents and principles of anesthesia administration; medications used in emergency situations in the operating room. Prerequisites: completion of major support classes for Surgical Technology and acceptance into the Surgical Technology program.

### SRGT 110

#### Operating Room Aide . . . . . 3.0 Credits

This class will teach the essential knowledge to help the student build a sound foundation to be a part of the operating room team.

### SRGT 1101

#### Operating Room Aide Lab . . . . . 2.0 Credits

This class will teach the essential knowledge necessary to build a sound foundation to function as an operating room aide.

### SRGT 120

#### Central Service . . . . . 1.0 Credit

This class provides an understanding of the necessary aseptic and sterile techniques necessary to perform the essential job duties of central processing personnel.

### SRGT 1201

#### Central Service Clinical . . . . . 1.0 Credit

This class provides the essential aseptic and sterile skills necessary to perform the essential job duties of central processing personnel.

### SRGT 130

#### Human Anatomy for the Surgical Technician . . . . . 4.0 Credits

This class provides students with applicable surgical knowledge necessary to be able to relate to the patient and coworkers and use reasoned judgment in meeting the expectations of the operating room environment.

### SRGT 1301

#### Human Anatomy for the Surgical Technician Lab . . . . . 2.0 Credits

This class will provide students the knowledge necessary to be able to relate to the patient and coworkers and use reasoned judgment in meeting the expectations of the operating room environment.

### SRGT 1411

#### Operating Room Practicum I Lab . . . . . 6.0 Credits

This class provides an opportunity to apply the theory learned in the classroom setting to a healthcare setting through practical, hands-on experience.

### SRGT 150

#### Surgical Procedures I . . . . . 4.0 Credits

This class provides students the knowledge necessary to be able to relate to the patient and coworkers and use reasoned judgment in meeting the expectations of the operating room environment.

### SRGT 1501

#### Surgical Procedures I Lab . . . . . 2.0 Credits

This class provides students the skills necessary to be able to relate to the patient and coworkers and use reasoned judgment in meeting the expectations of the operating room environment.

### SRGT 160

#### Perioperative Patient Care . . . . . 2.0 Credits

This class teaches the Peri-Operative responsibilities as they relate to patient safety, and code of conduct.

### SRGT 1601

#### Perioperative Patient Care Lab. . . . . 1.0 Credit

This class provides the fundamental skills of Peri-Operative case management.

### SRGT 240

#### Surgical Seminar . . . . . 3.0 Credits

This course is to be taken concurrently with the Operating Room Practicum II for Surgical Technologists. The seminar will provide current information regarding workplace issues, technologies, and advancements in healthcare pertinent to the practicum experience. Students will be engaged in discussions based on their experiential learning opportunities within the practicum.

### SRGT 2411

#### Operating Room Practicum II . . . . . 10.0 Credits

This class is a progression from SRGT 150, and provides students the necessary skills to be able to relate to the patient and coworkers and use reasoned judgment in meeting the expectations of the operating room environment. Clinical experience focuses on the advanced skills that will assist the student to transition from the classroom to employment.

### SRGT 250

#### Surgical Procedures II. . . . . 4.0 Credits

This class is a progression from SRGT 150, and provides students the necessary skills, and techniques to be able to relate to the patient and coworkers and use reasoned judgment in meeting the expectations of the operating room environment. Clinical experience focuses on the advanced skills that will assist the student to transition from the classroom to employment.

### SRGT 2501

#### Surgical Procedures II Lab . . . . . 2.0 Credits

This class is a progression from SRGT 1501, and provides students the necessary knowledge to be able to relate to the patient and coworkers and use reasoned judgment in meeting the expectations of the operating room environment. Clinical experience focuses on the advanced skills that will assist the student to transition from the classroom to employment.



## Theatre

### DRMA 1001

**Theatre Study Tour** . . . . . **1.0 - 3.0 Credits**  
Students participate in a field trip experience to attend professional, commercial theatre. Destinations are selected among Ashland, Los Angeles, Seattle, San Francisco, Portland, and New York City. Students meet for analysis and discussions before and after attending the planned events. Fees apply. May be repeated for credit. (Previously THA 1001.)

### DRMA 1051

**Rehearsal and Performance.** . . . . **1.0 - 3.0 Credits**  
Participation in college theatre productions on stage and backstage. After play auditions for each quarter, the class, composed of students selected for cast and production staff positions, will be involved in rehearsals and performances. (Previously THA 1051.)

