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Big Bend Community College faculty members have delivered excellence in teaching and learning since 1962 to residents of a 4,600-square-mile service district in the central Columbia Basin and to others from around the state, nation, and world. Our college faculty and staff members are grateful for the opportunity to serve and help you achieve your educational goals.

Big Bend Community College offers a wide variety of services and programs, including Allied Arts, Community Concerts, student clubs, Viking athletics, and student-sponsored activities to supplement its educational programs in academic transfer, basic skills, customized training, developmental education, and professional-technical education. No matter your educational goal, BBCC has a success strategy for achieving it! The 2017-18 Course Catalog is designed to answer your questions about college resources available to help you succeed. Please take time to review the contents of this document, explore the various support services that may interest you, and use this information to chart your personal journey to success.

Thank you for considering or choosing Big Bend Community College. We wish you every success as you make your educational dreams come true!

Welcome to Big Bend!



Terrence Leas

BBCC President

About BBCC

Accreditation

Big Bend Community College is accredited by the Northwest Commission on Colleges and Universities. Its transfer credits are normally accepted by other accredited colleges.

Board of Trustees

Ms. Anna Franz -Chair (appointed 3/2012), Moses Lake

Mr. Jon Lane (appointed 12/2010), Moses Lake

Mr. Stephen McFadden, (appointed 12/2011), Ritzville

Ms. Juanita RIchards (appointed 10/2014), Moses Lake

Dr. Mike Villarreal (appointed 11/2012), Othello

The above listed citizens are Trustees of BBCC and are responsible to citizens of the Big Bend Community College service district for the operation of the college. The board meets regularly every six weeks. Each is appointed by the governor of the state of Washington and confirmed by the Washington State Senate to staggered five year terms.

History

Big Bend Community College was authorized by the Washington State Board of Education in 1961. Beginning fall quarter 1962 BBCC held its first regular classes at night in Moses Lake High School. The college opened classes in a new facility located a short distance southeast of the city of Moses Lake fall quarter 1963. In 1966, BBCC acquired a 159-acre tract of land on the former Larson Air Force Base, which became the permanent college campus for all programs in 1975.

The Washington State Legislature's Community College Act of 1967 designated Big Bend Community College as District 18 of the state community college system. The district includes Adams and Grant Counties, and the Odessa Consolidated School District in Lincoln County.

Mission

Big Bend Community College Delivers lifelong learning through commitment to student success, excellence in teaching and learning, and community engagement.

Vision

Big Bend Community College inspires every student to be successful.

Values

Student Success
Excellence in Teaching & Learning
Inclusion
Community Engagement
Integrity and Stewardship

Board Ends Statements

E-1 Mission

BBCC delivers lifelong learning through commitment to student success, excellence in teaching and learning, and community engagement.

E-2 Student Success

BBCC provides the diverse population of its entire district with access to opportunities, assists students in completion of their goals, and develops skills for lifelong learning.

E-3 Excellence in Teaching and Learning

BBCC supports innovation, variety, and creativity; maintains high academic and industry standards; and supports professional development for continued growth.

E-4 Community Engagement

BBCC supports economic development by nurturing community and industry partnerships and support to the college to enhance access and service to our district population

E-5 Integrity and Stewardship

BBCC acts as a responsible steward of resources by promoting accountability, sustainability, ethics and honesty, and prudent resource management to provide quality and affordable resources to the diverse population of our service district.

E-6 Inclusion and Climate

BBCC provides and maintains a climate of inclusiveness for students, employees and partners by maintaining a safe learning environment and promoting cultural inclusiveness, understanding, and respect by embracing diversity, access, opportunity, and equity. (Approved by the Board of Trustees 1/16/14)

Calendar 2017-2018

	Fall 2017	Winter 2018	Spring 2018	Summer 2018
Early Registration Begins	May 22	Nov. 13	Feb. 26	May 21
Tuition Due	Aug. 31	Dec. 14	March 15	June 14
1st Year Flight students report	Sept. 11			
General Faculty Report	Sept. 11			
Instruction begins	Sept. 18	Jan. 2	April 2	July 2
Last day to add a class with instructor permission	Sept. 21	Jan. 4	April 5	July 5
Last day to drop a class	Nov. 16	March 1	May 29	August 3
Instruction ends	Dec. 4	March 15	June 12	August 10
Final exams	Dec. 5-7	March 19-21	June 13-15	
Quarter break	Dec. 8 - Jan. 1	March 22-30	June 18 - July 1	
Commencement			June 15	
	Veteran's Day Nov. 10 Thanksgiving Nov. 20-24 (Campus Closed Nov. 23-24) *Tentative calendar,		Memorial Day May 28	Independence Day, July 4

^{*}Tentative calendar, subject to change without notice.

Admissions

Admissions

BBCC accepts all applicants who are 18 years of age or older. Those under 18 years of age who have graduated from an accredited high school, have an equivalent certificate, e.g., the General Education Development Test, or qualify as a Running Start student will be admitted. Applicants who are younger than 18 and who do not meet these requirements must provide BBCC with a written release from their school principal authorizing BBCC to admit them. All applicants must be 16 years of age or older unless they have graduated from high school or are part of a state approved program such as Running Start. Some programs have specific admission procedures and limited space; therefore, admission to BBCC does not guarantee availability of all programs.

Students enrolling in a degree or certificate program must apply for admission. BBCC will assign an advisor and evaluate transfer course work for officially admitted students. Registration priority is given to admitted students. Individuals who must obtain a certificate to keep a job due to a change in regulations may complete a single certificate without being admitted. This exception is limited to certificates requiring fewer than 45 credits, and does not apply to students who must have transfer credits evaluated for completion.

To apply for admission at BBCC a student must:

- Apply online at www.bigbend.edu or obtain and complete an application for admission form. Forms are available at the Admissions/Registration Office, 1st floor, Bldg. 1400.
- 2. Pay the non-refundable application fee of \$30 by calling 509-793-2061 or include a check or money order with a paper application
- 3 Send for official transcripts from former colleges attended. Transcripts received directly from students must be in envelopes that were sealed by the originating school. Veterans must make application to receive credit for previous military experience.

Admission Checklist

- Students entering BBCC for the first time must apply for admission and pay an application fee. Applications may be completed online at www. bigbend.edu or the form may be obtained at the Admissions/Registration Office, Building 1400, or by calling 509.793.2061.
- Transfer students must send for official college transcripts. Transcripts should be mailed to: Admissions/Registration, Big Bend Community

- College, 7662 Chanute Street, Moses Lake, WA 98837-3299. Most schools require the student's signature and many require a fee for official transcripts. Prospective students should check with their former school for transcript ordering procedures.
- 3. Financial aid forms are available on the BBCC website at www.bigbend.edu, at the Financial Aid Office, Building 1400, or by calling 509.793.2034. Please consult Financial Aid Office personnel for application deadlines and availability of funds. Scholarship information is also available online or from the Financial Aid Office staff.
- 4. Math and English placement tests should be taken by new students seeking a BBCC degree or those planning to enroll in a math or English course. Students usually complete both tests in three to four hours. The fee is \$10.00 per test. For additional information see the Placement Tests section of this catalog.
- 5. New student registration sessions and orientations are held before fall, winter and spring quarters. See the Registration and New Student Orientation sections of this catalog or the current quarterly class schedule for more information. Dates, times and procedures for orientation session registration are sent to all admitted students.
- 6. Admission letters contain the name of the BBCC staff member assigned as a new student's advisor. If a new student does not attend a new student registration session they must meet with an advisor prior to registration to develop their course schedule. Preliminary planning on the student's part is a good idea.
- Registration in classes is not official until tuition and fees are paid. Students should check the quarterly class schedule for payment due dates. Unpaid registrations may be cancelled.
- 8. Students may purchase books and supplies from the BBCC Bookstore in Building 1400 or online at www.bbccbookstore.com. Registration receipts will help bookstore personnel identify books needed for each course. The original bookstore receipt must accompany any books being returned.

Entering Transfer Students

Students transferring to BBCC will be given appropriate credit for college level work completed at a regionally accredited institutionStudents must submit to the Admissions/Registration Office official transcripts from each institution attended. Credit will be awarded on the basis of official transcripts only. The cumulative grade point average of all credits accepted must be 2.00 or higher. Although there is no limit on the number of credits a student may transfer to BBCC before graduating, the student must meet all BBCC degree requirements; including residency requirements (see Degree and Certificate Requirements section).

BBCC subscribes to the statewide Policy on Inter-College Transfer and Articulation among Washington Public Colleges and Universities endorsed by the public colleges and universities of Washington State and the State Board for Community and Technical Colleges and adopted by the Student Achievement Council. For more detailed information contact the Admissions/Registration Office or the Counseling Center.

In programs where appropriate, credits may also be given for military service schools attended. These are normally awarded as recommended by the ACE Guide to the Evaluation of Educational Experience in the Armed Services. Current and former military members may obtain information on ordering a military transcript at the following website: https://jst.doded.mil/smart/welcome.do.

CTC Reciprocity Agreement

Washington community and technical colleges (CTCs) offer reciprocity to students transferring within the CTC system who are pursuing the Associate in Arts & Science - Direct Transfer Agreement (DTA) degree or the Associate in Science - Transfer (AS-T) degree. Students who completed an individual course that met distribution degree requirements or fulfilled entire areas of their degree requirements at a prior college will be considered to have met those same requirements at BBCC if they plan to complete the same degree when they transfer. These degree requirements include communication skills, quantitative skills, or one or more distribution area requirements. Students must initiate the review process and must be prepared to provide necessary documentation. For complete information, students should contact staff in the Admissions/ Registration Office. The policies and procedures can be found on the BBCC website at www.bigbend.edu.

Transfer Rights and Responsibilities

The following are rights and responsibilities for all students transferring from or into public colleges and universities in the state of Washington as published by the Washington Student Achievement Council (www. wsac.wa.gov).

Student Rights and Responsibilities

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

College and University Rights and Responsibilities

- Colleges and universities have the right and authority to determine program requirements and course offerings in accordance with their institutional missions.
- 2. Colleges and universities have the responsibility to communicate and publish their requirements and

- course offerings to students and the public, including information about student transfer rights and responsibilities.
- Colleges and universities have the responsibility to communicate their admission and transfer related decisions to students in writing (electronic or paper).

Resident Classification for Tuition

To be considered a resident for purpose of tuition, a person must be either (1) a financially independent student who has had a domicile in the state of Washington for a period of one year immediately prior to the commencement of the quarter for which the student has registered and has established a bona fide domicile for purposes other than educational; or (2) a dependent student whose parent(s) or legal guardian(s) has maintained a domicile in the state of Washington for at least one year prior to commencement of the quarter for which the student has registered.

United States citizens or INS permanent residents who do not live in Washington State qualify for a waiver of part of the nonresident tuition.

Students who are not permanent residents or citizens of the United States but who have met the following conditions may qualify for resident status: resided in Washington State for the three years immediately prior to receiving a high school diploma, and completed the full senior year at a Washington high school, or completed the equivalent of a high school diploma and resided in Washington State for the three years immediately before receiving the equivalent of the diploma, and continuously resided in the state since earning the high school diploma or its equivalent. Such students must complete a declaration form available in the Admissions/Registration Office.

A nonresident student enrolled for more than six credit hours per quarter shall be considered as attending primarily for educational purposes. Such period of enrollment shall not be counted toward establishment of domicile in this state, unless the student proves domicile was established for purposes other than educational.

Once a student has been classified as resident or nonresident and registered, the classification will remain unchanged until satisfactory evidence showing cause for change is presented in writing. The conditions listed below, which typically must be accomplished one year prior to classification as a resident, may be required evidence of having become a Washington resident.

- 1. Permanent full-time or part-time employment in the state of Washington.
- 2. Purchase of property in the state of Washington.
- 3. Registration of all vehicles in the state of Washington.
- 4. Registration to vote in the state of Washington.
- 5. Valid Washington State driver's license.

- 6. Rent receipts from an apartment or home in the state of Washington.
- 7. Establishment of bank accounts in the state of Washington.

Forms to petition for a change in residency status are available in the Admissions/Registration Office and must be submitted before the fifth day of the quarter if the change is to take effect for the current quarter.

Viking Orientation

(New Student Orientation)

After attending a New Student Registration session, new students should plan to attend one of BBCC's Viking Orientation sessions. The orientation includes general college information and a variety of workshops which may include but are not limited to opportunities for students to learn about college success strategies, how to transfer to a university, financial aid, setting up a BBCC student network account, information for undecided students, allied health careers, technical training offered at Big Bend and a tour of the campus. VIking Orientations are free of charge and are held prior to fall, winter and spring quarters. New Student Orientation information is provided to all new applicants.

Placement Tests

New students seeking a BBCC degree or planning to enroll in math or English courses must take placement tests or provide other approved placement information prior to meeting with an advisor and registering for classes unless they have previously fulfilled BBCC math and English requirements at another college or university. The fee is \$10.00 per test. Please see the BBCC Testing webpage for information on scheduling a testing time. Placement test scores are void after two years. Students living out of the area may take math and English placement tests at a local college. Scores should be sent directly to the BBCC Admissions/Registration Office. For further information, prospective students may call the Testing Center at 509.793.2064.

International Students

BBCC encourages and welcomes applications for admission from students of other countries who wish to pursue a quality educational experience in the United States. BBCC provides a variety of educational opportunities in the liberal arts and technical program areas and is committed to increasing understanding and exchange of social awareness, cultural enrichment and sharing of ideas.

Upon successful completion of the admission requirements below, students who are approved for admission will be issued an I-20. Students must then apply for and be granted an F-1 visa.

Prospective students may request an application for international student admission from the Admissions/ Registration Office, Big Bend Community College, 7662 Chanute Street, Moses Lake WA 98837 or at the BBCC website www.bigbend.edu.

International Student Admission Requirements

(The following admission requirements must be completed 60 days prior to the first day of class.)

- BBCC application for admission must be submitted with the \$30 US dollars application fee
- 2. Official copy of high school and/or college transcripts must be submitted with official English translation.
- Proof of adequate financial support for all expenses for one academic year (September to June) must be documented with the Declaration and Certification of Finances form and official bank documents or original, signed letters verify funds are available.
- 4. English proficiency must be documented. One of the following is acceptable.
 - A. A minimum TOEFL (Test of English as a Foreign Language) Score of 450 on the paper exam or 48 on the internet based exam with a minimum score of 12 on each section: reading, writing, speaking and listening. An official score report must be submitted to the Admissions/Registration Office. Copies are not acceptable.
 - B. For students already in the United States, a satisfactory score on the BBCC English Placement Test. This test must be taken on campus. See the Placement Tests section of this catalog for more information.
 - C. Completion of level 108 at an ELS Language Center.
 - D. Minimum STEP/Eiken score of 2A.
 - E. Minimum IELTS score of 4 in every band..

After the above requirements have been met, the Admissions/Registration Office will request a non-refundable advance payment of tuition and fees in the amount of \$50.00 U.S. This deposit must be received before the I-20 will be issued.

Once the I-20 is issued the prospective student must apply for their student visa at the United States Embassy or Consulate closest to their home. Their passport, bank statement or sponsorship papers and proof of payment of the SEVIS fee (I-901) will be required. Students may go to the following website for more information regarding the SEVIS fee: www.ice.gov/sevis.

International students transferring from U.S. institutions must be in compliance with F-1 visa requirements as defined by the U.S. Department of Homeland Security. BBCC requires completion of an Intent to Transfer form which will be sent to students upon request.

All international students are required to take the math and English placement test prior to registration. International students must enroll in an English class each term until they have reached the English level required for their major program. International students must live in a college residence hall during the first quarter of attendance.

International students are encouraged to have medical/health insurance or purchase one of the insurance plans available to them in the United States. Students who drive cars should have minimum liability auto insurance as required by state law to cover injuries to persons or damage to property.

Student Responsibilities:

Students attending BBCC on an F-1 visa must:

- Keep passport, I-20 and I-94 valid.
- Complete at least 12 college credits each guarter.
- Maintain satisfactory standards of progress.
- Obtain an official signature on the I-20 ID each time they leave the country.

Registration

Advising

Counselors, full-time instructors and other trained staff serve as advisors to help students set educational and career goals. Advisors provide students with individualized attention needed to discuss educational support services, goals, programs and course selections.

Students are encouraged to participate in advising services at BBCC to assist in the completion of their programs of study. Meeting with an advisor prior to registering for classes each quarter can be helpful in the educational planning of a student's degree or program. Students who intend to transfer need to take the time to learn about their prospective transfer school's requirements early in their educational planning process.

Advising prior to registration each quarter is mandatory for some students including new students, students with fewer than 30 earned credits, and students on academic probation.

Although advisors are available to assist with education, it is the student's responsibility to be informed about their degree or program requirements and college policies.

Dropping a class

A student may drop classes up to ten days before the beginning of final exams without written permission of the instructor. The final date to drop is printed in the class schedule. Students may drop classes online using the BBCC Student Kiosk at www.bigbend.edu or by completing paperwork in the Admissions/Registration Office. Students who are receiving financial aid and wish to withdraw completely must inform personnel in the Financial Aid Office. Courses that are dropped during the first ten days of the quarter are not included on the student's academic transcript (Summer Quarter: first six days). Courses dropped after the 10th day will be recorded with a "W" on the transcript.

Registration

All students must complete the registration process before attending classes at BBCC. Registration sessions are scheduled before the beginning of each quarter for new students. At the new student registration sessions students will meet with an advisor for help with class selection. Staff members are also available to assist with the online registration process. A class schedule is published on the BBCC web site approximately six weeks before the beginning of each quarter. Detailed information about registration dates and times and class information is in the class schedule. Students are encouraged to use the BBCC Student Kiosk at www.bigbend.edu to register.

Registration Access Time

Registration access times are for registration only, not advising. Students are responsible for arranging appointments with their advisors prior to their registration access time. Continuously enrolled students are issued registration access times based on the total number of credits earned. Current students may find their access time at the BBCC Student Kiosk at www. bigbend.edu. Former BBCC students may contact the Admissions/Registration Office for a registration access time.. New students with 30 or more transfer credits register after currently enrolled students. Information concerning times is included in the class schedule. New students with fewer than 30 transfer credits register after all current and former students during new student registration sessions or open registration.

Refund Policy

Students who stop attending class without completing the process to drop classes may not be eligible for refunds and will receive failing grades. Students requested to withdraw for disciplinary reasons or delinquent attendance may not be eligible for refunds. Students who withdraw from a class or from BBCC using proper procedures may be entitled to a refund on the following basis:

Prior to first instructional day	100% refund
During first week of quarter	80% refund
During second week of quarter	50% refund
During the third week of quarter	40% refund
After third week of quarter	No refund

* Summer Quarter-see summer quarter class schedule for refund dates.

Financial aid recipients who complete zero credits, stop attending or withdraw from all classes may owe a repayment of the aid for which they were not eligible. This policy applies to all federal and state financial aid except work study earnings. The last date the student attended a class or officially withdrew is used to determine the amount of the repayment. For more information please visit: http://www.bigbend.edu/admissions/financial-aid/what-if-i-withdrawl. Active military personnel or reservists in any branch of the U.S. Armed Forces who withdraw because they are called to active duty during a quarter will be eligible for a 100% tuition refund for that quarter. A copy of the military orders must be provided.

Students required to withdraw during the first half of a quarter because of the students medical condition will be eligible for a 100% tuition refund for the quarter. A doctor's statement must be provided.

Tuition & Fees

Resident Student Tuition

1-10 credits, per credit	\$102.91
11-18 credits, additional per credit	\$50.96
Over 18 credits, additional per credit	\$92.33
Over 18 credits, Prof/Tech per credit	\$10.00

Non-Resident Waiver (U.S. Citizen) Student Tuition

1-10 credits, per credit	\$116.34
11-18 credits, additional per credit	\$51.67
Over 18 credits, additional per credit	\$92.33

Non-Resident International (Not U.S. Citizen) Student Tuition

1-10 credits, per credit	\$279.62
11-18 credits, additional per credit	
Over 18 credits, additional per credit	

A \$5.00 per credit technology fee (maximum of \$75.00/quarter) will be added to the amounts above.

Some courses have special lab fees in addition to normal credit hour charges. A listing of additional fees will be printed in the quarterly class schedule.

Application Fee\$3	0.00
Strong Vocational Interest Inventory Test\$1	5.00
General Education Development Test (GED)\$12	0.00
Flight Insurance (estimate)\$9	5.00
Placement Tests (each)\$1	0.00

Audit Student

Audit fees are the same as listed above depending on classification of student status.

Flight Fees

Aviation Flight Performance Deposit...... \$200.00

Students applying for the commercial pilot program must submit a deposit before being accepted into the flight program. This deposit is applicable to the first quarter flight fees. Should an accepted student decide not to enroll, a refund will be made as follows:

- 80% refund if notice is received prior to June 1.
- 60% refund if notice is received prior to July 1.
- 40% refund if notice is received prior to August 1.
- 20% refund if notice is received prior to September 1.
- · No refund is allowed on September 1 or thereafter.

Aviation Flight Fee

Before students are allowed to fly they must have paid the required flight fees. Flight fees are based on projected flying for the quarter and must be paid in advance. Flight fees vary depending on the type of flying. For the current fee schedule, contact the Aviation Department or the BBCC Business Office.

Nursing Fees

Nursing Program Deposit\$250.00

Students who are accepted into the Nursing program will be required to submit a deposit. The deposit will be applied to required background checks and testing fees. Should an accepted student decide not to enroll, a refund will be made as follows:

- 80% refund if notice is received prior to June 1.
- 60% refund if notice is received prior to July 1.
- 40% refund if notice is received prior to August 1.
- 20% refund if notice is received prior to September 1.
- · No refund is allowed on September 1 or thereafter.

Residence Hall Fees

The following are estimated rates and may change subject to Board approval. Subsequent years may vary according to the cost of living increase. Meal plans are not included.

Room and Damage Deposit*	\$200.00
Shared Room (per quarter)	\$960.00
Single Room (per quarter, if available	e)\$1,140.00

*The \$200.00 room and damage deposit fee must be received by the BBCC Business Office before a room assignment can be confirmed.

Student Services

The Student Center/Administration Building (Building 1400) houses the Associated Student Body Office, Student Activities, Student Success Center, Counseling Center, Financial Aid, Veteran's Affairs, Student Support Services, Admissions/Registration Office, and Vice President of Instruction/Student Services. Also located in this building are the administrative offices, BBCC Bookstore, and Student Job Placement Office. In addition, the game room provides the opportunity for students to socialize and exchange ideas. Student information such as student bulletins, event notices, announcements, etc. are posted in this building.

Bookstore

The BBCC Bookstore is located in Building 1400 and is owned and operated by the college. The bookstore carries all the textbooks and course materials necessary for courses offered through BBCC. The bookstore also carries school supplies, college-logo imprinted clothing and other emblematic items, educationally priced computer software, reference books, snacks and gifts.

The BBCC Bookstore is open 7:30 a.m. to 5:00 p.m. Monday through Thursday, and 7:30 a.m. to 2:30 p.m. on Fridays. In addition, the bookstore will be open until 7:00 p.m. the first 3 days of each quarter. Textbooks, college logo clothing and gift items may also be ordered online at www.bbccbookstore.com or through the bookstore link on the BBCC homepage.

Refund Policy

Course materials and textbooks purchased for the current quarter are returnable during the first two weeks of the quarter providing the materials are in the same condition as sold, including all original packaging, tags, accessories, labels and paperwork. If the item was shrink wrapped a fee will apply. The original receipt/ packing slip and valid student identification are required for all refunds and exchanges. Course materials may not be returned after a class has ended. Full refunds will be processed for students providing proof that a class was dropped through the second week of the quarter. Students without proof of a dropped class may receive a 80% refund during the first week of the guarter and 50% refund the second week. Rental course materials follow the same refund guidelines. Students who miss the refund dates may sell textbooks back to the BBCC Bookstore during scheduled book buy back days.

Book Buy Back Policy

The bookstore offers a book buyback service during the three days of final exams each quarter. The price paid for books varies and is dependent upon the book being used for classes the following quarter.

Career Planning Services

A wide range of occupational information and career planning publications are available in the college library. Students have access to a variety of books, brochures, videos, and computer programs describing many aspects of the work world and how to obtain a job. College catalogs and directories, representing most colleges and universities in the state of Washington, as well as many in other states, are also available for student use.

Career Advising and Assessment

Occupational interest assessment testing, job search tips, and professional/technical program information are among the services offered.

Available for student use is WOIS (the Washington Occupational Information System), a computerized career program that explores possible career options. Students may take an online career assessment and research specific occupational fields. Students may also take the Strong Vocational Interest Inventory and the Myers-Briggs Type Indicator personality profiler in the Counseling Center.

For more information about career planning services, please contact the Counseling Center at 509.793.2035.

BBCC Learning Center Childcare

The BBCC Learning Center Childcare building is located on campus at 7726 Bolling Street. Opened in 2004, the BBCC Learning Center Childcare accommodates children from the age of one year through school age. The center is licensed by the Department of Social and Health Services. Trained staff provides a safe, caring and healthy environment for the children. The center is open from 7:30 a.m. until 6:00 p.m. to accommodate students enrolled for day classes. Drop in care is provided on a space-available basis. The center is available to the children of BBCC students, staff, and the community. For information regarding fees and availability of space in the Learning Center please call 509,793,2173.

Counseling

The Counseling Center offers personal, confidential, professional assistance to students. It is open to BBCC students in all programs; a student may meet with the counselor of his or her choice.

Counselors use a "whole person" approach in their work. Students often find that certain personal issues need to be addressed in order to take advantage of all the college has to offer. Counselors help students explore options and teach them to make better

educational decisions. BBCC counselors assist students with referrals to off campus professionals if necessary.

International, or foreign, students have particular needs; the Counseling Center offers specialized advising for international students.

Appointments are preferred, although counselors are generally available to walk-in visitors. To see a counselor, please call 509.793.2035 or visit the Counseling Center in the Student Center Building 1400.

Disability Support Services

BBCC complies with section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. BBCC is free from discrimination in the recruitment, administration, and treatment of students. The Disability Support Services (DSS) office at BBCC provides voluntary and confidential support services for students with documented disabilities in one or more of the following categories: Deaf/Hearing, Speech/Language, Blind/Visual, Neurological/Nervous System, Psychological/Emotional, Mobility, Learning, Chronic/Acute Health, and Temporary/Other. To ensure maximum participation by all students with disabilities, the college will:

- Provide programs and facilities that are accessible to all students with disabilities
- Determine and implement reasonable accommodations that meet the individual needs of students with disabilities

Contact Information

- The DSS office is located in the Administration Building (1400), Room 1473
- The telephone number for the Coordinator of Disability Services is 509.793.2027. To schedule an appointment, call 509.793.2035
- · Email: dss@bigbend.edu
- A Telecommunications Device for the Deaf (TDD) is available in the Disability Support Services/
 Counseling area, Room 1474, for incoming and outgoing calls. The TDD telephone number is 509.793.2325

Obtaining Services/Procedures

Requests for disability services are processed through the DSS office. We value a collaborative process with students as we work to determine and implement reasonable accommodations and services.

 To begin the process, students need to contact the Coordinator of Disability Services to request services, provide information about prior use of accommodations and services in other settings, and discuss the likely impact of the disability on the student's educational experience at BBCC.

- The student will need to complete and submit an intake packet. Relevant documentation from external sources may also be requested to substantiate the disability and the student's eligibility for requested accommodations and services.
- Once the intake packet and requested documentation have been received, the student will meet with the Coordinator of Disability Services to discuss eligibility for services and accommodation requests.
- 4. The Coordinator of Disability Services will prepare a Letter of Accommodation (LOA). It is the student's responsibility to provide instructors with the LOA and discuss how the accommodations will be implemented in the classroom. LOA's need to be requested by the student each quarter.
- It is the responsibility of the student to inform the instructor and the Coordinator of Disability Services if there are questions regarding the implementation of the approved accommodations. We will work collaboratively to ensure implementation.

Accessible Parking

Students, staff, and visitors who have a state-issued disabled parking permit may use the designated accessible parking spaces in BBCC parking lots. Those who have a temporary need for accessible parking, may request a temporary disabled parking permit through the DSS or Campus Safety offices.

Disability Related Complaints

Students who have complaints regarding disability related issues should contact the Coordinator of Disability Services at 509.793.2027 or the Dean of Student Services at 509.793.2077. Complaint procedures are found in the student handbook under the Discrimination, Harassment, and/or Sexual Harassment section.

Drug & Alcohol Abuse Prevention

BBCC recognizes its responsibility as an educational institution to promote a healthy and productive learning environment. In compliance with the Drug Free Schools and Communities Act Amendment of 1989, BBCC has adopted and implemented a program to prevent the unlawful possession, use, or distribution of illicit drugs or alcohol by students and employees.

BBCC prohibits the unlawful manufacture, distribution, possession or use of illegal drugs and alcohol in the workplace, on college property, or during collegesponsored activities.

Serious health risks associated with the use of drugs or the abuse of alcohol include, but are not limited to: addiction to or dependency upon the substance, memory loss, liver failure, kidney failure, cancer of the kidney or liver, personal injuries while under the influence, infectious diseases (including AIDS), a lowered immune system, heart problems, hallucinations, delusions, depression, inability to sleep or to remain awake, loss of judgment and death. The use of drugs and alcohol before or during pregnancy can lead to birth defects or death to the unborn child.

BBCC will impose disciplinary sanctions on students and employees, who unlawfully manufacture, distribute, possess or use illegal drugs or alcohol in the workplace, in the classroom or at student sponsored events. Violations of these standards of conduct can result in referral for criminal prosecution, satisfactory completion of an appropriate drug or alcohol rehabilitation program, and action leading up to and including termination from employment and suspension or expulsion from BBCC.

It is unlawful for any person to sell, give or otherwise supply liquor to any person under the age of 21 years or permit any person under that age to consume liquor on his/her premises. Furnishing liquor to minors at BBCC will result in suspension or expulsion; it is also a gross misdemeanor in the state of Washington.

Students with alcohol or drug related problems are encouraged to contact the BBCC counseling staff for information and referral. Students may also take advantage of services provided by the Grant County Prevention and Recovery Center 509.765.5402. The center provides such services as alcohol and drug assessments, individual counseling, family counseling, group therapy, an intensive outpatient program, and an alcohol and other drug information school. Private practitioners and agencies are listed in the local telephone directory.

Financial Aid



Financial aid can lower the cost of a Big Bend Community College education. The college offers a comprehensive program which includes funding from federal, state, college and private sources. The Big Bend Foundation provides scholarships for students who may not qualify for traditional federal or state financial aid.

How to Apply

To be considered for financial aid the student should complete the applicable application:

Free Application for Federal Student Aid, FAFSA - The FAFSA requests information about the student's and, in

some cases their parents', income and asset information in order to determine eligibility for financial aid. Complete the FAFSA online at www.fafsa.gov.

Washington Application for State Financial Aid, WASFA. Students who are not eligible to complete the FAFSA because they are non-citizens, may be eligible for the State Need Grant by completing the WASFA. Complete the WASFA online at: www.readysetgrad.org/wasfa

The financial aid year starts July 1st and ends June 30th. Students need to reapply for financial aid after January 1st each year. Check the Financial Aid page on the Big Bend Community College website to determine the priority funding dates for each quarter.

Eligibility Requirements

To be eligible for federal and state financial aid the student must meet the conditions listed below. There often are other sources of aid for students who do not meet these requirements.

- Have a valid Social Security number
- Be a U.S. citizen or eligible non-citizen
- Have high school diploma or GED
- If male, be registered with Selective Service
- Does not have a conviction for an offense involving possession or sale of a controlled substance while receiving federal student aid
- Does not owe a loan or grant overpayment
- Does not have a Ford Direct Loan or Stafford Loan in default
- · Has not borrowed in excess of loan limits
- Is maintaining satisfactory academic progress
- · Is not currently enrolled in high school

Beginning in the 2014-15 academic year, a new state law will expand eligibility for the Washington State Need Grant to non-citizens who meet the program's income & eligibility requirements in addition to all three residency criteria listed below:

- Have graduated from a Washington high school or obtained a GED
- Have lived in Washington for three years prior to earning the high school diploma or equivalent and continuously since.
- Sign an affidavit (written promise) to file an application to become a permanent resident of the United States when eligible to apply.

Financial Aid Programs

Pell Grant – Pell is the largest federal grant program for needy students. It is an entitlement program which means, if the student is eligible, the funds will be available during the school year.

Federal Supplemental Educational Opportunity Grant

– This is a federal grant program for the needlest students who are eligible for Pell.

- Washington State Need Grant This is a state grant program for undergraduate students. A Washington state resident without an associate degree may be eligible for this grant.
- Washington Tuition Waiver This program waives a portion of the tuition for eligible Washington residents. The tuition waiver is awarded based on the student's need.
- Washington Tuition Grant The tuition grant is awarded based on the student's need.
- College Bound Scholarship This program is an early commitment of state financial aid to eligible students who sign up in middle school and fulfill the pledge.
- Federal Work Study This federally funded program provides employment opportunities both on and off campus for students with financial need. Reading or math tutors for local school districts are examples of federal work study off campus jobs.
- State Work Study This state funded program provides employment opportunities both on and off campus for students with financial need. When possible, students are placed in positions relating to their major field of study or career goals.
- Ford Direct Loans (Subsidized and Unsubsidized) –
 These educational loans which must be repaid after
 the student graduates, provide another source of
 funding for the eligible student. The student must be
 enrolled for at least 6 credits. Loan applications and
 information are available in the Financial Aid office
 and on the Financial Aid webpage on the Big Bend
 website, www.bigbend.edu.
- PLUS Loans Parents of dependent students can borrow these non-need based loans. Additional information is available in the Financial Aid office or on the Big Bend Community College website at www. bigbend.edu.

Scholarships

All BBCC scholarship information, including application forms, may be obtained from the Financial Aid Office and online at www.bigbend.edu. BBCC scholarships are awarded each spring.

BBCC Foundation Scholarship

The BBCC Foundation plans to provide a minimum of one scholarship for a graduating senior from each high school in the BBCC service district. This scholarship is awarded based upon a student's academic achievement, activities, contribution to his/her community, and recommendations. Foundation scholarship applications are available from high school counselors in the BBCC service district.

BBCC Individual Donor "Named" Scholarships
The BBCC Scholarship Committee selects qualified students for scholarships funded by the BBCC
Foundation. The scholarships are awarded spring

quarter for the next academic year. Students interested in scholarships for athletics should contact the appropriate coach.

BBCC Professional/Technical Scholarships
The BBCC Foundation provides scholarships for
graduating seniors and returning students from the
BBCC service district who plan to enroll in a professional/
technical program at BBCC.

Scholarships Awarded by Outside Organizations
A number of scholarships are awarded directly by
organizations to BBCC students. These scholarships
may be for students returning to BBCC the next year or
for BBCC graduates pursuing a degree at a four-year
institution. Information about these scholarships is
posted on the scholarship bulletin board in the Financial
Aid Office and online at www.bigbend.edu.

Opportunity Grant – change the Applications are available in the Workforce Education Services Opportunity Center.

Student Employment

The career services coordinator provides career counseling to help students select a major and career pathway; assists students in the process of finding employment by assessing their skills and helping them to market those skills; provides job search assistance such as training in interviewing techniques, resume writing, etc.; and locates local and regional employment opportunities. Career Services is located in the Student Center, Building 1400. For more information call 509.793.2069.

On-Campus Employment

Students interested in on-campus employment should contact financial aid personnel in the Financial Aid/Counseling Center, Building 1400.

BBCC Grant & Funding Resources

Opportunity Grant Program

The Opportunity Grant Program may assist eligible students with funding for tuition, books, mentoring and other areas of need. Eligible students are pursing one of the following career pathways: Accounting, Allied Healthcare, Aviation Maintenance Technology, Business Information Management, Business Medical, CDL-IBEST, Early Childhood Education, Industrial Electrical Technology, Maintenance Mechanics Technology, and Welding. To qualify, students must have less than a two year degree, be low-income and pursuing coursework that will satisfy requirements to achieve a certificate and/ or two-year professional technical degree developing workplace skills and increased wage earnings. For an application call 509.793.2052 or visit the Opportunity Grant office in the Opportunity Center.

Worker Retraining Program

The worker retraining program may assist eligible students with funding for enrollment in a professional/technical training program. Eligible students must have

received or exhausted Washington State unemployment benefits within the last 24 months, or be certified as a dislocated worker. Applications are available at the Financial Aid Office in the Student Center, Building 1400.

Housing

Student housing facilities are available on the BBCC campus. BBCC is one of the few community colleges in the state of Washington that has the ability to provide a traditional on-campus college living experience.

Housing facilities are well maintained, affordable, and offer students spacious rooms. Each room is furnished with twin beds, two desks, two chairs and three large locker type storage closets for clothes and personal items. Each room has high speed internet and cable television installed at no extra cost. Each floor has a TV lounge, VCR, microwave oven and pay telephones. Three kitchens equipped with appliances are available for students use. The laundry room is located on the first floor of the residence halls and is equipped with clothes washers and dryers; this service is also free for residents use.

Other conveniences include weekday public bus services, recreational facilities and free parking. The residence halls are located close to the main campus classrooms, dining hall, library and gymnasium. Intramural sports and associated student body activities are available to students. A full-time residence hall director and live-in residence assistants provide supervision. For additional information or to request a residence hall application call 509.793.2291.

Disabled Student Access

Philips Hall is accessible to physically challenged students.

Food Services

The Sodexo Corporation currently provides a quality retail food service program for students. The dining room is located in the Grant County Advanced Technology Education Center in the center of campus. Students choose from many options including a deli selection, international selection, grill items and salads.

Sexual Harassment/ Discrimination

It is the policy of BBCC that sexual harassment of staff, faculty, students and visitors at any of the college's locations or during college activities shall not be tolerated. This policy is in keeping with the spirit and intent of various local, state, and federal guidelines, which addresses the issue of fair employment practices, ethical standards, and enforcement procedures. It is also the policy of the college that false accusations of sexual harassment shall not be tolerated. False

accusations of sexual harassment are grievous and can have serious and far-reaching effects upon the careers and lives of individuals.

Sexual harassment shall be defined as unwelcome sexual advances, requests for sexual favors and other verbal conduct of a sexual nature in any of the following contexts:

- When submission to such conduct is made either explicitly or implicitly, a term or condition of an individual's employment or academic standing.
- When submission to or rejection to such conduct by an individual is used as the basis for employment or academic decisions affecting the individual.
- When such conduct has the purpose or effect of unreasonably interfering with an individual's work or academic performance or creating an intimidating, hostile or offensive working or academic environment.

No individual shall be subjected to any form of retaliation or discipline for reporting sexual harassment. Any attempt to penalize or retaliate against a person for filing a complaint of sexual harassment or participating in the investigation thereof will be treated as a separate and distinct violation of this policy. Appropriate disciplinary action for violations of this policy may include a range of actions up to and including termination, dismissal, suspension, or expulsion.

Discrimination

BBCC does not discriminate on the basis of race or ethnicity; creed; color; national origin; gender; marital or family status; sexual orientation; age; religious preference; the presence of any sensory, mental, or physical disability or the use of a trained dog or service animal by a disabled person; status as a disabled person; life threatening illness; or veteran status in educational programs and activities which it operates.

BBCC is prohibited from discriminating in such a manner by college policy and by state and federal law. All college personnel and persons, vendors and organizations with which the college does business are required to comply with applicable federal and state statutes and regulations designed to promote affirmative action and equal opportunity.

For correct procedures in reporting incidents of discrimination or sexual harassment consult the Student Handbook. Student Handbooks are available at the Student Activities Office. Incidents of sexual harassment or discrimination may be reported to the Vice President of Instruction/Student Services, the Vice President of Human Resources and Labor, or any other college administrator.

Student's Rights & Responsibilities/ Student Handbook

Student's rights and responsibilities are defined in the BBCC Student Handbook. The handbook provides students with an in-depth explanation of rights and responsibilities as they pertain to the community and the college. Information contained in the booklet includes the Student Code of Conduct, jurisdiction of college personnel, procedures for initiating disciplinary actions, academic appeal procedures, academic grievance procedures, and all other student due process procedures. The handbook also provides information about the college community including how to access student support services, campus resources, student activities, etc. The handbook is available in the Student Activities Office, Bldg. 1400, and on the BBCC website.

STEM Center

The Science, Technology, Engineering and Math (STEM) Center, located in the Math/Science Building (1200), offers students a wide variety of tutoring and instructional support services for all levels of math, science and engineering courses. The STEM Center is open to all BBCC enrolled students, including GED/DVS. Aside to tutoring services, the STEM Center also provides access to computer workstations, science and engineering course software, printing and scanning, private study rooms, and STEM related advising. Non-BBCC students wishing to use the STEM facilities must register for MATH 010.

Student Success Center

The Student Success Center (SSC) is committed to serving students by providing resources that will help them achieve their educational goals at Big Bend Community College. It is our mission to provide quality support services in person and online to assure that students have the tools necessary to be successful at Big Bend Community College.

Students benefit from peer mentoring, study sessions, laptop and book checkouts, university transfer advising, study rooms and a computer lab. Services are free to all students attending Big Bend Community College.

The BBCC Student Success Center (SSC) is located in Building 1400. The SSC is open 8:00am to 5:00pm Monday through Thursday, and 8:00am to 2:30pm on Fridays. For additional information please call 509.793.2369

TRiO-Student Support Services

The BBCC TRIO Student Support Services program is a U.S. Department of Education Title IV grant. An annual funding of \$281,462 provides extensive academic services to 190 eligible students during each grant cycle.

Student Support Services program is designed to help students find success in college. TRIO-SSS students benefit from academic tutoring, academic monitoring, success workshops, and, academic/financial aid/transfer/career advising.

To be eligible, students must meet one or more eligibility criteria: 1) first-generation- neither parent of student has a bachelor's degree; 2) low-income; 3) disabled- documented disability. These at-risk groups are strongly supported regardless of degree program.

For additional information please visit our SSS office in 1400 Building or call 509.793.2040.

Testing Services

BBCC provides a testing service to assist students in making both academic and career choices. In addition, BBCC serves the broader community as a testing center for the General Educational Development Test (GED), SAT, and ACT examinations.

The GED test battery is used to determine if an individual's educational development is equivalent to that of a high school graduate. Examinees having scores meeting state standards are eligible to receive a Washington State High School Equivalency Certificate. State residents 19 years of age or older are eligible to take the GED examination and receive the Washington State issued equivalency certificate. Applicants 16-18 may be tested with appropriate authorization. The current fee for GED testing is \$120.00. Questions regarding eligibility and test scheduling should be directed to the Testing Center in Building 1000, phone 509.793.2064.

Veterans Services

BBCC academic programs of study are approved by the Washington Student Achievement Council's State Approving Agency (WSAC/SAA) for enrollment of persons eligible to receive educational benefits under Title 38 and Title 10 USC. Selected programs of study at BBCC are approved by the Workforce Training and Education Coordinating Board's State Approving Agency (WTECB/SAA) for enrollment of those eligible to receive benefits under Title 38 and Title 10, USC.

BBCC does not and will not provide any commission, bonus, or other incentive payment based directly or indirectly on success in securing enrollment or financial aid to any persons or entities engaged in any student recruiting or admissions activities or in making decisions regarding the award of student financial assistance.

The Department of Veterans Affairs (VA) will pay educational benefits to eligible students enrolled in approved degree programs at BBCC. Students eligible for VA educational benefits must make initial application for benefits and receive program approval. Depending upon eligibility, the Department of Veterans Affairs will determine the number of months, and monthly amount of benefits for each applicant. The monthly amount is based upon the enrolled credits that count toward the approved program. Enrollment status is:

Full Time = 12 credits or more 3/4 Time = 9 through 11 credits 1/2 Time = 6 through 8 credits Less than 1/2 Time = 5 or fewer credits

If a student withdraws from a class during a quarter and this reduces the certified enrollment status, the Department of Veterans Affairs may bill the student for repayment of the difference from the beginning of the quarter, unless there are mitigating circumstances as approved by the VA. This same situation may occur if a student does not complete all enrolled variable credits resulting in a reduced enrollment status. Students approved for VA benefits must contact the VA certifying offical, after registering for classes each quarter, to assure proper certification.

VA recipients are responsible for providing the necessary information to the Veterans certifying offical, to be informed and in compliance with the Minimum Standards of Progress requirements, and to initiate any changes in program.

The VA pays tuition and fees directly to the college for all Post-911 veterans up to their percentage of eligibility. All other veteran students should allow for the initial startup time and have their own funds to register and pay for books and supplies. The VA pays BAH benefits directly to the student. Students usually receive their BAH early in the month for the preceding month.

All veterans are encouraged to complete the Free Application for Federal Student Aid (FAFSA). Financial aid can help lower the cost of a Big Bend Community College education. Your eligibility will be calculated using the federal and state financial aid regulations based on the information submitted on the FAFSA. Awards may consist of any combination of grants, loans and/or work study. Receipt of VA educational benefits will not affect your eligibility for financial aid.

For additional information and assistance, contact the Veterans certifying official, located in the Financial Aid Office in the Student Center, Building 1400 or call 509.793.2034.

Minimum Standards of Progress for Veterans and Other Eligible Persons

There are two elements of Satisfactory Academic Progress measurement, Credits and Grade Point Average. Veterans and other eligible persons must maintain a 2.00 quarterly grade point average to graduate in their approved degree program. VA recipients who fail to maintain minimum standards of progress during any quarter enrolled will be subject to VA probation/cancellation. Depending upon enrollment status, the following requirements apply:

If your enrollment status is: You must complete:		You will be on VA Probation if you complete	canceled if your cumulative GPA is less than 1.0 or you complete less than	
Full Time	12 credits/quarter	6-11 credits/quarter	5 credits/quarter	
3/4 Time	9 credits/quarter	6-8 credits/quarter	5 credits/quarter	
1/2 Time	6 credits/guarter	3-5 credits/guarter	5 credits/guarter	

Minimum standards of progress for less than 1/2 time enrollment requires completion of all credits enrolled and at least a 2.00 cumulative grade point average. Failure to do so will result in probation the next quarter enrolled. VA benefits will be canceled any quarter that no credits are completed.

Students who are on probation must complete the required credits for their enrollment status and maintain at least a 2.00 cumulative grade point average or their VA benefits will be canceled and the VA informed accordingly.

Only numerical grades of 0.7 to 4.0 and the letter grade "P" will count toward completed credits. Grades of 0.0, "I," "N," and "W" do not count toward completed credits and do not meet minimum standards of progress requirements.

The Department of Veterans Affairs will not pay a person to repeat a course except when "F" or 0.0 grades are received for courses required for graduation.

Students cannot be certified to the VA as re-enrolled in a course in which an incomplete grade was received unless an incomplete has been converted to a final grade that is unacceptable for graduation.

If there is a change in the number of credits completed or grade point, the probation/cancellation status of the student may be changed. If so, previous action for the quarter may be voided.

A student whose benefits have been canceled for not making minimum standards of progress may be reinstated if the student submits a Satisfactory Academic Progress Appeal to the Veterans certifying official.

Student Programs

BBCC strives to provide a well-balanced program of extra-curricular activities for all students. This is in keeping with the belief that participation in college activities contributes to the development of a well-rounded personality and to the growth of leadership ability. These activities help to promote school spirit, to furnish outlets for special interests and talents of students, and to enhance their cultural development. Students interested in extra-curricular activities or serving as Associated Student Body (ASB) officers should contact personnel in the Student Activities Office, Building 1400 or call 509.793.2066.

Intercollegiate Athletics

The athletic program gives full-time students an opportunity to participate in competitive intercollegiate sports. As a member of the Northwest Athletic Association (NWA), the college sponsors teams in women's volleyball, men's and women's basketball, men's baseball, and women's softball (fast pitch).

Students interested in being involved in intercollegiate athletics may contact one of the coaches or the athletic director at 509.793.2227. Scholarships are available.

Intramural Activities

Intramural activities are programmed in response to student interests and may include basketball, volleyball, racquetball, pool, dodgeball, recreational gym, and softball. Opportunities for sports instruction are offered through the physical education department.

Music

All students are eligible to participate in music performance groups. For more information about music performance groups call 509.793.2140.

Student Government

All students enrolled at BBCC and who hold a valid ASB card are automatically members of the ASB. The ASB is officially recognized as the students' voice in the governance of the college. Student government is an integral part of the college structure. ASB officers serve on college committees, hear student complaints, entertain requests for funding student clubs, and plan and schedule activities. In addition, officers communicate student needs directly to college administrators and provide student representation at BBCC Board of Trustees meetings.

The selection process for ASB Officers is held annually in the winter quarter and every eligible student is encouraged to apply for a position. The Programming Board is appointed by the ASB Executive Council. Executive officers and Programming Board members receive a stipend for their services. ASB Executive Officers and appointees are as follows:

- President
- · Vice President
- Secretary
- Treasurer
- Public Relations Officer
- Program Director
- Programming Board Members

Student Organization & Areas of Involvement

Clubs and organizations are developed in response to specific student interests, skills, educational programs, cultural heritage, or social causes. All students are encouraged to participate in existing organizations or to start new organizations. Current active clubs include: Phi Theta Kappa; LDSSA; Nursing Club; M.E.Ch.A.; Welding Club; Students Supporting Students Club; Engineering Club; Gay Straight Alliance Club; Lindy Hoppers (Swing Dance); Recreation Club; Aviation Club; Drama Club; Viking Dance/Fitness Club; L.I.G.H.T. (Living in God's Holy Truth); Veterans Club and Brazilian Jiu-Jitsu Club. For information regarding existing clubs or organizing new ones, please contact the Student Activities Office in the Student Center Building 1400 or call 509.793.2066.

Academic Information

Academic Amnesty

Under the provisions of the BBCC Academic Amnesty procedure, a student may apply for Academic Amnesty if they: are currently enrolled at BBCC, did not enroll in college for at least two consecutive years following the period in which they had academic problems (grade point average below 2.00), have completed 24 or more credits with a grade point average of 2.50 or higher since returning to college, and have not withdrawn from more than five credits in any quarter since returning to college. If amnesty is approved, all grades will still appear on the transcript but will not be calculated in the BBCC cumulative grade point average. Further information may be obtained from the Counseling Center.

Auditing a Course

A student may enroll in a course on an audit basis. An auditing student is not expected to take exams, but the instructor may require reasonable attendance and class participation. No college credit is received for audited courses; regular tuition charges apply. Changes from audit to credit are permitted after the 10th instructional day of the quarter with instructor approval. Changes from credit to audit are permitted up to the final date to drop a class. Changes may not be made after the last day to withdraw unless approved by the instructor.

Course Numbering System

The following course numbers are used at BBCC: **010-049:** Courses in this series do not apply toward

graduation from BBCC.

050-099: Courses in this series may be applied toward graduation from BBCC under the Associate in Applied Science or Associate in General Studies degree. (DVS prefixed courses DO NOT apply toward graduation.)

100-299: Courses in this series may be applied toward graduation in any degree program at BBCC.

Common course numbering is designed to make course transfer between and among the 34 community and technical colleges as easy as possible for students, advisors and receiving institutions. Courses with an "&" as part of the prefix are designated as common across the Washington community and technical college system.

Course Repeat Policy

Under the provisions of this policy, students may elect to repeat a course in which a grade of 1.9 or lower was received and then have the highest grade received count toward their cumulative (graduation) grade point average (GPA). A course may be repeated only once. Students must notify the Admissions/Registration Office after they have repeated a class.

Students should be aware that the original enrollment and grade received will remain on the transcript; only the cumulative GPA subsequent to the repeat is affected by the second grade received. Students who are receiving financial aid or VA benefits should consult with the Financial Aid Office prior to enrolling in any course for a second time; aid eligibility may be lost or reduced as a result.

Credit by Examination

In addition to standardized tests for specific course credits, students may obtain college credit for courses listed in the current catalog by passing an examination in that course, and/or demonstrating to the department concerned that both content and method have been mastered adequately. This process does not include visiting or auditing a class followed with a request for a special examination as a means of acquiring credit. This privilege is intended to evaluate informal and/or comparable educational experiences that may be the equivalent of organized class work.

The procedure is as follows:

- The student obtains written approval from his/her advisor, the course instructor, and an Admissions/ Registration staff member. Forms are available in the Admissions/Registration Office.
- 2. After approval, the student pays the required fee at the Business Office, and upon showing the receipt to the instructor, is allowed to proceed with the examination.
- 3. The actual time of giving an approved examination for credit is a matter of mutual convenience between the instructor and student.

A maximum of 22 credits awarded by examination of any type will be allowed toward an associate degree. Each division has different policies for which, if any, classes can be given credit by examination. Check with the division chair for details.

Credits & Credit Load

The academic year is divided into three quarters of approximately 11 weeks each. To be considered full time a student must be enrolled in at least 12 credits per quarter. The course load per quarter is approximately 15 quarter hours of credit. A lecture class that meets five hours per week for one quarter will yield five quarter hours of credit. Laboratory courses require two hours of class time per week for one hour of credit. Credit is given only for classes in which the student is officially registered and passes.

End of Term Grades

Grades are available online one week after final exams have completed. To obtain grades online students go to the BBCC Student Kiosk at www.bigbend. edu and choose Grades/Unofficial Transcript. A valid student identification number and PIN are required to view grades. Students requesting a copy of their grades in person must provide picture identification.

General Examination Credit

Nationally standardized tests fall into two general categories: general subject matter exams, e.g. social science and natural science; and specific subject matter examinations, e.g. history of western civilization and college calculus. Current students having satisfactory scores on standardized tests may be awarded credit toward BBCC degrees. Such credit may, if appropriate, be issued to satisfy specific distribution requirements or general electives.

Official score reports must be submitted to the Admissions/Registration Office for evaluation. No fee is charged for evaluation and awarding of credit for admitted BBCC students. For credits awarded for CLEP and College Board Advanced Placement Exams students should check the admissions section of the BBCC website at www.bigend.edu.

Grading Symbols

BBCC instructors report grades using a numerical grading system from 4.0 to 0.7 in .1 increments and also the grade 0.0. The number 0.0 is assigned for failing work for which no credit hours are earned. Letter grade equivalents are approximated by the following distribution:

4.0 - 3.8 A Excellent
3.7 - 3.5A-
3.4 - 3.2B+
3.1 - 2.9B Very Good
2.8 - 2.5B-
2.4 - 2.2C+
2.1 - 1.9 C Average
1.8 - 1.5C-
1.4 - 1.2D+
1.1 - 0.9 D Below Average
0.8 - 0.7D-
0.0F Failing
(0.7 lowest passing grade)

Grade Point/Grade Point Average Calculations:

Earned grade points equal the product of the number of credits for a course and the grade given. For example:

5 (credits) X 2.7 (grade in course) = 13.5 grade points

The grade point average (GPA) for a number of courses equals the total of grade points earned in those courses divided by the sum of the credit hours for those courses. For example, a student is enrolled in courses X, Y, and Z that are 5, 4, and 3 credit hours respectively during one quarter. The student receives a 3.1 grade in course X, a 1.5 grade in course Y, and a 2.3 in course Z.

The Total Grade Points Equals:

Course X 5 X 3.1 = 15.5 Course Y 4 X 1.5 = 6.0 Course Z 3 X 2.3 = 6.9

28.4 Total Grade Points for Quarter

Total credits attempted = 5+4+3 = 12 for quarter Grade Point Average for quarter = 28.4/12 = 2.37

The cumulative GPA over multiple quarters is calculated in the same way using all courses in which a numerical grade has been given.

"I" Grade

The "I" grade is used to indicate a grade has been deferred. The instructor can choose to award an "I" grade to students making satisfactory progress who, for reasons beyond their control, are unable to complete their work on time. The instructor must submit on the "Incomplete Requirements" form, a written explanation of work to be completed with any grade turned in as an "I". REMOVAL OF INCOMPLETE: Once a student has completed the necessary requirements for a decimal grade, the instructor will notify the Admissions/ Registration Office, via a change of grade form, of the grade obtained by the student. The incomplete is then removed from the student's record and the new grade is substituted. An incomplete "I" grade will revert to a failing "0.0" grade if the change of grade form is not in the Admissions/Registration Office by the following dates:

Requirements must

"I" grade received: be completed by:

Summer Quarter November 1
Fall Quarter February 20
Winter Quarter May 20
Spring Quarter November 1

"W" Grade

A student may withdraw from classes up to two weeks prior to the last day of instruction for each quarter. Students who stop attending classes but do not officially withdraw from classes may receive a failing (0.0) grade. Students withdrawing from classes within the time permitted will receive a "W" grade.

"N" Grade

The "N" grade is given in courses in which a student has enrolled as an "auditor." (See "Auditing a Course").

Pass-Fail Grading Option

A maximum of 15 credits completed with a pass "P" grade may be applied toward a BBCC degree. The "P" grade is not included in the grade point average calculation. A failing (0.0) grade earned in a class graded using the pass/fail option is included in the GPA calculation. A "P" grade in a math or science class indicates a grade of 2.0 or above was earned.

Students enrolling in a course on a pass/fail basis should indicate this at the time of registration. Students are advised to speak with the instructor before enrolling in a class on a pass/fail basis. After the 10th day of the quarter, the instructor and the student's advisor must approve changing an enrolled course to pass/fail grading. Students may not change a course to pass/fail option after the last day to withdraw.

Students intending to transfer to universities should not use the pass/fail option for courses in their intended major. Courses being used for the Associate in Science degree or as basic or breadth requirements in the Associate in Arts and Science (DTA) degree may not be taken pass/fail.

Time Limitation to Change a Grade

A student who believes that an error has been made in the grade received for a course should contact the instructor as soon as possible to discuss the issue. Instructors may authorize a grade change within one quarter from the date the grade was issued. Summer quarter is excluded (i.e. spring quarter and summer quarter grade changes must be made by the end of fall quarter).

Honors at Graduation

A student graduates with "Honors" if they've earned a cumulative BBCC GPA of 3.33-3.74.

A student graduates with "Highest Honors" if they've earned a cumulative BBCC GPA of 3.75-4.00.

Quarterly Academic Honors

Students completing 12 or more credit hours in graded courses. (Excludes pass credits)

Vice President's List: GPA of 3.33-3.74 President's List: GPA of 3.75-4.00

Standards of Progress

Each student must earn a cumulative grade point average of 2.00 or above to remain in good standing. A student earning a cumulative GPA below 2.00 will be placed on warning, probation, or suspension. The category depends upon the criteria listed below. A student will be considered in good academic standing when her/his cumulative grade point average is raised to 2.00 or above.

Academic Warning

A student with less than 11 cumulative graded credits and a cumulative grade point average below 2.00 will be placed on academic warning status. A student in this category is required to meet with her/his assigned advisor prior to registering for future quarters.

Academic Probation

A student with 11 or more cumulative graded credits and a cumulative grade point average below 2.00 will be placed on academic probation status. A student in this category is required to meet with her/his assigned advisor prior to registering for future quarters.

Academic Suspension

A probationary student will be placed on academic suspension when the student's number of cumulative graded credits at BBCC is greater than 23 credits and cumulative grade point average is below 2.00 and quarterly grade point average is below 2.00. A student in this category will be suspended from enrollment in classes for one quarter. A student who has preregistered for the following quarter will be withdrawn from classes and a refund will be processed for any tuition and fees paid for that quarter. A student returning after suspension is required to meet with her/his assigned advisor prior to registering for future quarters and must earn a 2.00 quarterly grade point average at the end of every quarter until her/his cumulative grade point average is above 2.00.

Appeals

A suspended student may appeal academic suspension and request immediate reinstatement. The student must provide proof of extenuating circumstances and/or a plan for making measurable and substantial progress towards repairing her/his cumulative GPA. A letter of appeal must be submitted to the Vice President of Instruction/Student Services. The Vice President will call a meeting of the Academic Council to hear the appeal. The Academic Council may grant the appeal, may allow the student to continue under certain conditions, or may deny the appeal. The decision of the Academic Council is final.

Academic Dismissal

A student who fails to meet minimum standards and is subject to suspension a second time will be placed on academic dismissal. Academic dismissal results in suspension from enrollment in classes for one calendar year. A student who has preregistered for the following quarter will be withdrawn from classes and a refund will be processed for any tuition and fees paid for that quarter. A student returning after dismissal is required to meet with her/his assigned advisor prior to registering for future quarters and must earn a 2.00 quarterly GPA at the end of every quarter until her/his cumulative GPA is above 2.00. There is no appeal.

Student Records Confidentiality

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their educational records. They are:

- The right to inspect and review the student's educational records within 45 days of the day BBCC receives a request for access.
- 2. The right to request an amendment of the student's educational records that the student believes is inaccurate or misleading.

- 3. The right to consent to disclosures of personally identifiable information contained in the student's educational records, except to the extent that FERPA authorizes disclosure without consent. One exception, which permits disclosure without consent, is disclosure to school officials with legitimate educational interests. A school official is: a person employed by BBCC in an administrative, supervisory, academic, or support staff position; a person or company with whom BBCC has contracted (such as an attorney, auditor, National Student Clearinghouse); a person serving on the Board of Trustees; or a student serving on an official committee or assisting another school official in performing his or her tasks. Unless restricted by the student, BBCC may disclose the following information without the student's written consent: student's name, address, telephone listing, electronic mail address, date of birth, participation in officially recognized activities and sports, weight and height of members of athletic teams, enrollment status, dates of attendance, honor roll, degrees and awards received, and the most recent previous educational agency or institution attended by the student.
- The right to file a complaint with the U.S.
 Department of Education concerning alleged
 failures by Big Bend Community College to
 comply with the requirements of FERPA.

Transcripts

An official transcript is a copy of a student's permanent academic record that is signed by the Registrar and has the college seal imprinted on it. A transcript will be released only upon authorization of the student. Transcripts may be withheld if any financial obligations to BBCC have not been met. Information on ordering official transcripts is available on the BBCC web site at www.bigbend.edu or by calling 509.793.2061. Students may print an unofficial copy of their BBCC transcript from the BBCC Student Kiosk at www.bigbend.edu.

Degrees & Certificates

BBCC offers the following degrees and certificates of achievement:

Direct Transfer Agreement (DTA) Degrees:

Students may earn only one DTA degree.

Associate in Arts and Science DTA degree is awarded to students completing the requirements of the college transfer program. This degree is designed to transfer to most bachelors of arts degrees at Washington's four-year institutions.

Associate in Business DTA/MRP (Major Related Program) degree is designed for students who intend to transfer to a baccalaureate institution to complete a bachelors degree in business.

Associate in Pre-Nursing DTA/MRP degree is designed for students who intend to transfer directly from BBCC to a baccalaureate institution to complete a bachelors degree (BSN) in nursing.

Associate in Science Transfer degree is awarded to students who intend to transfer and major in mathematics, engineering, or a natural science.

Associate in Applied Science degree is awarded to students completing an approved course of study in a professional technical program.

Associate in General Studies degree is awarded to students who do not intend to complete a transfer degree. Credit for appropriate coursework included in this degree may be transferred to a four-year institution, but the degree does not, by itself, provide the potential transfer advantages of a transfer degree. This is not a direct transfer degree program.

Certificates of Achievement and Accomplishment may be awarded to students completing the requirements of an approved professional/technical certificate program.

General Requirements - All BBCC Degrees

Students entering BBCC while this catalog is in use have three years from the quarter of entry in which to complete degrees based on the general and specific degree requirements included in this catalog. After that date students must meet any changes in graduation requirements.

A minimum 2.00 cumulative grade point average is required for all BBCC degrees. Students must complete and submit an application for graduation to the Admissions/Registration Office before a degree will be awarded.

Resident Credit Requirement

A minimum of 30 quarter hours must be earned through enrollment in BBCC courses. Exceptions to this policy may be granted with approval of the student's advisor and the Dean of Student Services.

General Education

What is General Education?

General education is the part of a college curriculum shared by all students seeking a degree. It provides broad exposure to multiple disciplines and forms the basis for developing important intellectual and civic capacities.

Why General Education?

For a job:

- Business leaders and other employers tell BBCC that employees need to be able to think critically, to speak and write clearly, and to be able to reason quantitatively.
- More and more Americans change jobs several times during their lifetime. General education skills carry over from one job to another and enable students to be more flexible as they navigate the changing world of work.

For life:

- General education provides the skills students need to think through the pressing problems of today so they can be actors in their personal, national and international life, rather than victims.
- General education prepares students to enjoy the complex, multifaceted and changing world they live in-whether that's through a musical concert or a magnificent rock formation.

General education courses are offered in communication, mathematics and natural science, humanities and fine arts, and social science. These core curricula focus on the interrelationships between major fields of study.

Outcomes and criteria to measure the effectiveness of BBCC's general education curricula have been cooperatively developed and implemented by faculty and administrators and have been communicated to the Board of Trustees. Outcomes 1-4 were adopted by the faculty in 2000, Outcome 5 was approved in March 2012. The general education outcomes specify that:

Effective Communication

Students will be able to communicate clearly and effectively.

Criteria:

- 1.a. Clarity
- 1.b. Logical flow from point to point
- 1.c. Sound support of assertions
- 1.d. Creative or divergent thinking
- 1.e. Adhere to conventions of standard written English
- 1.f. Sources adhere to citation/reference formats

Mathematical Reasoning

Students will be able to reason mathematically. Criteria:

- 2.a. Interpret information in graph form
- 2.b. Understand and use statistical information
- 2.c Problem Solving Students will be able to solve problems combining and applying knowledge from multiple sources.

Criteria:

- 3.a. Define the problem
- 3.b. Break it into steps
- 3.c. Draw logical conclusions
- 3.d. Generate multiple and diverse perspectives in trying to solve the problem
- 3.e. Recognize extraneous information
- 3.f. Follow directions and fulfill the expectations of the assignment*

Critical Thinking

Students will be able to gather and interpret information. Criteria:

- 4.a. Distinguish between well-supported and unsupported claims
- 4.b. Make comparisons and draw contrasts
- 4.c. Recognize the points of an issue or claim
- 4.d. Access multiple sources of information

Multiculturalism

Students will be able to define and articulate aspects of their own cultures and the cultures of others.

Criteria:

- 5.a. Define and articulate an objective sense of personal culture as it relates to external cultures.
- 5.b. Define and articulate historical aspects of cultures using appropriate vocabulary and examples.
- 5.c. Define and articulate meaningful aspects of global cultures using appropriate vocabulary and examples.
- Define and articulate concepts related to the culture of the workplace and community.
- 5.e. Students will be able to define and articulate personal, historical, global and workplace/community aspects of culture.

Related Instruction

The Associate in Applied Science degree requires the completion of a core of related instruction in a) oral and written communication, b) computational skills, c) human relations, and d) first aid. Course content is specialized for some professional/technical programs in order to provide application-based models of learning. Certificate programs of 45 credit hours or more require the completion of the related instruction core courses.

Associate in Arts & Science DTA Degree

To earn the Associate in Arts and Science DTA degree, a student must:

- Satisfy the "General Requirements All BBCC Degrees."
- Complete at least 90 transferable credit hours in courses numbered 100 or above with a grade point average of 2.0 or higher.
- Earn a grade of at least a 1.0 in each college level course used in the degree.
- Satisfy the following basic, breadth, physical education, and total credit minimums.

Note: No course may be used more than once for meeting degree requirements.

Since programs differ at each college, students should consider program outlines published by the college or university where the student plans to continue his/her course of study. The following recommended courses will prepare students for most senior institutions. Students should prepare their quarterly schedules with the assistance of an advisor knowledgeable in their transfer area.

Foreign Language Advisory

Although the Associate in Arts and Science DTA degree does not have a specific requirement for foreign language, all potential transfer students need to be aware that many universities have either an admission or graduation requirement of two years of a single foreign language in high school or two or three quarters of a single foreign language in college.

If a student is certain of the university where she/he will transfer, she/he should carefully review the foreign language requirements of that college. In general, students not having two years of high school foreign language are well advised to include a year of college foreign language (through the 123 level) in their degree program at BBCC.

Math/Science Advisory

Students planning to transfer to Washington State University should carefully plan course work to complete

math/science breadth requirements with assistance of a college counselor or transfer advisor.

Student Planning Worksheet

Student planning worksheets for the Associate in Arts and Science DTA degree are available in the college counseling center. The worksheet is helpful in preparation for advising and registration each quarter. Students should maintain an accurate record of courses completed and bring their worksheets with them for advising appointments.

Basic and Breadth Requirements

I. Basic Requirements

A. English (ENGL&) 101 and 102 10 Credits or

ENGL& 101 and 201 and must also take a literature class as one of the humanities breadth courses (this option recommended for students planning to transfer to Eastern Washington University).

or

ENGL& 101 and ENGL 235

B. Quantitative Skills 5 Credits

Symbolic or Quantitative Reasoning (SQR) (5 Credits)

One course from:

Mathematics (MATH) - Any 5 credit MATH course above 101

Philosophy (PHIL): 120

(Intermediate Algebra or higher placement score is required for entrance into all SQR courses. Note: Enrollment in any BBCC math course requires placement at the appropriate entrance level.)

II. Breadth Requirements (50 Credits)

A. Humanities Minimum 15 Credits

Must include courses from at least two disciplines listed below with a maximum of 10 credits from any one discipline. No more than 5 credits in foreign language at the 100 level are allowed. A maximum of five humanities performance/ skill credits may be applied toward the 15 credit humanities breadth requirement.

Humanities Lecture Courses HU

Art (ART): 100, 212, 216, 217, 218 Communications (CMST): 102, 220, 229 English (ENGL): 211, 212, 216, 220, 221, 234, 239, 240, 243, 244, 245, 246, 261, 272

Foreign Languages (Counts as a single discipline) American Sign Language (ASL): 121, 122 or 123

French (FRCH): (121, 122 or 123), 221, 222, 223

German (GERM): 121, 122 or 123

Spanish (SPAN): (121, 122 or 123), 211, 212,

213, 221, 222, 223

Humanities (HUM): 110, 214

Music (MUSC): 100, 105, 170, 174,175

Philosophy (PHIL): 101, 120, 210, 211, 230, 240,

250

Religious Studies (REL): 201, 211

Humanities Performance/Skill Courses HP

Art (ART): 101, 102, 103, 104, 105, 106, 121, 122, 123, 198, 221, 222, 223, 230, 231, 232, 233, 298

Journalism (JOU): 140

Music (MUSC): 110, 114, 115, 116, 117, 120, 124, 134, 204, 215, 216, 217,

B. Social Science Minimum 15 Credits

Must include courses from at least three disciplines listed below:

Social Science Courses SS

Anthropology (ANTH): 100 Criminal Justice (CJ): 101

Economics (ECON): 200, 201, 202

History (HIST): 110, 116, 117, 118, 121, 136, 137,

201, 210, 245, 250, 270

Political Science (POLS): 202, 203

Psychology (PSYC): 100, 180, 200, 204, 225

Sociology (SOC): 101, 201, 204, 220

C. Math/Science Minimum 15 Credits

Must include courses from at least two disciplines, distributed as follows:

Part 1. Minimum 10 credits from the following lists. Must include at least one lab science course.

Lab science courses:

Astronomy (ASTR): 101

Biology (BIOL): 100, (211 or 222), 221, 223, 241,

242, 260

Botany (BOT): 130, 140

Chemistry (CHEM): 110, 121, 131, 161, 162, 163

Geography (GGR): 101 Geology (GEOL): 101

Physics (PHYS): 110, 114, 115, 116, 221, 222,

223

Non-Lab science courses:

NS

LS

Astronomy (ASTR): 100 Aviation (AVF): 113, 213 Biology (BIOL): 170 Chemistry (CHEM): 105

Engineering (ENGR): 214, 215, 224, 225, 240

Environmental Science (ENVS): 100

Nutrition (NUTR): 101 Science (SCI): 101 Part 2. Additional minimum five credits from either the lab course or non-lab course lists in Part 1 above or from the following list:
MS Mathematics (MATH): 107, 141, 142, 146, 147, 148, 151, 152, 163, 220, 230, 254

III. Specified Electives

Sufficient additional credits in courses from either breadth or specified electives lists so that the sum of credits in I, II, and III is at least 75.

Specified Elective Courses

SE

Accounting (ACCT): 201, 202, 203

Astronomy (ASTR): 105 Biology (BIOL): 104 Business (BUS): 101, 201 Communications (CMST): 234 Computer Science (CS): 101,141,142 Criminal Justice (CJ): 110, 210, 220

Education (EDUC): 115, 202, 204 Engineering (ENGR): 111, 112

English (ENGL): 201, 235 (If not used as part of

the English composition requirement)

Physical Education (PEH) maximum 5 credits: All lecture (Non-AC PEH) courses numbered 100 and above.

Science (SCI): 104

IV. Physical Education/Health & Wellness

3 Credits

AC

Complete one of the following:

A. Three (3) PEH Activity [AC] Credits(A maximum of 3 credits of PEH activity may be used in the degree.)

or

B. PEH 100 (Lifetime Wellness)

or

C. PEH 178 (Principles of Fitness)

V. General Electives

Up to 12 transferable credits in courses numbered 100 or above to bring total credit hours in I, II, III, IV and V to 90. A maximum of three PEH activity credits may be used in the degree.

Associate in Business DTA/MRP

This pathway is applicable to students planning to prepare for various business majors at universities in Washington. Students choosing this degree are advised to contact their potential transfer institution early regarding specific course choices in each area of the degree where options are listed, the requirement for overall minimum grade point average, and if a higher grade point average is required in a selected subset of courses or a specific minimum grade in one or more courses is required.

I. Basic Requirements

15 credits 10 credits

1. ENGL& 101

2. ENGL& 102*

*EWU requires ENGL 201

A. Communication Skills

B. Quantitative Skills

5 credits

1. MATH& 148

C. Intermediate Algebra Proficiency is required

II. Breadth Requirements

50 credits

A. Humanities

15 credits

Must include courses from at least two disciplines with a maximum of 10 credits from any one discipline. No more than 5 credits in foreign language at the 100 level are allowed. A maximum of five humanities performance/skill credits may be applied toward the 15 credit humanities breadth requirement.

1. CMST& 220

2. Student choice

10 credits

B. Social Science

15 credits

1. ECON& 201

2. ECON& 202

3. Student choice (not ECON)

5 credits

C. Math/Science

15 credits 10 credits

(5 credits must be a lab course)

2. MATH& 146

1. Natural sciences

D. Additional Credit in Breadth

5 credits

1. MATH& 141

III. Specified Electives

10 credits

1. BUS& 201

2. ACCT& 201

IV. Physical Education/Health & Wellness 3 Credits

1. Student choice-a maximum of 3 PEH activity credits may be used in the degree

V. Electives

15 credits

1. ACCT& 202

2. ACCT& 203

3. MATH 147

Associate in Pre-Nursing DTA/MRP Degree

This pathway is applicable to students planning to prepare for an upper division bachelors degree (BSN) in nursing. (Entry-to-practice/basic BSN pathway). Students should enter the college or university at junior

standing, however, admission to the nursing program is not guaranteed. Students choosing this degree are advised to contact their potential transfer institution early regarding specific course choices in each area of the degree where options are listed and minimum GPA requirements.

I. Basic Requirements A. Communication Skills

15 credits 10 credits

- 1. ENGL& 101
- 2. ENGL& 102. ENGL 235 or ENGL 201

B. Quantitative Skills

5 credits

1. MATH& 146

C. Intermediate Algebra Proficiency is required

II. Breadth Requirements

A. Humanities

50 credits 15 credits

Must include courses from at least two disciplines with a maximum of 10 credits from any one discipline. No more than 5 credits in foreign language at the 100 level are allowed. A maximum of five humanities performance/skill credits may be applied toward the 15 credit humanities breadth requirement.

1. CMST& 220

2. Student choice

10 credits

B. Social Science

15 credits

- 1. PSYC& 100
- 2. PSYC& 200
- 3. A sociology class

5 credits

C. Math/Science

15 credits

- 1. BIOL& 211
- 2. BIOL& 241
- 3. BIOL& 242

D. Additional Credit in Breadth

5 credits

1. CHEM& 121

III. Specified Electives

10 credits

- 1. CHEM& 131
- 2. BIOL& 260

IV. Physical Education/Health

& Wellness

3 credits

1. Student choice-A maximum of 3 PEH activity credits may be used in the degree.

V. General Electives

12 credits

- 1. NUTR& 101
- 2. Student choice*

7 credits

Credits must be fully transferable as defined by the receiving institution

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Big Bend Community College

Careful planning is important in all of the degrees offered by BBCC. In the case of the AS-T degree, it is essential to have information about general requirements Science degree at the intended baccalaureate institution

Associate in

Science-Transfer Degree

Satisfy the "General Requirements - All BBCC

Satisfy all requirements detailed below for one of

To earn the Associate in Science -Transfer (AS-T)

Complete at least 90 transferable credits

numbered 100 or above.

the pre-majors in this degree.

degree, the student must:

Degrees"

and also major requirements for the specific Bachelor of from the beginning and throughout the degree planning process. The purpose of the degree is to allow the student who plans to complete a Bachelor of Science degree in biology, chemistry, computer science, engineering or

physics the opportunity to make substantial progress toward fulfilling major requirements while completing at least half of the liberal arts, or general requirements, in studies such as English, the humanities and the social sciences. The degree is accepted by many baccalaureate institutions in the state of Washington. Completing the AS-T degree will prepare students for upper division study; it does not guarantee students admission to the major.

While BBCC faculty advisors consult with students to help them plan effectively, the ultimate responsibility to plan rests with the student. The college recommends that the student identify one or two potential transfer schools and then contact qualified program advisors at those institutions as early as possible to obtain specific. course-by-course advice. Throughout one's enrollment at BBCC, the program advisors at the transfer institution should be consulted.

Unlike the DTA degree, the AS-T degree does not automatically fulfill the lower division (first and second year) general requirements at a university. Typically the AS-T degree holder's BBCC transcript will be evaluated on a course-by-course basis according to both its general requirements and major requirements. In the admissions process, the AS-T degree typically offers the same advantages as the DTA—it is generally easier to be admitted as a transfer student with a transferable degree.

English Composition—5 credits

MATH& 151 and 152

AS-T 1 & 2 Requirements: ENGL& 101, ENGL& 102, ENGL 201 or ENGL 235 Mathematics—10 credits

Humanities and Social Science—15 credits

Minimum of 5 credits in humanities, 5 credits in social science, 15 credits total. See the lists in the Associate in Arts & Science – DTA degree for specific courses.

Pre-Major Program

One of the following five pre-majors must be completed.

AS-T 1: Biology pre-major—45 to 50 credits
BIOL& 221, 222, 223; CHEM& 161, 162, 163;
MATH& 141, 142 and 146 (or 163)
Remaining 10-15 credits can be in any science
or math course normally taken for science majors
(not for general education), preferable in a 2-3
quarter sequence as approved by an advisor.

AS-T 1: Chemistry pre-major—45 to 50 credits: CHEM& 161, 162, 163; MATH& 146 or 163; PHYS& 221, 222, 223; 10-15 cr. in PHYS, GEOL, BIOL or MATH, consisting of courses normally taken for science majors, preferably in a two or three course sequence, as approved by advisor.

AS-T 2: Computer Science or Physics pre-major—25 credits:

PHYS& 221, 222, 223; MATH& 146 or 163; one 5-credit science course as approved by advisor based on the requirements of the specific discipline at the baccalaureate institution the student plans to attend.

AS-T 2: Engineering pre-major—25 credits: PHYS& 221, 222, 223; CHEM& 161; MATH& 146 or 163.

AS-T 2: Specified Electives and General Electives

See the lists in the AA&S-DTA degree for specific courses.

Credits approved by the advisor based on the requirements of the specific discipline at the transfer institution the student plans to attend, with no more than 5 credits of general electives. A minimum of 90 transferable credits must be earned for an AS-T degree.

Physical Education/Health & Wellness

Three credits in physical education activity courses or PEH 100 or PEH 178.

Associate in Science (AS-T 2) Pre-Engineering MRP Degree Electrical/Computer

This pathway is applicable to students planning to prepare for an upper division degree in electrical or computer engineering. Students should enter the college or university at junior standing, however, admission to the engineering program is not guaranteed. Students choosing this degree are advised to contact their potential transfer institution early regarding specific

course choices in each area of the degree where options are listed and minimum GPA requirements.

I. Basic Requirements

A. Communication Skills

ENGL& 101, 102 or 235

40 credits

5 credits

B. MathematicsMATH& 151, 152, 163

C. Engineering Physics 15 credits PHYS& 221, 222, 223

D. Chemistry 5 credits
CHEM& 161

II. Pre-Major Core Requirements 20 credits

A. Mathematics 10 credits

MATH 220, MATH 230

B. Electrical Engineering 5 credits ENGR& 204

C. Programming 5 credits
CS& 131 or CS& 141

III. Pre-Major Specified Electives 25 credits

Select 5 courses, at least 25 credits, as appropriate for intended major and intended bachelor's institution:

 CHEM& 162 (Required for WSU/semester transfers)

- ENGL& 235 Technical Writing
- ENGR 202 Design of Logic Circuits
- ENGR 205 Electrical Circuits Lab (1 credit lab required for WSU transfers)
- · ENGR& 214 Statics
- ENGR& 215 Dynamics
- ENGR& 224 Thermodynamics
- ENGR 240 Applied Numerical Methods
- MATH& 254 Calculus IV
- A second course in computer programming

IV. Humanities and Social Sciences 15 credits

- A. Must include at least one Humanities course of 5 credits and one Social Science course of 5 credits, plus an additional 5 credits of Humanities or Social Sciences for a total of 15 credits. Additional general education requirements, cultural diversity requirements, and foreign language requirements, as required by the receiving institution, must be met prior to completion of the baccalaureate degree. Please meet with your advisor to determine which courses to take in this area.
 - 1. CMST& 220 and ECON& 201 or ECON& 202 (required by WSU, UW and EWU)

Associate in Science (AS-T II) Pre-Engineering MRP Degree Mechanical/Civil/Aeronautical/ Industrial/Materials Science

This pathway is applicable to students planning to prepare for an upper division degree in mechanical, civil, aeronautical, industrial or material science engineering. Students should enter the college or university at junior standing, however, admission to the engineering program is not guaranteed. Students choosing this degree are advised to contact their potential transfer institution early regarding specific course choices in each area of the degree where options are listed and minimum GPA requirements.