### DRMA 1061

**Rehearsal and Performance.** . . . . **1.0 - 3.0 Credits**  
Participation in college theatre productions on stage and backstage. After play auditions for each quarter, the class, composed of students selected for cast and production staff positions, will be involved in rehearsals and performances. (Previously THA 1061.)

### DRMA 1071

**Rehearsal and Performance.** . . . . **1.0 - 3.0 Credits**  
Participation in college theatre productions on stage and backstage. After play auditions for each quarter, the class, composed of students selected for cast and production staff positions, will be involved in rehearsals and performances. (Previously THA 1071.)

### DRMA 110

**Creative Dramatics** . . . . . **3.0 Credits**  
A course in the fundamentals of creative dramatics. This course fosters some competency in teaching drama skills to children, through the combined use of theatre games, improvisation, class exercises, lectures, and discussion. Recommended for Education majors. Recommended: DRMA 2251 Touring Children's Theatre (previously THA 2251). (Previously THA 110.)

### DRMA 120

**Acting-Beginning** . . . . . **3.0 Credits**  
An introductory course in acting fundamentals. Basic fundamentals such as the playing of actions and objectives, imagination, relaxation, and concentration will be explored through improvisation, scenework, and the study of theory. (Previously THA 120.)

### DRMA 121

**Acting-Intermediate** . . . . . **3.0 Credits**  
An intermediate studio acting course which is a continuation of DRMA 120. This course continues its focus on creating a character with internal truth that is presented with an awareness of external craft, including interpretive skills, through a variety of exploratory exercises. Class culminates in performance final. Prerequisite: DRMA 120 or instructor's permission. (Previously THA 121.)

### DRMA 122

**Acting-Advanced** . . . . . **3.0 Credits**  
An advanced studio acting course which is a continuation of DRMA 121. This course continues its focus on creating a character with internal truth that is presented with an awareness of external craft, including interpretive skills, through exploration of scenes, monologues, and readings. Students will broaden their knowledge of dramatic literature and build their repertoire of audition monologues. Prerequisites: DRMA 120 and DRMA 121 or instructor's permission. (Previously THA 122.)

### DRMA 1261

**Stagecraft** . . . . . **1.0 - 3.0 Credits**  
A study of the technical aspects of stage craft, and some design, with an emphasis on construction techniques. During lab times, students will gain a working knowledge of shop tools, their application, shop safety, and crew protocol. (Previously THA 1261.)

### DRMA 1271

**Stagecraft** . . . . . **1.0 - 3.0 Credits**  
A study of the technical aspects of stage craft, and some design, with an emphasis on construction techniques. During lab times, students will gain a working knowledge of shop tools, their application, shop safety, and crew protocol. (Previously THA 1271.)

### DRMA 1281

**Stagecraft** . . . . . **1.0 - 3.0 Credits**  
A study of the technical aspects of stage craft, and some design, with an emphasis on construction techniques. During lab times, students will gain a working knowledge of shop tools, their application, shop safety, and crew protocol. (Previously THA 1281.)

### DRMA 130

**Stage Movement** . . . . . **1.0 - 3.0 Credits**  
This course explores various types of movement particularly useful for the stage, inclusive of dance, ballet, and stylized period movement. It is a technique class intended to help the student gain control of his/her body (and thus more effectively use it on stage), and to introduce various skills and functions useful to period plays. May be repeated for credit. (Previously THA 130.)

### DRMA 149

**Special Studies** . . . . . **1.0 - 3.0 Credits**  
Topics vary from among dramatic literature, acting styles, directing, theory, criticism, aesthetics, history, and design. May be repeated for credit. (Previously THA 149.)

### DRMA 1971

**TV Project Field Study.** . . . . **1.0 - 3.0 Credits**  
An independent study class that occurs in the work place. The student may or may not be paid. It will require 55 work hours for each credit under the supervision of a full-time television technology instructor. The student is required to secure the field position. Prerequisite: instructor's permission. (Previously THA 1971.)

### DRMA 2001

**Theatre Study Tour** . . . . . **1.0 - 3.0 Credits**  
Students participate in a field trip experience to attend professional, commercial theatre. Destinations are selected among Ashland, Los Angeles, Seattle, San Francisco, Portland, and New York City. Students meet for analysis and discussions before and after attending the planned events. Fees apply. May be repeated for credit. (Previously THA 2001.)