I.	Basic Requirements	45 credits
	A. Communication Skills ENGL& 101, 102 or 235	5 credits
	,	
	B. Mathematics	15 credits
	MATH& 151, 152, 163	
	C. Engineering Physics	15 credits
	PHYS& 221, 222, 223	
	D. Chemistry	10 credits
	CHEM& 161, 162	io oround
II.	Pre-Major Core Requirements	25 credits
	•	
	A. Mathematics	10 credits
	MATH 220, MATH 230	
	B. Electrical Engineering	15 credits
	ENGR& 214, 215, 225	
	, -, -	

III. Pre-Major Specified Electives 20 credits

Select 4 elective courses, at least 20 credits, as appropriate for intended major and intended bachelor's institution:

- CS& 131 or CS& 141
- ENGL& 235 Technical Writing
- ENGR& 111 Engineering Graphics I (CAD) or ENGR& 112 Engineering Graphics II (3D)
- ENGR 201 Material Science
- ENGR& 204 Electrical Circuits
- ENGR 205 Electrical Circuits Lab (1 credit lab required for WSU transfers)
- ENGR& 224 Thermodynamics
- ENGR 240 Applied Numerical Methods
- MATH& 254 Calculus IV

IV. Humanities and Social Sciences 15 credits

A. Must include at least one Humanities course of 5 credits and one Social Science course of 5 credits, plus an additional 5 credits of Humanities or

Social Sciences for a total of 15 credits. Additional general education requirements, cultural diversity requirements, and foreign language requirements, as required by the receiving institution, must be met prior to completion of the baccalaureate degree. Please meet with your advisor to determine which courses to take in this area.

 CMST& 220 and ECON& 201 or ECON& 202 (required by WSU, UW and EWU)

Associate in Applied Science Degree

The Associate in Applied Science (AAS) degree is designed for students who plan to complete a professional/technical program offered by BBCC.

Early and regular contact with faculty advisors is essential in planning a professional/technical program. The Professional/Technical Program Plan, which is prepared in cooperation with a student advisor, is the primary means for documentation and approval of a program of study.

All professional/technical program students are required to take placement tests in mathematics and English to establish initial placement in these areas.

The total credit requirement of an approved professional/technical curriculum completion requires a minimum of 90 quarter credits.

Mathematics Requirement: 3-5 credits*

3-5 credits in mathematic courses* as stated in the approved Professional/Technical Program Plan.

BUS 102 Business Mathematics

MAP 100 Applied Mathematics (AMT)

MAP 101 Applied Mathematics (AUT/WLD)

MAP 103 Applied Mathematics (MMT/IET)

MAP 104 Applied Mathematics (AVF)

MAP 108 Applied Mathematics (MA)

MATH& 107 Math in Society

MATH& 141 Precalculus I

MATH& 146 Introduction to Statistics or higher level course

* Except AMT program which requires two MAP 100 credits

Written Communications Requirement: 3-5 credits

3-5 credits in written communications courses as stated in the approved Professional/Technical Program Plan

BUS 121 Business English ENGL& 101 English Composition I ENGL 109 Applied Technical Writing ENGL& 235 Technical Writing

Oral Communications Requirement: 3-5 credits

3-5 credits in oral communications courses as stated in the approved Professional/Technical Program Plan.

AVF 225 Effective Communication in Flight Instruction CMST 100 Human Communications CMST& 220 Public Speaking

CMST 229 Advanced Public Speaking

Human Relations Requirement: 3-5 credits

3-5 credits in human relations courses as stated in the approved Professional/Technical Program Plan.

BUS 120 Human Relations on the Job EDUC& 115 Child Development PSYC& 100 General Psychology SOC& 101 Intro to Sociology

Industrial First Aid Requirement: 2 credits

Two credits in Industrial First Aid or equivalent or higher certification as stated in the approved Professional/Technical Program Plan.

FAD 150 Industrial First Aid or Current First Aid/CPR, First Responder, or EMT Card

Associate in General Studies Degree

The Associate in General Studies (AGS) degree is designed to provide recognition for the student who is not planning to complete a transfer degree program or a specific professional/technical program. This degree requires students to complete certain general requirements while exploring elective areas.

Credit Requirement: 90 credits

(at least 65 in courses numbered 100 or above including:

- 10 credit minimum in communications (English, communications, business communications, business writing, foreign language and journalism may be used to satisfy this requirement.)
- 10 credit minimum in humanities
- 10 credit minimum in mathematics or science
- 10 credit minimum in social science
- · 47 credits in elective courses
- 3 physical education activity credits or PEH 100 or PEH 178

Certificate of Achievement

The Certificate of Achievement is designed to provide recognition for the student who does not plan to complete a degree program. Application for the Certificate of Achievement must be approved by the program advisor and the appropriate instructional dean.

This certificate includes related instruction and a minimum of 45 credits in an approved program, including:

3-5 credits in oral communications

3-5 credits in written communications

3-5 credits in human relations

3-5 credits in computational skills, and

25-31 credits in the program major

45 minimum total credits

Students working toward a Certificate of Achievement need to develop a program outline with the faculty advisor in their professional/technical area of interest that includes all related instruction components.

Certificate of Achievements are offered through the following programs:

Accounting Technician

Aviation Maintenance Technology

Business Information Management

Business Medical Services

Chemical Laboratory Technology

Computer Science

Early Childhood Education

Industrial Systems Technology

Medical Assistant

Practical Nursing

Welding Technology

Certificate of Accomplishment

The Certificate of Accomplishment is designed to provide recognition for the student who does not plan to complete a degree program but is interested in training and instruction in specialized areas.

This certificate does not necessarily include related instruction and varies in length from 5 credits to less than 45 credits.

Certificates of Accomplishment are offered through the following programs:

Accounting Technician

Automotive Technology

Aviation Maintenance Technology

Business Information Management

Business Medical Services

Commercial Driver's License

Computer Science

Industrial Systems Technology

Nursing Assistant

Welding

Refer to the Program of Study section for additional information

Educational Programs

Adult Basic Skills

Faviola Barbosa

509.793.2305

email: faviolab@bigbend.edu

High School Completion

A BBCC adult high school diploma may be earned through enrollment in college courses or through classes in the HS21+ program. Prospective high school completion students should contact their former high school to obtain a transcript of prior credit earned. Contact Jody Bortz at 509.793.2311 to make an appointment for credit evaluation and to plan enrollment.

GED Preparation

Individuals who wish to study before taking the GED test may enroll in a program to help them prepare for the test. Classes are open-entry and self-paced. Times and locations of classes may be found in the quarterly class schedule or by calling the ABE/GED Office at 509.793.2301.

Adult Basic Education

Adult Basic Education is a program for adults who did not finish high school and who wish to improve their skills in basic reading, writing, or arithmetic. Classes are open-entry and self-paced. Times and locations of classes may be found in the current quarterly class schedule or by calling the Basics Skills Program Assistant at 509.793.2301

English as a Second Language

English as a Second Language classes provide instruction in beginning and intermediate English language skills for adults whose first language is not English. Classes emphasize listening, speaking, reading and writing skills. Daytime and evening classes are offered. Times and locations of classes may be found in the current quarterly class schedule or by calling the Basic Skills Director at 509.793.2305.

Citizenship

Citizenship classes provide instruction in United States history, government and culture. Classes are designed to assist those preparing to take the U.S. citizenship examination. Times and locations of classes may be found in the current quarterly class schedule or by calling the Basic Skills Director at 509.793.2305.

Baccalaureate Opportunities on Campus

Students in the BBCC service district have the opportunity to complete several different baccalaureate degree programs through Central Washington University (CWU).

CWU delivers courses at BBCC via two-way interactive television with sites in Ellensburg, Wenatchee and Yakima. Students attending in Moses Lake can earn the following degrees, M.Ed. Master Teacher and B.S. Flight Technology. Students can also take courses leading to degrees in B.S. Accounting, B.S. Business Administration and Teaching Certificate. For admission, registration or program information, contact the CWU Moses Lake office at 509.793.2384.

The Center For Business & Industry Services

Beth Laszlo

509.793.2425

email: bethl@bigbend.edu

BBCC supports education as a life-long process. Through the Center for Business and Industry Services, BBCC offers numerous courses and workshops relating to special interest and needs in the Columbia Basin. Generally, topics include the following information categories: community and cultural understandings, arts and crafts, dance, humanities, contemporary issues, personal living skills, financial planning, personal growth, exercise and health, hobbies, recreation, home and family, home maintenance, and do-it-yourself subjects. Community education classes and workshops are not offered for college credit. These courses must be self supporting. Therefore, enrollment minimums and fees may vary based upon the actual cost of operating each class and upon the actual number of students who enroll.

Mission

To be a leader in providing the resources for continuous learning and workforce development by being responsive to the changing needs of our service district.

Continuing Education

These classes are generally designed for those who need skill enhancement but not college credit. Each quarterly class schedule announces the times and locations of classes in each community.

General Categories for classes are:

Business Skills, Marketing and Planning

Personal Enrichment

Computer Software Training

Professional Development, Public Speaking

Nonprofit Fundraising

Clases de Negocios en Español

Health and Wellness

Outdoor Skills and Travel

Crafts and Hobbies

House and Home Improvement Free Community Service Events

Community Education

Beth Laszlo

509.793.2425

email: bethl@bigbend.edu

BBCC supports education as a life-long process. Through the Center for Business and Industry Services, BBCC offers numerous courses and workshops relating to special interest and needs in the Columbia Basin. Generally, topics include the following information categories: community and cultural understandings, arts and crafts, dance, humanities, contemporary issues, personal living skills, financial planning, personal growth, exercise and health, hobbies, recreation, home and family, home maintenance, and do-it-yourself subjects. Community education classes and workshops are not offered for college credit. These courses must be self supporting. Therefore, enrollment minimums and fees may vary based upon the actual cost of operating each class and upon the actual number of students who enroll.

College-University Transfer Programs

In Washington, state supported community colleges and baccalaureate institutions have developed a Direct Transfer Agreement (DTA) to streamline the transfer process. By virtue of agreements between BBCC and most baccalaureate institutions in the state of Washington, the DTA degree will generally allow the student to transfer with junior standing and fulfill all or most general education requirements.

It is strongly recommended that each transferring student should consult with a faculty advisor concerning transferability of specific BBCC classes and degrees to specific institutions. With the assistance of a BBCC faculty advisor, a student can plan transferable studies at BBCC which apply toward a bachelor's degree at a baccalaureate institution. For more information regarding faculty advisors in your area of interest call 509.793.2035.

Certain pre-major studies may also be completed. A student interested in a field of study not listed should consult a faculty advisor.

Accounting Anthropology

Art Aviation (Commercial

Biological Science Pilot)
Business Administration Chemistry

Criminal Justice Computer Science

Economics Education

Engineering English

Foreign Language History

Mathematics Music

Nursing Philosophy

Physics Political Science

Psychology Social Science

Sociology

Students should also seek further information directly from the four year institution's admissions office and from advisors of their chosen major.

Integrated Basic Education and Skills Training (I-BEST) for: Early Childhood Education Medical Assistant

Faviola Barbosa

509.793.2305

email: faviolab@bigbend.edu

The I-BEST programs/classes are designed to assist adults with gaining professional and technical skills in the above areas while also working on their basic skills (English as a Second Language or Adult Basic Skills). Programs and courses are approved through the State Board for Community and Technical Colleges for I-BEST designation for high wage, high demand employment sectors. Goals are to complete initial certificates of Accomplishment and Achievement or vocational certification, and where possible, continue towards the achievement of the Associates degree. Most classes are held evenings and weekends and bilingual assistance is available where necessary.

Japanese Agricultural Training Program

Initiated in 1966, the Japanese Agricultural Training Program is jointly sponsored by the Japan Agricultural Exchange Council and the BBCC Foundation. The JATP represents a continuing effort, not only to improve agriculture in Japan, but also to promote greater understanding between Japan and the United States. Over 4,800 trainees have attended BBCC as part of the Japanese Agricultural Training Program..

Trainees come to the United States for an 19 month training experience, spending approximately 5 total months in school and 13 months of work training on the farm. BBCC provides Phase I Institutional Training

for all trainees. Upon arrival in the U.S., trainees spend approximately 8 weeks at BBCC where they are instructed in English as a Second Language (ESL) and an introduction to American culture and American agriculture.

Following instruction at BBCC, the trainees are placed on farms for approximately 13 months. Trainees are assigned to farms throughout the United States, where they work toward developing expertise in their chosen agricultural career specialty. Phase II Institutional Training takes place following the farm work/training experience. Trainees spend approximately 8 weeks at a U.S. college or university, receiving specialized agricultural instruction.

Financial support for this program is provided by the Japanese government and the Japanese Agricultural Trainees.

Library

Building 1800 (509) 793-2350 http://www.bigbend.edu/library email: librarymail@bigbend.edu

The William C. Bonaudi Library opened its doors Jan. 3, 2005. The facility includes two large multimedia equipped classrooms (rooms 1801 & 1802), study and lounge seating space, over 70 computers in the library commons area, and 10 quiet study and media viewing rooms. The Writing Center also shares this location.

The library's primary purpose is to support the educational mission of the college by providing access to information resources as well as instruction and assistance in the research process. The library also serves as a cultural and educational resource for the surrounding community.

The library is open to the general public as well as BBCC college staff, students and faculty. Non-BBCC students under the age of 18 must be accompanied by a legal guardian when using the BBCC Library.

FALL. WINTER & SPRING QUARTER HOURS

 Monday - Thursday
 7:30 a.m. - 9:00 p.m.

 Friday
 8:00 a.m. - 4:00 p.m.

 Saturday
 Noon - 6:00 p.m.

 Sunday
 Closed

SUMMER QUARTER & BREAK HOURS

Monday - Friday 8:00 a.m. - 4:00 p.m.

The library is closed during college observed holidays. Please check the library's web page or call to confirm specific dates and hours.

The library provides an extensive collection of resources that includes but is not limited to books, online resources, databases, eBooks, CDs and DVDs.

Students and patrons can freely access most of the library materials via the webpage (http://libguides. bigbend.edu/home). Off-campus access is available to faculty, staff and students via their Big Bend user name and password.

The library has printers and a scanner/copier/color printer available for use.

We welcome your use of the library and encourage you to become familiar with the library's services and policies via our webpage at http://libguides.bigbend.edu/home.

Online Classes/Distance Education/eLearning

Big Bend recognizes the need to provide education opportunities designed for students whose educational opportunities might be limited by time or distance constraints.

In online classes coursework is performed through the college's web based education systems. Students need to have access to a reliable Internet connection. In many cases dial-up access will not be adequate. Basic computer and internet skills will also prove helpful.

Some courses require tests be taken on campus or with an approved proctor so students should read the course description in the class schedule carefully.

Additional fees are charged to support the cost of online instruction. The current class schedule has fee details.

Online learning isn't for everyone... students considering taking online courses for the first time are strongly encouraged to visit www.bigbend.edu and click on Student Life to find the Online Learning Tutorial.

Running Start

Running Start allows qualified high school juniors and seniors to enroll tuition-free in college-level courses as part of their high school programs of study. Books, supplies, lab fees, and transportation are the responsibility of the student. Students are responsible to pay for any courses numbered below 100.

Subject to total credit load limitations, high school students attending BBCC under the Running Start program may simultaneously earn high school and college credits. Students interested in applying for entry to BBCC through the Running Start Program must first contact their local high school to determine eligibility. Application of college courses toward meeting specific high school graduation requirements is determined by local school districts. Prior to college registration, school district advising and approval/certification of student programs is required.

To be admitted to BBCC as a Running Start student, students must: be registered as a junior or senior in a

Washington state public school, be under 21 years of age, and place into a college-level English or college-level mathematics course. (College-level classes are numbered 100 and above.)

Students who will take only professional/technical courses, such as welding, industrial systems technology, etc., may qualify by placement into the required English and mathematics for that program.

Home schooled students and students attending private schools must be evaluated at the junior or senior level by a public high school official and enroll at that school.

Students who have passed the GED and who do not have a high school diploma may enroll through their high school and be eligible for the Running Start program until the age of 21.

For additional program information, students may contact their high school counselor or the BBCC Counseling Center at 509.793.2035.

STEM Center

509.793.2159

The Science, Technology, Engineering and Math (STEM) Center, located in the Math/Science Building (1200), offers students a wide variety of tutoring and instructional support services for all levels of math, science and engineering courses. The STEM Center is open to all BBCC enrolled students, including GED/DVS. Aside to tutoring services, the STEM Center also provides access to computer workstations, science and engineering course software, printing and scanning, private study rooms, and STEM related advising. Non-BBCC students wishing to use the STEM facilities must register for MATH 010.

Tech Prep

Lora Wood

509.793.2115

email: loraw@bigbend.edu

Tech Prep is a dual credit program that enables students to remain in high school and begin college professional/technical programs. Students earn college credit for selected high school occupational courses at no tuition costs. High school students must:

- 1. Enroll in a high school Tech Prep course.
- 2. Register for college credit online at www.bigbend. edu/techprep.
- 3. Complete the high school Tech Prep course with a grade of B or better and meet all course competencies.

Earned credit will be transcripted on the college permanent record upon receipt of all required conditions. Participating high schools include Almira-Coulee-Hartline, Ephrata, Lake Roosevelt, Moses Lake, Odessa,

Othello, Quincy, Ritzville, Royal, Soap Lake, Warden, Wahluke, Wilson Creek and the Columbia Basin Job Corps. For information regarding Tech Prep, students should contact their high school counselor or CTE director or the college Tech Prep Director.

TRiO Upward Bound

TRiO Upward Bound, formally known as College Bound, is a federally funded program through the U.S. Department of Education designed to encourage high school students to complete their high school education and pursue higher education. Approximately 90 students are selected to participate in this year-round program from the following target high schools: Moses Lake, Othello, Royal City, Warden, and Lake Roosevelt in Coulee Dam.

TRiO Upward Bound has been in operation at Big Bend Community College since 1967 and is the oldest program of its kind in Washington State. Its purpose is to provide equal access to post-secondary education for high school students by providing them with adequate preparation to enter college. The program achieves this by providing its participants with academic and personal advising, career planning, SAT/ACT preparation, monthly Saturday enrichment activities, college admission assistance including financial aid and scholarships.

The program offers a six-week residential summer school where 55 selected students live in the BBCC residence halls and receive intensive academic instruction to build skills and increase knowledge with particular emphasis in math, English, and science. Cultural and recreational activities and field trips enhance the value of this worthwhile experience. TRiO Upward Bound offers a Bridge Program to assist recent high school graduates in the transition from secondary school to college. Selected participants attend summer quarter at BBCC with tuition, books and room and board paid by TRiO Upward Bound. They also participate in a "work study" like program and earn money for college while working at an on-campus job matched with their career choice.

Students are eligible to apply if they are enrolled in one of the target high schools and have completed the 8th grade but not yet started their senior year. Also they need to be a first generation college bound student whose parents have not completed a Bachelor's degree and/or their family's taxable income meets federal income guidelines. Students must be a U.S. Citizen or legal resident and be motivated and have the academic potential to succeed in college.

BBCC receives an annual grant from the U.S. Department of Education for \$447,395 to operate the program; this grant covers 100% of the total program costs. **There is no charge for any services offered.

Workforce Education Programs

Daneen Berry-Guerin 509.793.2053 email: daneenb@bigbend.edu

BBCC offers both certificate and associate degree workforce education programs oriented toward preparing students for careers in many fields. In addition to providing initial job training, the College also offers refresher and improvement courses.

Each student must develop a Workforce Education Program Plan with his/her advisor.

Workforce Educational Programs offered by the college include:

Accounting Technician

Agriculture

Automotive Technology

Aviation (Commercial Pilot & Helicopter)

Aviation Maintenance Technology

Business Information Management

Business Medical Services

Commercial Driver's License

Computer Science

Early Childhood Education

Industrial Systems Technology

- · Industrial Electrical Technology
- · Maintenance Mechanics Technology

Medical Assistant

Nursing

- Nursing Assistant Certified
- Practical Nursing (Certificate)
- Nursing (ADN)

Welding Technology

Workforce Education Services

The Workforce Education Services department provides guidance, support, and financial assistance for students in basic education (GED, ESL, and High School completion) and vocational/technical workforce programs (non-transfer programs). Financial assistance includes tuition and fees, books, bus passes, and emergency supports. Some students may be eligible for food benefits and childcare assistance. Eligibility is broad; students can qualify based on: low-income status, military service within the past 48 months, displaced homemaker status, receiving or eligible for unemployment benefits, receiving or eligible for food benefits, or receiving TANF. For more information call 509-793-2052 or apply online: bigbend.edu/student-life/ workforce-education-services/workforce-educationservices-funding-application.

Writing Center

Kate Shuttleworth

509.793.2361

email: kates@bigbend.edu

The Writing Center (Room 1832) provides academic support for all students needing help with writing assignments. Students can bring assignments from any of their classes to be reviewed in the Writing Center. Help is also available with developing essays and doing research papers using MLA, APA, or CMS.

Programs of Study

Students entering BBCC may prepare for direct entry into a career or complete the first two years of a four-year college program before transferring.

These suggested programs of study are available at BBCC. The suggested outlines are to be used as guides only. Each student is strongly encouraged to consult a department faculty advisor for assistance to develop an individual program of study.

Students planning to transfer to four-year colleges or universities should consult the current catalog of the institution to which they intend to transfer and develop a program in consultation with a faculty advisor and/or college counselor. Many current four-year college and university catalogs are available in the counseling center.

Accounting

Leslie Michie 509.793.2180
email: lesliem@ bigbend.edu
Preston Wilks 509.793.2194
email: prestonw@bigbend.edu

Transfer Options

Accounting is often referred to as the language of business. This reference is because the primary function of accounting is to provide key financial information to business stakeholders to be used in assessing the economic performance and condition of a business. Professional careers in accounting can be found in the following specialized fields: managerial accounting, public accounting, forensic accounting, cost accounting, not-for-profit accounting, tax accounting, and international accounting. Additionally, an accounting degree serves as an excellent springboard for careers in business, business management, business consulting, business information systems and for advanced degrees in business administration and law. Those choosing to enter the field of accounting should have strong problem solving abilities, excellent oral and written communication skills, and quantitative skills.

Students intending to transfer to a baccalaureate institution and major in Business Administration have two degree options: 1) the Business DTA or 2) the Associate in Arts and Science DTA. Completing all of the prescribed courses listed for the Business DTA should enable students to be major ready when they transfer to a public baccalaureate institution in the state of Washington. See the Degrees and Certificates section for more information concerning the Associate in Business-DTA and the specific required classes for this degree.

Business students choosing to transfer with an Associate in Arts and Science-DTA degree should consult program outlines published by the college or university to which they intend to transfer. However, the following recommended courses prepare students for most baccalaureate institutions. Students should prepare their quarterly schedules with the assistance of an advisor knowledgeable in this transfer area.

Associate In Arts And Science-DTA Degree			
Recommended Pre-Major Courses Credits			
ACCT	105	Introduction to Accounting*	5
ACCT&	201	Prin of Accounting I	5
ACCT&	202	Prin of Accounting II	5
ACCT&	203	Prin of Accounting III	5
BUS&	201	Business Law	5
ECON&	201	Micro Economics	5
ECON&	202	Macro Economics	5
MATH&	146	Introduction to Statistics	5
MATH	147	Finite Mathematics	5
MATH&	148	Business Calculus	5
*Tech Prep credit available			

Recomm	nende	ed General Education Courses	Credits
CMST&	220	Public Speaking	5
ENGL&	101	English Composition I	5
ENGL&	102	Composition II	5
POLS&	202	American Government	5
PSYC&	100	General Psychology	5

Accounting Technician Professional Technical Program Associate in Applied Science (90 credits)

The Accounting Technician program is designed to develop proficiencies and skills necessary to obtain entry-level employment in bookkeeping and accounting career paths. Jobs are available in corporate offices, industrial plants, mortgage and commercial banks, investment firms, insurance offices, real estate offices, retailing operations, and in general, any small business.

Related instruction required for an Associate in Applied Science degree and Certificate of Achievement

BUS	102	Business Mathematics	
BUS	120	Human Relations on the Job	
BUS	121	Business English	
CMST&	220	Public Speaking	
FAD	150	Industrial First Aid	
See advisor for substitute courses.			

The following schedule of courses includes related instruction requirements and is the recommended program for completing this degree:

First Year Fall Quarter

ACCT	105	Introduction to Accounting*^	5	
BIM	101	Basic Keyboarding [^]	2	
BIM	181	Introduction to Microsoft Word	3	
BUS	102	Business Mathematics***	5	
		Winter Quarter		
BIM	110	Microsoft Office Essentials	3	
BUS&	101	Intro to Business	5	
BUS	121	Business English**		
BUS	161	Business Calculators*	2	
Spring Quarter				
BIM	182	Introduction to Microsoft Excel	2	
BUS	122	Business Communications	5	
CMST&	220	Public Speaking**	5	
ECON	200	Introduction to Economics	5	

[^]Students who have had accounting and/or typing in high school and can demonstrate proficiency may replace these courses with other business electives with advisor approval

Second Year Fall Quarter

ACCT&	201	Prin of Accounting I5		
ACCT	262	Intro to QuickBooks®2		
BIM	109	Intrnet Communications 1		
BUS&	201	Business Law5		
FAD	150	Industrial First Aid**2		
		Winter Quarter		
ACCT&	202	Prin of Accounting II5		
BIM	183	Intro to MS Office: Access* 1		
BIM	190	Spreadsheets 13		
BUS	120	Human Relations on the Job**4		
		Spring Quarter		
ACCT&	203	Prin of Accounting III5		
ACCT		Intro to Payroll Taxes2		
ACCT	260	Computer Accounting3		
BUS	170	Consumer Finance5		
*Tecl	*Tech Prep credit available			
		nstruction requirement for AAS degree and		
Certificate of Achievement				
One-Year Certificate of Achievement (52 credits)				

Upon completion of the following courses, the student

ACCT& 201 Prin of Accounting I......5

105 Introduction to Accounting* 5

ACCT&	202	Prin of Accounting II	5
ACCT&	203	Prin of Accounting III	5
ACCT	260	Computer Accounting	3
BIM	110	Microsoft Office Essentials	3
BIM	190	Spreadsheets 1	3
BUS	102	Business Mathematics***	5
BUS	120	Human Relations on the Job**	4
BUS	121	Business English**	5
BUS	161	Business Calculators*	2
CMST&	220	Public Speaking**	5
FAD	150	Industrial First Aid**	2
*Tech Prep credit available			
**Palated instruction requirement for AAS degree and			

^{**}Related instruction requirement for AAS degree and Certificate of Achievement

Certificate of Accomplishment

Upon completion of each of the following options, the student will receive a Certificate of Accomplishment from BBCC. Additionally, a student may select to complete any option, in any order. Upon completion of all four options, a student may select to complete the remaining 32 program credits in order to receive an AAS degree in accounting.

Option 1: Basic Office Computing (15 credits)

101	Basic Keyboarding	. 2
181	Introduction to Microsoft Word	. 3
182	Introduction to Microsoft Excel	. 2
190	Spreadsheets 1	. 3
161	Business Calculators*	. 2
	110 181 182 190	101 Basic Keyboarding

Option 2: Accounting Principles Proficiency (20 credits)

ACCT	105	Introduction to Accounting* 5
ACCT&	201	Prin of Accounting I5
ACCT&	202	Prin of Accounting II5
ACCT&	203	Prin of Accounting III5

Option 3: Computerized Accounting Applications (5 credits)

ACCT	260	Computer Accounting	3
		Introduction to QuickBooks	

Option 4: Business Communications (19 credits)

BUS	120	Human Relations on the Job**	4
BUS	121	Business English**	5
BUS	122	Business Communications	5
CMST&	220	Public Speaking **	5
*TL	. D		

^{*}Tech Prep credits available

will earn a Certificate of Achievement:

ACCT

^{*}TechPrep credit available

^{**}Related instruction requirement for AAS degree and Certificate of Achievement

^{**}Meets the related instruction requirement for AAS degree

Remaining Program Courses to receive Associate in Applied Science Degree

BIM	109	Internet Communications 1	
BIM	183	Intro to MS Office: Access* 1	
BUS&	101	Intro to Business5	
BUS	102	Business Mathematics***5	
BUS	170	Consumer Finance5	
BUS&	201	Business Law5	
BUS	233	Introduction to Payroll Taxes2	
ECON	200	Introduction to Economics5	
FAD	150	Industrial First Aid**2	
		Total remaining program credits: 31	

^{*}Tech Prep credit available

Agriculture

Landra Kosa

509.793.2117

email: Agriculture@bigbend.edu

The Agriculture department offers two main pathways for students pursuing a degree in agriculture. The transfer pathway, Associate in Applied Science- Transfer degree (AAS-T), allows students to seamlessly transfer to Washington State University and earn a Bachelor's degree in agriculture. While an Associate in Applied Science (AAS) Agriculture Technology degree, prepares students for a direct route to start their career in the agricultural industry.

Associate in Applied Science-Transfer degree

This degree is designed to give students a strong foundation in agricultural fields and aligns with specific WSU majors within the Integrated Plant Sciences and Agricultural Food Systems degrees. Students completing this degree will be prepared to begin upper division course work at Washington State University. Big Bend Community College and Washington State University have Customized Articulation Agreements in place which allows for a more efficient path to graduation and is intended to eliminate the duplication of the course work. Contact the department advisor Landra Kosa 793.2117 or landrak@bigbend.edu for specific information and articulation agreement options.

in six quarters.

Required Courses (57 credits)

AGR	101	Orient. to Ag Ind. & Careers	2
AGR	261	Plant Science	.5
AGR	263	Soils	.5
ANTH&	100	Survey of Anthropology	.5
ART&	100	Art Appreciation	.5
BIOL&	100	Survey of Biology*	5
BOT	130	Botany	5
CHEM&	161	General Chem w/Lab I	.5
CHEM&	162	General Chem w/Lab II	.5

	201 116 100 o	General Chem w/Lab III
	Relat	ed Instruction (20-22 Credits)
CMST&	220	Public Speaking5
ENGL&		English Composition 15
FAD	150	-
MATH&	146	Introduction to Statistics5
PSYC&	101	General Psychology or
SOC&	100	Introduction to Sociology5
	A	AGR Electives (20 Credits)
AGR	212	Ag Safety & Pesticides5
AGR	241	Farm & Ranch Management5
AGR	251	Ecologically Based Pest Mgmt5
AGR	271	Agricultural Sales & Marketing5
AGR	272	Sustainable Ag & Food Systems5
AGR	295	Work-Based Learning1-6
AGR	297	Work-Based Learning1
		Total Credits: 99

Associate in Applied Science Agriculture **Technology Professional/ Technical Program Non-Transfer Option**

Related instruction required for an Associate in Applied Science Degree:

BUS	120	Human Relations on the Job
CMST	100	Human Communications
ENGL	109	Applied Technical Writing
FAD	150	Industrial First Aid
MAP	103	Applied Mathematics

First Year Fall Quarter

BUS IST IST	102	Human Relations on the Job Technical Drawing Basic Electricity DC Circuit	3
MAP	103	Applied Mathematics**	5
		Winter Quarter	
ACCT	105	Intro to Accounting	5
CMST	100	Human Communications	4
ENGL	109	Applied Technical Writing	3
IST	106	Basic Electricity AC Circuit	5
		Spring Quarter	
BIM	108	Intro to MS Computer Apps	3
BIOL	100	Survey of Biology	5
FAD	150	Industrial First Aid	2
WLD	111	Welding Process	6

^{**}Meets the related instruction requirement for AAS degree

Second Year Fall Quarter

AGR AGR BIM		Intro to GPS/Guidance Systems I		
Winter Quarter				
AGR	131	GPS/Guidance systems II5		
AGR	263	Soils5		
IST	141	Intro to Mech Irrigations Apps 5		
	Spring Quarter			
AGR	271	Ag Sales and Marketing5		
IST	142	Mech Irrigations Apps II5		
WLD	112	Thermal Cutting & Welding 3		
		Total Credits: 92		

Certificate of Achievement Agriculture GPS/Guidance Systems

Fall Quarter

BIM	110	Intro to MS Apps 3		
BUS	120	Human Relations on the Job4		
FAD	150	Industrial First Aid/CPR2		
IST	105	Basic Electricity DC Circuit5		
MAP	103	Applied Mathematics5		
Winter Quarter				
AGR	130	Intro to GPS/ Guidance Systems I 5		
ENGL	109	Applied Technical Writing 3		
IST	106	Basic Electricity AC Circuit5		
IST	141	Intro to Mech Irrigations Apps I5		
	Spring Quarter			
AGR	131	GPS/Guidance Systems II5		
BIM	183	Intro to MS Access 3		
IST	142	Mech Irrigations Apps II5		
CMST	100	Human Communications4		
		Total Credits 54		

^{*}Tech Prep credit available

Anthropology

email: chrisr@bigbend.edu

Associate in Arts and Science Transfer Option

Anthropology is the study of humankind. This broad field includes the study of human biological origins, evolution, diversity, and nature, as well as the study of the origin, evolution, diversity, and nature of human cultural and social life. Anthropology represents an attempt to grasp and celebrate the whole context of human experience, including all people, from all cultures, across all time. Among the career possibilities in anthropology are: archaeology, education, social work, Foreign Service, and governmental agency work.

Since programs differ at each college, students should consult program outlines published by the college or

university to which they intend to transfer. The following recommended courses prepare students for most baccalaureate institutions. Students should prepare their quarterly schedules with the assistance of an advisor knowledgeable in this transfer area.

Recommended Pre-Major Courses Credits

ANTH&	100	Survey of Anthropology	5
PSYC&	100	General Psychology	5
SOC&	101	Intro to Sociology	5
BIOL&	100	Survey of Biology	5
GEOL&	101	Intro Physical Geology	5
HIST&	116	Western Civilization I	5
REL	201	World Religions	5
SOC&	201	Social Problems	5
SOC	220	Marriage and the Family	5

Art

Rie Palkovic

509.793.2276

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Associate in Arts and Science Transfer Option

Art is a human expression. In the art department, the studio method of learning emphasizes the development of individual creativity and technical competence. The department's objective is the achievement of a sense of involvement, integrity, and creativity by the student.

The department provides basic disciplines in the arts for art majors, other students, and citizens of the community. In developing each individual's talent and interests, equal emphasis is on mastery and the appreciation of all art forms. The curriculum probes aspects of visual communication, which focus the eye, mind, and hand in the technical and creative awareness the student needs to adequately prepare for his/her major area of study and for transfer to a four-year college or university.

A variety of art courses are offered for the student and the community. The art student may select from such fields as art education, two and three-dimensional design, drawing, painting or ceramic art.

Since programs differ at each college, students should consult program outlines published by the college or university to which they intend to transfer. The following recommended courses prepare students for most baccalaureate institutions. Students should prepare their quarterly schedules with the assistance of an advisor knowledgeable in this transfer area.

Recommer	Credits		
ART 1	01	Design I	5
ART 1	02	Design II	5
ART 1	03	Design III	5
ART 1	04	Drawing I	5
ART 1	05	Drawing II	5
ART 1	06	Drawing III	5

^{**}Related instruction required for an AAS degree

Recommended Art Electives 12 credits of the following courses

ART	121	Ceramics I	2-5
ART	122	Ceramics II	2-5
ART	123	Ceramics III	2-5
ART	221	Watercolor I	1-5
ART	222	Watercolor II	1-5
ART	223	Watercolor III	1-5
ART	231	Oil Painting I	5
ART	232	Oil Painting II	5
ART	233	Oil Painting III	5

Automotive Technology

 Richard Wynder
 509.793.2255

 John Martin
 509.793.2256

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Associate in Applied Science Workforce Education Program (137 credits)

The Automotive Technology Program at BBCC is recognized by the National Automotive Technicians Education Foundation (NATEF) an affiliate of the National Institute for Automotive Service Excellence (ASE) as meeting the training program standards. This ASE certification is a nationally recognized standard for automotive service technician training programs. This certification signifies that the program meets uniform standards for instruction, facilities, equipment, staff credentials, and curriculum.

The Automotive Technology program is two years (six quarters) in length and is designed to develop entry level employment skills for those seeking career opportunities in the automotive repair field. As long as there are vehicles on the road, there will always be a need for highly skilled automotive technicians to maintain, service and repair them. According to Washington State labor market information, over 2,500 annual job openings are projected in automotive related industries. A student in the BBCC automotive program receives training in all eight ASE Certification areas. Modern repair and diagnostic test equipment is used in training the student to accurately repair the complex vehicles of today. The curriculum also includes shop safety and environmental training, Industrial First Aid Certification, EPA Freon Certification, basic welding skills, hydraulics, as well as degree required general education classes.

Graduates of the Automotive Technology program obtain employment as automotive repair technicians and in related occupations such as automotive parts merchandising, alignment, tire service, and fleet maintenance. The agricultural equipment service and repair industry also provides employment opportunities for our graduates. A high-tech career in automotive technology gives a person job mobility with the security of knowing that his/her skills will always be in demand.

The following program outline is a suggested two-year

(six-quarter) sequence of courses for this area of study. Any applicant who is 18 years of age or older or is a graduate of an accredited high school or has an equivalent certificate (GED) or is a qualified Running Start student is eligible for entry into the Automotive Technology program. Applications for admittance are accepted throughout the year. Students normally begin the program in the fall quarter, but may start in the winter or spring quarters. Advanced standing may be requested for prior education or experience.

Related instruction required for an Associate in Applied Science degree

		_
BUS	120	Human Relations on the Job
CMST	100	Human Communications
ENGL	109	Applied Technical Writing
FAD	150	Industrial First Aid
MAP	101	Applied Mathematics (AUT/WLD)

First Year Fall Quarter

	raii Quarter			
AUT	111	Automotive Engine Service9		
AUT	115	· ·-··-, -· · · · · · · · · · · · · · ·		
		Environmental Issues1		
AUT	131	Manual Drive Train and Axles 8		
AUT	190	Projects Lab *2		
MAP	101	Applied Mathematics (AUT/WLD)** 5		
		Winter Quarter		
AUT	121	Automotive Electrical &		
		Electronic Systems 15		
AUT	132	Hydraulic Systems3		
AUT	190	Projects Lab*2		
WLD	101	Oxy-Acetylene Welding for		
		Auto Technicians2		
WLD	102	ARC/GMAW Welding for Auto		
		Technicians2		
		Spring Quarter		
AUT	105	Automotive Personal Computer		
		Applications2		
AUT	124	Brake System Service9		
AUT	125	Suspension, Steering & Alignment9		
AUT	190	Projects Lab*2		
**Related instruction required for an AAS degree				
*May	*May be repeated for up to six credits for each course			

Second Year Fall Quarter

AUT	220	Engine Performance	18
AUT	290	Advanced Projects Lab*	2
ENGL	109	Applied Technical Writing**	3

Winter Quarter			
AUT	212	Automatic Transmission Repair	9
AUT	213	Automotive Servicing I	6
AUT	290	Advanced Projects Lab*	2
CMST	100	Human Communications**	4
		Spring Quarter	
AUT	211	Automobile Convenience Systems	2
AUT	223	Automotive Servicing II	6
AUT	231	Automotive Heating and	
		Air Conditioning	6
AUT		Advanced Projects Lab*	
BUS	120	Human Relations on the Job**	4
FAD	150	Industrial First Aid**	2
**Re	lated i	nstruction required for an AAS degree	
*May	be re	peated for up to six credits for each course	

Certificate of Accomplishment

Students not desiring a degree but who are interested in training and instruction in specialized areas may be awarded Certificates of Accomplishment. Certificates of Accomplishment correspond with the eight ASE/NATEF certification areas and are available as follows:

NOTE: Students desiring Certificates of Accomplishment in more than one area need to take AUT 115, Automotive Shop Safety and Environmental Issues, only one time.

Automatic Transmission & Transaxle Repair (10 credits)

		Repair (10 credits)		
AUT	115	Automotive Shop Safety and		
		Environmental1		
AUT	212	Automatic Transmission Repair 9		
	A	utomotive Heating and Air		
		Conditioning (6 credits)		
AUT	231	Automotive Heating and		
		Air Conditioning6		
	ı	Brake Repair (10 credits)		
AUT	115	Automotive Shop Safety and		
		Environmental Issues1		
AUT	124	Brake System Service9		
	Electrical/Electronic Systems			
(16 credits)				
AUT	115	Automotive Shop Safety and		
		Environmental Issues1		
AUT	121	Automotive Electrical and		
		Electronic Systems		
	Eng	ine Performance (19 credits)		
AUT	115	Automotive Shop Safety and		
		Environmental Issues1		
AUT	220	Engine Performance 18		

		ingine Repair (10 credits)
AUT	111	Automotive Engine Service9
AUT		Automotive Shop Safety and
		Environmental Issues
	М	anual Drive Train and Axle
		(9 credits)
AUT	115	Automotive Shop Safety and
		Environmental Issues1
AUT	131	Manual Drive Train and Axles 8
	_	

Engine Dengir (10 gradita)

Suspension and Steering (10 credits)

AUT	115	Automotive Shop Safety and	
		Environmental Issues1	
AUT	125	Suspension, Steering and Alignment 9	

Aviation (Commercial Pilot)

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John-Marc Swedburg II 509.793.2247
Chief Flight Instructor

 Benjamin Altrogge
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The Commercial Pilot Training program combines course work in flight training along with other ground school courses to prepare students for obtaining a commercial pilot certificate with instrument rating. To meet these requirements, most students require more than six quarters to complete the training. Because of this need, classes are scheduled each summer quarter. Additional ratings for flight instructor, instrument flight instructor, multi-engine, and seaplane may be earned through special arrangements (usually the eighth quarter).

Special departmental rules and procedures stated in the BBCC Professional Pilot Course Handbook apply to this program.

Students desiring admission into the Commercial Pilot Training Program must meet appropriate admission requirements stated in section 1.1 of the BBCC Professional Pilot Course Handbook. Contact the Aviation Department 509.793.2241 or Admissions 509.793.2061 or aviation@bigbend.edu for specific admission requirements.

If some of the basic education requirements have pre-approved substitutions, and all course requirements are met, it is possible for the commercial pilot student to receive both the AA&S and the AAS degrees during the two year program.

Associate in Arts and Science Transfer Option

Because most airlines and major corporations give hiring preference to pilots with a 4 year degree, most aviation students choose to obtain a two-year (DTA) transfer

degree in order to complete their Bachelors' degree. This gives BBCC flight students more options and the flexibility to choose from a broader list of academic subjects in which to major. Flight students choosing this degree option will have to take more credit hours to graduate than other non-flight students. The typical instruction required for a flight student to receive an Associate in Arts and Science (DTA) degree is listed below.

		uirements	Credits
		1	
or	SILIU	2	3
	sh 23	5	5
		r Quantitative Reasoning	
,		3	
		equirements	50
		ties(minimum 15	
		Science(minimum 15	
		cience(minimum 15	
AVF	113	Meteorology	5
III. Spec	ified	Electives	10
•		ducation	3
V. Gene			46-49
			Credits
AVF	111	Preflight Ground School	1
AVF	112	Private Pilot Ground School	5
AVF	114	Theory of Flight	5
AVF	117	Aviation Emergency Preparedne	ss 1
	or		
	_	nt Physiology*	
AVF	141	Private Pilot Flight (Stage 1)	4
AVF	142	Private Pilot Flight (Stage 2)	
AVF	143	Private Pilot Flight (Stage 3)	
AVF	221	Commercial Pilot Ground School	
AVF	223	Instrument Ground School	
AVF	251	Commercial Pilot Flight (Stage 4	
AVF	252	Commercial Pilot Flight (Stage 5) 4
AVF	253	Commercial Pilot Flight (Stage 7) 4
AVF	254	Night Flying	1
AVF	261	Instrument Flight (Stage 6)	4
* Off	ered th	rough CWU at BBCC	

Associate in Applied Science Workforce Education Program (90 credits)

BBCC offers a two-year Professional/Technical program in aviation for students who wish to prepare for a career as a commercial pilot and not transfer to a four-year college. Students are required to take all the courses listed below plus any electives necessary to meet quarterly and program credit totals. See the Associate in Applied Science section under Degrees and Certificates for substitutions if you desire both the AA&S and the AAS degrees.

Related instruction required for an Associate in Applied Science degree**

Credits

BUS CMST	120 100	Human Relations on the Job
	or	
AVF	225	Effective Comm. in Flight Instruction 5
ENGL	109	Applied Technical Writing3
FAD	150	Industrial First Aid2
MAP	104	Applied Mathematics (AVF)3
		Credits
AVF	111	Preflight Ground School1
AVF	112	Private Pilot Ground School5
AVF	113	Meteorology5
AVF	114	Theory of Flight5
AVF	117	Aviation Emergency Preparedness 1
	or	
	Fligh	t Physiology*3
AVF	141	Private Pilot Flight (Stage 1) 4
AVF	142	Private Pilot Flight (Stage 2)4
AVF	143	Private Pilot Flight (Stage 3)4
AVF	221	Commercial Pilot Ground School5
AVF	223	Instrument Ground School5
AVF	251	Commercial Pilot Flight (Stage 4) 4
AVF	252	Commercial Pilot Flight (Stage 5) 4
AVF	253	Commercial Pilot Flight (Stage 7) 4
AVF	254	Night Flying 1
AVF	261	Instrument Flight (Stage 6) 4
		tives**20-23
* Offe	ered th	rough CWU at BBCC

NOTE: AVF 141, 142, 143, 251, 252, 253, 254, 261 must be taken to complete the flight laboratory portion of the program.

Certificates of Achievement - Commercial Pilot (67 credits)

The Certificate of Achievement is designed to provide recognition for the student who does not plan to complete an Associate in Applied Science degree program. This certificate includes related instruction (listed below) and a minimum of 51 credits in the program.

	Credits
BUS 120	Human Relations on the Job4
CMST 100	Human Communications4
or	
AVF 225	Effective Comm. In Flight Instruction 5
ENGL 109	Applied Technical Writing3
FAD 150	Industrial First Aid2
MAP 104	Applied Mathematics (AVF)3
Plus 51 AVF C	redits listed previously, AVF 111- AVF 261

^{**}To meet AA&S degree requirements, see advisor for substitute courses.

Certificates of Accomplishment

Students who are interested in training in specialized areas of flight will be awarded Certificates of Accomplishment as follows:

	Aircraft Solo (5 credits)		
111	Pre-flight Ground School	Credits 1	
	Private Pilot Flight (Stage 1)		
Private Pilot License (18 credits)			
		Credits	

Credits

AVF	112	Private Pilot Ground School5
AVF	113	Meteorology5
AVF		Private Pilot Flight (Stage 2)4
AVF		Private Pilot Flight (Stage 3)4
Commercial Pilot (23 credits)		

		Orcaits
AVF	114	Theory of Flight5
AVF	221	Commercial Pilot Ground School5
AVF	251	Commercial Pilot Flight (Stage 4) 4
AVF	252	Commercial Pilot Flight (Stage 5) 4
AVF	253	Commercial Pilot Flight (Stage 7) 4
AVF	254	Night Flying1

		Credits
AVF	223	Instrument Ground School5
AVF	261	Instrument Flight Instruction (Stage 6) 4

Instrument Pilot (9 credits)

	3	Credits
AVF	225	Effective Communication in
		Flight Instruction5
AVF	270	Flight Instructor 4

Flight Instructor (CFI) (9 credits)

		, , ,	Credits
Fligh	nt Inst	ructor Instrument (CFII) (2 credits)
AVF	270	Flight Instructor	4
		Flight Instruction	5

AVF	271	Flight Instructor Instrument Airplane 2
		Sea Plane (2 credits)
AVF	272	Sea Plane Flight2

	Credits	;
AVF	275 Multi-Engine Flight2	

Multi-Engine (2 credits)

	Si	mulator Training (1 credit)	
			Credits
AVF	276	Simulator Training /Instrument	
		Training	1

Multi-Engine Instructor (MEI) (2 credits)

AVF	291 Multi-Engine Instructor	2
	A.T.P.: Multi-Engine (1 cred	
		Credits
AVF	292 A.T.P.: Multi-Engine	1

VA IHL Flight Program Fixed Wing

Current hourly prices for aircraft:

Aircraft	Solo	Dual
Beechcraft B-19	\$127	\$181
Beechcraft C-23	\$146	\$200
Piper Warrior	\$135	\$189
Bellanca Citabria	\$127	\$181
Beechcraft F-33A Bonanza	\$218	\$272
Cessna C-180 Floatplane	\$189	\$243
Piper PA-44 Seminole	\$278	\$332
Frasca Simulator	n/a	\$78

Minimum and average hours by course/rating:

	TCO	Student
	Cumulative	Average to
	Minimums	Complete
Private	66	100
Instrument	34	51
Commercial	95	99

Minimum and average hours by stage:

	TCO	Calculated	Student
	Cumulative	Minimums by	Average to
	Minimums	Stage	Complete
Stage 1	X	35 hours	29
Stage 2	35	between	43
		Stage 1 & 2	
Stage 3	66	31	28
Stage 4	100	34	33
Stage 5	133	33	40
Stage 6	167	34	51
Stage 7	195	28	26

Aviation Maintenance Technology

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Dan Moore	509.793.2254

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Associate in Applied Science

Workforce Education Program (134 credits)

The Aviation Maintenance Technology program at BBCC is designed to prepare students for FAA air-

AVF

AVF

frame and powerplant maintenance certification and for employment in aviation maintenance careers. Courses offer quality training to serious and motivated students through a structured competency-based curriculum provided by industry experienced instructors. Instruction includes the basics of maintenance, servicing, inspection, repair, troubleshooting, and overhaul of aircraft airframes, powerplants, and their related systems and components associated with general and commercial aviation in the proper environment in which students may become professional aviation maintenance technicians.

International students must take degree requirement academic courses during their first quarter of enrollment at BBCC. The international student advisor will place new students in the appropriate classes.

Hours of instruction required by FAA regulation, FAR part 147, Par. 147.21 (b), will be at least:

- 1. Airframe 1150 hours (400 general plus 750 airframe)
- 2. Powerplant 1150 hours (400 general plus 750 powerplant)
- Combined Airframe and Powerplant 1900 hours (400 hours general plus 750 hours airframe and 750 hours powerplant)

Students are required to furnish their own hand tools and purchase their own texts; estimated cost of tools and books is between \$1,500 to \$2,500.

Note: All aviation courses are subject to change as required by the Federal Aviation Administration. BBCC courses and programs are suggested curricula to meet the current FAA rules and regulations.

Related instruction required for an Associate in Science Degree and Certificate of Achievement

Credits

BUS	120	Human Relations on the Job**#	4
CMST	100	Human Communications**#	4
ENGL	109	Applied Technical Writing**#	3
FAD	150	Industrial First Aid**#	2
MAP	100	Applied Mathematics (AMT)**#	2
**	Related	d instruction requirement for AAS degre	ee and
Cei	rtificate	of Achievement	

These related instruction courses required for the AAS degree are in addition to the FAA approved curricula.

	Credits
AMT General Electricity+	2-7
AMT Airframe Electricity+	3
AMT General+	4-16
Airframe Mechanics I +	4-22
Airframe Mechanics II +	4-21
Airframe Mechanics III+~	4-24
AMT Powerplant Electricity+	2
Powerplant Mechanics I+	4-16
Powerplant Mechanics II +	4-14
Powerplant Mechanics III+	4-16
	AMT General Electricity+

AMT	254	Powerplant Mechanics IV+~4-16
WLD	103	Beginning AMT Welding+2

- ** Related instruction requirement for AAS degree and Certificate of Achievement
- + Approved by FAA
- ~ Required only if students need more time to achieve FAA required proficiency levels.

Certificates of Achievement

The Certificate of Achievement is designed to provide recognition for the student who does not plan to complete an AAS degree program. These certificates include related instruction (listed below) and a minimum of 45 credits in the program.

Airframe Maintenance Technician (63 credits)

Cradita

			Credits
AMT	149	AMT Airframe Electricity+	3
AMT	151	Airframe Mechanics I +	22
AMT	152	Airframe Mechanics II +	21
BUS	120	Human Relations on the Job**	4
CMST	100	Human Communications**	4
ENGL	109	Applied Technical Writing**	3
FAD	150	Industrial First Aid**	2
MAP	100	Applied Mathematics (AMT)**+	2
WLD	103	Beginning AMT Welding+	2
**	Related	d instruction requirement for AAS dequ	ree and

** Related instruction requirement for AAS degree and Certificate of Achievement

+ Approved by FAA

Powerplant Maintenance Technician (63 credits)

			Creaits
AMT	249	AMT Powerplant Electricity+	2
AMT	251	Powerplant Mechanics I+	16
AMT	252	Powerplant Mechanics II +	14
AMT	253	Powerplant Mechanics III+	16
BUS	120	Human Relations on the Job**	4
CMST	100	Human Communications**	4
ENGL	109	Applied Technical Writing**	3
FAD	150	Industrial First Aid**	2
MAP	100	Applied Mathematics (AMT)**+	2
alcal.			

- ** Related instruction requirement for AAS degree and Certificate of Achievement
- + Approved by FAA

Certificate of Accomplishment

The Certificate of Accomplishment is designed to provide recognition of completion of certain approved courses or small modules of courses offered through a particular technical program. This certification is designed for the occasional and or part time student that does not plan to complete an AAS degree or a Certificate of Achievement.

BBCC upon request by application, may issue Certificates of Accomplishment upon successful completion of the following approved modules with an earned minimum grade of 2.0 for each course.

Aviation Maintenance - General (25 credits)

Aviatio	n Ma	aintenance – General (25 cre	dits)
			Credits
		AMT General Electricity+	
		AMT General+	
		Applied Mathematics**+	
** Rela	ated i Sciei	nstruction requirement for Associate nce degree and Certificate of Achieve	IN ement
, tppou	00.0.	nee degree and deramedte ervierner	
Α	irfra	me Mechanic I (25 credits)	
			Credits
		AMT Airframe Electricity+	
AMT 1	51 <i>A</i>	AMT 151 Airframe Mechanic I+	22
A	irfra	me Mechanic II (23 credits)	
			Credits
		Airframe Mechanic II+	
WLD 1	03 E	Beginning AMT Welding+	2
Po	weri	plant Mechanic I (16 credits)	ı
. •			Credits
AMT 2	51 <i>A</i>	AMT Powerplant Mechanic I+	
		·	
Pov	werp	plant Mechanic II (16 credits	
			Credits
		AMT Powerplant Electricity+ AMT Powerplant Mechanic II+	
AIVII Z	JZ F	AMI FOWEIPIAIII MECHAIIIC II+	14
Pov	werp	lant Mechanic III (16 credits)
			Credits
AMT 2	53 <i>F</i>	AMT Powerplant Mechanic III+	16
	(Composite Technician	
(ficate of Accomplishment	
		(33 Credits)	
		1st Quarter	
			Credits
AMT 1	50 A	AMT General Electricity+	
MAP 1	00 A	Applied Mathematics**+	2
		2nd Quarter	
CPT 1:	20 (Composite Fabrication	4
		Composite Assembly	
		Composite Repair	
CPT 1		Special Projects	

Students may be eligible to take the FAA written, oral, and practical examinations after successful completion of the general curriculum and the airframe or powerplant curriculum.

- + Approved by FAA
- Required only if students need more time to achieve FAA required proficiency levels.

Biological Sciences and Related Pre-Professional Studies

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Mariah Whitney 509-.793.xxxx

email: mariahw@bigbend.edu

Associate in Science Degree

The purpose of the degree is to allow the student who plans to complete a Bachelor of Science degree in biology (as well as other sciences), the opportunity to make substantial progress toward fulfilling major requirements while completing at least half of the liberal arts, or general requirements, in studies such as English, the humanities and the social sciences. Ideally, the student holding the AS degree would have approximately three years of full-time study remaining at the baccalaureate institution—this reflects the nature of many bachelor of science degrees, which require extensive study and frequently take five full-time years or more to complete. If any pre-college study is required (generally, courses numbered below 100), additional time will be required.

The degree is accepted by many baccalaureate institutions in the state of Washington. The degree does not guarantee that any major requirements will be fulfilled. While BBCC faculty advisors consult with students to help them plan effectively, the ultimate responsibility to plan rests with the student. The college recommends that the student identify one or two potential baccalaureate institutions and then contact qualified program advisors at those institutions as early as possible to obtain specific, course-by-course advice. Throughout one's enrollment at BBCC, the program advisors at the baccalaureate institution should be consulted. A BBCC advisor or the office of admissions at the baccalaureate institution can help the student contact these advisors.

Associate in Arts and Science Transfer Option

A degree in biological sciences opens the door to a wide variety of choices—from the health sciences to environmental technology, from biomedical research to wildlife biology. The range of possibilities is limited only by a student's own interests, aptitudes, and imagination! The biology program provides courses to meet a variety of student needs.

Since programs differ at each college, students should consult program outlines published by the college or university to which they intend to transfer. The following recommended courses will prepare students for most baccalaureate institutions. Students should prepare their quarterly schedules with the assistance of an advisor knowledgeable in this transfer area. See below for recommended pre-major classes. Many courses have math, chemistry or biology prerequisites.

These courses are recommended for all areas of life science majors, including but not limited to: pre-dental, pre-medicine, pre-pharmacy, pre-veterinary, environmental science, forensic science and nutrition.

			Credits
BIOL&	221	Majors Ecology/Evolution	5
BIOL&	222	Majors Cell/Molecular+	5
BIOL&	223	Majors Organismal Phys	5
CHEM&	161	General Chem w/Lab I	5
CHEM&	162	General Chem w/Lab II	5
CHEM&	163	General Chem w/Lab III	5
MATH&	141	Precalculus I	5
MATH&	142	Precalculus II	5
MATH&	151	Calculus I	5
MATH&	152	Calculus II	5

Recommended Electives Depending on Specialty Area

Cradite

		Credits
241	Human A & P 1*~	5
242	Human A & P 2°~	5
260	Microbiology*~	5
130	Botany	5
140	Field Botany	5
146	Introduction to Statistics	5
163	Calculus 3	5
221	Engineering Physics I w/Lab	5
222	Engineering Physics II w/Lab	5
223	Engineering Physics III w/Lab	5
	242 260 130 140 146 163 221 222	 241 Human A & P 1*~ 242 Human A & P 2°~ 260 Microbiology*~ 130 Botany 140 Field Botany 146 Introduction to Statistics

Recommended Courses for Pre-Nursing and Allied Health Majors

			Credits
BIOL&	211	Majors Cellular>	5
	or		
BIOL&	222	Majors Cell/Molecular+	5
BIOL&	241	Human A & P 1*	5
BIOL&	242	Human A & P 2°	5
BIOL&	260	Microbiology*	5
CHEM&	121	Intro to Chemistry^	5
CHEM&	131	Intro to Organic/Biochem**	5
MATH&	146	Introduction to Statistics**	5

- + Successful completion of BIOL& 221 with a 2.0 or better and successful completion of either CHEM& 121 or CHEM& 161 with a 2.0 or better, or instructor's permission are required as prerequisites for BIOL& 222. Please note that students taking only BIOL& 222 as an alternative to BIOL& 211 must have instructor permission and may satisfy the CHEM& 121 prerequisite with recent high school chemistry with a B or better.
- >BIOL& 211 has a chemistry prerequisite that may be satisfied in one of two ways: A minimum grade of 2.0 in CHEM& 121 or a minimum grade of B in recent high school chemistry (taken within the last two years.) Prior high school biology is highly recommended.
- *Students may qualify for BIOL& 241 or 260 in any one of the following ways:

- a grade of 2.0 or better in BIOL& 211 or BIOL& 222 and in CHEM& 121 or above, or a transcript from another college for those classes
- a year of high school Anatomy & Physiology and Chemistry within the last 2 years with a grade of B or better
- a score of 3 or better in Advanced Placement Biology and a year of high school Chemistry within the last 2 years with a B or better.
- ~Depending upon which Pre-Med major a student chooses, they may be required to take Vertebrate A&P rather than Human A&P, separate Anatomy and Physiology courses rather than combined, or possibly 3 quarters rather than 2. Check with the college to which you intend to transfer.
- °BIOL& 242 prerequisite is a minimum grade of 2.0 in BIOL& 241 or equivalent.
- ^ CHEM& 121 has a prerequisite of Math 095.
- ** Required for students intending to complete a BSN degree.

For the Associate in Arts & Science DTA, see the catalog section "Degrees & Certificates"

Business Administration

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email: prestonw@bigbend.edu

Transfer Options

Students following this program of study may elect to enter one of several possible business career paths: management, marketing, advertising, retailing, finance, industrial relations, personnel management, or real estate. A business degree is an excellent springboard for earning advanced degrees in business administration and law. Those planning to enter the field of business administration should have above average reading, comprehension, and computational skills.

Students intending to transfer to a baccalaureate institution and major in Business Administration have two degree options: 1) the Business DTA or 2) the Arts and Science DTA. Completing all of the prescribed courses listed for the Business DTA will enable students to be major ready when they transfer to any public baccalaureate institution in the state of Washington. See the Degrees and Certificates section for more information concerning the Associate in Business DTA and the specific required classes for this degree.

Business students choosing to transfer with an Associate in Arts and Science degree DTA should consult program outlines published by the college or university to which they intend to transfer. However, the following recommended courses will prepare students for most baccalaureate institutions. Students should prepare their quarterly schedules with the assistance of an advisor knowledgeable in this transfer area.

Associate In Arts And Science – DTA Degree

Recomm	nende	ed Pre Major Courses	Credits
ACCT&	201	Prin of Accounting I	5
ACCT&	202	Prin of Accounting II	5
ACCT&	203	Prin of Accounting III	5
BIM	108	Introduction to Microsoft	
		Applications	3
BIM	124		
		Microsoft Excel	3
BUS&	101	Intro to Business	5
BUS&	201	Business Law	5
ECON&	201	Micro Economics	5
ECON&	202	Macro Economics	5
MATH&	146	Introduction to Statistics	5
MATH	147	Finite Mathematics	5
MATH&	148	Business Calculus	5

Recommended General Education Courses

			Credits
CMST&	220	Public Speaking	5
		English Composition I	
ENGL&	102	Composition II	5
		American Politics	
PSYC&	100	General Psychology	5

Business Information Management

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Ryan Duvall

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The Business Information Management program degrees and certificates outlined are suggested courses of study for students interested in pursuing careers in a business office environment. Students successfully completing a two-year degree program will earn an AAS degree. Students successfully completing a certificate option will earn a certificate. Ask your advisor for information about how to earn your AAS degree in six or fewer quarters.

Students who complete these program or certificate options may find employment as a customer service representative, a bank teller, a receptionist, an executive or medical secretary, a bookkeeper, an office assistant, an office specialist, or an administrative assistant in a wide variety of industries.

Students who successfully complete the AAS degree will hold MOS Certifications in Word and Excel. MOS Certifications are also available as elective credits for Access, PowerPoint, and Outlook. Prerequisite and requisite courses must be completed with a minimum of 2.0; each module of a class may be repeated only twice toward a Business Information Management degree or certificate.

Many courses are offered as competency-based, variable credit classes. Please refer to the description portion of the catalog to determine if the course is offered as competency-based, variable credit, or structured. Competency-based courses are designed to allow each student to work individually at his or her own pace to accomplish the required course objectives.

The following outlines indicate student options available to complete certificates or a two-year degree in the following areas:

- Administrative Professional Services
- Medical Office and Billing Support Services

Related instruction required for Associate in Applied Science degree and Certificate of Achievement

BUS	102	Business Mathematics
BUS	120	Human Relations on the Job
BUS	121	Business English
CMST	100	Human Communications
FAD	150	Industrial First Aid

ASSOCIATE IN APPLIED SCIENCE DEGREE Administrative Professional Services Option

This option emphasizes the need for quality customer service, human relations, communication, and technology skills in the office where employment opportunities increase significantly for those who have these essential skills and can assume responsibility and perform a variety of office functions.

			Credits
BIM	102	Document Formatting^	4
BIM	102	Document Formatting ^	4
BIM	103	The Administrative Professional	2
BIM	104	Intermediate Keyboarding	3
BIM	109	Internet Communications	1
BIM	112	Proof & Edit	3
BIM	130	Filing	2
BIM	180	Introduction to Microsoft Office^	5
BIM	262	Professional Preparation	3
BIM	280	Advanced Microsoft Office	5
BIM	285	MOS Prep & Certification [^]	2
BUS&	101	Introduction to Business	5
BUS	102	Business Mathematics**^	5
BUS	114	Business Ethics	5
BUS	120	Human Relations on the Job**	4
BUS	121	Business English+**	5
BUS	122	Business Communications	5
BUS	200	Supervision	5
BUS	215	Customer Service	3
CSS	102	Focus on Success	3
CMST	100	Human Communications**	4
FAD	150	Industrial First Aid**	2
Business	Infor	mation Management Electives	18+
		Total Cred	

Administrative Assistant		
		Administrative Assistant
BIM		Document Formatting^4
BIM	103	
BIM	104	, ,
BIM	109	Internet Communications 1
BIM	112	Proof & Edit3
BIM	130	Filing 2
BIM	180	Introduction to Microsoft Office^5
BIM	280	Advanced Microsoft Office5
BUS&	101	Intro to Business5
BUS	102	Business Mathematics**^5
BUS	114	Business Ethics 5
BUS	120	
BUS	121	
BUS	122	
BUS	215	
CSS	102	
CMST	100	
FAD	50	Industrial First Aid**
ואט	30	Total Credits: 66
		Total Credits. 00
	Cı	ustomer Service Associate
DIM		
BIM		Document Formatting^4
BIM	103	
BIM	104	, ,
BIM	109	
BIM	130	
BIM	180	Introduction to Microsoft Office^5
BUS&	101	Intro to Business5
BUS	102	Business Mathematics**^5
BUS	120	
BUS	121	
BUS	122	Business Communications 5
BUS	215	
CSS	102	Focus on Success3
CMST	100	Human Communications**4
FAD	150	Industrial First Aid**2
		Total Credits: 53
	_	
	Cei	rtificate of Accomplishment
		Office Assistant
BIM	102	Document Formatting^4
BIM	103	_
BIM	104	
BIM	109	, ,
BIM	130	
BIM	180	•
BUS	120	
BUS	121	
BUS	215	
CSS	102	Focus on Success
		Total Credits: 32

Certificate of Achievement

Office Clerk

BIM	102	Document Formatting^	4
BIM	103	The Administrative Professional	2
BIM	109	Internet Communications	1
BIM	130	Filing	2
BUS	120	Human Relations on the Job**	4
BUS	215	Customer Service	3
		Total Credits	: 16

Business Information Management Electives

		-	
ACCT	105	Introduction to Accounting^	. 5
BIM	106	Advanced Keyboarding	. 3
BIM	109	Internet Communications	. 1
BIM	173	Word Processing I [^]	. 5
BIM	190	Spreadsheets I	. 5
BIM	194	Presentations	
BIM	195	Database Management	. 5
BIM	210	Internet	. 2
BIM	220	Desktop Publishing	. 5
BIM	273	Word Processing II	. 5
BIM	290	Spreadsheets II	. 5
BUS	130	Introduction to Hospitality	5
BUS	161	Business Calculators [^]	. 2
BUS&	201	Business Law	. 5
CJ&	101	Intro Criminal Justice	. 5
CJ&	110	Criminal Law	. 5
PSYC&	204	Industrial/Organizational Psychology	. 5
*Electives may only be used toward one BIM degree			

Associate in Applied Science Degree Medical Office and Billing Support Services Option

Other classes may qualify; consult with your advisor

This option is designed for students who are interested in specializing in the medical office administration and billing. This degree consists of a combination of medical knowledge, accounting and business skills, and computer applications.

This option is designed for students who are interested in specializing in the medical office administration and billing. This degree consists of a combination of medical knowledge, accounting and business skills, and computer applications.

• •		•
Credits		
105 Introduction to Accounting^5	105	ACCT
102 Document Formatting^4	102	BIM
103 The Administrative Professional 2	103	BIM
104 Intermediate Keyboarding3	104	BIM
107 Intro to the Medical Office	107	BIM
109 Internet Communications 2	109	BIM
111 Intro to Computers in the Medical Office 3	111	BIM
112 Proof & Edit	112	BIM
117 Medical Office Accounts Receivable 4	117	BIM
130 Filing2	130	BIM
180 Introduction to Microsoft Office^5	180	BIM

BIM BIM BUS BUS BUS BUS BUS BUS CMST CSS FAD HED HED	262 280 285 102 120 121 122 161 200 215 100 102 150 151 239	Professional Preparation			
Business	sintor	mation Management Electives8+ Total Credits: 98+			
	_				
	Certificate of Achievement Medical Office Technician				
DIM					
BIM	102	Document Formatting^			
BIM BIM	103 104	The Administrative Professional			
BIM	104	Intermediate Keyboarding			
BIM	107	Internet Communications			
BIM	111	Intro to Computers in Medical Office 3			
BIM	130	Filing2			
BIM	180	Intro to Microsoft Office^5			
BUS	102	Business Math**^ 5			
BUS	120	Human Relations on the Job**4			
BUS	121	Business English+**5			
BUS	161	Business Calculators [^] 2			
BUS	215	Customer Service3			
CMST	100	Human Communications**4			
CSS	102	Focus on Success3			
FAD	150	Industrial First Aid**2			
HED	119	37			
HED	239				
		Total Credits: 58			
	Cer	rtificate of Accomplishment			
	M	edical Office Receptionist			
BIM	102	Document Formatting^4			
BIM	102	The Administrative Professional			
BIM	109	Internet Communications (1st Credit) 1			
BIM	111	Intro to Computers in Med Office 3			
BIM	130	Filing2			
BUS	120	Human Relations on the Job**4			
BUS	121	Business English+**5			
BUS	215	Customer Service3			
HED	119	Medical Terminology5			
HED	239	Medical Ethics			
		Intol Crodite: 21			

Certificate of Achievement

+Depending on a student's English placement, the following courses may be required prior to enrolling in BUS 121: ENGL 098 (5 credits) and/or ENGL 099 (5 credits)

^Tech Prep credit available

Manufacturing Clerk Certificate of Achievement (Logistics Tech) Skill Source* Contract Training

This program is a contract program with Skill Source. For advising contact Skill Source at 766-6315

The Manufacturing Clerk Certificate is designed to provide entry-level or career-changing workers with the knowledge, skills and abilities needed to provide clerical, logistic or recordkeeping support in manufacturing environments. This option will be offered off campus and will provide students with skills needed to be successful at Big Bend Community College and in their future careers.

			Credits
BIM	101	Basic Keyboarding (optional).	2 credits
BIM	104	Intermediate Keyboarding	3 credits
BIM	102	Document Formatting	4 credits
BUS	120	Human Relations on the Job	4 credits
CMST	100	Human Communications	4 credits
BIM	109	Internet Communications	1 credit
BIM	130	Filing	2 credits
BUS	102	Business Math	5 credits
BIM	180	Intro to Microsoft Office	5 credits
BUS	121	Business English	5 credits
IST	100	Intro to Industrial Health	
		and Safety**	3 credits
CSS	100	College Survival Skills	3 credits
BIM	182	Intro to Microsoft Excel	3 credits
BIM	106	Advanced Keyboarding	
		(optional)	
BUS	135	Logistics	3 credits
		Total Credits: 45	5-50 credits

^{*}SkillSource

Total Credits: 31

Chemistry

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Associate in Science Degree

The purpose of the degree is to allow the student who plans to complete a Bachelor of Science degree in chemistry, computer science, engineering, or physics the opportunity to make substantial progress toward fulfilling major requirements while completing at least half of the liberal arts, or general requirements, in studies such as English, the humanities and the social sciences. Ideally, the student holding the AS degree would have approximately three years of full-time study remaining

**Related instruction required for AAS degree and

^{**} IST 100 Introduction to Industrial Safety and Health

at the baccalaureate institution—this reflects the nature of many bachelor of science degrees, which require extensive study and frequently take five full-time years or more to complete. If any pre-college study is required (generally, courses numbered below 100), additional time will be required.

The degree is accepted by many baccalaureate institutions in the state of Washington. The degree does not guarantee that any major requirements will be fulfilled. While BBCC faculty advisors consult with students to help them plan effectively, the ultimate responsibility to plan rests with the student. The college recommends that the student identify one or two potential baccalaureate institutions and then contact qualified program advisors at those institutions as early as possible to obtain specific, course-by-course advice. Throughout one's enrollment at BBCC, the program advisors at the baccalaureate institutions should be consulted. A BBCC advisor or the office of admissions at the transfer institution can help the student to contact these advisors.

Associate in Arts and Science Transfer Option

Chemistry is a known as the central science because it is the study of the structure and behavior of all materials. This includes everything from the most infinitesimal particles to the vastness of the cosmos. A major in chemistry prepares students for career fields such as medicine, pharmacology, environmental science, engineering, education, ecology, or public service, and forensic science. The chemistry program provides courses to meet a variety of student needs. For science and engineering majors, up to one year of college transfer course work is available (General Chemistry). The following recommended courses prepare students for most baccalaureate institutions, but students should still consult the program guidelines from the university to which they intend to transfer to make sure the courses taken here are in alignment with the specific transfer program. Students should prepare their quarterly schedules with the assistance of an advisor knowledgeable in this transfer area.

Recommended Pre-Major Courses Cre			Credits
CHEM&	161	General Chem w/Lab I	5
CHEM&	162	General Chem w/Lab II	5
CHEM&	163	General Chem w/Lab III	5
MATH&	151	Calculus I	5
MATH&	152	Calculus II	5
MATH&	163	Calculus 3	5
MATH	220	Linear Algebra	5
MATH		Differential Equations	
MATH&	254	Calculus IV	5
PHYS&	221	Engineering Physics I w/Lab	5
PHYS&	222	Engineering Physics II w/Lab	5
PHYS&	223	Engineering Physics III w/Lab	5

Commercial Driver's License

Guillermo Garza 509.793.2221 email: guillermog@bigbend.edu Certificate of Accomplishment

The Certificate of Accomplishment is designed to provide recognition of completion of an approved course offered through a particular program. This certification is designed for the occasional and or part-time student that does not plan to complete an Associate in Applied Science degree or a Certificate of Achievement.

Required Course:

CDL 100 Commercial Driver's License17 credits

This six week course provides 80 hours of classroom study and 160 hours of driving instruction experience. Classes cover a variety of professional topics and prepare students for entry-level job opportunities. Classes include Class A license with no air brake restrictions and the endorsements for doubles and triples, tankers and hazardous material, defensive driving techniques, brake adjustment, equipment inspection, hazardous material transportation, DOT log books, trip planning, and other job related topics.

The CDL program prepares students for the CDL driving examination and entry-level employment. Regular attendance and punctuality are critical for successful completion.

To be eligible for admissions to the BBCC Commercial Driver's License program applicants must complete the following (and is recommended that items be completed in this order):

- Completed State of Washington Community and Technical College Application for Admission (Application for Admission BBCC).
- 2. Completed CDL Program Application.
- 3. Completed BBCC Class Registration Form.
- 4. Copy of a valid Washington State Driver's License and 5 years abstract of driving record.
- 5. Copy of the completed Department of Transportation (DOT) physical form and card..
- 6. Pay all tuition and fees at the time of registration, but no later than the first day of class.
- 7. A pre-enrollment controlled substances test is mandatory. The test will be taken at the start of the program no later than the 5th day of class. If the controlled substances test results are positive, the applicant will be expelled.

Contact the Financial Aid Office for eligibility for financial aid loans only. Also, dislocated or unemployed workers may be eligible for other funds.

Computer Science

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The Computer Science program offers industry recognized training that prepares students for high-demand careers in information and computer technology. Students can complete associate degrees, short-term certificates, or take courses for transfer to universities. Courses prepare students for rewarding IT careers including:

- Network Administrator
- Computer Support Specialist
- Software Developer/Programmer
- IT Manager
- Systems Administrator
- Web Developer
- · Database Administrator

Program prerequisites: Basic computer literacy, keyboarding, and familiarity with word processing and spreadsheet software; pre-college math and English courses may be required depending on student placement level.

Degree Options:

- Computer Science Pre-Major, Associate in Science and Associate in Arts & Science
- Software & Web Development, Associate in Applied Science and Associate in Applied Science-T
- Systems Administration, Associate in Applied Science and Associate in Applied Science-T

Certificate Options:

- Cisco Networking, Certificate of Achievement and Certificate of Accomplishment
- Computer Support Specialist, Certificate of Accomplishment
- Network Support Specialist, Certificate of Accomplishment
- Systems Administration, Certificate of Achievement
- Web Design & Development, Certificate of Achievement

Software & Web Development, Associate in Applied Science (AAS) and Associate in Applied Science-T (AAS-T)

Due to the rapidly growing need for computer software development and new applications for mobile technology, software and web developers are in high demand. The Software & Web Development program prepares students in current programming languages and the technical aspects of website creation. Students learn to design, code, test, and implement software and develop web and mobile applications in a variety of languages. They use web development software to integrate databases, create web applications, identify a site's users, and oversee its production and implementation.

Systems Administration, Associate in Applied Science (AAS) and Associate in Applied Science-T (AAS-T)

The Systems Administration program prepares students for careers in network systems and administration. Network administrators install and maintain computer workstations and server software, set up user accounts, maintain system resources and operations, perform troubleshooting, and manage system security. Students are trained in technical support of PC systems and in administration of Windows Server and Linux server-based operating systems. Students develop skills to:

- · Install, upgrade, and repair stand-alone computers
- Install, wire, configure, administer, maintain, and troubleshoot Local Area Networks
- Setup and configure network protocols
- Install, configure, maintain and troubleshoot routers and switches

The program prepares students to take industry certification exams in CompTIA A+, Network+, Microsoft Technology Associate (MTA), Microsoft Certified Solutions Associate (MCSA) and Cisco Certified Network Associate (CCENT and CCNA).

Computer Science Transfer

Students can choose from three associate degree transfer options. Students should prepare their quarterly schedules with the assistance of a BBCC advisor knowledgeable in the Computer Science transfer area. Since bachelor degree programs differ at each college, students should consult program outlines published by the college or university to which they intend to transfer. The college recommends that the student identify one or two potential baccalaureate institutions and then contact qualified program advisors at those institutions as early as possible to obtain specific, course-by-course advice.

Option 1: Associate in Arts and Science (AA&S) Direct Transfer Agreement (DTA)

The AA&S DTA degree is accepted by most baccalaureate institutions in the state of Washington. Within the AA&S degree's required basic, breadth, and elective requirements, Computer Science transfer students should choose as many of the recommended pre-major courses as possible. Some students may decide to complete the AA&S degree and transfer before completing all recommended computer science pre-major courses.

Option 2: Associate in Science Degree – Track 2 Transfer Option (AS-T)

The purpose of the AS-T degree is to allow the student who plans to complete a Bachelor of Science degree in computer science or computer engineering the opportunity to make substantial progress toward fulfilling premajor requirements in math and science, while completing at least half of the general requirements in English, the humanities and the social sciences. The degree is accepted by many baccalaureate institutions in the state of Washington.

Option 3: Associate in Applied Science-T (AAS-T)

Both the Software & Web Development and Systems Administration degrees include AAS-T transfer options. The AAS-T degree is built upon the technical courses required for job preparation but also includes 20 credits of college-level general education courses and additional transferable pre-major courses. Several four-year colleges in Washington State offer Bachelor of Applied Science degrees in Information Technology and accept BBCC's AAS-T degree for transfer. Students wishing to continue their education and earn a Bachelor's degree should see their Program Advisor for detailed information about BAS degree options.

COURSE REQUIREMENTS Software & Web Development, AAS and AAS-T Systems Administration, AAS and AAS-T

The following courses are required for the Software & Web Development and Systems Administration degrees. Students take 18-22 credits of related instruction courses, 29 credits of core technical courses, and 43-48 credits of concentration courses in their chosen degree.

Related	Related Instruction Courses Credits		
BUS	120	Human Relations on the Job	
	or		
PSYC&	100	General Psychology (AAS-T)	
	or		
SOC&		Intro to Sociology (AAS-T)	
CMST	100	Human Communications	
	or		
CMST&	220	Public Speaking (AAS-T)	4-5
ENGL	109	Technical Writing	
	or		
ENGL&	101	English Composition (AAS-T)	3-5
FAD	150	Industrial First Aid	2
MATH&	141	Precalculus I (AAS & AAS-T)	5
		Total Credits:	18-22

		10141 01041101 10 22		
Core Technical Courses				
CS	101	Intro to Computer Science 3		
CS	104	Intro to Computer Hardware3		
CS	105	Intro to Computer Operating Systems 3		
CS	111	Intro to Programming5		
CS	115	Intro to Database Design		
		& Management5		
CS&	131	Computer Science I: C++		

CS&	141	Computer Science I: Java5	
CS	289	Project Management for CS 5	
		Total Credits: 29	
Softwar	e & W	eb Development Concentration	
CS	136	Database Programming with SQL5	
CS	161	Intro to Website Design & Publishing 5	
CS	251	Programming with C#5	
CS	262	Programming Dynamic Websites5	
CS	265	Web Application Design	
		& Development5	
CS	270	Web Architecture & Client Services 5	
CS	271	Web Graphics5	
Approve	d Elec	ctives8-10	
		Concentration Total 43-45	
		Total Credits 90-96	
Systems Administration Concentration			

Systems	Adm	inistration Concentration
CS	106	Intro to Virtualization5
CS	110	Networking Fundamentals 3
CS	156	Cisco Networking: Intro to Networks 5
CS	157	Cisco Networking: Routing & Switching. 5
CS	158	Cisco Networking: Scaling Networks
	or	
	Elec	tive5
CS	159	Cisco Networking: Connecting Networks
	or	
	Elec	tive5
CS	205	Windows Server Administration 5
CS	206	Linux Server Administration 5
CS		Intro to Security Administration 5
		tive2-5
Concentration Total		
		Total Credits: 92-99

Recommended Computer Science Pre-Major Courses – AA&S DTA and AS-T

The following recommended courses prepare students for transfer to most baccalaureate institutions. Depending on their initial placement level students may need to take additional math courses, including pre-college level math and MATH& 141 and MATH& 142. In that case, the student may decide to transfer the AA&S DTA degree before completing all recommended pre-major courses and continue their bachelor's degree at the four-year college.

Credits
General Chem w/Lab I5
General Chem w/Lab II5
Computer Science I: C++
Computer Science I: Java5
Advanced Programming with C++

or

CS	142	Advanced Programming with Java 5
CS		Computer Science Elective5
MATH&	146	Intro to Statistics
		(depending on major)5
MATH&	151	Calculus I5
MATH&	152	Calculus II5
PHIL&	120	Symbolic Logic5
PHYS&	221	Engineering Physics I w/Lab (Compute
		Engineering majors)5
PHYS&	222	Engineering Physics II w/Lab
		(Computer Engineering majors)5
PHYS&	223	Engineering Physics III w/Lab
		(Computer Engineering majors)5

CERTIFICATE OPTIONS Cisco Networking, Certificate of Achievement

The Cisco Networking Academy prepares students to take the Cisco certification exams to become a Cisco Certified Network Associate (CCENT and CCNA). Certification validates the ability to install, configure, operate, and troubleshoot medium-size routed and switched networks, including implementation and verification of connections to remote sites in a WAN. Students complete related instruction courses and, if desired, can continue training and apply all earned certificate of achievement credits to the Associate in Applied Science degree.