### DRMA 215

**Survey of Theatre History [H]** . . . . . **5.0 Credits**  
This is a survey course that will cover significant trends and innovations throughout theatre history from its inception in ancient Greece through the present. The emphasis, however, will be on early theatre and its development and evolution. (Previously THA 215.)

### DRMA 216

**Acting for the Camera** . . . . . **3.0 Credits**  
Instruction and practice in the basics of acting for both TV and film style productions. Playing to the camera, shooting out of sequence, blocking and other production considerations. Prerequisite: DRMA 120 or instructor's permission. (Previously THA 216.)

### DRMA 217

**Classical Acting** . . . . . **1.0 - 3.0 Credits**  
An introductory course in basic fundamentals, such as movement, posture, voice work, and delivery and analysis of text will be explored through research, scene work, exercises, and the study of classical period practices. Prerequisite: DRMA 120 or instructor's permission.



## DRMA 2201

**Acting Studio . . . . . 1.0 - 3.0 Credits**  
A professional acting studio which utilizes class performances of scenes and monologues, as well as class discussions of theory. This course focuses on creating a character with internal truth (Stanislavskian-based) that is presented with an awareness of external craft, including interpretive skills. Emphasis is placed on actor coaching and discovery. Prerequisite: DRMA 120 or instructor's permission. (Previously THA 2201.)

## DRMA 2211

**Acting Studio . . . . . 1.0 - 3.0 Credits**  
A professional acting studio which utilizes class performances of scenes and monologues, as well as class discussions of theory. This course focuses on creating a character with internal truth (Stanislavskian-based) that is presented with an awareness of external craft, including interpretive skills. Emphasis is placed on actor coaching and discovery. Prerequisite: DRMA 120 or instructor's permission. (Previously THA 2211.)

## DRMA 2221

**Acting Studio . . . . . 1.0 - 3.0 Credits**  
A professional acting studio which utilizes class performances of scenes and monologues, as well as class discussions of theory. This course focuses on creating a character with internal truth (Stanislavskian-based) that is presented with an awareness of external craft, including interpretive skills. Emphasis is placed on actor coaching and discovery. Prerequisite: DRMA 120 or instructor's permission. (Previously THA 2221.)

## DRMA 2251

**Touring Children's Theatre . . . . . 1.0 - 3.0 Credits**  
This course involves adapting and developing material from children's stories and original literature into theatrical presentations. Emphasis is on ensemble acting and improvisation skills. The second half of the quarter focuses on performance, as group tours area schools. (Previously THA 2251.)

## DRMA 2271

**Touring Rep Part I . . . . . 1.0 - 3.0 Credits**  
This course is a two-quarter commitment. The first quarter involves casting, language, and script study, and rehearsal of the one-hour classical play that will be presented to middle and high schools during the second quarter. This course emphasizes ensemble acting, learning how to work with classical text, learning iambic pentameter and other meters, as well as how to act and "heighten" classical text. (Previously THA 2271.)

## DRMA 2281

**Touring Rep Part II. . . . . 1.0 - 3.0 Credits**  
This course is a two-quarter commitment. The second quarter class travels to Washington middle and high schools, performing the previously rehearsed material. Students learn the challenges and skills of touring theatre, with emphasis on ensemble acting and touring techniques. Prerequisite: DRMA 2271. (Previously THA 2281.)

## DRMA 2301

**Stage Combat . . . . . 2.0 Credits**  
This is an introductory course, meant to teach the basics required for safe and effective stage combat. This is a course for students who wish to pursue theatre as a career option, and want to learn new skills to add to their repertoire. This is not a certification course, however you will learn the skills that will lay the foundation for future stage combat education. (Previously THA 2301.)

## DRMA 242

**Design Essentials . . . . . 3.0 Credits**  
This is an introductory course in developing basic skills in visualization, period research, graphic techniques, and script interpretation for theatre design, the focus being on scenic and costume design approaches. (Previously THA 242.)

## DRMA 2431

**Stage Costuming . . . . . 1.0 - 3.0 Credits**  
An introductory course in the theory and practice of stage costume design and construction. (Previously THA 2431.)

## DRMA 244

**Stage Makeup . . . . . 1.0 - 2.0 Credits**  
A course covering the basics of stage makeup design as an extension of characterization. Students will learn the techniques of makeup application, including youth, middle-age, old-age, and "specialty" makeup. (Previously THA 244.)