		Credits
CS	101	Intro to Computer Science 3
CS	104	Intro to Computer Hardware 3
CS	105	Intro to Operating Systems 3
CS	156	Cisco Networking: Intro to Networks 5
CS	157	Cisco Networking: Routing
		& Switching5
CS	158	Cisco Networking: Scaling Networks 5
CS	159	Cisco Networking: Connecting
		Networks 5
BUS	120	Human Relations on the Job
	or	
PSYC&	100	General Psychology
	or	
SOC&	101	Intro to Sociology4-5
CMST	100	Human Communications
	or	
CMST&	220	Public Speaking4-5
ENGL	109	Technical Writing
	or	
ENGL&	101	English Composition I
FAD	150	Industrial First Aid2
MATH&	141	Pre-Calculus5
		TOTAL: 47-51

Cisco Networking Academy, Certificate of Accomplishment

This short term training option is designed for students seeking the Cisco CCENT and CCNA certifications. If desired, students can continue training and apply all earned credits to the Cisco Networking Academy Certificate of Achievement and Associate of Applied Science degree options.

	Creaits
CS 156 Cisco Networking: Intro to Ne	etworks 5
CS 157 Cisco Networking: Routing &	Switching 5
CS 158 Cisco Networking: Scaling N	etworks 5
CS 159 Cisco Networking: Connectir	ıg
Networks	5
	20 credits

Computer Support Specialist, Certificate of Accomplishment

Computer Support Specialists provide help and support to people and organizations using computer software or equipment. Some, called Help Desk Technicians, provide technical help to non-IT computer users. Students completing this short-term training option are prepared for entry level employment in the Information Technology (IT) industry. Students are prepared to take industry certification exams validating their skills. If desired, students can continue training and apply all earned credits to the Systems Administration Certificate of Achievement and Associate in Applied Science degree.

			Credits
CS	104	Intro to Computer Hardware	3
CS	105	Intro to Operating Systems	3
CS	110	Networking Fundamentals	3
CS	205	Windows Server Administration	5
CS	207	Intro to Security	5
CS		Elective	
			4 credits

Network Support Specialist, Certificate of Accomplishment

Network Support Specialists support IT employees within their organization. They typically test and evaluate existing network systems, perform regular maintenance to ensure that networks operate correctly, and trouble-shoot local area networks (LANs), wide area networks (WANs), and Internet systems. Students completing this short-term training option are prepared for entry level employment in the Information Technology (IT) industry. Students are prepared to take industry certification exams validating their skills. If desired, students can continue training and apply all earned credits to the Systems Administration Certificate of Achievement and Associate in Applied Science degree.

			Creaits
CS	104	Intro to Computer Hardware	3
CS	105	Intro to Operating Systems	3

CS 110	Networking Fundamentals 3
CS 156	Cisco Networking: Intro to Networks 5
CS 157	Cisco Networking: Routing & Switching 5
CS 205	Windows Server Administration 5
CS 206	Linux Server Administration
or	
CS Elec	tive 5
	29 credits

Systems Administration, Certificate of Achievement

This certificate prepares students to enter the work force as entry level computer technicians. The Certificate of Achievement is designed for students wishing to complete short-term (one-year) training. Students take related instruction courses in math, English, and communication and, if desired, can continue training and apply all earned credits to the Associate in Applied Science degree. Students gain the necessary skills to prepare for and take industry recognized computer certification exams in CompTIAA+, Microsoft MTA, and Cisco CCENT.

		Credits
CS	104	Intro to Computer Hardware 3
CS	105	Intro to Operating Systems 3
CS	110	Networking Fundamentals 3
CS	156	Cisco Networking: Intro to Networks 5
CS	157	Cisco Networking: Routing
		& Switching5
CS	205	Windows Server Administration 5
CS		Computer Science Elective5
BUS	120	Human Relations on the Job
	or	
PSYC&	100	General Psychology
	or	
SOC&	101	Intro to Sociology4-5
ENGL	109	Technical Writing
	or	
ENGL&	101	English Composition I3-5
CMST	100	Human Communications
	or	
CMST&	220	Public Speaking4-5
FAD	150	Industrial First Aid2
MATH&	141	Pre-Calculus5
		47-51 credits

WEB DEVELOPMENT AND DESIGN

Certificate of Achievement

The Web Development and Design Certificate of Achievement is a short-term (one year) training option for students enrolled in the Software & Web Development program. Students completing the certificate may enter the work force as entry level Web Page Developers or Computer Support Technicians. Classes provide training

in current Web development programming languages, Web page design, and essential communication, teamwork, and problem solving skills. Students complete related instruction courses and, if desired, can continue training and apply all earned Certificate of Achievement credits to the Associate in Applied Science degree.

		Credits
CS	104	Intro to Computer Hardware3
CS	105	•
CS	111	Intro to Programming5
CS	115	Intro to Database Design
		& Management5
CS	161	Intro to Website Design & Publishing 5
CS	265	Web Applications Design
		& Development5
CS	271	Web Graphics5
BUS	120	Human Relations on the Job
	or	
PSYC&	100	General Psychology
	or	
SOC&	101	Intro to Sociology4-5
CMST	100	Human Communications
	or	
CMST&	220	Public Speaking4-5
ENGL	109	Technical Writing
	or	
ENGL&	101	English Composition I
FAD	150	Industrial First Aid2
MATH&	141	Pre-Calculus5
		49-53 credits

Criminal Justice

Ryann Leonard

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email: crj@bigbend.edu

Criminal Justice is the scientific study of crime. This program is designed to broaden students' awareness of the extent and character of crime and the method our society uses to deal with criminals, including the social importance and legal responsibilities of law enforcement officers. This course of study is intended for individuals working in the field of law enforcement as well as for the student who will eventually transfer to a four-year college or university.

Since programs differ at each college, students who intend to transfer should consult program outlines in the catalog of the college or university, which they plan to attend. The following recommended courses prepare students for most baccalaureate institutions. Students should prepare their quarterly schedules with the assistance of an advisor knowledgeable in the transfer area.

Program prerequisite:

- Complete BBCC admissions process.
- · Complete English and math placement tests.

- Meet with the CJ program advisor to develop a professional development plan.
- Complete Math and English requirements within the first year, if possible.

Associate in Applied Science Professional Technical Program

The Criminal Justice Technical Program is designed to develop proficiencies and skills necessary to obtain entry-level employment in Criminal Justice related career paths. Job possibilities after completing this degree include but are not limited to entry-level police officer, corrections officer in a prison or jail, or other criminal justice job that requires a 2-year degree or less. This program assists the development of skills that employers are looking for and was specifically designed not to teach specific police or corrections tactics but to give a well-rounded foundation to any criminal justice related career.

Related Instruction Requirements (21-22 credits): MATH& 107 Math in Society5 or MATH& 146 Statistics......5 ENGL& CMST& 210 Interpersonal Communications 5 220 Public Speaking 5 CMST& 120 Human Relations on the Job...... 4 **BUS** PSYC& 100 General Psychology......5 150 Industrial First Aid (or current card)....... 2 FAD **Program Major Requirements (68 credits):** ENGL& PSYC& 200 Lifespan Psychology......5 201 Social Problems5 SOC& 101 Intro to Criminal Justice5 CJ& 110 Criminal Law 5 CJ& CJ 210 Introduction to American Policing......... 5 CJ 220 Introduction to Corrections......5 **PSYC** 225 Psychology and the Legal System....... 5 215 Criminal Investigations......5 CJ 217 Advanced Report Writing 3 CJ **HSEM** PHIL 210 Ethics for Criminal Justice......5 CJ 203 Leadership and Administration...... 5 CJ 209 Police Psychology......5

Total 89-90 credits Additional Degree Options:

CJ 295 Work-Based Learning (can repeat)(1 cr)
A variety of self-development activities are provided throughout this course to assist students in gaining employment after graduation. Activities include civil service examinations, both written and oral, ride-alongs, internships, oral board practice, and other exercises in professional conduct

CJ 198 Special Topics (may be repeated)......1-2

(Mini courses on drug recognition, mental health, crisis intervention, traffic investigations, terrorism, etc.)

Total 90 credits

*Any PEH course can be applied for up to a total of 3 PEH credits required for the degree.

Associate in Arts & Science DTA Degree

To earn the Associate in Arts and Science DTA egree, a student must:

- Satisfy the "General Requirements All BBCC Degrees."
- Complete at least 90 transferable credit hours in courses numbered 100 or above.
- Earn a grade of at least a 1.0 in each college level course used in the degree.
- Satisfy the following basic, breadth, physical education, and total credit minimums.

Since programs differ at each college, students should consider program outlines published by the college or university where the student plans to continue his/her course of study. The following recommended courses will prepare students for most senior institutions. Students should prepare their quarterly schedules with the assistance of an advisor knowledgeable in their transfer area.

Early Childhood Education

Jenny Nighswonger 509.793.2216 email: jennyn@bigbend.edu

The Early Childhood Education Program (ECE) offers certificates to meet the requirements of Steps 5, 6, 7 of Level 2 on the Washington State Career Lattice for Early Care and Education Professionals. Students can begin with coursework to obtain a State Initial Early Childhood Education Certificate (12 credits-Step 5). These same 12 credits apply toward the Short Certification in Early Childhood Education (20 credits-Step 6) The 20 credits from the Short Certificate of Specialization in Early Childhood Education apply toward the Certificate of Accomplishment-State Credential (47 credits-Step 7). The credits earned in the Certificate of Accomplishment-State Credential apply toward the 90 credit Associate of Applied Science in Early Childhood Education degree (Steps 8 & 9).

Many of the ECE courses are offered once a year, however, classes are offered in the evening and online to allow individuals to work and attend school. Some courses are offered as I-BEST (Integrated Basic Education and Skills Training) models to support students with basic skills, such as reading, writing and mathematics.

Program prerequisite:

- If applying for financial aid High school diploma or GED
- Students must be cleared through the National Sex Offender Registry system, pass a background check, provide results of a Tuberculin skin test and obtain liability insurance prior to registering for certain courses.

Recommendations:

- · Complete BBCC admissions process.
- Complete English and math placement assessments.
- Meet with the ECE program advisor to develop a professional development plan.
- Complete Math, English, CSS 104-Introduction to Computer Literacy, CMST& 220-Public Speaking, ECED& 105-Intro to Early Childhood Ed, EDUC& 115-Child Development within first year, if possible.

Child Development Associate (CDA)

This external credential is granted by and must be applied for through the CDA Council. In order to obtain the national credential, candidates are required to complete 120 hours (12 credits) of early childhood education training in specific areas. The ECE program was developed around the thirteen functional areas of the CDA. and coursework taken in the program satisfies the training requirements for the CDA. Recommended courses that address the functional areas of the CDA include: ECED& 105-Introduction to Early Childhood Ed, ECED& 107-Health/Safety /Nutrition, ECED& 120-Practicum: Nurturing Rel. Students who possess a current CDA and wish to pursue their AAS in ECE will be awarded 12 credits towards the 91-credit degree. For more information refer to the CDA Council's website: www.cdacouncil.org

State Initial Early Childhood Education Certificate

The coursework in the State Initial Early Childhood Education Certificate meets the requirements of Step 5 on the Career Lattice for Early Care and Education Professionals. Students who complete an Initial Certificate can use these 12 credits to apply for a CDA through the Council for Professional Recognition.

ECED&	105	Intro to Early Child Ed5	ĵ
ECED&	107	Health/Safety/Nutrition5	5
ECED&	120	Practicum: Nurturing Rel ^2	2
		Total Credits: 12	2

State Short Certificate of Specialization-General The coursework in the State Short Certificate of Specialization-General meets the requirements of Step 6 on the Career Lattice for Early Care and Education Professionals.

ECED&	105	Intro Early Child Ed	5
		Health/Safety/Nutrition	
ECED&	120	Practicum: Nurturing Rel ^	2
EDUC&	115	Child Development	5
EDUC&	130	Guiding Behavior	3
		Total Credits	

State Short Certificate of Specialization-Infants and Toddlers-

The coursework in the State Short Certificate of Specialization in Infants and Toddlers Care meets the requirements of Step 6 on the Career Lattice for Early Care and Education Professionals.

ECED&	105	Intro Early Child Ed	.5
ECED&	107	Health/Safety/ Nutrition	. 5
ECED&	120	Practicum: Nurturing Rel ^	. 2
ECED&	132	Infants/Toddlers Care	. 3
EDUC&	115	Child Development	. 5
		Total Credits:	

State Early Childhood Education Certificate

The coursework in the State Early Childhood Education Certificate meets the requirements of Step 7 on the Career Lattice for Early Care and Education Professionals. Students who complete State Early Childhood Education Certificate may work with children birth to age eight as in-home or center-based child care providers

Related Instruction Requirements:

		2011011 110 quii 0111011101	
ENGL&	101	English Composition I	5
CMST&	220	Public Speaking	5
MATH&	107	Math in Society	5
EDUC&	115	Child Development	5
		·	
Program	Majo	or Requirements:	
ECED&	105	Intro Early Child Ed	5
ECED&	107	Health/Safety/Nutrition	5
ECED&	120	Practicum: Nurturing Rel ^	2
ECED&		Curriculum Development	
ECED&	170	Environments-Young Child	3
ECED&	180	Lang/Literacy Development	3
ECED&		Observation/Assessment	
EDUC&	130	Guiding Behavior	3
EDUC&		Child/Family/Community	
		Total Credits:	

Associate in Applied Science Professional Technical Program

The coursework in the Associate in Applied Science in Early Childhood Education degree meets Level 3-Steps 8 & 9 on the Career Lattice. Students who complete the AAS in ECE may work with children birth to age eight as in-home or center-based child care providers, administrators, lead or assistant preschool teachers, or Paraeducators in public schools.

Associate in Applied Science Degree Related Instruction Requirements:

MATH&	107	Math in Society	. 5
ENGL&	101	English Composition I	. 5
CMST&	220	Public Speaking	. 5
PSYC&	100	General Psychology	. 5
FAD	150	Industrial First Aid	. 2
		(or current card)	
Program		or Requirements:	
ECED&	105	Intro Early Child Ed	. 5
ECED&		Health/Safety/Nutrition	
ECED&	120	Practicum: Nurturing Rel ^	. 2
ECED&	132	Infants/Toddlers Care	. 3
ECED&	160	Curriculum Development	. 5
ECED&	170	Environments-Young Child	. 3
ECED&	180	Lang/Literacy Development	. 3
ECED&	190	Observation/Assessment	. 3

Additional Degree Requirements:

EDUC

EDUC

Addition	iai Dc	gree Requirements.	
SOC&	101	Intro to Sociology	5
HUM	214	Diversity Issues	5
CSS	104	Introduction to Computer Literacy	3
		Total credits	- 91

EDUC& 115 Child Development......5

EDUC & 130 Guiding Behavior3

EDUC& 150 Child/Family/Community......3

190 Classroom Experience^{^*}......9

Program electives may include:

ECED&	100	Child Care Basics* 3	j
ECED&	139	Admin of Early Lrng Prog3	,
		Math & Science for Young Children 3	
EDUC	198	Special Topics*1-5	;
		Intro to Education5	

^{*}Tech Prep credit available

Transfer Degree Options:

Heritage University Articulation Agreement

Big Bend Community College and Heritage University developed an articulation agreement to transfer the Associate in Applied Science (AAS) in ECE degree from BBCC directly into the Bachelor of Arts in Early Child-

hood Studies program at Heritage University. If you are interested in this degree option, you will need to work closely with your BBCC Advisor and Heritage University, located in Toppenish. For more information, call (509) 865-8500, or visit Heritage University online at: www. heritage.edu.

Eastern Washington University Articulation Agreement

Big Bend Community College and Eastern Washington University developed an articulation agreement to transfer the Associate in Applied Science-Transfer (AAS-T) degree from BBCC directly into the Bachelor of Arts in Children's Studies program at EWU. If you are interested in this degree option, you will need to work closely with your BBCC Advisor and Eastern Washington University. For more information, call (509) 359-4817 or visit EWU online at: www.ewu.edu

Economics

email: Economics@bigbend.edu

Associate in Arts and Science Transfer Option

Students majoring in economics may elect to specialize in the following professional career areas: business, labor economics, money and banking, public finance, international trade, law, and economics education. Those planning to enter the field of economics should have above average reading, comprehension, and computational skills. Since programs differ at each college, students who intend to transfer should consult program outlines published by the college or university to which they intend to transfer. The following recommended courses prepare students for most baccalaureate institutions. Students should prepare their quarterly schedules with the assistance of an advisor knowledgeable in this transfer area.

Recommended Pre-Major Courses			Credits
ACCT&	201	Prin of Accounting I	5
ACCT&	202	Prin of Accounting II	5
ACCT&	203	Prin of Accounting III	5
BIM	108	Introduction to Applications/MS	3
BIM	124	Introduction to Spreadsheets w/N	
		Excel*	3
BUS&	101	Intro to Business	5
BUS&	201	Business Law	5
ECON&	201	Micro Economics	5
ECON&	202	Macro Economics	5
MATH&	146	Introduction to Statistics	5
MATH	147	Finite Mathematics	5
MATH&	148	Business Calculus	
Recomm	nende	ed General Education Courses	Credits

CMST& 220 Public Speaking5

[^] Requires background check, negative results of Tuberculin skin test, liability insurance and approval of program advisor or instructor if unmet prerequisite.

ENGL&	101	English Composition I	. 5
ENGL&	102	Composition II	. 5
POLS&	202	American Government	. 5
SOC&	101	Intro to Sociology	. 5

Engineering

Associate in Science Transfer

Major Related Programs (MRP) Options

The purpose of the AS-T Track II MRP Degree is to ensure that transferring students are prepared to certify into a baccalaureate engineering program. Recipients of the MRP degree are expected to enter the transferring university as a third-year engineering student.

Due to the math and science demands of the MRP degree, students will have to complete the last of their basic breath requirements at their transferring university.

Engineering students should also consult program outlines published by the university to which they intend to transfer. Students seeking to pursue these degree options should meet with a designated BBCC engineering advisor to develop an education plan based on their intended specialization and university transfer options.

Electrical/Computer Engineering

Required Core and Pre-Major Courses Credits				
CHEM&	161	General Chemistry w/Lab I	5	
CS&	131	Computer Science I: C++		
	or	·		
CS&	141	Computer Science II: Java	5	
ENGL&	101	Composition I	5	
ENGR&	204	Electrical Circuits	5	
MATH&	151	Calculus I	5	
MATH&	152	Calculus II		
MATH&	163	Calculus 3	5	
MATH	220	Linear Algebra		
MATH	230	Differential Equations		
PHYS&	221	Engineering Physics I w/Lab	5	
PHYS&	222	Engineering Physics II w/Lab		
PHYS&	223			
Humaniti	ies an	d Social Sciences	15	
Pre-Majo	or Ele	ctive Courses (minimum 25 cred	lits)	
CHEM&	162	, ,		
ENGL&	235	Technical Writing	5	
ENGR	202			
ENGR	205	Electrical Circuits Lab (for WSU)	1	
ENGR&	214	Statics	5	
ENGR&	215	Dynamics		
ENGR&	224	Thermodynamics	5	
ENGR&	240	Applied Numerical Methods		
MATH&	254	Calculus IV		
Highly re	Highly recommended Humanities/Social Sciences			

CMST&	220	Public Speaking (HU)	5
		Micro Economics (SS)	
	or		
ECON&	202	Macro Economics (SS)	5
POLS&	203	International Relations (SS)	5
PSYC&	100	General Psychology (SS)	5
		Total Credits	: 100+

Mechanical/Civil/Aeronautical/

Industrial/Materials Science

Require	d Cor	e and Pre-Major Courses	Credits
CHEM&	161	General Chemistry w/Lab I	5
CHEM&	162	General Chemistry II w/Lab	
ENGL&	101	Composition I	
ENGR&	214	Statics	
ENGR&	215	Dynamics	
ENGR&	225	Mechanics of Materials	
MATH&	151	Calculus I	
MATH&	152	Calculus II	
MATH&	163	Calculus 3	
MATH	220	Linear Algebra	
MATH	230	Differential Equations	
PHYS&	221	Engineering Physics I w/Lab	
PHYS&	222	Engineering Physics II w/Lab	5
PHYS&	223	Engineering Physics III w/Lab	
Humaniti	es an	d Social Sciences	15
Pre-Maio	or Ele	ctive Courses (minimum 20 cre	dits)
CS&	131	Computer Science I: C++	-
CS&	141	Computer Science II: Java	
ENGL&	235	Technical Writing	
ENGR&	111	Engineering Graphics I	
2.10.10	or	Triginiosimig Grapinios i	
ENGR&	112	Engineering Graphics II	5
ENGR	201	Material Science	
ENGR&	204	Electrical Circuits	5
ENGR	205	Electrical Circuits Lab (for WSU)	1
ENGR&	224	Thermodynamics	5
ENGR&	240	Applied Numerical Methods	5
MATH&	254	Calculus IV	5
Highly r	m	mended Humanities/Social Scie	naaa
CMST&	220 220	Public Speaking (HU)	
ECON&	201	Micro Economics (SS)	
LCCINA	or	Wilcro Economics (66)	
ECON&	202	Macro Economics (SS)	5
POLS&	202	International Relations (SS)	
PSYC&	100	General Psychology (SS)	
. 5.00	. 55	Total Cred	

English

Steve Close	509.793.2387
Matthew Sullivan	509.793.2367
Allison Palumbo	509.793.2178
Sean Twohy	509.793.2188

email: eng@bigbend.edu

Associate in Arts and Science Transfer Option

An English major might find employment as a teacher, a writer, or an editor of magazines, books, or advertising, or might plan to enter a profession requiring a graduate degree for which a background in English is desirable, such as law or librarianship. English courses are designed to provide students who plan to major in English, as well as other college students, with opportunities to improve their written and visual communications.

Since programs differ at each college, students who intend to transfer should consult program outlines published by the college or university. The following recommended courses prepare students for most baccalaureate institutions. Students should prepare their quarterly schedules with the assistance of an advisor knowledgeable in this transfer area.

Recommended Pre-Major Courses Ci			
ENGL&	244	American Literature I	5
ENGL&	245	American Literature II	5
HIST&	117	Western Civilization II	5
HUM	110	Greek Mythology	5
PHIL&	101	Intro to Philosophy	5
PSYC&	100	General Psychology	5
Recommended General Education Courses			Credits
ART&	100	Art Appreciation	5
ENGL	211	Creative Writing: Fiction	5
ENGL	212	Creative Writing: Poetry	5
ENGL&	220	Intro to Shakespeare	5
ENGL	243	The American Novel	5
HIST&	116	Western Civilization I	5
HIST&	136	US History 1	5
HIST&	137	US History 2	5
REL	201	World Religions	5

Foreign Language

Angela Leavitt 509.793.2187 email: Foreign Language@bigbend.edu

Associate in Arts and Science Transfer Option

Understanding other languages and cultures is vital in communicating with the increasingly global environment. Language and cultural skills open doors for careers in a wide variety of fields, particularly education, social services, translating and interpreting, international business and travel.

The foreign language curriculum is designed to prepare the student to transfer to a baccalaureate institution offering more advanced language study.

Since programs differ at each college, students who intend to transfer should consult program outlines published by the college or university. The following recommended courses will prepare students for most baccalaureate institutions. Students should prepare their quarterly schedules with the assistance of an advisor knowledgeable in this transfer area.

Recommended Pre-Major Courses	Credits
Foreign Language Sequence	30
Two years of a language sequence	

Recommended General Education Courses			Credits
ART&	100	Art Appreciation	5
HIST&	117	Western Civilization II	5
PHIL&	101	Intro to Philosophy	5
POLS&	203	International Relations	5
PSYC&	100	General Psychology	5
REL	201	World Religions	5
Foreign language courses outside major language			

Placement Policy

Students who place into 122 and receive a 2.6 grade or better qualify for 5 departmental advanced placement credits for 121. Students who place into 123 and receive a 2.6 grade or better qualify for 5 departmental advanced placement credits for 121 and 5 departmental advanced placement credits for 122. A maximum of 10 advanced placement credits will be allowed. See department for details.

History

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Jody Quitadamo 509-793-2177

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Associate in Arts and Science Transfer Option

History undertakes the study of past human affairs in order to understand who we are and where we might be going. It takes into account societies in diverse areas of the world from the earliest civilizations to the present day. History is an important part of a general liberal arts education. Students who plan to major in history may prepare for a number of careers, including public school teaching, government service, law, library and museum work, or professional historian.

Since programs differ at each college, students who intend to transfer should consult program outlines published by the college or university. The following recommended courses prepare students for most baccalaureate institutions. Students should prepare their quarterly

schedules with the assistance of an advisor knowledgeable in this transfer area.

Recomm	Recommended Pre-Major Courses				
HIST&	116	Western Civilization I	5		
HIST&	117	Western Civilization II	5		
HIST&	118	Western Civilization III	5		
HIST&	136	US History 1	5		
HIST&	137	US History 2	5		
POLS&	202	American Government & Politics	5		
ENGL&	101	English Composition I	5		
ENGL&	102	English Composition II	5		
PHIL&	101	Intro to Philosophy	5		
POLS&	203	International Relations	5		
REL	201	World Religions	5		
Two Year	Two Years of a Foreign Language				

Homeland Security Emergency Management

The Homeland Security Management Program (HSEM) offers an opportunity for students to prepare for careers as emergency management managers and policy leaders, and to acquire the knowledge and skills needed to improve outcomes in a wide range of disaster situations.

The program offers an Associate degree option, as well as a HSEM certificate:

- Associate of Applied Science-T (AAS-T) Degree in Homeland Security Emergency Management
- Certificate of Accomplishment: Home¬land Security Emergency Management

The primarily online program incorporates instruction in policy as well as planning and operational components of emergency management and homeland security, including opportunities to gain practical experience and work with current incident management technologies. The program addresses competencies required of emergency management professionals in careers in government, private industry and non-profit sectors. Students explore the complex world of emergency and disaster management issues and learn the critical thinking and decision-making skills necessary to support and supervise comprehensive, integrated, and effective management in the event of natural, system-wide, or human-induced crises. The curriculum provides policy foundations and advances students through core competencies in hazard identification; risk and vulnerability assessment; planning; terrorism; mitigation, preparedness, response and recovery; and planning for diverse populations. The AAS-T in Homeland Security Emergency Management degree will develop the students' competencies to prepare for and respond to all hazard environments, and includes an understanding of

socioeconomic and cultural diversity issue.

Associate in Applied Science-T (AAS-T) Homeland Security Emergency Management

General Education Requirements- 40 credits			
	C	ommunications-10 credits	
ENGL&	101	English Composition I5	
ENGL&	235	Technical Writing 5	

Quantitative/Symbolic Reasoning Skills 5 credits

Math&

		S	ocial Sciences -10 credits	
	PSYC&	100	Intro to Psychology	5
I	And a ch	oice c	of:	
I	HIST&	137	US History II	5
I	POLS&	202	American Government	5
I	POLS&	203	International Relations	5
I	SOC&	101	Intro to Sociology	5
I	C.I&	101	Intro to Criminal Justice	5

Humanities (5 credits) - Select one

ublic Speaking5
terpersonal Communications5

Natural Sciences -10 credits

ENVS&	100	Survey of Environmental Science 5	5
GEOL&	101	Intro to Physical Geology	5
CHEM&	105	Chemical Concepts	5

Program Electives - 10 credits

(select from General Education courses listed in Natural Sciences or Program Electives)

		9.5	
BUS	122	Business Communications .	5
BUS	114	Business Ethics	5
BIM	181	Microsoft Word	1-3
BIM	182	Microsoft Excel	1-3
BIM	184	Microsoft PowerPoint	1-3
CJ&	110	Criminal Law	5
CJ	210	Intro to American Policing	5
CJ	220	Intro to Corrections	5

HSEM Course Requirements -46 credits

FAD	150	Industrial First Aid	
1/10	100	madothar r not / na	

2

HSEM	102	Introduction to Homeland Security
		Emergency Management3
HSEM	110	Basic Incident Command System/
		National Incident Management System 5
HSEM	120	All Hazards Emergency Planning 3
HSEM	130	Technology in Emergency Management 3
HSEM	157	Public Information Officer3
HSEM	160	Emergency Response Awareness to
		Terrorism2
HSEM	190	Special Topics in HSEM1-5
HSEM	200	Emergency Operations Center 3
HSEM	210	Exercise Design and Evaluation 2
HSEM	220	Developing and Managing Volunteer
		Resources 3
HSEM	230	Disaster Recovery and Response 2
HSEM	240	Homeland Security Emergency
		Management Work-based Learning 1-5
HSEM	250	Homeland Security Law and Ethics 5
		Total Credits - 96-100

Associate of Applied Science-T Degree Suggested Course Schedule First Year Fall Quarter

HSEM HSEM	102 110	Intro to Emergency Management 5 Basic Incident Command System
ENGL& CJ&	101 101	(NIMS)2English Composition5Intro to Criminal Justice5
		Winter Quarter
HSEM HSEM ENVS& FAD	130 180 100 150	Technology in Emergency Mgt
		Spring Quarter
HSEM HSEM HSEM MATH&	120 157 190 146	All Hazards Emergency Management 3 Public Education Officer
		Summer Quarter
HSEM PSYC&	230 100	Disaster Response and Recovery 2 Intro to Psychology 5
		Second Year Fall Quarter
ENGL& HSEM HSEM CMST&	235 250 210 220	Technical Report Writing
		Winter Quarter
HSEM	200	Emergency Operations Center 2

HSEM HSEM	240	Developing and Managing Volunteers Work-based Learning	3
HSEM		HSEM Special Topics*	
HIST&	137	US History II	5
		Spring Quarter	
HSEM	160	Emergency Response Awareness to Terrorism	5
HSEM	240	Work-based Learning	2
HSEM	190	HSEM Special Topics*	3
BUS		Business Communications	

Sample Total of 98 credits for AAS-T Degree

- *Up to 5 credits of HSEM 190 Special Topics may be applied
- ** Prior to enrollment in HSEM 240 Work-based Learning you must complete an application submitted to the HSEM coordinator and have successfully completed the following courses: ENGL&101, ENGL&235, HSEM 102, HSEM 110, HSEM 157, HSEM 180 and HSEM 200.

Certificate of Accomplishment

The 26 credit Certificate of Accomplishment is designed to provide recognition of completion of coursework in the Homeland Security and Emergency Management Program.

HSEM	102	Intro to Emergency Management	5
HSEM	110	Basic Incident Command System/	
		National NIMS	2
HSEM	120	All Hazards Emergency Planning	3
HSEM	130	Technology in Emergency Managem	ent 3
HSEM	157	Public Information Officer	2
HSEM	160	Emergency Response Awareness to	
		Terrorism	5
HSEM	180	Public Administration	3
HSEM	190	Special Topics	3
		Total Credits	26

Industrial Systems Technology ~ Mechanical Maintenance Option

Bill Autry 509.793.2264
email: billa@bigbend.edu
Associate in Applied Science ~ 101+ credits
Professional Technical Program

To prepare students for entry-level employment as maintenance mechanics in several industries, the Industrial Systems Technology (IST) program provides a foundation in safety, fabrication, welding, refrigeration, machining, power transmission, industrial electricity, fluid power, programmable logic controllers, and instrumentation. Maintenance mechanics install new industrial machinery and systems, maintain and repair equipment, and perform tests on machinery and equipment to

ensure safe operation. After completing the program, a student may take additional training to specialize in an area of industrial maintenance technology.

Students apply technical knowledge and skills to install, repair, and maintain industrial machinery and equipment such as motors, pumps, pneumatic tools, conveyor systems, production machinery, pipeline distribution systems, and automated equipment. Training is offered in: diagnostic techniques, trouble shooting, use of test instruments, principles of preventive and predictive maintenance, mechanics, pneumatics, hydraulics, refrigeration, electricity, and electronics as they relate to maintenance mechanics. Related instruction includes mathematics, first-aid, written and oral communication, and human relations.

Interested students must work out courses and schedules with the IST program advisor.

Related instruction required for an Associate of Applied Science degree and Certificate of Achievement

BUS	120	Human Relations on the Job
CMST	100	Human Communications
ENGL	109	Applied Technical Writing
FAD	150	Industrial First Aid
MAP	103	Applied Mathematics (IST)
See advi	sor fo	r substitute courses

First Year Fall Quarter

IST	100	Introduction to Industrial Safety and Health
IST	102	
MAP	103	· + - · · · · · · · · · · · · · · · · ·
WLD	111	Welding Process I*6
		Winter Quarter
CMST	100	Human Communications**4
IST	105	Basic Electricity -DC Circuit Analysis 5
IST	180	Machining I5
WLD	122	Gas Metal Arc Welding I3
		Spring Quarter
ENGL	109	Applied Technical Writing** 3
FAD	150	Industrial First Aid**2
IST	106	Basic Electricity – AC Circuit Anal 5
IST	182	
WLD	132	Gas Tungsten Arc Welding I (TIG)3
*Tech	n Prep	credit available
		Second Year
		Fall Quarter
BUS	120	Human Relations on the Job**4
IST	107	Industrial Electricity I5
IST	130	Introduction to Refrigeration and
		Air Conditioning5

IST	280	Mechanical Power Transmission	5	
		Winter Quarter		
IST	120	Introduction to Preventive/Predictive	e e	
		Maintenance	3	
IST	136	Intro to Industrial Boilers	5	
IST	170	Introduction to Instrumentation	5	
	Advi	sor approved Elective*	. 2 to 5	
		Spring Quarter		
IST	150	Introduction to Programmable Logi	С	
		Controllers I	5	
IST	282	Fluid Power Transmission	5	
IST	284	Pump Hydraulics/Mechanics	5	
	Optio	onal Elective*	. 2 to 5	
	*Student can take Work Based Learning or elective classes			

^{**}Related instruction required for an AAS degree and Certificate of Achievement

Certificate of Achievement

The Certificate of Achievement is designed for students who wish to take specialized courses in a particular field and desire certification acknowledging completion of specific program modules. These modules contain the mathematic, written, oral, and human relations related instruction requirements and accepted course requirements for certification. The following is a suggested sequence of courses. Interested students must work out courses and schedules with the IST program advisor.

Boiler/Refrigeration (51 credits) First Year Fall Quarter

		Fall Quarter				
BUS		Human Relations on the Job**4				
MAP	103	Applied Mathematics (IST)**5				
		Winter Quarter				
CMST	100	Human Communications**4				
IST	105	Basic Electricity - DC Circuit Analysis 5				
		Spring Quarter				
IST	106	Basic Electricity – AC Circuit Analysis 5				
ENGL	109	Applied Technical Writing** 3				
FAD	150	Industrial First Aid**2				
		nstruction required for an AAS degree and				
Certii	icate	of Achievement				
		Second Year				
		Fall Quarter				
IST	107	Industrial Electricity I5				
IST	130	Introduction to Refrigeration and				
		Air Conditioning5				
	Winter Quarter					
IST	170	Introduction to Instrumentation5				

IST 120 Introduction to Preventive/Predictive Maintenance	BUS 120 Human Relations on the Job**4 IST 130 Introduction to Refrigeration and
IST 136 Intro to Industrial Boilers	Air Conditioning5
Industrial Fabrication (50 credits)	Winter Quarter
First Year	IST 136 Intro to Industrial Boilers
Fall Quarter	Spring Quarter
MAP 103 Applied Mathematics (IST)**5	IST 282 Fluid Power Transmission
IST 102 Technical Drawing Interpretation* 3	**Related instruction required for an AAS degree and Certificate of Achievement
WLD 111 Welding Process I*6	Gertificate of Adrievement
Winter Quarter	Certificate of Accomplishment
IST 180 Machining I5	The Certificate of Accomplishment is designed to
WLD 122 Gas Metal Arc Welding I	provide recognition of completion of certain approved
Spring Quarter	courses or modules of courses offered through a par-
ENGL 109 Applied Technical Writing**	ticular technical program. This certification is designed for the occasional and or part time student who does
FAD 150 Industrial First Aid**	not plan to complete an AAS degree or a Certificate of
WLD 132 Gas Tungsten Arc Welding I (TIG)3	Achievement.
*Tech Prep credit available	BBCC upon request by application, may issue a Certifi-
**Related instruction required for an AAS degree and	cate of Accomplishment upon successful completion of
Certificate of Achievement	the following approved modules with an earned minimum grade of 2.0 for each course. Individual or substituted
Second Year	courses may be certificated upon approval by the IST
Fall Quarter	program advisor.
BUS 120 Human Relations on the Job**4	Boiler/Refrigeration
WLD 112 Thermal Cutting and Welding*3	IST 130 Introduction to Refrigeration and
Winter Quarter	Air Conditioning5
CMST 100 Human Communications**4	IST 120 Introduction to Preventative/Predictive
IST 184 Machining (Skill Enhancement)4	Maintenance
*Tech Prep credit available	131 130 IIIII to IIIdustilai bolleis
**Related instruction required for an AAS degree and Certificate of Achievement	Machining
	IST 180 Machining I5
Industrial Mechanics (51 credits)	IST 182 Machining II
First Year	IST 184 Machining-Skill Enhancement4
Fall Quarter	Mechanical
MAP 103 Applied Mathematics (IST)**	IST 120 Introduction to Preventative/Predictive
IST 280 Mechanical Power Transmission 5	Maintenance
Winter Quarter	IST 280 Mechanical Power Transmission
CMST 100 Human Communications**4	IST 284 Pump Hydraulics/Mechanics
IST 180 Machining I	20
Maintenance3	Industrial Systems Technology ~
Spring Quarter	Industrial Electrical Option
ENGL 109 Applied Technical Writing**	•
FAD 150 Industrial First Aid**2	
IST 284 Pump Hydraulics/Mechanics	
**Related instruction required for an AAS degree and Certificate of Achievement	
Second Year	
Fall Quarter	

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Associate in Applied Science ~ 103 credits **Professional Technical Program**

The Industrial Systems Technology program provides a comprehensive two-year curriculum designed to prepare students for career opportunities as industrial electrical technicians. Students receive instruction in safety, electrical and electronic theory, process control, instrumentation, and Programmable Logic Controllers.

Today's industrial electrician is a multi-faceted technician. Electrical and control system technologies are increasingly sophisticated and complex. The Industrial Electrical Technology option reflects the changing trends in the industrial climate while maintaining a broad-based curriculum blending theory and practical applications.

Related instruction includes mathematics, technical drawing interpretation, computer applications, communications, preventive maintenance, safety, and first aid. This program is intended for individuals who are seeking entry level employment opportunities and those updating their skills.

Interested students must work out courses and schedules with the IST program advisor.

Related instruction required for Associate in Applied Science degree and **Certificate of Achievement**

BUS	120	Human Relations on the Job
CMST	100	Human Communications
ENGL	109	Applied Technical Writing
FAD	150	Industrial First Aid
MAP	103	Applied Mathematics (IST)

First Year Fall Quarter

IST	100	Introduction to Industrial				
		Safety and Health3				
IST	102	Technical Drawing Interpretation* 3				
IST	105	Basic Electricity –				
		DC Circuit Analysis5				
MAP	103	Applied Mathematics (IST)**5				
		Winter Quarter				
BUS	120	Human Relations on the Job**4				
CMST	100	Human Communications**4				
FAD	150	Industrial First Aid**2				
IST	106	Basic Electricity - AC Circuit Analysis 5				
IST	120	Introduction to Preventive/Predictive				
		Maintenance 3				
	Spring Quarter					

ENGL	109	Applied Technical Writing**			
IST	107	•			
IST	110	Introduction to National			
IOT	440	Electrical Code			
IST	113	Industrial Electrical Installation			
	004	Techniques5			
IST	221	Electronics I (Principles)5			
		Second Year			
		Fall Quarter			
IST	111	National Electrical Code II2			
IST	150	Introduction to Programmable			
		Logic Controllers 5			
IST	207	Industrial Electricity II5			
IST	222				
		Winter Quarter			
IST	112	National Electrical Code III2			
IST	170	Instrumentation II			
IST	223	Electronics III (Industrial)5			
IST	152	Programmable Automation Control5			
		Spring Quarter			
IST	208	Industrial Electricity III			
101	200	(VFD's & Soft Starts)5			
IST	270	Instrumentation II &			
101	210	Control Actuators5			
	Δανί	sor approved Elective			
*T/		credit available			
	•	nstruction required for AAS degree and			
	Certificate of Achievement				

Certificate of Achievement

Certificate of Achievement

The Certificate of Achievement is designed for students who wish to take specialized courses in a particular field and desire certification acknowledging completion of specific program modules. These modules contain the mathematic, written and oral communications, and human relations related instruction requirements and accepted course requirements for certification. The following is a suggested sequence of courses. Interested students must work out courses and schedules with the IST program advisor.