## DRMA 2451

**Sound Design . . . . . 1.0 - 3.0 Credits**  
An introduction to sound design for theatre. The class will focus on the equipment, typical set-ups for theatre, and the design concepts for the use of sound in today's theatre environments. Prerequisite: DRMA 242 or instructor's permission. (Previously THA 2451.)

## DRMA 2461

**Stage Lighting . . . . . 1.0 - 3.0 Credits**  
A beginning course in the theory and practice of stage lighting. The course is a "hands-on" approach to design and technical drawing. Lab time involves "hang and focus", crew techniques and protocol, and special projects. (Previously THA 2461.)

## DRMA 248

**Stage Management . . . . . 2.0 Credits**  
A course which examines the work of the stage manager. The course covers the management of the stage and explores the "business" aspects of the commercial theatre. Emphasis is placed on preparing students for stage managing in the commercial theatre and to prepare him/her to pursue a theatre career with an enlightened view of theatre as a business. Prerequisite: instructor's permission. (Previously THA 248.)

## DRMA 249

**Special Studies . . . . . 1.0 - 3.0 Credits**  
Topics vary from among dramatic literature, acting styles, directing, theory criticism, aesthetics, history, and design. May be repeated for credit. (Previously THA 249.)

## DRMA 250

**Directing for the Stage . . . . . 3.0 Credits**  
An introductory course in the theory and practice of directing for the stage. Students explore analysis, interpretation, and concept formulation of dramatic literature. Communication and collaboration is emphasized. Prerequisite: DRMA& 101 or DRMA 120 or instructor's permission. (Previously THA 250.)

## DRMA 2971

**TV Project Field Study. . . . . 1.0 - 3.0 Credits**  
An independent study class that occurs in the work place. The student may or may not be paid. Requires 55 work hours for each credit under the supervision of a full-time television technology instructor. The student is required to secure the field position. Prerequisite: instructor's permission. (Previously THA 2971.)

## Theatre Common Course

### DRMA& 101

**Intro to Theatre [H] . . . . . 5.0 Credits**  
An exploration of the many facets of theatre and the many creative artists who comprise the theatre arts. The student studies the history of theatre, styles of production, plays, playwrights, directors, actors, critics, and designers. (Previously THA 115.)

## Welding Technology

### WT 100

**Basic Welding . . . . . 1.0 Credit**  
A basic introduction to welding designed for students exploring the trade. Introductory information about various welding processes will be presented, including safety concepts. This class meets the welding requirements of the Autobody program. Concurrent enrollment in WT 1001 is required.



<p><b>WT 1001</b>  <b>Basic Welding Lab</b> . . . . . <b>.1.0 - 3.0 Credits</b>  This class is designed for students wanting to explore the welding trade. It is also available for automotive and autobody technology students to meet their required welding class. The class provides hands-on demonstrations, as well as personalized instruction of various welding applications including safety, set-up and tear down, and methods of operation for oxy-acetylene, arc welding, and wire feed welding.</p> <p><b>WT 101</b>  <b>Oxy-Acetylene Process</b> . . . . . <b>.1.0 Credit</b>  A theoretical approach to give students an understanding in the areas of oxy-acetylene cutting, welding, and brazing of various metals. This class is for the beginning entry-level student. Subject matter will focus on background of the process and safety of this process and equipment and its uses.</p> <p><b>WT 1011</b>  <b>Oxy-Acetylene Process Lab</b> . . . . . <b>.1.0 - 3.0 Credits</b>  Hands-on experience in a laboratory situation with the use of oxygen-acetylene equipment. Safety equipment set up/shut down, manual and automatic cutting, identification of metals.</p> <p><b>WT 1021</b>  <b>Introduction to Shield Metal Arc Welding</b> . . . . . <b>1.0 - 10.0 Credits</b>  An introduction to mild steel arc welding, consisting of manipulative skills using the shield metal arc process with E6010 type mild steel electrode. Prerequisite: ASSET test placement with a math minimum of 32 and a reading minimum of 35 or instructor's permission.</p> <p><b>WT 103</b>  <b>Fund of Major Processes and Their Consumables</b> . . . . . <b>.1.0 - 5.0 Credits</b>  This is the systems' approach to welded design, the design of welded joints, and allowable for welds. Arc welding consumables will also be covered. The student will also become familiar with various welding processes.</p> <p><b>WT 1031</b>  <b>Advanced Shield Metal Arc Welding</b> . . . . . <b>1.0 - 10.0 Credits</b>  This course will develop welding skills to meet AWS and ASME standards using the shielded metal arc process. Prerequisite: WT 1021 or instructor's permission.</p> <p><b>WT 1041</b>  <b>Shield Metal Arc Welding Certification</b> . . . . . <b>1.0 - 10.0 Credits</b>  Advanced development of arc welding skills to meet AWS, WABO, and ASME certification standards using the shielded metal process. Prerequisite: WT 1031 or instructor's permission.</p> <p><b>WT 1051</b>  <b>Gas Metal Arc Welding (MIG) Certificate</b> . . . . . <b>1.0 - 10.0 Credits</b>  An introduction to gas metal arc welding, consisting of manipulative skills using the gas metal arc process. Prerequisite: WT 1031 or instructor's permission.</p> <p><b>WT 108</b>  <b>Fabrication Technique I</b> . . . . . <b>.1.0 Credit</b>  This course is designed to aid students in understanding the variables that greatly affect welding fabrication. Prerequisites: WT 1021 or instructor's permission.</p> <p><b>WT 1081</b>  <b>Fabrication Technique I Lab</b> . . . . . <b>3.0 Credits</b>  This course is designed to aid students in understanding the variables that greatly affect welding fabrication. Students will have hands-on and field work experience utilizing a welding truck for structural fabrication including hoisting and rigging. Prerequisite: WT 1021 or instructor's permission.</p> <p><b>WT 1301</b>  <b>Metallic Arc Refresher</b> . . . . . <b>1.0 - 10.0 Credits</b>  Designed primarily for tradesmen who need upgrading in shielded metallic arc welding. Includes instruction and practice for upgrading skills, test qualifications, and special application. Prerequisite: trade experience. A test may be given to verify experience.</p>	<p><b>WT 144</b>  <b>Welding Upgrade</b> . . . . . <b>.1.0 Credit</b>  This course provides an opportunity for journeyman welders to upgrade their skills for current employment opportunities. Prerequisite: instructor's permission. Credits depend on how many hours.</p> <p><b>WT 154</b>  <b>WABO Testing</b> . . . . . <b>.1.0 - 2.0 Credits</b>  This course provides required testing to meet the standards for structural steel welding. When the student passes the test, the Welding program submits required test results to the Washington Association of Building Officials (WABO) and they issue certification to the student. Prerequisite: instructor's permission. Credits depend on type of test.</p> <p><b>WT 201</b>  <b>Weldability of Metals</b> . . . . . <b>.1.0 - 5.0 Credits</b>  This course introduces the concepts that explain the metallurgical behavior and determine the weldability of ferrous and non-ferrous metals. Prerequisites: WT 1041, WT 108, and WT 1081.</p> <p><b>WT 2011</b>  <b>Introduction to Pipe Welding</b> . . . . . <b>1.0 - 10.0 Credits</b>  An introduction to pipe welding using mild steel pipe and the shield metal arc process with E6010/E7081 covered electrode. Develop the necessary welding skills and techniques to prepare for certification in accordance with ASME code. Prerequisite: WT 1041, WT 1051, or instructor's permission.</p> <p><b>WT 202</b>  <b>Welding Inspection</b> . . . . . <b>.1.0 - 5.0 Credits</b>  This course has been designed to acquaint the student with fundamental information and to help in the preparation for the AWS Welding Inspector Certification examination.</p> <p><b>WT 2021</b>  <b>Gas Tungsten Arc Welding (TIG)</b> . . . . . <b>1.0 - 10.0 Credits</b>  This course is designed for the welding of plate and pipe using the Gas Tungsten Arc Welding (GTAW) process. Instruction will stress developing proper manipulative techniques and skills necessary to certify using the GTAW process. Prerequisite: WT 2011 or instructor's permission.</p> <p><b>WT 2031</b>  <b>Pipe Welding Certification</b> . . . . . <b>1.0 - 10.0 Credits</b>  This course will have special emphasis on qualification tests for piping and tubing. Prerequisite: WT 2021 or instructor's permission.</p> <p><b>WT 208</b>  <b>Fabrication Technique II</b> . . . . . <b>.1.0 Credit</b>  This course is designed to aid students in understanding the variables that greatly affect welding fabrication. Prerequisite: WT 2021 or instructor's permission.</p> <p><b>WT 2081</b>  <b>Fabrication Technique II Lab</b> . . . . . <b>3.0 Credits</b>  This course is designed to aid students in understanding the variables that greatly affect the welding of pipe fabrication. Students will have hands-on and field work experience utilizing a welding truck for pipe fabrication including hoisting and rigging. Prerequisite: WT 2021 or instructor's permission.</p> <p><b>WT 2301</b>  <b>Pipe Welding Refresher</b> . . . . . <b>1.0 - 10.0 Credits</b>  This course is designed for tradesmen who need upgrading on pipe welding procedures and skills for employment in the piping field. Includes instruction and practice for upgrading welding test qualifications and special applications. Prerequisite: trade experience. A test may be given to verify experience.</p>
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## WT 2302