Electrical Mechanized Irrigation Technology (48 credits minimum)

Fall Quarter

BUS	120	Human Relations on the Job**	4		
BUS	215	Customer Service	3		
IST	105	Basic Electricity - DC Circuits	5		
MAP	103	Applied Mathematics**	5		
	Winter Quarter				
CMST	100	Human Communications**	4		
ENGL	109	Applied Technical Writing**	3		
FAD	150	Industrial First Aid**	2		

IST	106 Basic Electricity – AC Circuits5		Circuit Analysis5
IST	141 Mechanized Irrigation		Spring Quarter
	Applications I	IST	107 Industrial Electricity I5
ICT	Spring Quarter	IST	221 Electronics I (Principles)5
IST IST	107 Industrial Electricity I5 110 Introduction to National		Second Year
101	Elec. Code		Fall Quarter
IST	142 Mechanized Irrigation	IST	207 Industrial Electricity II5
	Applications II5	101	Winter Quarter
	Related instruction required for AAS degree and Certificate of Achievement	BUS	120 Human Relations on the Job4
	Certificate of Achievement	ВОЗ	Advisor approved Elective*
	Electronics Technology		Spring Quarter
	(48 credit minimum)	ENGL	109 Applied Technical Writing**3
	First Year	IST	208 Industrial Electricity III5
	Fall Quarter		elated instruction required for AAS degree and
IST	105 Basic Electricity - DC Circuit Analysis 5	Cer	tificate of Achievement
MAP	103 Applied Mathematics (IST)**5		Programmable Logic Controllers
	Winter Quarter		(48 credits minimum)
CMST	100 Human Communications**		First Year
FAD IST	150 Industrial First Aid**2 106 Basic Electricity - AC Circuit Analysis 5		Fall Quarter
101	Spring Quarter	BUS	120 Human Relations on the Job**4
ENGL	109 Applied Technical Writing**3	IST	105 Basic Electricity - DC Circuit Anal 5
IST	221 Electronics I (Principles)	MAP	103 Applied Mathematics (IST)**5
	` ,		Winter Quarter
	Second Year	FAD	150 Industrial First Aid**
	Fall Quarter	IST	106 Basic Electricity - AC Circuit Analysis5
BUS	120 Human Relations on the Job**		Spring Quarter
IST	222 Electronics II (Applications)5	ENGL	109 Applied Technical Writing**3
IOT	Winter Quarter	IST	107 Industrial Electricity I5
IST	223 Electronics III (Industrial)5		·
	Spring Quarter		Second Year
**D	Advisor approved Elective		Fall Quarter
	elated instruction required for AAS degree and tificate of Achievement	IST	150 Introduction to Programmable
		IST	Logic Controllers 5 207 Industrial Electricity II 5
	Industrial Electrical	101	Winter Quarter
	(50 credits minimum)	CMST	100 Human Communications**4
	First Year	IST	152 Programmable Automation Control 5
	Fall Quarter		elated instruction required for AAS degree and
IST	105 Basic Electricity - DC Circuit Analysis5	Cer	tificate of Achievement
MAP	103 Applied Mathematics (IST)**5		
	Winter Quarter		Certificates of Accomplishment
CMST	100 Human Communications**4		ertificate of Accomplishment is designed to
FAD	150 Industrial First Aid**2		recognition of completion of certain approved or small modules of courses offered through
IST	106 Basic Electricity - AC		ular technical program. This certification is
		designe	d for the occasional or part-time student that
			t plan to complete an AAS degree or a Certificate vement.

BBCC upon request by application, may issue Certificates of Accomplishment upon successful completion of the following approved modules with an earned minimum grade of 2.0 for each course. Individual or substituted courses may be certificated upon approval by the IET program advisor.

Posis Electricity (45 prodits)

	D	asic Electricity (15 credits)	
IST	105	Basic Electricity –	
		DC Circuit Analysis	5
IST	106	Basic Electricity –	
		AC Circuit Analysis	5
IST	221	Electronics I (Principles)	5
		Electronics (15 credits)	
IST	221	Electronics I (Principles)	5
IST		Electronics II (Applications)	
IST	223		
	Indu	strial Electricity (20 credits)	
IST	107	Industrial Electricity I	5
IST	113	Electrical Installation Techniques	
IST	207	Industrial Electricity II	
IST	208	Industrial Electricity III	
	ln	strumentation (15 credits)	
IST	150	Introduction to Programmable	
		Logic Controllers	5
IST	170	Introduction to Instrumentation	5
IST	270		
		Control Actuators	5
	Natio	onal Electric Code (6 credits)	
IST	110	Introduction to National	
		Electric Code	2
IST	111	National Electrical Code II	2
IST	112	National Electrical Code III	2
Prog	ıramm	able Logic Controllers (15 credits)	
IST	150	Introduction to Programmable	
	.00	Logic Controllers	5
IST	207	Industrial Electricity II	
IST	152		
			_

Mathematics

509.793.2145

509-793-2154

Tyler Wallace Barbara Whitney

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Associate in Arts and Science Transfer Option

The mathematics department at BBCC prepares students for successful transfer to a four-year college or university. At the university level, a math major student may prepare for a career in industry, government, or education.

All students, regardless of background, must take BBCC's math placement exam (mathematics assessment tool) before being allowed to enroll in any math or science course with a math prerequisite.

Since programs differ at each college, students should consult program outlines published by the college or university to which they intend to transfer. The following recommended courses prepare students for most baccalaureate institutions. Students should prepare their quarterly schedules with the assistance of an advisor knowledgeable in this transfer area.

Recomm	ende	ed Pre-Major Courses	Credits
CHEM&	161	General Chem w/Lab I	5
CHEM&	162	General Chem w/Lab II	5
MATH&	151	Calculus I	5
MATH&	152	Calculus II	5
MATH&	163	Calculus 3	5
MATH	220	Linear Algebra	5
MATH	230	Differential Equations	5
MATH&	254	Calculus IV	5
PHYS&	221	Engineering Physics I w/Lab	5
PHYS&	222	Engineering Physics II w/Lab	5
PHYS&	223	Engineering Physics III w/Lab	5

Medical Assistant

Briana Ross 509-793-2133

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General Program Information

The Medical Assistant Program at BBCC prepares students to successfully work side by side with a doctor and other health care professionals in a clinic or hospital setting. Students will maintain the highest quality of patient care, learn to room patients for examination, draw blood for basic lab studies, administer some medications, do ECG's, assist with minor surgical procedures, and perform front office skills related to medical records and billing. Medical Assistants will be prepared for diverse front and back office medical positions by learned theory, lab and clinical skills combined with an extern experience in a physician's office.

Successful completion of the Medical Assistant Pro-

Salah Abed

Brinn Harberts

gram prepares the student to take the National Certification Examination offered through American Medical Technologists. Successful completion of the examination and subsequent licensure allows the student to enter the workforce as a Medical Assistant – Certified

The program provides a two year Associate in Applied Science Degree and a Certificate of Achievement in Medical Assisting. Prerequisite and corequisite courses must be completed with a minimum of 2.0 in each course.

Physical and Psychosocial Requirements for the Medical Assistant Program:

Students planning on entering the Medical Assistant Program need to be aware of the fact that the physical requirements listed below are expected by employers. Therefore, students will be expected to meet the same criteria during clinical/lab instruction in the Medical Assistant program.

- Demonstrate good body mechanics, lift/carry a minimum of 25 lbs. independently and 50 lbs. with assistance.
- Have normal/corrected vision and hearing within normal range.
- Demonstrate ability to tolerate intermittent sitting, standing, stooping and walking. Full range of motion is required.
- Demonstrate good manual and finger dexterity.
- Demonstrate competency in computer documentation
- Demonstrate communication skills: Must be able to read and write in English. Must be able to communicate verbally in English both in person and on the phone.
- Demonstrate ability to stand on carpeting, linoleum, or be seated at a standard desk using an office chair for a varying amount of time.
- Demonstrate ability to work in high-paced facilities that include dealing with stress.
- Demonstrate emotional stability and maturity in various circumstances through interpersonal relationships with staff, patients, and visitors.
- Demonstrate ability to deliver care across the age spectrum with cultural and ethnic sensitivity.
- Demonstrate a consistent ability to deliver safe and competent patient care.

Clinical Series (MA 111, 112, 113, 195)

In order to be considered for placement in the clinical series starting in the Fall, students must submit a "Letter of Intent" by the specified due date. The letter of intent can be found on BBCC's Medical Assistant webpage or can be picked up from the office of the program director.

Requirements for the Medical Assistant Program

- a) Letter of intent must be submitted by due date if student wishes to be considered for the fall clinical cohort (MA 111, MA 112, MA 113)
- b) Provide evidence of a satisfactory physical examination before the beginning of MA 112
- c) Provide evidence of a current Healthcare Provider CPR card prior to MA 112**
- d) Provide evidence of up-to-date immunizations and have initiated the Hepatitis B series prior to MA 112
- e) Have a satisfactory criminal background check prior to MA 195
- f) Provide evidence of negative drug testing prior to the start of MA 195
- **BBCC's Medical Assistant Program requires CPR cards to be updated annually

Related instruction required for an Associate in Applied Science Degree

PSYC&	100	General Psychology	5
		Public Speaking	
		English Composition I	
FAD	150	Industrial First Aid	2
MAP	119	Applied Mathematics for Workforce	
		Programs II*	5

Related instruction required for Certificate of Achievement

+ Career ladder course, required for AAS degree			
BUS	120	Human Relations on the Job	4
	or		
PSYC&	100	General Psychology+	5
CMST	100	Human Communications	4
	or		
CMST&	220	Public Speaking+	5
ENGL&	101	English Composition I+	5
	or		
ENGL	109	Applied Technical Writing	3
FAD	150	Industrial First Aid*	2
MAP	119	Applied Mathematics for Workforce	
		Programs II*	5

Associate in Applied Science Degree

BIM	101	Basic Keyboarding	2
	or		
BIM	104	Intermediate Keyboarding	3
BIM	111	Introduction to Computers in the	
		Medical Office	3
CMST&	220	Public Speaking+	5
CSS	105	Introduction to Healthcare Studies	3
ENGL&	101	English Composition*+	5
FAD	150	First Aid-(Healthcare Provider CPR)*	2
HED	121	The Human Body and Disease I	5

HED123The Human Body and Disease III
HED 160 Pharmacology for Allied Health3
0 ,
HED 239 Medical Ethics
MA 111 Clinical Procedures I
MA 112 Clinical Procedures II4
MA 113 Clinical Procedures III4
MA 195 Externship/Practicum6
MA 197 Externship/Practicum Seminar1
MAP 119 Applied Mathematics for Workforce
Programs II*5
NUR 103 HIV/AIDS1
NUTR& 101 Nutrition5
PSYC& 100 General Psychology+5
PSYC& 200 Lifespan Psychology5
SOC& 101 Intro to Sociology5
Electives above 100 level

Total Credits: 90-91

Recommended Program Electives may include:

	_		
BUS	120	Human Relations on the Job	. 4
	or		
PSYC&	100	General Psychology+	. 5
CMST	100	Human Communication	. 4
	or		
CMST&	220	Public Speaking+	. 5
ENGL	109	Applied Technical Writing	. 3
	or		
ENGL&	101	English Composition I*+	. 5
FAD	150	First Aid(Healthcare Provider CPR)*	. 2
HED	121	The Human Body and Disease I	. 5
HED	122	The Human Body and Disease II	. 5
HED	123	The Human Body and Disease III	. 5
HED	119	Medical Terminology	. 5
HED	160	Pharmacology for Allied Health	. 3
HED	239	Medical Ethics	. 2
MA	111	Clinical Procedures I	
MA	112	Clinical Procedures II	
MA	113	Clinical Procedures III	. 4
MA	195	Externship/Practicum	. 6
MA	197	Externship/Practicum Seminar	. 1

Total Credits: 62-66

Medical Simulation Technician

119 Applied Mathematics for Workforce

103 HIV/Aids Education 1

Programs II*......5

Andrea Elliott

MAP

NUR

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Medical simulation technicians replicate situations or environments, through the use of programming and robotics, that allow healthcare professionals to experience simulated reality for the purposes of training. This program is designed to provide the programming, robotics, and healthcare basics needed to gain employment in a simulation center or lab. This course of study is intended for individuals who have an interest in working with robotics in the healthcare setting as well as individuals already working in simulation settings.

Since programs differ at each college, students who intend to transfer should consult program outlines in the catalog of the college or university which they plan to attend. The following recommended courses prepare students for most baccalaureate institutions. Students should prepare their quarterly schedules with the assistance of the medical simulation advisor knowledgeable in the transfer area.

Program prerequisites:

- · Complete BBCC admissions process.
- · Complete English and math placement tests.
- Meet with the Medical Simulation program advisor to develop a professional development plan.
- Have a satisfactory criminal background check prior to SIM 222.

Physical and Psychosocial Requirements for the Medical Simulation program:

- Demonstrate good body mechanics, lift/carry a minimum of 25 lbs independently and 50 lbs with assistance.
- Demonstrate ability to tolerate intermittent sitting, standing, stooping and walking. Full range of motion is required.
- Demonstrate ability to work in high-paced facilities in various stressful circumstances while promoting positive professionalism with staff, community partners, and visitors.

Associate in Applied Science Professional Technical Program

The Medical Simulation Associate in Applied Science-Transfer degree prepares students for programming, building, maintaining, and running human simulators (robots) that are used to train healthcare professionals in a variety of situations. Medical simulation equipment is widely used by hospitals, fire departments, life flight organizations, and emergency response teams. This is a hands on, fast paced career that integrates computer science, robotics, and healthcare. All courses applied to degree completion must be completed with a minimum of 2.0 in each course.

Related Instruction Requirements (27 credits):

BIOL&	170	Human Biology	5
MATH&	141	Pre-Calculus I	
ENGL&	101	English Composition I	5
CMST&	220	Public Speaking	
PSYC&	100	General Psychology	5
FAD	150	Industrial First Aid (or current card)	2
Program	Majo	or Requirements (70 credits):	
CMST&	210	Interpersonal Communication	5
CS	104	Introduction to Computer Hardware	3
CS&	141	Computer Science Programming	
ENGL&	235	Technical Writing	5
HED	119	Medical Terminology	
HED	160	Pharmacology for Allied Health	3
SIM	110	Fund of Simulation Programming	2
SIM	120	Medical Equipment Research	2
SIM	130	Intro to Medical Simulation	5
SIM	140	Basic Simulation Maintenance	5
SIM	161	Pharmacology Lab	1
SIM	212	Advanced Life Support Scenarios	5
SIM	220	Simulation Systems Admin	5
SIM	221	Pediatric Simulations	5
SIM	222	Clinical Focused Simulation	3
SIM	230	LMS for Simulation	5
SIM	233	Simulation by Design	3
SIM	295	Practicum in Community Simulation	2
SIM	297	Simulation Seminar	1
		Total 97 cred	dits

Certificate of Accomplishment Simulation Operations Specialist

The certificate of accomplishment is designed to provide recognition for the student who already has an associate's degree or higher and is currently working in the medical simulation environment. This certificate will provide foundational skills in basic programming, maintenance, and instructional strategies that the student can use to implement high fidelity medical simulation activities.

SIM	110	Fund of SIM Programming2
SIM	130	Intro to Medical Simulation5
SIM	140	Basic Simulation Maintenance5
SIM	230	Learning Management Systems 5
SIM	295	Practicum in Community Sim3
		Total 20 credits

Music

Michael Dzbenski 509.793.2140 email: mdzbenski@bigbend.edu

Associate in Arts and Science Transfer Option

Music is a universal language. The music department emphasizes a world-wide perspective and appreciation for music from all over the world. Through specialized lecture courses, performance-based labs, and community ensembles students have the ability to express themselves through a variety of musical endeavors.

The department provides basic disciplines in music for music majors, non-majors, and people in the community. Each individual can expect development toward mastery in their field of choice and create a solid musical foundation. This enables them to transfer into four-year college or university to pursue a baccalaureate degree in music. The program is also an appropriate course of study for individuals preparing for a career in the music field that does not require a degree or for their own personal enrichment.

Since programs differ at each college, students should consult program outlines published by the college or university to which they intend to transfer. The following recommended courses prepare students for most baccalaureate institutions. Students should prepare their quarterly schedules with the assistance of an advisor knowledgeable in this transfer area.

Recommended Pre-Major Courses				
100	Intro to Music	5		
105	Music Appreciation	5		
115	Group Piano I	2		
116	Group Piano II	2		
117	Group Piano III	2		
170	History of Jazz	5		
	100 105 115 116 117	100 Intro to Music		

Recommended Music Electives (10-20 Credits)

	Cieuits			
MUSC 115 Gro	oup Piano I2			
MUSC 116 Gro	oup Piano II2			
MUSC 117 Gro	oup Piano III2			
MUSC 124 Ord	hestra I*2			
MUSC 134 Gro	oup Guitar2			
MUSC 215 Gro	pup Piano IV2			
MUSC 216 Gro	oup Piano V2			
MUSC 217 Gro	oup Piano VI2			
MUSC 224 Ord	hestra II2			
+01 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				

Cradite

*Chorus and Orchestra, as well as several Music electives, may be repeated up to 12 credits.

Nursing

email: NursingProgram@bigbend.edu Katherine Christian Director of Health

 Education Programs
 509.793.2130

 Jennifer Brooks
 509.793.2138

 Kathy Erwin
 509.793.2132

 Mercedes Gonzalez-Aller
 509.793.2136

 Sherry Donovan
 509.793.2136

General Program Overview

Nursing education presents concepts from the humanities, life and social sciences, and biological and physical sciences. It promotes competency-based learning at all levels of nursing practice. The goal of nursing education is the provision of a theoretical knowledge base, competent skill base, and professional value insights that enable a beginning practitioner to deliver safe care and to demonstrate accountability for care delivered or delegated to others. The Nursing Program's curriculum is designed to incorporate the program's philosophy/mission and nursing paradigm concepts. It is designed to demonstrate learning from the simple to the complex, from the conceptual to the empirical.

Physical and Psychosocial Requirements for the Nursing Program:

Students planning on entering the Nursing Program need to be aware of the fact that the physical requirements listed below are expected by employers. Therefore, students will be expected to meet the same criteria during clinical/lab instruction in the Nursing program.

- Demonstrate ability to tolerate intermittent sitting, standing, stooping and walking. Full range of motion is required.
- · Demonstrate good manual and finger dexterity.
- Demonstrate ability to differentiate odors and colors in the clinical setting.
- Demonstrate competency in computer documentation
- Demonstrate communication skills: Must be able to read and write in English. Must be able to communicate verbally in English both in person and on the phone.
- Demonstrate ability to stand on carpeting, linoleum, or be seated at a standard desk at the nurse's station using an office chair for a varying amount of time (i.e. 2-4 hours).
- Demonstrate ability to work in high-paced facilities that include dealing with stress.
- Demonstrate emotional stability and maturity in various circumstances through interpersonal relationships with staff, patients, and visitors.
- Demonstrate ability to deliver care across the age spectrum with cultural and ethnic sensitivity.
- Demonstrate a consistent ability to deliver safe and competent nursing care.

Application Procedure

Students are admitted each year in the fall quarter only. Prerequisite courses are done independently prior to applying to the nursing program. Students may apply to the program by obtaining a nursing application packet in the Admissions/Registration Office or from the program's website; applications are accepted Fall 2018 will be accepted from March 15, 2018-April 6, 2018. The application packet explains, in detail, how to prepare a complete application file. Incomplete application files will not be considered for admission.

Selection and Acceptance Process

Selection of new students to the nursing program is done on a points-based system (see application packet for more information). Prerequisite courses must be completed or in progress prior to applying for a position in the BBCC Nursing program. In addition, points will be awarded for any completed corequisite courses. Prerequisite and corequisite courses must be completed with a minimum of 2.0 in each course. The top 24 applicants will be admitted to the program. There will be an alternate pool of applicants that will be utilized if necessary should any of the first 24 accepted students decide not to attend. Admissions from the alternate pool will continue until the class has 24 confirmed new students. The alternate pool will remain in existence until the first day of orientation. Applicants must re-apply to be considered for admission in subsequent years.

Nursing Program Requirements

Before beginning the Nursing program courses, the applicant must be able to:

- a. Provide evidence of a satisfactory physical examination within the preceding six months, validating all physical requirements (see above)
- b. Provide evidence of a current AHA BLS Provider CPR Card**
- c. Have a satisfactory criminal background check
- d. Provide evidence of up-to-date immunizations and have initiated the Hepatitis B series
- e. Provide a current Nursing Assistant Certified license from Washington State
- f. Provide evidence of negative drug testing
 **BBCC's Nursing Program requires CPR cards to be
 updated annually**

LPN to ADN Admission

Licensed practical nurses may seek advanced placement in the program. In order to be eligible for advanced placement, the LPN must have met the minimum requirements for the program and have completed all of the other required Level I co-requisite courses prior to admission (See application packet). If space becomes

available, the LPN must successfully complete the summer quarter (NUR 140 and NUR 141) in order to enter the fall quarter of the Level II ADN year.

Transfer Students

Transfer students may be accepted from other nursing programs on a space-available basis following an evaluation of qualifications. Transfer students must meet all BBCC and nursing program requirements (See application packet for application process).

BBCC allows transfer credits from accredited postsecondary institutions. The grade acceptable for credit must be a minimum of 2.0 in each class. Students must submit official transcripts from each institution attended to the Admissions/Registration Office, and copies of transcripts to the Director of Health Education Programs. Nursing course credit will be considered on an individual basis.

Attendance at BBCC is required for a minimum of two quarters prior to the completion of the nursing program. Twenty-four quarter credits, including the final twelve necessary to complete the degree, must be earned through enrollment in BBCC courses.

Associate in Applied Science Nursing Program (ADN)

Successful completion of the ADN program prepares the student to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN). Successful completion of the examination and subsequent licensure allows the student to enter the workforce as a Registered Nurse.

The ADN program is approved by the Washington State Nursing Care Quality Assurance Commission, the Washington State Board for Community and Technical Colleges, and accredited by the Accreditation Commission for Education in Nursing, 3342 Peachtree Rd NE, Suite 500, Atlanta, GA 30326; tel 404.975.5000 Prerequisites*

BIOL&	241	Human A & P 1	5
BIOL&	242	Human A & P 2	5
ENGL&	101	English Composition I .	5
			Total Credits: 15

^{*}Applicantswill be required to have a current NAC certification from Washington State prior to admission

Level I ADN Program

Fall

BIOL&	260	Microbiology*	5
NUR	101	Survival Skills for the	
		Nursing Student	1
NUR	110	Fundamentals of Nursing	5
NUR	111	Fundamentals of Nursing Practicum	3
NUR	114	Pharmacology	2
NUR	135	Nursing Skills Laboratory	1

Winter

NUR	120	Beginning Nursing Concepts I	6
NUR	121	Beginning Nursing Practicum I	4
NUR	136	Nursing Skills Laboratory	1
NUTR&	101	Nutrition*	5
		Spring	
NUR	130	Beginning Nursing Concepts II	6
NUR	131	Beginning Nursing Practicum II	5
NUR	137	Nursing Skills Laboratory	1
PSYC&	100	General Psychology*	5
		Total Nursing Credits	. 35
	Tota	I Corequisite Credits	

Enrollment in Level II ADN courses is contingent on successful completion of all Level I ADN Program required courses, or approved equivalent. Transfer students and LPN's wishing to advance to RN should meet with the director to determine eligibility.

Level II ADN Program

Fall

	i ali				
NUR	210	Advanced Nursing Concepts I	5		
NUR	211	Advanced Nursing Practicum I	5		
NUR	235	Nursing Skills Laboratory	1		
PSYC&	200	Lifespan Psychology*	5		
		Winter			
NUR	220	Advanced Nursing Concepts II	5		
NUR	221	Advanced Nursing Practicum II	5		
NUR	236	Nursing Skills Laboratory	1		
CMST&	220	Public Speaking *	5		
		Spring			
NUR	230	Advanced Nursing Concepts III	5		
NUR	231	Advanced Nursing Practicum III	4		
NUR	240	Professional Issues	1		
MATH	1xx	Math Course greater than 100†*	5		
		Total Nursing Credits	32		
	Total Corequisite Credits15				
+ ^					

^{*} Corequisite courses – may be completed at any point prior to entering the nursing program, or during the quarter in which they are listed

BBCC Certificate of Accomplishment Nursing Assistant Program (One Quarter)

Successful completion of the one-quarter program prepares students to take the Washington State Certification Examination. Successful completion of the examination is required to be a Nursing Assistant – Certified (NAC). This program is approved by Washington State Department of Social and Health Services Aging and Disability Services Administration and the Washington State Nursing Care Quality Assurance Commission. Certified Nursing Assistants work in community, long-term, and

[†] MATH& 146 (Introduction to Statistics) is strongly recommended.

acute care settings. NAC certification is a requirement for application into the Nursing Program.

NUR 100 Nursing Assistant9

Philosophy

Dennis Knepp 509.793.2190 email: Philosophy@bigbend.edu

Associate in Arts and Science Transfer Option

A philosophy major may seek employment as a post-secondary teacher, a minister, or might plan to obtain a graduate degree in a profession such as law, for which a background in philosophy is often recommended. Philosophy, literally the "love of knowledge," is the parent of all other academic disciplines. One of philosophy's aims is to provide a way to see all knowledge as a whole in order to arrive at insights none of the other disciplines can achieve. Another of philosophy's functions is to seek answers to problems in its own specialties such as ethics and logic. Philosophy's concern is to deal with perplexing questions, which no other discipline can cope with, that people have been asking for thousands of years.

Since programs differ at each college, students who intend to transfer should consult program outlines published by the college or university. The following recommended courses prepare students for most baccalaureate institutions. Students should prepare their quarterly schedules with the assistance of an advisor knowledgeable in this transfer area.

Recommended Pre-Major Courses Credit				
ANTH&	100	Survey of Anthropology	5	
HIST&	116	Western Civilization I	5	
PHIL&	101	Intro to Philosophy	5	
PHIL&	120	Symbolic Logic	5	
PHIL	210	Ethics	5	
PHIL	230	East Indian Philosophy	5	
PHIL	240	Philosophy of Religion	5	
PSYC&	100	General Psychology	5	
REL	201	World Religions	5	

Physical Education

email: PE@bigbend.edu

The physical education department outlines suggestions for students pursuing careers in the field of physical education, coaching and related activities. The P.E. major consists of a field of study in physical performance and human health.

Recommended Pre-major Courses:

Ten to 15 PEH non-activity credits and four to six credits PEH activity credits chosen with assistance of advisor.

Credits

BIOL&	100	Survey of Biology	5
	or		
BIOL&	211	Majors Cellular	5
BIOL&	241	Human A & P 1	5
BIOL&	242	Human A & P 2	5
NUTR&	101	Nutrition	5
PEH	100	Lifetime Wellness	3
PEH	102	Theory of Basketball	3
PEH	104	Theory of Women's Basketball	3
PEH	105	Theory of Baseball	3
PEH	107	Theory of Volleyball	3
PEH	114	Basketball	1
PEH	119	Softball	1
PEH	122	Volleyball	1
PEH	153	Lifeguard Training	2
PEH	158	Racquetball	1
PEH	178	Principles of Fitness	3

Physics

Jim Hamm

509.793.2147

email: phy@bigbend.edu

Associate in Science Degree

The purpose of the degree is to allow the student who plans to complete a bachelor of science degree in chemistry, computer science, engineering or physics the opportunity to make substantial progress toward fulfilling major requirements while completing at least half of the liberal arts, or general requirements, in studies such as English, the humanities and the social sciences. Ideally, the student holding the AS degree would have approximately three years of full-time study remaining at the baccalaureate institution—this reflects the nature of many bachelor of science degrees, which require extensive study and frequently take five full-time years or more to complete. If any pre-college study is required (generally, courses numbered below 100), additional time will be required.

The degree is accepted by many baccalaureate institutions in the state of Washington. The degree does not guarantee that any major requirements will be fulfilled. While BBCC faculty advisors consult with students to help them plan effectively, the ultimate responsibility to plan rests with the student. The college recommends that the student identify one or two potential transfer institution and then contact qualified program advisors at those institutions as early as possible to obtain specific, course-by-course advice. Throughout one's enrollment at BBCC, the program advisors at the BIs should be consulted. A BBCC advisor or the office of admissions at the transfer institution can help the student to contact these advisors.

Associate in Arts and Science Transfer Option

Physics is the study of nature at its most fundamental level. It is the science upon whose principles all other sciences and technologies are based.

Courses offered are designed to introduce the student to each of the major physical theories — Newtonian mechanics, thermodynamics, waves, sound, optics, electricity, and magnetism. There may also be an exposure to special relativity and quantum theory. The student tests the theories in the laboratory, learning some of the standard experimental techniques needed to work with modern apparatus such as computers and various electronic devices.

The curriculum is designed to prepare students transferring to a four-year college or university with majors in the following: chemistry, mathematics, physics, engineering, computer science, and related physics fields.

Since programs differ at each college, students who intend to transfer should consult program outlines published by the college or university. The following recommended courses prepare students for most baccalaureate institutions. Students should prepare their quarterly schedules with the assistance of an advisor knowledgeable in this transfer area.

Recommended Pre-Major Courses Credits					
CHEM&	161	General Chem w/Lab I	5		
CHEM&	162	General Chem w/Lab II	5		
CHEM&	163	General Chem w/Lab III	5		
MATH&	151	Calculus I	5		
MATH&	152	Calculus II	5		
MATH&	163	Calculus 3	5		
MATH	220	Linear Algebra	5		
MATH	230	Differential Equations	5		
MATH&	254	Calculus IV	5		
PHYS&	221	Engineering Physics I w/Lab	5		
PHYS&	222	Engineering Physics II w/Lab	5		
PHYS&	223	Engineering Physics III w/Lab	5		

Political Science

Chris Riley 509.793.2184

email: chrisr@bigbend.edu

Jody Quitadamo 509-793-2177 email: jodyg@bigbend.edu

Associate in Arts and Science Transfer Option

Political science undertakes the study of government and politics as it affects human affairs. It takes into account political conditions in America as well as in diverse areas of the world. As a discipline of study, political science is an important part of a general liberal arts education. Students who plan to major in political science may prepare for a number of careers, including public school teaching, government service, law, international business, or professional political scientist.

Since programs differ at each college, students who intend to transfer should consult program outlines published by the college or university. The following recommended courses prepare students for most baccalaure-

ate institutions. Students should prepare their quarterly schedules with the assistance of an advisor knowledgeable in this transfer area.

Recomm	Credits		
CJ&	110	Criminal Law	5
ENGL&	101	English Composition I	5
HIST&	136	US History 1	5
HIST&	137	US History 2	5
MATH&	146	Introduction to Statistics	5
PHIL&	101	Intro to Philosophy	5
PHIL&	210	Ethics	5
POLS&	202	American Government	5
POLS&	203	International Relations	5

Psychology

 Ryann Leonard
 509.793.2183

 David Holliway
 509.793.2179

email: psy@bigbend.edu

Associate in Arts and Science Transfer Option

Psychology is a branch of science which seeks to describe and understand normal and abnormal human behavior. Students interested in psychology as a professional career usually spend several years beyond their bachelor's degree in graduate training to prepare themselves for such roles as psychotherapists, teachers of psychology, researchers, or industrial psychologists.

Since programs differ at each college, students should consult program outlines published by the college or university to which they intend to transfer. The following recommended courses prepare students for most baccalaureate institutions. Students should prepare their quarterly schedules with the assistance of an advisor knowledgeable in this transfer area.

Recomm	nende	ed Pre-Major Courses	Credits
CMST&	220	Public Speaking	5
ENGL&	101	English Composition I	5
ENGL&	102	Composition II	5
PHIL&	120	Symbolic Logic	5
PSYC&	100	General Psychology	5
PSYC&	200	Lifespan Psychology	5
PSYC	225	Psychology and the Legal System	ı 5
SOC&	101	Intro to Sociology	5
SOC&	201	Social Problems	5
SOC	220	Marriage and the Family	5

Religious Studies

Dennis Knepp 509.793.2190 email: Religion@bigbend.edu

Associate in Arts and Science Transfer Option

A person majoring in religious studies might be preparing to be a member of the clergy, a church lay leader, or a teacher of religious studies. The purpose of religious studies is to seek to understand religion as an intellectual, historical, and cultural phenomenon. Big Bend's religious studies courses are designed to acquaint students with what members of various religions believe and why they believe what they do. Particular emphasis is placed on the basis for the major similarities and differences among religions and between denominations within religions.

Since programs differ at each college, students who intend to transfer should consult program outlines published by the college or university. The following recommended courses prepare students for most baccalaureate institutions. Students should prepare their quarterly schedules with the assistance of an advisor knowledgeable in this transfer area.

Recomm	Credits		
ANTH&	100	Survey of Anthropology	5
HIST&	116	Western Civilization I	5
HIST&	117	Western Civilization II	5
HUM	110	Greek Mythology	5
PHIL&	101	Intro to Philosophy	5
PHIL	240	Philosophy of Religion	5
PSYC&	100	General Psychology	5
REL	201	World Religions	5
REL	211	Religion in America	5
SOC&	101	Intro to Sociology	5

SIM Tech

(see Medical Simulation Technicianpg. 67-68)

Sociology

David Holliway

509.793.2179

email: davidho@bigbend.edu

Associate in Arts and Science Transfer Option

Sociology is the scientific study of human groups and their social systems. Sociology includes the study of the North American system of marriage and family and the major social problems facing our society and the world. Sociology is a valuable major not only for students planning careers in social research, criminal justice, demography, social work, and education, but also for those pursuing a course of study in public administration, law, market research, gerontology, and drug and alcohol rehabilitation programs. Although a two-year degree in this field can aid employment in the human service field, students should be prepared to go for their bachelor's degree in sociology or social work at a four-year institu-

tion.

Since programs differ at each college, students who intend to transfer should consider program outlines in the catalog of the college or university which they plan to attend. The following recommended courses will prepare students for most four-year colleges. Students should prepare their quarterly schedules with the assistance of an advisor knowledgeable in this transfer area.

Recommended Pre-Major Courses Credits				
PSYC&	100	General Psychology	5	
SOC&	101	Intro to Sociology	5	
SOC&	201	Social Problems	5	
SOC	220	Marriage and the Family	5	
Recomn	nende	ed General Education Courses		
CJ&	101	Intro Criminal Justice		
ECON	200	Introduction to Economics	5	
HIST&	118	Western Civilization III	5	
HIST&	136	US History 1	5	
HIST&	137	US History 2	5	
HUM	214	Diversity Issues: Race, Class		
		and Gender	5	
MATH&	146	Introduction to Statistics	5	
POLS&	202	American Government	5	
POLS&	203	International Relations	5	
REL	201	World Religions	5	
REL	211	Religion in America		

Social Welfare Associate in Arts and Science Transfer Option

Social welfare is a course of study about our society's response to human need. This program is designed to enhance student awareness and understanding of the fields of social welfare and social work and their response to this human need. Social welfare is a valuable major for those seeking careers in such fields as services to families, health care, mental health, corrections, gerontology, law, drug and alcohol rehabilitation, vocational rehabilitation, the clergy, and industry. Although a two-year degree with emphasis in this area may aid employment in the social welfare system, students should be prepared to continue their education through a bachelor's degree in social work at a four-year institution.

Since programs differ at each college, students who intend to transfer should consult program outlines in the catalog of the college or university, which they plan to attend. The following recommended courses prepare students for most baccalaureate institutions. Students should prepare their quarterly schedules with the assistance of an advisor knowledgeable in the transfer area.

Recommended Pre-Major Courses

CJ&	101	Intro Criminal Justice	5
PSYC&	100	General Psychology	5
SOC&	101	Intro to Sociology	5

SOC&	201	Social Probler	ns5	BUS	120	Human Relations on the Job
SOC	220		the Family5	CMST	100	
SOCW	110		Social Work5	ENGL	109	Applied Technical Writing
				FAD	150	Industrial First Aid
Related General Education Courses			MAP	101	Applied Mathematics (AUT/WLD)	
ENGL&	101	English Comp	osition 15			
ENGL&			ting5			First Year
HIST&	136	US History 1	5			Fall Quarter
HIST&	137		5	MAP	101	Applied Mathematics (AUT/WLD) ** 5
HUM	214		es: Culture and Literature . 5	WLD	110	Welding Theory I5
POLS&			rernment5	WLD	111	Welding Process I*6
PSYC&	200	Lifespan Psyc	hology5	WLD	112	Thermal Cutting and Welding*3
				WLD	151	Technical Drawings Interpretation 3
		Weld	ling			Winter Quarter
Clin	nt Gill	bert	509.793.2268		150	
		IcDaniel	509.793.2262	FAD WLD	150	Industrial First Aid**
Sila	IVVII IV			WLD		Welding Process II
		email:	wld@bigbend.edu	WLD		Gas Metal Arc Welding I
	As	sociate in Ap	plied Science	WLD		Welding Layout I
		=	hnical Program			Spring Quarter
		(90 credits	_	WLD	120	Welding Theory III5
The W	eldina	•	ogram is designed for	WLD		Welding Process III
			cal knowledge and skills	WLD	132	
•		•	welding, fabrication, and	WLD		Welding Layout II
•			es may qualify for positions			
			ry fabrication, structural			Second Year
fabrication	on, pip	e fabrication, p	lant maintenance, and	Fall Quarter		
			ire welding skills. Students	Structural Welding Option		
		•	the program will gain	ENGL		Applied Technical Writing**3
		-	try-level employment. The	WLD		Weld Test Methods4
	•		vill focus on advanced skills	WLD	212	
		lications in spe	cially areas. two-year program of study	WLD		Structural Weld Process I6
			plied Science degree in			
•			emphasis in structural weld-		Р	roduction Welding Option
_		0,	ling or pipe welding. The	ENGL	109	Applied Technical Writing**3
-			f achievement is available	WLD	205	Weld Test Methods4
for stude	ents w	ho do not wish	to complete a two-year	WLD	212	Gas Metal Arc Welding II3
			cate that there are jobs	WLD	261	Production Weld Process I6
available for students who complete either the certificate					Din - Waldin - Outlan	
or the AAS degree. Interested students must work out their individual programs with a department advisor.					Pipe Welding Option	
				ENGL		Applied Technical Writing**
This program has been designed to allow students to		WLD		Weld Test Methods4		
enroll at the beginning of each quarter. Students entering			WLD		Gas Metal Arc Welding II	
the program will progress sequentially through the lab classes; lecture classes are offered during scheduled			WLD	281	Pipe Welding I6	
quarters		are 0				Winter Quarter
4					c	Structural Welding Option
Related instruction required for an				CMST		Human Communications4
Ass	socia	te in Applied	Science degree and	CIVIST	100	riuman Communications4
	_			1		

Certificate of Achievement

WLD WLD WLD	206 242 243	Welding Codes and Standards
	P	roduction Welding Option
CMST WLD WLD WLD		Human Communications**
		Pipe Welding Option
CMST WLD WLD WLD	100 206 282 283	Human Communications**
	•	Spring Quarter
		tructural Welding Option
BUS WLD WLD WLD	120 207 244 245	Human Relations on the Job**
Production	n We	elding Option
BUS		Human Relations on the Job**4
WLD	207	
		Adverse and Mald December
WLD	264	Advanced Weld Process3
WLD WLD	264 265	Production Weld Process III6
WLD	265	Production Weld Process III6
	265	Production Weld Process III6 Option Human Relations on the Job**4
WLD Pipe Wel BUS WLD	265 ding (120 207	Production Weld Process III6 Option Human Relations on the Job**4 Welding Metallurgy4
WLD Pipe Wel BUS WLD WLD	265 ding (120 207 284	Production Weld Process III
WLD Pipe Wel BUS WLD	265 ding (120 207	Production Weld Process III6 Option Human Relations on the Job**4 Welding Metallurgy4
WLD Pipe Wel BUS WLD WLD	265 ding (120 207 284	Production Weld Process III
WLD Pipe Wel BUS WLD WLD WLD Studer	265 ding (120 207 284 285	Production Weld Process III
WLD Pipe Wel BUS WLD WLD WLD Studer enrolling	265 ding (120 207 284 285 ats mu	Production Weld Process III
Pipe Wel BUS WLD WLD WLD Studer enrolling WLD	265 ding (120 207 284 285 ats mu in Wo	Production Weld Process III
Pipe Wel BUS WLD WLD WLD Studer enrolling WLD WLD	265 ding (120 207 284 285 ats mu in Wo 190 290	Production Weld Process III
Pipe Wel BUS WLD WLD WLD Studer enrolling WLD	265 ding (120 207 284 285 nts mu in Wo 190 290 295	Production Weld Process III
Pipe Wel BUS WLD WLD WLD Studer enrolling WLD WLD WLD WLD	265 ding (120 207 284 285 ats mts mu in Wo 190 290 295 297	Production Weld Process III
Pipe Wel BUS WLD WLD WLD Studer enrolling WLD WLD WLD WLD WLD WLD	265 ding (120 207 284 285) ats mu in Wo 290 295 297 at Prep; Skill	Production Weld Process III
Pipe Wel BUS WLD WLD WLD Studer enrolling WLD WLD WLD WLD WLD WLD	265 ding (120 207 284 285) ats mu in Wo 290 295 297 at Prep; Skill	Production Weld Process III

Certificate of Achievement

The Certificate of Achievement is designed to provide recognition for the student who does not plan to com-

plete an Associate in Applied Science degree program. This certificate includes related instruction (listed below) and a minimum of 45 credits in the program.

Welding Technology (55 credits)

BUS	120	Human Relations on the Job**	4		
CMST	100	Human Communications**	4		
ENGL	109	Applied Technical Writing**	.3		
FAD	150	Industrial First Aid **	.2		
MAP	101	Technical Math (AUT/WLD)*	5		
WLD	110	Welding Theory I	5		
WLD	111	Welding Process I*	.6		
WLD	112	Thermal Cutting and Welding*	.3		
WLD	120	Welding Theory II	.5		
WLD	121	Welding Process II	6		
WLD	122	Gas Metal Arc Welding I	.3		
WLD	132	Gas Tungsten Arc Welding I (TIG)	3		
WLD	151	Technical Drawings Interpretation	3		
WLD	152	Welding Layout I	.3		
*T	*Table Duan anadit available				

^{*}Tech Prep credit available

Certificate of Accomplishment (37 credits)

The Certificate of Accomplishment is designed to provide recognition of completion of certain approved courses or modules of courses offered through a particular technical program. This certification is designed for the occasional and or part-time student who does not plan to complete an AAS degree or a Certificate of Achievement.

BBCC upon request by application, may issue a Certificate of Accomplishment upon successful completion of the following approved modules with an earned minimum grade of 2.0 for each course. Individual or substitute courses may be certified upon approval by the WLD program advisor.

WLD	110	Welding Theory I	5
WLD		Welding Process I*	
WLD		Thermal Cutting and Welding*	
WLD	120	Welding Theory II	5
WLD	121	Welding Process II	6
WLD	122	Gas Metal Arc Welding I	3
WLD	132	Gas Tungsten Arc Welding I (TIG)	3
WLD	151	Technical Drawings Interpretation	3
WLD	152	Welding Layout I	3

^{*}Tech Prep credit available

^{**}Related instruction course

Course Descriptions

This section includes descriptions of frequently offered BBCC courses. The office of Instructional Services maintains a complete Master Course Outline file for all officially documented BBCC courses.

Common Course Numbering

In an effort to ease student transfer between Washington community and technical colleges the colleges, as directed by the presidents, developed a common course numbering system. Courses that are common across the community and technical college system have the same course prefix, number and title. The prefix on common courses includes the "&" at the end, e.g. ENGL&. Please note that because a class does not have the "&" it does not mean that the class does not transfer. Students needing a sequence of science classes for their major, e.g. BIOL& 241 and 242, are advised to complete the entire sequence at Big Bend. Individual classes within a sequence will not always transfer as easily as they do when all are taken at one college.

Accounting

ACCT 105 Introduction to Accounting 5 (55/0)

This course provides the student with an introductory level understanding of the fundamentals of bookkeeping and accounting. The student is provided the procedures for completing the accounting cycle for both a service entity and a merchandising entity within a single proprietorship. Tech Prep credit available.

ACCT& 201 Prin of Accounting I 5 (55/0)

An introduction to the steps in the accounting cycle; accounting for merchandise; the adjusting process-deferrals and accruals; financial statements; cash transactions; receivables, inventories and internal controls. This course is the first in a three-course series designed for all accounting and business majors. Prerequisite: ACCT 105 recommended SE

ACCT& 202 Prin of Accounting II

(55/0)

An introduction to the accounting for fixed assets and depreciation, intangible assets, current liabilities, corporations, partnerships, long-term liabilities, statement of cash flows, and financial statement analysis. This course is the second in a three-course series designed for all accounting and business majors. Prerequisite: ACCT& 201 SE

ACCT& 203 Prin of Accounting III 5 (55/0)

An introduction to managerial accounting concepts and principles, job order and process cost systems, cost-volume-profit analysis, budgeting, variances and standard costs, performance analysis for decentralized operations; differential analysis; product pricing; and capital investment analysis. This course is the third in a three-course series designed for all accounting and business majors. Prerequisite: ACCT& 202 SE

ACCT 233 Intro to Payroll Taxes 2 (22/0)

This course offers an introduction to the proper calculation, payment, and reporting of payroll taxes incurred by businesses. The preparation of required tax returns and the various reporting periods to government agencies will also be discussed. This course is designed for the student with little or no prior experience in payroll taxes. Prerequisite: ACCT& 201 OR prior business or accounting experience recommended

ACCT 260 Computer Accounting 3 (11/44)

A presentation of Windows based accounting techniques used in a service business and a merchandising business. Also presented is the proper use of a voucher system, departmental accounting, partnership accounting, corporate accounting, financial statement analysis, fixed assets, inventory, payroll, and accounting system setup. Prerequisite: ACCT& 202

ACCT 262 Introduction to QuickBooks®

2 (11/22)

This course offers an introduction to QuickBooks®, the nation's leading accounting software package for small businesses. Basic functions and capabilities of the software will be reviewed in a hands-on environment. This course is designed for the student with little or no prior experience with QuickBooks®. Prerequisite: To enhance the learning experience, it is recommended that the student complete ACCT&201 OR have prior experience in business or accounting.

Adult Basic Education: Developmental Studies

Adult Basic Skills

Adult Basic Education (ABE) and English as a Second Language (ESL) courses are for learners who are sixteen years and older. Learners are encouraged to create learning plans and establish goals related to their roles as workers, citizens, and family members. Learners may enroll in courses anytime during the quarter. Dates and times for classes are available in the quarterly class schedule. For more information, call the Basic Skills Director at 793.2305.

DVS 011 Basic Skills Review

The main goal of this course is to assist students to improve their reading/writing, math, listening/speaking and employability skills in order to earn a high school diploma or pass the official GED tests. To enroll in the Basic Skills Program, students must be at least 16 years old. For the HS21 program, students must be 21 years old or older. Prerequisite: This course is designed for students with a CASAS score below 235 in reading and/or math. (Formerly: DVS 011, 012, 013, 014, 020, 021)

DVS 012 Adult Secondary Education I

The main goal of this course is to assist students to improve their reading/writing, math, listening and employability skills in order to earn a high school diploma or to pass the Official GED tests (to enroll in the Basic Skills Program, students must be at least 16 years old). For HS21 students, this course is designed for students studying for the second half of their HS21 diploma. Prerequisite: This course is designed for students who, at intake, have credits placing them at 11th or 12th grade (earned more than half their credits for graduation) and/ or for second language students score 236-245 on CASAS Reading and Math tests. (Formerly: DVS 011, 012, 013, 014, 020, 021)

DVS 013 Adult Secondary Education II

The main goal of this course is to assist students to improve their reading/writing, math, listening and employability skills in order to earn a high school diploma or to pass the Official GED tests (to enroll in the Basic Skills Program, students must be at least 16 years old). For HS21 students, this course is designed for students studying for the second half of their HS21 diploma. Prerequisite: This course is designed for students who, at intake, have credits placing them at 11th or 12th grade (earned more than half their credits for graduation) and/ or for second language students score 246-255 on CASAS Reading and Math tests. (Formerly: DVS 011, 012, 013, 014, 020, 021)

DVS 014 Adult Basic Skills

The main goal of this course is to assist students to improve their reading, writing, listening, employability skills, and math skills in order to advance to the next NRS Educational Functional level as determined by the CASAS Levels and to obtain knowledge and skills necessary for college and career readiness Prerequisite: This course is designed for students with a CASAS score below 246 in reading and/or math. (Formerly: DVS 011, 012, 013, 014, 020, 021)

DVS 031 Beginning English Language Acquisition

This basic skills level course is for students whose first language is not English. Participants study speaking, listening, reading, writing, employability skills, and mathematics in English, so they may perform a variety of basic tasks requiring communication at work, at home, and in their community. Students must be at least sixteen years old to enroll in the Basic Skills Program or 21 years old or older to enroll in the HS21 program. Prerequisite: This course is designed for students with a CASAS score below 190 in reading and/or below 189 in listening (Formerly DVS 030,031,032,034,035,037)

DVS 032 Intermediate English Language Acquisition

This basic skills level course is for students whose first language is not English. Participants study speaking, listening, reading, writing, employability skills, and mathematics in English, so they may perform a variety of basic tasks requiring communication at work, at home, and in their community. Students must be at least sixteen years old to enroll in the Basic Skills Program or 21 years old or older to enroll in the HS21 program. Prerequisite: This course is designed for students with a CASAS score between 191-210 in reading and/or between 190-209 listening (Formerly DVS 030,031,032,034,035,037)

DVS 033 Advanced English Language Acquisition

This basic skills level course is for students whose first language is not English. Participants study speaking, listening, reading, writing, employability skills, and mathematics in English, so they may perform a variety of basic tasks requiring communication at work, at home, and in their community. Students must be at least sixteen years old to enroll in the Basic Skills Program or 21 years old or older to enroll in the HS21 program. Prerequisite: This course is designed for students with a CASAS score between 211-235 in reading and/or between 210-227 in listening(Formerly DVS 030,031,032,034,035,037)

DVS 036 English Language Acquisition/Citizenship

This basic skills level course is if for students whose first language is not English and who are preparing for the United States naturalization examination. Participants study speaking, listening, reading, writing and arithmetic

in English using U. S. history, government and citizenship themes. Individuals may enroll in the course at any time during the quarter.

DVS 080 College Transitions Math

Review and instruction in whole numbers, decimals, fractions, geometry, and integers. Learn strategies to deal with math anxiety and test taking. Students should note this course does not count towards credit total for financial aid eligibility. Prerequisite: Placement exam or instructor permission. (Formerly: MATH 080)

Agriculture

AGR 101 Orientation to Agricultural Industries & Careers 2 (22/0)

This course will explore the Columbia Basin's agricultural industries along with the career opportunities available within the industries. This course includes industry tours, career research & planning, personal & professional development, and networking.

AGR 120 Intro to Precision Agriculture 5 (55/0)

This course provides an overview of the fundamentals of precision agriculture. Specifically covering Global Positioning Systems (GPS), Geographic Information Systems (GIS), remote sensing, data analysis, mapping, and variable rate agriculture technologies. Course concepts will be applied and reinforced through laboratory instruction.

AGR 130 Introduction to Global Positioning Systems (GPS) 5 (33/44)

This course introduces students to the application of Global Positioning Systems (GPS) and Geographic Information Systems (GIS) in agriculture and natural resource management. The course will focus on identification and delineation of specific areas emphasizing data collection, analysis, storage/retrieval of site and time-specific data for agriculture and natural resource management monitoring.

AGR 131 Advanced Global Positioning Systems (GPS) 5 (33/44)

This course covers the advanced application of Global Positioning Systems (GPS) and Geographic Information Systems (GIS) in agriculture and natural resource management. The course includes the advanced topics of data dictionaries, differential GPS and linking GPS to Geographic Information Systems. Prerequisite: AGR 130

AGR 212 Ag Safety and Pesticides 5 (55/0)

This course is an overview of safety in the agricultural industry by identifying safety hazards, applying procedures, analyzing safety rules and regulations. Emphasis will be placed on the relation to agricultural operations, technological changes, workplace violence, ethics, diversity, and personal/organizational responsibilities.

This course will also focus on agricultural chemical applications, proper pesticide and fertilizer use. Upon completion of this course, students will be prepared for their Washington State Commercial Applicator License Exams.

AGR 241 Farm and Ranch Management

5 (44/22)

Introduction to record keeping, economic concept application and analysis in the production agriculture business. Topics include goal setting, record process, budgeting cash flow, depreciation, profit/loss, ratios, enterprise and investment analysis, partial budgeting and computer/spreadsheet use.

AGR 251 Ecologically Based Pest Management 5 (55/0)

Classification, morphology, anatomy, growth and development, ecology and management of arthropod and pathogenic pests and noninfectious diseases of crop plants. Class emphasizes ecologically based pest management approaches.

AGR 261 Plant Science 5 (44/22)

Develop an understanding of basic plant morphology and physiology emphasizing horticultural science and fruit tree crops. Topics include form and function of plants, plant metabolism, plant growth and development, reproduction, techniques of fruit tree improvement and plant/environment interaction.

AGR 263 Soils 5 (44/22)

Introduction to basic concepts of soil science, plant nutrition, and water management. Topics include: soil formation and development, soil structure and composition, physical properties of soils, soils minerals, soil chemistry, soil fertility, soil microorganisms, soil ecology, fertilizers, plant, soil and water relationships and irrigation management.

AGR 271 Agriculture Sales and Marketing

5 (55/0)

Study of receiving, packing line/processing operation, grades, standards and quality control. Includes how these functions influence post-harvest production and marketing/sales decisions. Study and evaluation of market development potential for direct marketing and standard marketing channels. Study of the sales function and potential for value added agriculture products. Prerequisite: Microeconomics 201

AGR 272 Food Sustainable and Safety 5 (55/0)

Students will study the challenges and importance of sustainable and safe food production. Topics include history of agriculture, geography of hunger, the sustainability concept, agricultural systems, agroecology, biotechnology, and food safety.

AGR 295 Work-Based Learning-Internship

1-6 (33-198/0)

This course provides students with a valuable and practical work experience in Agriculture. Learned agriculture topics from Agriculture curriculum will be applied to and enhance the work experience. This is a paid or volunteer experience that is a supervised position both by the employer and the Agriculture instructor.

AGR 297 Work-Based Learning Seminar

(11/0)

This is a seminar course that covers topics related to Agriculture and its application to professional employment. Group discussion will be emphasized including current issues and trends.

Aircraft Rescue & Fire Fighting

FIR 101 Aircraft Rescue and Fire Fighting 40 Hour Basic 2.5 (24/16)

This 40 hour course covers fundamental training required by the FAA as described in FAR 139.319. The course includes fire fighting equipment, aircraft types, engines, systems, live fires, fire fighting operations, fire fighter safety, extinguishing agents, and disaster planning. Practical fire fighting involving flammable fuel, laddering/extraction and Self contained Breathing Apparatus using an actual aircraft. Students are provided with the opportunity to utilize state of the art technology, equipment and techniques. Instruction begins in the classroom and evolves in the practical training exercises on various aircraft related topics. This course will prepare a student to receive a certificate of completion from Big Bend Community College and the Federal Administration.

FIR 102 Aircraft Rescue and Fire Fighting – Truck Operations 1.5 (6/20)

This course is providing training and experience for students to properly operate a crash truck during an aircraft fire.

FIR 103 Aircraft Rescue and Fire Fighting Recurrent – Live Fire Training .5 (2/6)

This course offers fire fighters the opportunity to meet live fire requirements as specified in FAR 139.319, the FAA requirement that all rescue and fire fighting personnel participate in at least one live fire drill every 12 months. Prerequisite: Completion of Big Bend Community College's Basic 40 hour basic ARFF School OR meet all three equivalent training/experience criteria listed below.

- at least 4 years experience as a fire fighter
- at least 40 hours of initial and recurrent instruction per Part 139.319 Aircraft Rescue and Fire Fighting: Operational Requirements (j) Personnel.
- · participated in a least one live fire drill.

FIR 104 ARFF Officer Development 1 (8/8)

This airport rescue fire fighting officer development course covers strategic and tactical considerations in a hands-on, live-fire ground environment, as well as leadership training. Prerequisite: Current employment in firefighting industry for future or Commissioned Fire Officers.

Anthropology

ANTH& 100 Survey of Anthropology 5 (55/0)

An introduction to anthropology with a primary focus on cultural diversity of the human experience. The course surveys four subfields of Anthropology including sociobiology, anthropological linguistics, cultural anthropology, and applied anthropology. Major themes addressed throughout the course include cultural relativity, ethnocentrism, cultural change, the conflict between "foreign" anthropologist and "native" peoples, the role of anthropology in modern society, and anthropology as a "personal lens" of change. Students will complete a two part "field study", become familiar with The HRAF (human relations area file - a major electronic data base in Anthropology), and learn potential applications of becoming an anthropologist. Prerequisites: There are no prerequisites. Strongly recommended placement in Math 098 or higher and placement in English 099 of higher. SS

Art

ART& 100 Art Appreciation 5 (55/0)

Art is a visual language which artists use to record and interpret life experiences. The messages artists share are personal and social records. The ability to understand and appreciate visual art is a skill you can develop through observation and study and one you can utilize throughout your life. We will cover a general overview of artists' materials and techniques as well as historical context with lectures, slides, movies, and experiments with art media. Open to all students. HU

ART 101 Design I 5 (44/22)

Design I is an introduction to the study of the elements and principles of art that will be explored through various media in two dimensional problems. There will be projects addressing the specific elements of art: line, shape/ form, perspective, texture, value. Using these elements, the projects will also demonstrate the principles of organization: rhythm and repetition, balance, harmony-unity, movement, proportion, space, dominance. Design I, II, and III can be taken in any order HP

ART 102 Design II 5 (44/22)

An introduction to the study of color theory explored through projects. Design I, II, and III can be taken in any order. HP

ART 103 Design III

(44/22)

An introduction to the study of three dimensional design explored through various media in sculpture. Design I, II, and III can be taken in any order. HP

ART 104 Drawing I

(44/22)

An introduction to drawing based on observation, emphasizing composition, and form. This course is basic to all art practice courses and is an introduction to basic drawing techniques involving various media such as pencil, charcoal, color pastels, and ink. HP

ART 105 Drawing II

(44/22)

Drawing II is a continuation in the exploration of drawing with emphasis on technique and interpretation of ideas using various media. You will learn drawing techniques with various media and develop an individual artistic voice by introducing content (meaning or message) into drawings. Drawing I, II, and III can be taken out of sequence. HP

ART 106 Drawing III

(44/22)

An introduction to drawing from the figure using a live model. HP

ART 121 Ceramics I

2-5 (11-44/22)

Experiments and design in clay applied to pottery and sculpture. Work in various hand construction methods, glazing and kiln firing. HP

ART 122 Ceramics II

2-5 (11-44/22)

Ceramics II continues in experiments and design in clay applied to pottery and sculpture by throwing on the pottery wheel, glazing and kiln firing. Prerequisite: ART 121 or instructor permission. HP

ART 123 Ceramics III

2-5 (11-44/22)

Advanced experiments and design in clay applied to pottery and sculpture by working in various hand construction methods and in pottery wheel, glazing and kiln firing. Prerequisite: ART 121, 122 or instructor permission. HP

ART 198 Special Projects

1-5 (Arr/Arr)

Special projects in art - individual projects by special arrangement with instructor. Prerequisite: instructor permission HP

ART 212 American Art

(55/0)

Beginning with the era of the colonization of North America by European nations and ending with the 20th century, this course will trace the development of art in the United States. HU

ART 216 Western Art: Ancient to Medieval

(55/0)

A survey of the history of western art and architecture from ancient times to the medieval age. HU

ART 217 Western Art: Renaissance to Mid Nineteenth Century 5 (55/0)

A survey of the history of western art and architecture from Renaissance times to the mid nineteenth century. We will explore the art of Leonardo daVinci and Michelangelo to the beginnings of photography in the mid nineteenth century HU

ART 218 Western Art: Impressionism to Art After 1945 5 (55/0)

A A survey of the history of western art and architecture from late nineteenth century to contemporary times. Explore the work of the Impressionists like Monet and the Cubism of Picasso to the modern artwork of Jackson

ART 221 Watercolor I

Pollock, HU

1-5 (11-44/22)

The study of water color painting from still life and nature with an introduction to the materials and techniques of watercolor painting HP

ART 222 Watercolor II

1-5 (11-44/22)

A continuation of the study of water color painting from still life and nature with the materials and techniques of water color painting. Prerequisite: ART 221 or instructor permission HP

ART 223 Watercolor III

1-5 (11-44/22)

Advanced water color painting is an emphasis upon the student's artistic growth and the development of his or her own style and voice using watercolor techniques and materials. Prerequisite: ART 221 and 222 or instructor permission. HP

ART 230 Painting/Drawing Workshop

2-5 (22-44/22)

A workshop class designed to allow experimentation with 2D media such as pencil, charcoal, pastels, watercolor, acrylic paint. Prerequisite: None but studio class such as drawing or painting recommended HP

ART 231 Oil Painting I

(44/22)

Introduction to the materials and techniques of oil painting. Painting from still life and nature using creative compositions. HP

ART 232 Oil Painting II

(44/22)

Continuation of exploration in oil painting materials and techniques with an emphasis on developing content or message in the paintings. Prerequisite: ART 231 or instructor permission. HP

ART 233 Oil Painting III

5 (44/22)

(55/0)

Advanced oil painting is an emphasis upon the student's artistic growth and the development of his or her own style and voice using oil painting techniques and materials. Prerequisite: ART 231 and 232 or instructor permission. HP

Astronomy

ASTR& 100 Survey of Astronomy

A survey course intended for the non-science major. Topics studied will include most of the following: historical astronomy, electromagnetic radiation, telescopes, the Earth-Moon system, the solar system, the sun, stars, stellar evolution, galaxies, quasars, and cosmology. This is a non-lab science course. Credit not granted for both ASTR& 100 and ASTR& 101. Prerequisite: Math 098 or higher placement NS

ASTR& 101 Intro to Astronomy 5 (44/22)

A survey course intended for the non-science major. Topics studied will include most of the following: historical astronomy, electromagnetic radiation, telescopes, the Earth-Moon system, the solar system, the sun, stars, stellar evolution, galaxies, quasars and cosmology. The laboratory portion of the course may include optics, visual astronomical observing techniques, use of the telescope, spectroscopy, and distance measurement. Credit not granted for both ASTR& 100 and ASTR& 101. Prerequisite: Math 098 or higher placement LS

ASTR 105 Observational Astronomy 3 (28/12)

A descriptive overview of astronomy with particular emphasis on observation. Lectures will cover the solar system, the Earth-Moon system, stellar systems, celestial motion, the history of visual astronomy, optical aids, and observing techniques. This course is not intended to be part of a physical science pre-major. SE

Automotive Technology

AUT 069 Chassis Component Repair 2 (11/22)

Prerequisite/Corequisite: AUT 115 or instructor permission

A laboratory class providing the opportunity to diagnose and repair various automotive chassis components. A hands-on approach is used to provide training in the repair of various automotive components.

AUT 081 Mechanical Diagnosis and Repair

(11/22)

A laboratory class providing the opportunity to diagnose and repair various mechanical systems of the modern automobile. Prerequisite/Corequisite: AUT 115 or instructor permission

AUT 105 Automotive Personal Computer Applications 2

An introductory course covering the operation of personal computers using automotive applications. Hardware components, Windows Operating System, word processing, spreadsheets, and student created presentations will be covered emphasizing "hands-on" experience.. Prerequisite/Corequisite: Concurrent enrollment in automotive program classes

(11/22)

AUT 111 Automotive Engine Service 9 (66/66)

This course covers the theory of engine operation and the procedures necessary to perform automobile engine troubleshooting, repair and rebuilding. Topics covered include shop skills, engine operation, engine blocks, engine crankshafts, engine bearings, engine pistons, rings and valve system service. This course is designed to prepare the student for the ASE/NATEF Engine Repair Certification test. Prerequisite/Corequisite: AUT 115

AUT 115 Automotive Shop Safety and Environmental Issues 1 (10/2)

This course covers automotive shop safety rules, procedures, and shop equipment operation and is required before a student is allowed to work in the automotive laboratory. The proper handling, storage, and disposal of automotive related hazardous waste is also covered. Offered as regularly scheduled course during the fall quarter and offered by arrangement for students who enroll in the automotive program any other quarter.

AUT 121 Automotive Electrical and Electronic Systems 15 (110/110)

This comprehensive course covers both theory and operation of the electrical systems in today's high-tech vehicles. Topics covered include D.C. electrical theory, D.C. circuitry, Ohms Law, solid state components, batteries, starting circuits, charging circuits, lighting circuits, vehicle wiring and ignition systems. Emphasis will be placed on using modern electrical test equipment and procedures to diagnose and repair complex electrical systems. This course is designed to prepare the student for the ASE/NATEF Electrical Systems Certification test. Prerequisite/Corequisite: AUT 115

AUT 124 Brake System Service 9 (66/66)

This course covers the theory, operation, diagnosis and repair of both conventional and anti-lock brake systems. Topics covered are hydraulic operating systems, drum brake systems, disc brake systems, emergency/parking brake systems and brake machining operations. This course is designed to prepare the student for the ASE/NATEF Brakes Certification test.

Prerequisite/Corequisite: AUT 115

AUT 125 Suspension, Steering and Alignment

(66/66)

This course covers the theory, operation and repair of various automotive suspension and steering systems used in today's vehicles. Topics covered include steering types, suspension types, shock/strut service, tires/ wheels and suspension and steering component replacement. Students will use modern computerized alignment equipment to perform two wheel, four wheel and thrust type vehicle alignments. This course is designed to prepare the student for the ASE/NATEF Suspension and Steering Certification test.

Prerequisite/Corequisite: AUT 115

AUT 131 Manual Drive Train and Axles

(55/66)

This course covers the theory, operation, diagnosis and repair of automotive clutch systems, manual transmissions, manual transaxles, front and rear drive axle operation, various drive shaft configurations and the procedures necessary to perform power train troubleshooting and repair. This course is designed to prepare the student for the ASE/NATEF Manual Drive Train & Axles Certification test. Prerequisite/Corequisite: AUT 115

AUT 132 Hydraulic Systems 3 (22/22)

This course provides a student with the skills and knowledge necessary to maintain and service various hydraulic power transmission systems. Topics covered include hydraulic fundamentals, system operation, pump, valve and actuator service, as well as, seals, lines and hydraulic system components. Prerequisite: AUT 115

AUT 190, 290 Projects Laboratory 2 (0/44)

This course is for full-time automotive students who need extra project laboratory time to update or enhance their skills to meet program or certification requirements. Students will be directed to complete ASE/NATEF tasks not completed in the day classes. (May be repeated for credit up to six credits for each course; graded on pass/fail basis). Prerequisite: Concurrent enrollment in first or second year automotive program classes

AUT 211 Automobile Convenience Systems

2 (11/22)

This course covers the operation and repair of automotive convenience systems. Classroom and laboratory lessons include power windows, power seats, air bag system testing and servicing, as well as minor door, hood, window, and trunk adjustments. The procedure to perform a proper Pre-delivery Inspection (PDI) will be covered and Washington State auto repair laws and how they effect the repair technician will be discussed. Prerequisite: AUT 121

AUT 212 Automatic Transmission Repair

(66/66)

This course covers the theory, operation, service, and repair of various automatic transmission and transaxle assemblies. Classroom and laboratory instruction provide in-depth training using modern test equipment in the diagnosis and repair of these complex systems. This course will prepare students for the ASE/NATEF Automatic Transmission Repair Specialists test. Prerequisite: AUT 115, 121, 131, 132 or instructor permission

AUT 213 Automotive Servicing I 6 (0/132)

Students, at the direction of the instructor, work on customer vehicles applying skills learned in previous automotive classes. Students will be required to complete ASE/NATEF tasks not completed in other courses. Customer relations, repair order preparation, scheduling, estimating, utilization of shop space and equipment, and hazardous waste management are covered to provide students with an understanding of repair shop operations. Prerequisite: Instructor permission or completion of first year automotive classes

AUT 220 Engine Performance 18 (132/132)

This comprehensive course covers the theory and operation of various ignition systems, fuel delivery systems, emission controls, computerized engine controls, and the use of diagnostic test equipment. Classroom and laboratory lessons provide in-depth training using modern test equipment to diagnose and repair these complex systems. This course is designed to prepare students for the ASE/NATEF Engine Performance test. Prerequisite: AUT 115, 121, or instructor permission

AUT 223 Automotive Servicing II 6 (0/132)

Students, at the direction of the instructor, work on customer vehicles applying skills learned in previous automotive classes. Students will be required to complete ASE/NATEF tasks not completed in other courses. Customer relations, repair order preparation, scheduling, estimating, utilization of shop space and equipment, and hazardous waste management are covered to provide students with an understanding of repair shop operations. Prerequisite: Instructor permission or completion of first year automotive classes

AUT 231 Automotive Heating and Air Conditioning 6 (33/66)

This course covers the diagnosing, servicing and repair of modern vehicle heating and air conditioning systems. Classroom and laboratory lessons provide training and experience using modern refrigeration servicing and recycling equipment necessary to meet environmental regulations. CFC-12 and HFC-134A systems and equipment are utilized and retrofitting following Environmental Protection Agency guidelines is discussed. This course is designed to prepare the student for the ASE/NATEF

Heating and Air Conditioning test. Prerequisite: AUT 115, 121, or instructor permission

AUT 295 Workbased Learning 1-6 (33-198/0) A supervised work experience in the automotive technology field to enhance the application of classroom instruction and skills and/or area of specialization approved by the program instructor. May be repeated up to twelve (12) credits. Prerequisite: Instructor permission Corequisite: AUT 297

AUT 297 Workbased Learning Seminar 1 (11/0) Feedback and discussion to integrate and relate Work Based Learning and classroom based instruction. Work ethic, leadership, safety and occupational health, environmental issues, and other student generated topics are examined. May be repeated up to six (6) credits. Prerequisite: Instructor permission Corequisite: AUT 295

Aviation (Commercial Pilot/Flight)

AVF 111 Pre-Flight Ground School 1 (11/0) This course introduces the student to the aircraft, its flight manual, the basic federal aviation regulations, elementary principles of flight, aircraft operation, and BBCC flight rules. This course starts the week prior to the normal class starting date. All students accepted and alternates must attend this course. Pre-program counseling is done at this time, and flight training is started. Prerequisite: Accepted flight student status

AVF 112 Private Pilot Ground School 5 (55/0) This course prepares the student to take the FAA private pilot knowledge examination. It includes elementary navigation, weather, federal aviation regulations, NTSB reporting procedures, radio procedures, AIM, advisory circulars, operating limitations, aircraft performance, principles of aerodynamics, power plants and systems, stall and spin awareness, ADM and judgment, preflight action and planning. Prerequisite: AVF 111 or Chief Pilot permission

AVF 113 Meteorology 5 (55/0) This course is designed for pilots but is helpful for the non-aviation major to understand the basics of meteorology. A study in the nature of the atmosphere, winds, temperature, moisture, air masses and frontal systems, weather forecasting utilizing charts and reports available from FAA FSS's; incorporates techniques for flying in various weather conditions. Prerequisite: AVF 112 or

AVF 114 Theory of Flight 5 (55/0) This course covers basic aerodynamic theory of flight, aircraft instruments, performance, stability, control, airframe stress, structural limits, constant speed propellers, and turbo charging. Prerequisite: AVF 112

AVF 117 Aviation Emergency Preparedness & Response 1 (11/0)

Aviation Emergency Preparedness and Response is intended for Private and Commercial pilots; introduces emergency preparedness, survival, and rescue procedures common to general aviation.

AVF 141 Private Pilot Flight (Stage 1) 4 (44/0) Scheduled flight time, ground critique, discussions, and observation time; both dual and solo flights. Instrument flight training is integrated with all phases of flying. Includes simulator time.

AVF 142 Private Pilot Flight (Stage 2) 4 (44/0) Scheduled flight time, ground critique, discussions and observation time; both dual and solo flights. Instrument flight training is integrated with all phases of flying. Includes simulator time. Prerequisite: AVF 141

AVF 143 Private Pilot Flight (Stage 3) 4 (44/0) Scheduled flight time, ground critique, discussions and observation time; both dual and solo flights. Instrument flight training is integrated with all phases of flying. Includes simulator time. Prerequisite: AVF 142

AVF 190, 290 Flight (Alternate) 0-4 (5-44/0) Provides additional aircraft flight time to allow the student additional time to increase his/her skill or complete a course of study. Includes flight time and follow-up critique. Prerequisite: AVF 141

AVF 213 Advanced Meteorology 5 (55/0) This course is designed for aviation majors but it is help-

This course is designed for aviation majors but it is helpful for the non-aviation major to understand meteorology at a more advanced level. This course will cover the nature and utility of atmosphere, winds, temperature, moisture, air masses and frontal systems, weather forecasting utilizing charts and reports available from FAA and NWS. This course will incorporate techniques for flying in various weather conditions. Prerequisite: AVF 113 or Chief Pilot approval NS

AVF 221 Commercial Pilot Ground School 5 (55/0)

Preparation for the FAA commercial pilot knowledge test. Includes study of applicable FAR's, accident reporting requirements of the NTSB; basic aerodynamics and the principles of flight; meteorology and the use of weather reports and forecasts; safe and efficient operation of aircraft; weight and balance computations; use of performance charts, performance limitations; use of navigation facilities, ADM, judgment and CRM; principles and functions of aircraft systems; maneuvers, procedures and emergency operations; night and high-altitude operations; the National Airspace System. Prerequisite: AVF 113 & 114

Chief Pilot approval.

AVF 223 Instrument Ground School 5 (55/0) Preparation for FAA instrument knowledge examination, includes: FAR's that apply to IFR; appropriate sections of AIM; air traffic control system and procedures; IFR navigation systems and instruments; use of en route and instrument approach charts, aircraft operations under IFR; procurement and use of aviation weather reports and forecasts, recognition of critical weather situations and wind shear avoidance, ADM and judgment, and CRM. Prerequisite: AVF 113 and 114

AVF 225 Effective Communication in Flight Instruction 5 (55/0)

This course covers the required areas of instructor knowledge; and is designed to aid the student in passing the appropriate FAA knowledge tests. It includes the learning process and emphasizes elements of effective communication. Methods of teaching and communicating are studied and practiced, as well as how to evaluate and critique through written and oral processes. Includes practice in classroom, one-to-one, and team teaching. Prerequisite: AVF 221, 223 & 252, or Chief pilot approval

AVF 227 Aircraft Systems for Pilots 5 (55/0) Introduces the systems of complex aircraft: fuel, hydraulic, brake, control, ignition, and electrical systems; covers nomenclature, preventive maintenance, engines, propellers, and related publications.

AVF 251 Commercial Pilot Flight (Stage 4)

(44/0)

Scheduled flight time, ground critique, discussion and observation time, dual, solo, cross-country, and instrument, and complex aircraft time. Includes simulator time. Prerequisite: AVF 143

AVF 252 Commercial Pilot Flight (Stage 5)

(44/0)

Scheduled flight time, ground critique, discussion and observation time; dual, solo, cross-country, instrument, and complex aircraft time. Includes simulator time. Prerequisite: AVF 251

AVF 253 Commercial Pilot Flight (Stage 7)

(44/0)

Scheduled flight time, ground critique, discussion and observation time; dual, solo, and cross-country time. Includes 28 hours simulator time upon program completion. Prerequisite: AVF 261

AVF 254 Night Flying 1 (14/0)

Provides an introduction to night flying and advanced instruction in night navigation, procedures, orientation, landings, takeoffs and techniques necessary for safe operation of airplanes at night. Prerequisite: AVF 142

AVF 261 Instrument Flight (Stage 6) 4 (44/0) Provides training in instrument flight procedures in preparation for the airplane instrument rating; includes simulator training. Prerequisite: AVF 252

AVF 270 Flight Instructor 4 (44/0) Preparation for the Certified Flight Instructor rating; includes flight time and critique. Prerequisite: Commercial license and instrument rating and Chief Pilot approval.

AVF 271 Flight Instructor Instrument-Airplane 2 (22/0)

Provides the Flight Instructor applicant with the knowledge, skill and experience necessary to become an Instrument Instructor; includes flight time and critique. Prerequisite: Commercial/instrument license, CFI single engine license, 10 hours as CFI with FII written passed and Chief Pilot approval.

AVF 272 Seaplane Flight 2 (22/0)

A dual flight lab course designed to develop flight skills in water operations and procedures, along with flight maneuvers in preparation for the FAA Seaplane Rating; includes flight time and critique. Prerequisite: Commercial Pilot Certificate or Chief Pilot approval

AVF 275 Multi-Engine Flight 2 (22/0)
Preparation for the FAA Multi-Engine rating. Prerequisite:
Commercial Pilot Certificate and Chief Pilot approval

AVF 276 Simulator Training/Instrument Training 0.5-1 (5.5-11/0)

Designed to fit the individual and particular needs of each pilot in instrument training, refresher or FAA currency requirements. Prerequisite: Instructor approval.

AVF 291 Multi-Engine Instructor 2 (22/0)

Preparation for the FAA Multi-Engine Flight Instructor rating. Prerequisite: Commercial Airplane with instrument rating, multi-engine land ratings, flight instructor single engine

AVF 292 A.T.P.: Multi-Engine 1 (11/0) Prepares the student for FAA A.T.P. flight check. Prereq-

Prepares the student for FAA A.T.P. flight check. Prerequisite: Commercial/Instrument. M.E., 1500 hours, ATP knowledge test passed

AVF 295 Work-Based Learning 1-6 (0/0/33-198)

A supervised work experience in the aviation industry to enhance the application of classroom instruction and/ or flight skills. This is a paid or volunteer experience that is supervised by both the employer and the Aviation program. May be repeated up to 15 credits. Prerequisite: AVF 297, Work-Based Learning Seminar. Aviation program permission and any requirements of the contractual agreement, between BBCC and the employer.

AVF 297 Work-Based Learning Seminar

1 (11/0)

This course is taken in conjunction with AVF 295 (Work-Based Learning) and gives the student the opportunity and responsibility to report on their work experience and to analyze that experience for successes and for areas of improvement. May be repeated up to six (6) credits. Prerequisite: AVF 295 (Work-Based Learning)

Aviation Maintenance Technology

AMT 148 AMT General Electricity 2-7 (22-77/0) This course covers the theory of basic electricity and applied Physics. This course is FAA approved under 14 CFR Part 147. Prerequisite: Instructor permission

AMT 149 AMT Airframe Electricity 3 (33/0) This course covers aircraft electrical systems, electri-

This course covers aircraft electrical systems, electrical generators motors and regulators, aircraft communication and navigation systems. This course is FAA approved under 14 CFR Part 147. Prerequisite: Instructor permission

AMT 150 AMT General 4-16 (22-90/44-182)

This course will cover aviation applied physics, application of aircraft drawing, function of weight and balance control, operation and cleaning of aircraft, identification and application of aircraft materials. The use of maintenance forms and publications in the aviation industry. This course is approved under FAA Part 147. Prerequisite: Instructor permission

AMT 151 Airframe Mechanic I 4-22 (77-352/33-132)

This course will cover aircraft airframe structures, including wood, fabric and sheet metal, airframe inspection, application of finishes and assembly of fixed wing and rotary wing components and structures, balancing and rigging of airframe structures and components. This course is FAA approved under 14 CFR Part 147. Prerequisite: Instructor permission

AMT 152 Airframe Mechanic II 4-21 (22-119/44-264)

This course will cover aircraft airframe systems and components. To provide the skills in checking, overhaul, repairs, installation, removal, servicing, inspection, and troubleshooting of landing gear systems, hydraulic and pneumatic power systems, cabin atmosphere control systems, aircraft instruments, communication and navigation system lab, aircraft fuel systems, aircraft electrical systems, position and warning systems, ice and rain control systems, and fire protection systems. This course is approved under FAA Part 147. Prerequisite: Instructor permission

AMT 153 Airframe Mechanic III 4-24 (22-132/44-264)

As required by the Federal Aviation Administration, the airframe program is a minimum of 750 hr. of instruction with approximately 25% of the instruction in a class room environment and 75% of the instruction in a lab environment. AMT 153 is designed to allow students more time to achieve FAA required proficiency levels and to allow students to further their proficiency levels in aviation airframe related studies. This course will cover any area of the FAA required airframe curriculum that the student is deficient in, or if all required competencies have been met, the student may further their proficiency levels in any airframe related area of study. This course is FAA approved under 14 CFR Part 147. Prerequisite: AMT 150, 151, 152, MAP 100 and instructor permission.

AMT 249 AMT Powerplant Electricity 2 (22/0) This course covers the theory of engine electrical systems, electrical generators, alternators, motors and regulators. This course is FAA approved under 14 CFR Part 147. Prerequisite: Instructor permission

AMT	251 Powerplant Mechanics I	4-16
	·	(22-88/44-176)
AMT	252 Powerplant Mechanics II	4-14
	·	(22-66/44-176)
AMT	253 Powerplant Mechanics III	4-16 ´
	•	(22-88/44-176)

As required by the Federal Aviation Administration, the powerplant program is a minimum of 750 hr. of instruction with approximately 25% of the instruction in a classroom environment and 75% of the instruction in a lab environment. There is approximately 30 hours of extra time at the end of the powerplant program, which is to be used for make-up time or for further competency enhancement. This course is FAA approved under 14 CFR Part 147.