**Pipe Welding Refresher . . . . . 1.0 - 3.0 Credits**  
\$10 lab fee required.

## WT 241

**Automated Welding . . . . . 1.0 - 5.0 Credits**  
This class examines the principle of orbital tube and pipe welding. The welding equipment and how it functions, proper set up of equipment, how to create weld schedules, controlling welding variables, material preparation, and weld joint fit up and safety.

## WT 2411

**Automated Welding Lab . . . . . 1.0 - 5.0 Credits**  
This is a lab class that facilitates the practical application of orbital tube and pipe welding. Safe set up of welding equipment, material preparation, weld joint fit up, and practical orbital welding. Prerequisite: concurrent enrollment in WT 241.

## Wine Tasting Room Attendant

### WINE 100

**Wine Tasting Room Attendant . . . . . 1.0 - 7.0 Credits**  
This course prepares participants for employment in setting where wine is served and/or tasted. Major concepts include the history of wine, major wine varieties, wine pouring and tasting, pairing of wine and food, and legal issues associated with wine service. Preparation for licensure through the Washington State Liquor Control Board may be provided as part of the class. Students desiring the licensure will be required to pay an extra fee. Prerequisite: students must be at least 21-years-old to participate in wine tasting, and to be employed as a wine server.

## Women's Studies

### WS 155

**Women's Cultural Heritage [H] . . . . . 5.0 Credits**  
An introductory course which presents an overview of the contributions women have made socially, politically, and culturally.

### WS 160

**Women in Literature and Art [H] . . . . . 5.0 Credits**  
A survey of women writers and artists from the 19th and 20th centuries, including the historical background and social context of their works, the intellectual/cultural issues they addressed, and their role and influence in society.



# Miscellaneous



# Pasco Campus Map



<b>A</b>	Administration Bldg.
<b>AF</b>	Foundation
<b>B</b>	Business Bldg.
<b>C</b>	<b>Security</b>
<b>D</b>	Classroom Bldg.
<b>G</b>	Gymnasium
<b>H</b>	Student Services (HUB)
<b>I</b>	Industrial Complex
<b>K</b>	Kartchner Ag. Tech. Bldg.
<b>L</b>	Library
<b>M</b>	Maintenance
<b>M-1</b>	Maintenance Annex
<b>M-2</b>	Grounds Maintenance
<b>N</b>	AG Technology Center
<b>O</b>	Observatory
<b>P</b>	Performing Arts Bldg.
<b>S</b>	Lee R. Thornton Center
<b>T</b>	Utility Bldg.
<b>U</b>	Vocational Bldg.
<b>V</b>	CH2M Hill Technology Center
<b>W</b>	

Administrative offices	A Bldg.
Admissions/Registration	H Bldg.
Assessment Testing	H Bldg.
CLS Center for Laboratory Sciences	T Bldg.
Counseling/Career Center	H Bldg.
CBC Bookstore	H Bldg.
CBC Business office	A Bldg.
CBC Foundation office	AF Bldg.
Cafeteria	H Bldg.
Copy Center	I Bldg.
Dental Clinic	T Bldg.
Diversity Commons	T Bldg.
Esvelt Gallery (art gallery)	P Bldg.
Financial Aid	H Bldg.
Fitness Center	G Bldg.
Graphics & Printing	I Bldg.
Gjerde Center	H Bldg.
Information Technology	T Bldg.
Library	L Bldg.
Media Center	W Bldg.
Security & Safety office	C Bldg.
Student Employment	H Bldg.
Student Body offices (ASB)	H Bldg.
Theatre	P Bldg.
Resource Center	H Bldg.
Writing Center	B Bldg.

**Campus Security (509) 542-4819**  
**Cell Phone 521-4599**  
 (after hours and weekends)