This course will cover two areas:

- (1) Powerplant theory and maintenance, including the inspection, repair, overhaul, service, troubleshooting, removal, and installation of aircraft reciprocating and turbine engines.
- (2) Powerplant systems and components, including the inspection, repair, overhaul, service, troubleshooting, removal, and installation of aircraft reciprocating and turbine engine instrument, fire protection, electrical, lubrication, ignition, starting, fuel metering, induction, airflow, cooling, exhaust, propellers, unducted fans, and auxiliary power unit systems. Prerequisite: Instructor permission

AMT 254 Powerplant Mechanic IV 4-16 (22-88/44-176)

As required by the Federal Aviation Administration, the Powerplant program is a minimum of 750 hr. of instruc-

tion with approximately 25% of the instruction in a classroom environment and 75% of the instruction in a lab environment. AMT 254 is designed to allow students more time to achieve FAA required proficiency levels and to allow students to further their proficiency levels in aviation. Powerplant related studies. This course will cover any area of the FAA required Powerplant curriculum that the student is deficient in, or if all required competencies have been met, the student may further their proficiency levels in any Powerplant related area of study. This course is FAA approved under 14 CFR Part 147. Prerequisite: AMT 251 and instructor permission

Biology

BIOL& 100 Survey of Biology 5 (44/22)

A study of basic biological principles common to living organisms, this course is intended for non-majors who desire a lab science requirement. Topics of study include: scientific thinking, basic chemistry, cell structure and membrane transport, energy and cell pathways, DNA and gene expression, chromosomes and cell division, genes and inheritance, and evolution and natural selection. Related investigations take place in a required two-hour lab period each week. There will be no required dissections in the laboratory. LS

BIOL 104 Core Concepts in Biology 2 (22/0)

A review of the biological principles common to living organisms, this course is intended for students planning to take BIOL& 211 who have some prior biology background but would like a review of the basic biology concepts. Topics of study include: basic chemistry, macromolecules, cell structure, membrane transport, energy and metabolism, DNA replication, gene expression, cell division, and genetics. Prerequisite: Any prior biology course, high school or college-level, is highly recommended. SE

BIOL& 170 Human Biology 5 (55/00)

This course offers a broad overview of the human body for the non-science major. Topics of study include: unifying biological principles such as basic cell chemistry, cell biology, and metabolism, as well as the biology of selected human systems. Issues related to human biology will also be examined. This course does not include a lab. NS

BIOL& 211 Majors Cellular 5 (44/22)

A single quarter of majors cellular biology, this course is intended for students pursuing careers in the allied health fields and satisfies the biology prerequisite for A&P 1 (BIOL& 241) and Microbiology (BIOL& 260). Topics of study include: structure and function of biological molecules, structure and function of prokaryotic and eukaryotic cells, membrane transport, energetics and cell metabolism, cell communication, chromosome structure

and replication, gene expression, cell division, classical genetics, and evolution. Math/Science distribution requirement may not include more than 5 credits from BIOL& 211 and BIOL& 222 although graduation credit can be awarded for both. Related investigations take place in a two-hour lab period each week. Prerequisite: A 2.0 or better in CHEM& 121 or CHEM& 161, or a B or better in high school chemistry within the last two years with instructor permission, AND a 2.0 or better in BIOL& 100 or BIOL 104, or a B or better in high school biology or AP biology within the last two years with instructor permission. LS

BIOL& 221 Majors Ecology/Evolution 5 (38.5/33)

The first quarter in a three-quarter general biology series, this series is designed for life-science majors, pre-professional students, and for students intending to take advanced courses in the biological sciences. Topics of study include: ecology including population, community, and ecosystem ecology; evolution including the origin and history of life, microevolution, macroevolution, and systematics; the diversity of life including bacteria, archaea, protists, plants, fungi, and animals. Related investigations take place in a three-hour lab period each week. NOTE: This majors' biology sequence may be taken in the following order: BIOL& 222, 223, and 221, with instructor's permission. Prerequisite: Successful completion of either CHEM& 121 or CHEM& 161 with a 2.0 or better or concurrent enrollment in CHEM& 121 or CHEM& 161, or instructor permission. Recent high school biology or BIOL& 100 strongly recommended. LS

BIOL& 222 Majors Cell/Molecular 5 (38.5/33)

The second quarter in a three-quarter general biology series, this series is designed for life-science majors, for pre-professional students, and for students intending to take advanced courses in the biological sciences. Topics of study include: structure and function of biological molecules, structure and function of prokaryotic and eukaryotic cells, membrane transport, energetics and cell metabolism, cell communication, chromosome structure and replication, gene expression, cell division, classical genetics, and developmental genetics. Math/Science distribution requirement may not include more than 5 credits from BIOL& 211 and BIOL& 222 although graduation credit can be awarded for both. Related investigations take place in a three-hour lab period each week. NOTE: This majors' biology sequence may be taken in the following order: BIOL& 222, 223, and 221, with instructor's permission. Prerequisite: Successful completion of BIOL& 221 with a 2.0 or better and successful completion of either CHEM& 121 or CHEM& 161 with a 2.0 or better, or instructor's permission. NOTE: Students taking only BIOL& 222 as an alternative to BIOL& 211 must have instructor permission and may satisfy the

CHEM& 121 prerequisite with recent high school chemistry with a B or better. LS

BIOL& 223 Majors Organismal Phys 5 (38.5/33) The third quarter in a three-quarter general biology series, this series is designed for life-science majors, pre-professional students, and for students intending to take advanced courses in the biological sciences. Topics of study include: animal and plant anatomy, physiology, and development. Related investigations take place in a three-hour lab period each week. Prerequisite: Successful completion of BIOL& 222 with a 2.0 or better and successful completion of either CHEM& 121 or CHEM& 161 with a 2.0 or better, or instructor's permission LS

BIOL& 241 Human A & P 1 5 (33/44)

An analysis of the structure and function of human skeletal, muscular, nervous and endocrine systems as well as the role of receptor-ligand interactions and introductory histology. Emphasis will be given to the homeostatic relationships between systems. Four hours of lab per week will be devoted to hands-on experience with required cat dissection as well as computer analysis of muscle physiology. Tissue slides, models and skeletons will be utilized. Lab is required for credit. Prerequisite: Students may qualify for BIOL& 241 in any one of the following ways:

- a grade of 2.0 or better in BIOL& 211 or BIOL& 222 and in CHEM& 121 or above, or a transcript from another college for those classes
- a year of high school anatomy & physiology and chemistry within the last 2 years with a grade of B or better
- a score of 3 or better in Advanced Placement Biology and a year of high school chemistry within the last 2 years with a B or better. Instructor permission LS

BIOL& 242 Human A & P 2 5 (33/44)

The second quarter of a two-quarter sequence. Includes the structure, function and pathology of the cardio-vascular, lymphatic, respiratory, digestive, urinary and reproductive systems. Emphasis will be given to the homeostatic relationships between systems. Four hours of lab per week will be devoted to human autopsy slides, required hands-on experience with cat and organ dissection, and experimental procedures in cardiovascular function, and computer analysis of renal function. Lab is required for credit. Prerequisite: A minimum grade of 2.0 in BIOL& 241 or equivalent or Instructor permission LS

BIOL& 260 Microbiology 5 (33/44)

A survey of microbes and their activities. Emphasis will be given to the areas of bacteriology, immunology and virology. Four hours of lab per week is required for credit. Labs will deal with the culture and identification of

organisms (including throat, stool, and viral cultures), as well as genetic transformation and ELISA testing for HIV. Prerequisite: Students may qualify for BIOL &260 in any one of the following ways:

- a grade of 2.0 or better in BIOL& 211 or BIOL& 222 and in CHEM& 121 or above, or on a college transcript
- a year of high school Anatomy & Physiology and Chemistry within the last 2 years with a grade of B or better
- a score of 3 or better in Advanced Placement Biology and a year of high school Chemistry within the last year with a B or better
- instructor permission LS

Botany

BOT 130 Botany 5 (44/22)

A study of the basic principles of plant life. Topics include: plant cells, tissues, and organs; plant physiology, transport, and reproduction; plant diversity and genetics, as well as a look at how society uses and relies on plants. Related investigations take place during two hours of lab each week. Laboratory topics reinforce classroom learning and include a study of plant structures and plant diversity. A greenhouse is available for class use during student plant propagation projects. LS

BOT 140 Field Botany 5 (33/44)

Field botany involves the identification and classification of local plants of the Columbia Basin area. Different biomes are studied with emphasis on the steppe and shrub-steppe vegetation common to this area. Students participate in seven field trips to collect native plants. Following field trips, students identify, press, dry, and mount collected plants in order to assemble a required plant collection. During laboratory sessions students learn to use a taxonomic key to identify and classify collected plants. NOTE: This is a field course with required field trips. Field trips often involve hiking over uneven terrain; students climb up slopes, both on and off trails to collect plant specimens. Any questions concerning these field trips may be directed to the instructor. LS

Business

BUS& 101 Intro to Business 5 (55/0)

An introductory analysis of the business world including aspects of finance, industrial stocks and bonds, commodities and foreign exchange, unions and the labor movement, managerial control, decision making, and personnel relations. SE

BUS 102 Business Mathematics 5 (55/0)

Applications of quantitative reasoning and logic in business through a study of banking, discounts, commissions, markup, promissory notes, interest, taxes, insurance, payroll, depreciation and financial statements. Prerequisite: Math 094 or placement in Math 098 or higher Tech Prep credit available

BUS 114 Business Ethics 5 (55/0)

This course studies and analyzes ethical issues facing the world of business and society today and identifies approaches available when dealing with or resolving complex ethical issues.

BUS 120 Human Relations on the Job 4 (44/0)

Practical application oriented study of interpersonal skills and attitudes necessary to work with others. Topics included are: maintaining professionalism, adapting/coping with change and stress, work ethics, motivation, conflict resolution, team work, diversity, and customer relations. Prerequisite: Placement in ENGL 099 or above

BUS 121 Business English 5 (55)

This Business English course is designed to prepare students for today's offices where clear and concise writing is based on a sound understanding of grammar and is considered to be an essential job skill. Prerequisite: ENGL 098 with a grade of 2.0 or above or higher placement

BUS 122 Business Communications 5 (55/0)

This course promotes the development of business communication skills which include reading, writing, listening, speaking, and interacting within groups. Special emphasis is given to the creation of day-to-day business documents Prerequisite: BUS 121 or ENGL& 101

BUS 130 Introduction to Hospitality 5 (55/0)

The students will learn the structure and operations of the three key sectors in the hospitality industry (food and beverage, lodging, and travel), the economic impact of the industry, and career options.

BUS 135 Fundamentals of Logistics, Transportation, and Supply Chain Management

1-3 (11-33/0)

This introductory course provides an overview of the fundamentals of commercial transportation, logistics, and supply chain management; an overview of the various operations and processes involved in efficient movement of cargo and impacts to the financial performance of business; and provides students with practical industry knowledge. Topics will include logistics and supply chain management, the physical side of materials management, inbound logistics and purchasing, physical distribution management, outbound logistics with regard to transportation, information technology systems, finance in logistics and supply chain management, and logistics and the supply chain in the global environment.

BUS 161 Business Calculators 2

Touch-control training on the ten-key electronic display/ printing calculator. Basic functions, development of proficiency with proration, percentage, interest, discount, present value, and profit computations. Prerequisite: Successful completion of MATH 094 or placement score into MATH 098 or above Tech Prep credit available.

(0/44)

BUS 170 Consumer Finance 5 (55/0)

This course offers and introduction to investigating, buying, and financing techniques for vehicles, consumer goods, insurance, and homes; consumer rights, responsibilities, and obligations; minimizing federal income tax; borrowing, saving, and investing.

BUS 200 Supervision 5 (55/0)

The student will look at management in organizations and the information, tools, qualities, and skills needed to successfully manage others while fostering a positive work environment and contributing to organizational success. Prerequisite: BUS 120

BUS& 201 Business Law 5 (55/0)

Introduction to Business Law. Fundamentals of those branches of law that relate closely to regular business transaction to include: Torts, contracts, agency, employment, property, bankruptcy, decedent's estates and trusts. SE

BUS 215 Customer Service 3 (33/0)

This course will provide the student with strategies and skills to effectively meet the needs of customers. The student will be introduced to internal and external customers, to customer satisfaction, to customer retention, and to customer service trends. Prerequisite: Basic computer skills strongly recommended

BUS 295 Work-Based Learning 1-6 (0/0/33-198)

A supervised work experience in a community agency or business involving the application of classroom information and skills. One credit for each 33 hours of supervised work-based learning. May be repeated up to 8 credits. Prerequisite: Instructor permission Corequisite: BUS 297

BUS 297 Work-Based Learning Seminar

(11/0)

A supervised work experience will be coordinated in management or office skills enhancing the application of classroom instruction and skills and/or area of specialization approved by the program instructor. The course may be repeated up to six (6) credits.

Business Information Management

(All BIM courses were formerly OFF)

BIM 100 Word Processing for Personal Use 1-3 (0/22-66)

This course gives a brief introduction to Microsoft Word. It is intended for students not majoring in the Business Information Management Program. Tech Prep credit available.

BIM 101 Basic Keyboarding 1-2 (0/22-44)

This course gives emphasis to learning the keyboard; namely, the alphabet, numbers, and symbols. This course is designed for the individual who has never taken a keyboarding class, who may want to renew keyboarding skills, or who wants to change keyboarding habits.

BIM 102 Document Formatting 1-4 (0/22-88)

This course gives primary emphasis to the formatting of business documents using Microsoft Word. Prerequisite: BIM 101 **or** Basic Keyboarding Skills Tech Prep credit available.

BIM 103 The Administrative Professional

(22/0)

This course is an introduction to the administrative professional career.

BIM 104 Intermediate Keyboarding 1-3 (0/22-66)

This course gives emphasis to improving keyboarding speed and accuracy. Prerequisite: BIM 101 or Basic Keyboarding Skills

BIM 106 Advance Keyboarding 1-3 (0/22-66)

This course gives emphasis to improving keyboarding speed and accuracy. Prerequisite: BIM 104

BIM 107 Intro to the Medical Office 2 (22/0)

The course will cover receptionist skills, making appointments and referrals, retrieving billing information, collection practices, consumer protection, bankruptcy laws, handling patient concerns and questions, and telephone and collection techniques for medical business office personnel. Prerequisite: HED 150, 151; introductory computing class or instructor permission. Formerly BIM 116

BIM 108 Introduction to Microsoft Applications 3 (33/0)

This course is an introduction to the Microsoft Office 2010 Suite. Students will learn the principles and underlying concepts of spreadsheets, databases, word processors, multimedia presentations, and browsers. This course is not intended for Business Information Management majors.

BIM 109 Internet Communications

1-3 0/22-66)

This course will introduce the functions of Outlook 2016 and other online communications and the fundamental use and sharing of online documents and data.

BIM 110 Microsoft Office Essentials

3 (0/66)

This course is an introduction to Microsoft Office Suite 2016. This course is not intended for Business Information Management majors. Credit cannot be earned in both BIM110 and BIM108.

BIM 111 Introduction to Computers in the Medical Office 1-3 (0/22-66)

This course covers the general flow of information in a medical office and the role that computers play. Students will learn how to use medical office software for activities such as entering data, billing, filing claims, scheduling, and printing reports. Prerequisite: Basis computer knowledge

BIM 112 Proof & Edit 1-3 (0/22-66)

This course gives students the opportunity to learn different proofreading techniques and then emphasizes practice using those techniques. Prerequisite: BIM 102, BUS 121

BIM 117 Medical Office Accounts Receivable 4 (44/0)

This is a basic class in managing the information required for billing medical insurance in clinic and hospital settings. This class will cover coding, specific form requirements, account aging, posting payments and adjustments to patient accounts, and medical coverage plans, including government plans. Issues related to overall medical business offices will also be part of the class, including correct patient billing and collection procedures. Prerequisite: BIM 107 (formerly BIM 116 or OFF 116)--Formerly BIM 114 & 115

BIM 124 Introduction to Spreadsheets with Microsoft Excel 3 (33/0)

This course is an introduction to spreadsheet applications using Excel 2013 Students will learn spreadsheet concepts, functions, graphing, and data management. An emphasis is placed on practical applications for business. This course is not intended for Business Information Management majors.

BIM 130 Filing 1-2 (0/22-44)

This course introduces basic filing rules for alphabetic, numeric, subject, and geographic filing.

BIM 173 Word Processing I 1-5 (0/22-110)

This course is an in-depth introduction to Microsoft Word. The focus is to learn functions of Word 2016, to apply these functions to business situations, and begin preparing students for the Microsoft Office Specialist exam. Tech Prep credit available. Prerequisite: BIM 102 or instructor permission .

BIM 177 Business Information Management Lab 1-6 (0/22-132)

This course allows individual study in one of the business information management subject areas. Study and credit hours determined at the time of enrollment by the instructor. Prerequisite: Instructor permission

BIM 180 Introduction to Microsoft Office

1-5 (0/22-110)

This course is an introduction to the basic functions of Microsoft Office 2016– Word, Excel, Access, PowerPoint, and Integration. This course is intended for Business Information Management and Accounting students. Prerequisite: BIM 102 and successful completion of MATH 094 or BBCC Placement Exam into MATH 098 or higher.

BIM 181 Introduction to Microsoft Word

-3 (0/22-66)

This course provides an introduction to Microsoft Word 2016. It is not intended for Business Information Management Program students.

BIM 182 Introduction to Microsoft Excel

1-3 (0/22-66)

This course provides an introduction to Microsoft Excel 2016. It is not intended for Business Information Management Program students. Prerequisite: Successful completion of Math 094 or placement into Math 098 or higher.

BIM 183 Introduction to Microsoft Access

1-3 (0/22-66)

This course provides an introduction to Microsoft Access 2016. It is not intended for Business Information Management Program students.

BIM 184 Introduction to Microsoft PowerPoint 1-3 (0/22-66)

This course provides an introduction to Microsoft PowerPoint 2016. It is not intended for Business Information Management Program students

BIM 185 Introduction to Microsoft Office: Integration 1 (0/22)

Students will learn the basic functions of Microsoft Integration. Tech Prep credit available.

BIM 190 Spreadsheets I

1-5 (0/22-110)

This course is an in-depth introduction to Microsoft Excel 2016. The focus is to learn functions of Excel, to apply this knowledge to business situations, and to begin preparing students for the Microsoft Office Specialist Expert exams. Prerequisite: Successful completion of BUS 102 - Business Mathematics, or successful completion of MATH 094 or BBCC Placement Exam into MATH 098 or higher.

BIM 194 Presentations 1-5 (0/22-110)

This is an in-depth Microsoft PowerPoint 2016 course. The focus of this course is to learn presentation functions, to apply this material to business situations, and to prepare students for the MOS Expert Exam.

BIM 195 Database Management 1-5 (0/22-110)

This course is an introduction to database concepts and to the integration of Access with other data.

BIM 198 Special Topics 1-5 (0/22-110)

This course provides individual study in one of the business information management subject areas. Study and credit hours determined at the time of enrollment by the instructor. Prerequisite: Instructor permission

BIM 210 Internet 1-2 (0/22-44)

This course is an introduction to the Internet, web browsers, search engines, and search techniques.

BIM 220 Desktop Publishing 1-5 (0/22-110)

This course is an introduction to designing, creating, and producing documents such as announcements, newsletters, brochures, and fliers using Microsoft Publisher. Prerequisite: BIM 180

BIM 262 Professional Preparation 3 (33/0)

This course covers job preparation components in which emphasis is given to job search and interviewing techniques Prerequisite: BUS 200

BIM 273 Word Processing II 1-5 (0/22-110)

This is an in-depth Microsoft Word 2007 course. Students will learn the advanced functions and how to apply this material to business situations. This course will also help prepare students for the MCAS exam. Prerequisite: BIM 173

BIM 280 Advanced Microsoft Office 1-5 (0/22-110)

This course is a continuation from BIM180 and introduces the advanced features and integration capabilities of the Microsoft Office 2016. This course consists of five modules--Word, Excel, Access, PowerPoint, and Integration. Prerequisite: BIM180

BIM 281 MS Office Integration 1 (0/22)

This course is a continuation from BIM280 and introduces the advanced integration capabilities of MS Office 2013. Prerequisite: Successful completion of all BIM280 modules

BIM 285 Microsoft Office Specialist Prep and Certification 1-5 (0/22-110)

This course is intended for students taking the MOS (Microsoft Office Specialist) certification exams. This course consists of five modules--Word, Excel, Access, PowerPoint, and Outlook. Students will review Microsoft Office 2016 features and complete a certified MOS exam at the end of each module. Prerequisite: BIM 280 or instructor permission

BIM 290 Spreadsheets II 1-5 (0/22-110)

This is an in-depth Microsoft Excel 2013 course. Students will learn the advanced functions of Excel and will apply this material to business situations. The course will also help prepare students for the MS Excel Expert certification exam. Prerequisite: BIM 190 or instructor permission

Chemistry

CHEM& 105 Chemical Concepts 5 (55/0)

This course is intended for non-science majors. The focus is on fundamental topics of chemistry such as; atoms and molecules, periodic table, organic chemistry, biochemistry, and radioactivity as they relate to current society. This class is intended to increase scientific literacy in non-science majors. This class can also provide some preparation for students with a limited chemistry background planning to continue on to CHEM& 121. Prerequisite: Math 094 or placement in Math 098 NS

CHEM& 110 Chemical Concepts w/Lab 5 (44/22)

This course is intended for non-science majors. The focus is on fundamental topics of chemistry such as; atoms and molecules, periodic table, organic chemistry, biochemistry, and radioactivity. Examples from everyday life, environmental topics, medicine, and biochemistry will be used to illustrate chemical principles. This class can also serve as preparation for students with a limited chemistry background planning to continue on to CHEM& 121. This course includes lab. Prerequisite: Math 094 or placement in Math 098 or higher LS

CHEM& 121 Intro to Chemistry 5 (44/22)

This course is designed primarily for the allied health student. In addition this class serves students wanting an introductory chemistry course prior to the full year CHEM& 161, 162, 163 sequence. Topics include basic chemical vocabulary, atomic structure, stoichiometry,

periodic behavior of elements and compounds, gases, liquids, solids, solutions, water and equilibria. The course includes 22 hours of laboratory. Laboratory exercises are designed to reinforce classroom learning as well as providing hands on experience with chemical reactions. Relevance of course material to current practices in chemistry is a fundamental focus. Prerequisite: Passing grade in Math 098 or placement in Math 099 A passing grade in high school chemistry or completion of CHEM& 105 is recommended. LS

CHEM& 131 Intro to Organic/Biochem 5 (38.5/33)

This course is designed for Allied Health transfer students and for students wanting an introductory organic chemistry course in preparation for a complete organic chemistry sequence at a baccalaureate institution. Topics include an introduction to alkanes, alkenes and alkynes, an exploration of common functional groups, and organic nomenclature. The course also explores the relationship of organic compounds such as carbohydrates, lipids, proteins, and enzymes with the human body. CHEM& 131 includes 25-30 hours of laboratory. Laboratory exercises are designed to reinforce classroom learning as well as providing hands on experience with chemical reactions. Prerequisite: CHEM& 121 with a grade of 2.0 or above or instructor permission LS

CHEM& 161 General Chem w/Lab I 5 (38.5/33)

The first in a three-quarter series examining the principles of General Chemistry with the primary emphasis on inorganic chemistry. This series is designed for physical science majors, pre-medical, pre-veterinary and pre-pharmacy students, and for students who are required to take one or more quarters of majors-level chemistry. Topics include: matter and measurements, atoms, molecules and ions, chemical formulas, chemical reactions and equations, electronic structure of atoms and periodic properties of elements. Prerequisite: Placement in MATH& 141 or completion of MATH 099. A passing grade in high school chemistry or completion of CHEM& 121 recommended LS

CHEM& 162 General Chem w/Lab II 5 (38.5/33)

The second in a three-quarter series examining the principles of General Chemistry with the primary emphasis on inorganic chemistry. Topics include: Chemical equilibrium, gas laws, molecular geometry, introduction to solution chemistry (acids and bases, precipitation reactions, redox chemistry), reaction rates and states of matter. Relevance of course material to current practices in chemistry is a fundamental focus. Prerequisite: CHEM& 161 or instructor permission LS

CHEM& 163 General Chem w/Lab III 5 (38.5/33)

The final course in a three-quarter series examining the principles of General Chemistry with the primary emphasis on inorganic chemistry. Topics include acid-base chemistry, chemical equilibria, solubility, nuclear reactions, and electrochemistry. An introduction to organic chemistry and an introduction to inorganic qualitative analysis are included. A portion of the laboratory component is devoted to inorganic qualitative analysis.. Prerequisite: Successful completion of CHEM& 162 or instructor permission.

College Success Skills

CSS 090 Computing for Personal Use 2 (11/22)

This course provides the student with the basic computer skills to: improve keyboarding expertise, manage the operating system, perform beginning word processing operations, manage an E-mail account, and maneuver the internet.

CSS 095 New Chance/Career Transition

2-8 (11-44/22-88)

In this class students will explore many of the non-academic factors that impact success in the working world. The participant's individual learning style is identified. Areas of consideration and study include: adapting and coping with change, stress management, listening skills, career and education choices, relationships, diversity, values, resume writing, goal setting and achieving results, interviewing techniques and the development of a skills portfolio.

CSS 100 College Success Skills 3 (33/0)

CSS 100 helps students become more effective learners and achieve their goals at Big Bend. National studies show that students who take courses like CSS 100 are more likely to stay in college and graduate than students who do not. CSS 100 teaches students skills that research has identified as essential to college success. CSS 100 adds to or builds on the skills students already have as students debate the purpose of college, practice reading and studying techniques, engage in critical thinking, and explore the many resources Big Bend offers to help them succeed

CSS 101 College Transitions 2 (11/22)

In this class, students will explore many of the non-academic factors that impact success in college. Students will develop a career and college plan; identify interests; improve skills and abilities; explore values, diversity, and relationships; recognize barriers to success in stress management and time management; identify and utilize an effective note-taking method; develop strategies to deal with test taking and test anxiety; and identify community and college resources.

CSS 102 Focus on Success

(33/0)

Students will explore many of the non-academic factors that affect success in college. Students will study self-awareness and the practical application of research to the following areas: career and college course choices; relationships; diversity; values; stress management; substance use; sexual decisions; financial literacy, and diet and exercise. In addition, students will develop basic computer literacy as they explore the non-academic factors through computer use, word processing operations, email, and use of the Internet

CSS 104 Intro to Computer Literacy 3 (33/0)

This course will provide the student with an introduction to computer operations, file management, e-mail, applications, the Internet, and BBCC technology. The course will provide an overview of skills a student should possess before taking an online class. The course is not intended to teach keyboarding or computer applications such as Microsoft Office.

CSS 105 Introduction to Healthcare Studies

3 (33/0)

This course provides the foundation for understanding the educational responsibilities of choosing a career in the healthcare field. Students will identify the scope of education and practice of various members of the healthcare profession in order to develop an educational and career plan. Additional key topics include test-taking preparation, critical thinking, leadership skills, communication styles, ethical decision making, note-taking and study tactics, and accessing reference sources.

CSS 106 College Reading Strategies 2 (22/0)

College Reading Strategies emphasizes the development of the critical reading and thinking skills (analysis, synthesis, and evaluation) needed for courses in the humanities, social sciences, and sciences. Presents active reading strategies, study reading techniques, and vocabulary building skills.

Commercial Driver's License

CDL 090 CDL Skill Improvement 1-10 (22/220)

Extra driving time and instruction to enhance student's driving skills and/or update their qualification for testing. This is an open enrollment course offered throughout each quarter. May be repeated for credit; graded on pass-fail basis. Prerequisite: Instructor permission

CDL 100 Commercial Driver's License (CDL)

17 (93-/187)

This course provides classroom study, driving instruction, and experience to prepare students for the State of Washington Commercial Driver's License (CDL) Class A exam and entry-level employment as a truck driver with

no airbrake restrictions and endorsements for doubles and triples, tankers and hazardous material. Prerequisite: Completed Commercial Driver's License (CDL) Program Application with supporting documents (F,W,S,Su)

Communications

CMST 100 Human Communications 4 (44/0) This course will provide students with applied communication skills. Students will learn practical application of small group presentations, conflict resolution and increased confidence in personal communication skills. Exemplifying self-concept, perception, verbal and non-verbal attributes and attitudes experienced between family, friends, and employment relationships.

CMST& 102 Introduction to Mass Communications 5 (55/0)

Provides an overview and survey of mass communications media, including history, organization, operation and control, theory, analysis, social functions, and new technology. Emphasis is on study of newspapers, radio, television, magazines, books, films, recording, and emerging mass media as to their function and role in today's world. HU

CMST& 210 Interpersonal Communications

5 (55/0)

This course examines the theory and practice of interpersonal communication from a variety of perspectives, with the goal of improving personal and work relationships. Students learn awareness of the variety of choices they have available to them in communicating. They then develop strategies toward understanding and responding to any cultural or ideological barriers which impede effective communication

CMST& 220 Public Speaking 5 (55/0)

Provides an introduction to the fundamental process of speaking to the public. It is designed to help students develop skills in communication and to acquire an understanding of oral communication as a vital human relations factor in society. HU

CMST 229 Advanced Public Speaking 5 (55/0) Fundamentals of good speech as a primary means of communication, with emphasis on organization and delivery. Speeches are given and critiqued by the class. Prerequisite: CMST& 220 or instructor permission HU

CMST 234 Small Group Discussion 3 (33/0) Principles of reflective thinking and effective extemporary speaking and the application of these principles in the various forms of group discussion such as conferences, round tables, panels, forums, and symposiums. SE

Composites

CPT 120 Composite Fabrication 4 (22/44) Students will develop skills in print reading, project planning, layout, distortion control, fixturing and other fabrication techniques. Students will have the opportunity to apply knowledge to projects of personal interest and/or as assigned. Prerequisite: Completion of AMT 111, AMT 121, AMT 161, and AMT 201

CPT 125 Composite Assembly 4 (22/44) Students will identify and utilize appropriate materials

Students will identify and utilize appropriate materials and processes to assemble structures made of composite material. The class includes utilizing the lay-up, vacuum bagging, and cure processing of wet laminating techniques and pre-impregnated material. Prerequisite: Completion of AMT 111, AMT 121, AMT 161, and AMT 201

CPT 130 Composite Repair 4 (22/44)

Students will inspect, test, and repair composite structures. This course explains how imperfections affect composite properties and provide hands on training for the repair of defects. Areas of emphasis include structural and non-structural evaluation, material handling, surface preparation, and repair procedures. Prerequisite: Completion of AMT 111, AMT 121, AMT 161, and AMT 201

CPT 145 Special Projects 3 (0/0/90)

Students will develop skills in print reading, project planning, layout, distortion control, fixturing, and other fabrication techniques. Students will have the opportunity to apply knowledge to projects of personal interest and/or as assigned. A culminating oral presentation helps students develop communication and research skills. Prerequisite: Completion of AMT 111, AMT 121, AMT 161, and AMT 201

Computer Science

CS 101 Intro to Computer Science (33/0)An introduction to computer science concepts and the role of computers in society. Topics include the history of computing, computer hardware, operating systems, the Internet, database management, an overview of programming languages, careers in computer technology, and the ethics of computing. This course is designed for Computer Science majors, and will emphasize principles and underlying computer technology concepts. Note: This course's learner outcomes align to the common IT course, IT 110: Introduction to Information Technology, and is accepted as a transfer course with participating Washington State community and technical colleges. Look for this notation if transferring to another IT program at a Washington State community or technical college. SE

CS 104 Intro to Computer Hardware 3 (33/0)

This course covers basic concepts of computing hardware and addresses the impact of hardware design on applications and systems software. Students will learn how computers work and be able to replace parts and upgrade components. Students completing CS 104 and CS 105 will have the knowledge and skills necessary for CompTIA A+ Certification exam preparation.

CS 105 Intro to Computer Operating Systems 3 (33/0)

An introduction to operating systems (O/S) design, structure, and mechanisms. Topics include computer software systems performance, memory, kernel structure, input/output (I/O) devices, file system functions, virtualization, and securing the operating system. Students will install and configure major modern client operating systems Students completing CS 104 and CS 105 will have the knowledge and skills necessary for CompTIA A+ Certification exam preparation

CS 106 Intro to Virtualization 5 (55/0)

This introductory course is an overview and hands-on exploration of virtualization in desktop, server, and cloud environments. Concepts covered include an introduction to virtualization technologies and how to deploy and manage a virtual server environment. Course topics include virtualization concepts and terms, installing and deploying virtual machines using Hyper-V, VM Ware, and XenServer, and implementing a secure virtual environment. Prerequisite CS 105

CS 110 Networking Fundamentals 3 (33/0)

An introduction to the basic concepts of computer networking, including: the OSI model, working with network-related hardware, network configuration with TCP/IP, network operating system basics, fault tolerance issues, and troubleshooting network problems. The course prepares students for the CompTIA Network+certification exam. Note: This course's learner outcomes align to the common IT course, IT 115: Introduction to Networking, and is accepted as a transfer course with participating Washington State community and technical colleges. Look for this notation if transferring to another IT program at a Washington State community or technical college.

CS 111 Intro to Programing 5 (22/66)

An introductory programming course using the NET language to create event-driven programs with a graphical user interface. Topics include variables, control structures, loops, object-oriented programming techniques, forms, debugging, and an introduction to database programming using ADO.NET and SQL. Prerequisite MATH 098 or concurrent enrollment,.

CS 115 Intro to Database Design & Management 5 (22/66)

This course will examine the theory of database design and management, including how collections of data are organized, stored, and analyzed. Topics include the fundamentals of the relational model, Structured Query Language (SQL), data modeling, database design and administration, and web database processing. Introductory business and financial services applications will be used to illustrate course concepts through lectures and hands-on labs. Note: This course's learner outcomes align to the common IT course, IT 114: Database Design & Implementation, and is accepted as a transfer course with participating Washington State community and technical colleges. Look for this notation if transferring to another IT program at a Washington State community or technical college

CS& 131 Computer Science I: C++ 5 (22/66)

An introduction to computer programming design and development with a primary focus on data structures and abstraction using the C++ object-oriented programming language. Topics include logical problem-solving, algorithm development, and programming basics, including an understanding of pointers, dynamic memory allocation, and data structures such as linked lists. Note: This course's learner outcomes align to the common IT course, IT 111&: Programming I, and is accepted as a transfer course with participating Washington State community and technical colleges. Look for this notation if transferring to another IT program at a Washington State community or technical college. Prerequisite: MATH& 141 or concurrent enrollment. SE

CS 132 Advanced Programming with C++ 5 (22/66)

This course expands on the fundamentals covered in CS& 131. Students will develop intermediate C++ programs for both traditional data processing and object-oriented applications. Through the experience of creating these programs and methods the student will learn advanced features of C++ object-oriented programming to solve problems in various domains. Note: This course's learner outcomes align to the common IT course, IT 112&: Programming II, and is accepted as a transfer course with participating Washington State community and technical colleges. Look for this notation if transferring to another IT program at a Washington State community or technical college. Prerequisite: CS& 131 SE

CS 136 Database Programming with SQL

(22/66)

This course examines introductory concepts of relational database theory and applies these skills in client-server database design and management using SQL. Focus is on discussion of relational database theory, object-oriented and physical database design, the concepts of data normalization and data design, implementation of data designs, procedural programming via the SQL environment between backend databases and user environments, and information storage and retrieval. Prerequisites: CS 115 or instructor permission

CS& 141 Computer Science I: Java 5 (22/66)

This course introduces students to the fundamental concepts of object-oriented programming with the Java programming language. The course will focus on the strengths of Java to create classes, objects and methods, algorithm development, program solving techniques, basic control structures, primitive types, and arrays. Students will master the basics of Java, developing solid programming skills that enable crossover programming skills for other essential languages. Prerequisites: MATH& 141 or concurrent enrollment SE

CS 142 Advanced Programming with Java 5 (22/66)

Advanced Java is a follow-up to the programming concepts introduced in the Java I course. This course explores Java's Distributed Applications features and covers inheritance, exceptions, graphical user interfaces, recursion, and data structures. Prerequisites: CS& 141 SE

CS 156 Cisco Networking: Introduction to Networks 5 (33/44)

Introduces the architecture, structure, functions, components, and models of the Internet and computer networks. The principles of IP addressing and fundamentals of Ethernet concepts, media, and operations are introduced. Students will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. This is the first of two courses comprising the Cisco CCENT certification and covers the technical knowledge and skills required to take the Cisco ICND1 exam. Prerequisite: CS 104 and CS 105

CS 157 Cisco Networking : Routing & Switching Essentials 5 (33/44)

Describes the architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, single-area and multi-area OSPF, virtual LANs, and inter-VLAN

routing in both IPv4 and IPv6 networks. This is the second of two courses comprising the Cisco CCENT certification and covers the technical knowledge and skills required to take the Cisco ICND1 exam. Prerequisite: CS 156

CS 158 Cisco Networking : Scaling Networks 5 (33/44)

Describes the architecture, components, and operations of routers and switches in a large and complex network. Students learn how to configure routers and switches for advanced functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with OSPF, EIGRP, STP, and VTP in both IPv4 and IPv6 networks. Students will also develop the knowledge and skills needed to implement DHCP and DNS operations in a network Prerequisite CS 157

CS 159 Cisco Networking: Connecting Networks 5 (33/44)

Discusses the WAN technologies and network services required by converged applications in a complex network. The course enables students to understand the selection criteria of network devices and WAN technologies to meet network requirements. Students learn how to configure and troubleshoot network devices and resolve common issues with data link protocols. Students also develop the knowledge and skills needed to implement IPSec and virtual private network (VPN) operations in a complex network. Prerequisite CS 158

CS 161 Intro to Website Design and Publishing 5 (22/66)

This course covers the technical knowledge and skills needed to design and publish a web site. Students create web pages with the latest standards of XHTML, HTML5, and Cascading Style Sheets (CSS) with an emphasis on coding web pages that work in both current and future browsers. Topics include web design principles, website development, web authoring standards, configuring images and multimedia on web pages, and website publishing

CS 162 Programming with JavaScript 5 (55/0)

This course focuses on the fundamental concepts of the JavaScript language to create interactive websites. Students learn how to use JavaScript to communicate with users, modify the Document Object Model (DOM), control program flow, validate forms, animate images, create cookies, modify attributes and values in X/HTML using DOM elements, use JavaScript libraries, incorporate AJAX into JavaScript code, communicate with databases, and debug and troubleshoot JavaScript.

CS 195 Internship: Work Based Learning

(0/0/33-132)1-4

Students will participate in a supervised internship with regional computer and information technology employers. Students will acquire industry work experience that validates employability skills. Course may be repeated up to a maximum of 4 credits. Prerequisite: Enrollment in Computer Science program, instructor permission, and concurrent enrollment in CS 197.

CS 197 Internship: Work Based Learning Seminar 1 (11/0)

Students participating in internships share feedback and discussion to integrate work-based learning experiences with classroom instruction. Students are expected to participate in class discussions and develop a computer science career-based employment resume. Prerequisite: Concurrent enrollment in CS 195

CS 205 Windows Server Administration

(55/0)

This course focuses on Windows Server Administration. Topics include the communication, design and implementation of the Active Directory, DNS, Group Policy Objects, disaster recovery, configuring the web server, security, and working knowledge of Microsoft Exchange. Prerequisites: CS 105 and CS 110, or instructor permission

CS 206 Linux Server Administration

(55/0)

IIn this course students will customize the BASH environment, build shell scripts in the Korn shell, control the Linux system, manage user accounts, manage system software in Linux, and manage file systems in Linux. Students will also troubleshoot the system, configure the client/server environment, apply security practices to Linux systems, and improve system performance. Prerequisite CS 105, CS 205 recommended (Formerly **UNIX/Linus Server Administration)**

CS 207 Introduction to Security Administration (55/0)

This course builds on prior course work in computer hardware, operating systems, and networks. Students will acquire the specific skills required to implement basic security services on any type of computer network and be prepared to take the CompTIA Security+ exam. Prerequisite: CS 105 and CS 110, or instructor permission

CS 235 Data Structures and Algorithms (55/0)

Basic data structures such as stacks, queues, linked lists, and trees are studied and applied to problems in data storage and manipulation. Applications include basic searching and sorting algorithms. Design, analysis and implementation techniques are discussed to

illustrate and apply the concepts of the course. Note: This course's learner outcomes align to the common IT course, IT 113: Data Structures, and is accepted as a transfer course with participating Washington State community and technical colleges. Look for this notation if transferring to another IT program at a Washington State community or technical college. Prerequisites: CS 132 or CS 142, or instructor permission

CS 251 Programming with C# (22/66)

This course covers design and programming concepts using C#. Students will learn the fundamental skills required to design and develop object-oriented applications for the Web and Microsoft Windows by using Microsoft C# and the Microsoft Visual Studio.NET development environment Prerequisite: CS 111 or instructor permission

CS **260 Computer Programming Topics**

(22/66)

This course highlights a new emerging software development, programming language, cloud computing, web application, or mobile application topic. In consultation with their Computer Science program advisor, students choose a specialized or in-depth programming related project and apply new and emerging computing and information technologies. Completed projects are presented and shared with fellow students. Prerequisite: CS 111 or instructor permission

CS 262 Programming Dynamic Websites

(22/66)

This course covers dynamic web programming to build interactive, database driven websites. Students gain experience using core open source technologies: PHP MySQL, JavaScript, and CSS, to add power and functionality to Web sites. A major emphasis of the course is using PHP and MySQL to build, manipulate, and create output from a database to a web page. Prerequisites: CS 115 and CS 161

CS 265 Web Applications Design & Development (22/66)

This course provides students the knowledge and skills to design and develop dynamic web applications. Using ASP.NET and Ajax, students design, create, and test web pages, create a web interface to a database, and build applications for the web and mobile devices. Prerequisite: CS 111 or CS 251 and CS 161

CS 270 Web Architecture and Client Services (55/0)

This course introduces students to the core standards that enable Web Services and the developer's task of architecting and implementing enterprise systems. Service-Oriented Architecture provides the availability of web-based services and is changing the way develop-

ers create programs and the speed at which they deploy solutions. Also covered is cloud-based hardware and software platforms and the cloud computing concepts of Software as a Service (SaaS), Platform as a Service (PaaS), data storage, security, and other related client services. Prerequisite: CS 161

CS 271 Web Graphics (55/0)

This course covers image processing techniques using Adobe Photoshop to prepare images and create interactive visuals that are integrated into dynamic websites. Students learn the essentials in correcting, editing, sharpening, retouching, and presenting photos, focusing on essential digital photography and graphic design techniques. Prerequisite: CS 161 or instructor permission

CS 289 Project Management for Computer Science

This capstone course is intended for Computer Science program students and is focused on understanding and exercising principles distinctive to managing information technology projects. Students develop skills in project integration, scope, time, cost, quality, human resource, communications, risk, procurement, and stakeholder management. Working as a team, students will select a final project that may focus on their area of specialization in software development, systems administration, or web development and design. Prerequisite: Completion of 30 computer science course credits or instructor permission

CS 295 Internship: Work Based Learning II 1-4 (0/0/33-132)

Students will participate in an advanced internship with regional computer and information technology employers. Course may be repeated up to 4 credits. Prerequisite CS 195, CS 197, and instructor permission

CS 297 Internship: Work Based Learning (11/0)Seminar II

Continuation of internship work based learning seminar. Students will provide feedback and discussion to integrate and relate internship/work-based learning experience and classroom instruction. Prerequisite CS 197 and instructor permission

Criminal Justice

CJ& 101 Intro Criminal Justice (55/0)

This course provides an overview of crime and the criminal justice system including the historical development of the system and a discussion of sociological theory. The course examines the extent and character of crime by examining current and past philosophies that our society uses to deal with crime and criminals. Emphasis is placed on how the various systems interrelate and interact to attain the goal of an orderly and non-discriminatory delivery of crime related public services. SS

CJ& 110 Criminal Law

(55/0)This course is an introduction to the criminal law system of the United States. Issues covered include: the historical evolution of the law, applications of criminal law, legal

concepts underlying the law and the procedures under which criminal law violators are processed. Prerequisite: CJ& 101 or instructor permission SE

1-2 (11-22/0) CJ 198 Special Topics

This course provides individual study in one of the criminal justice subject areas. Study and credit hours determined at the time of enrollment by the instructor. Prerequisite: Instructor Permission

CJ 203 Police Administration and Leadership (55/0)

This course covers an overview of police organization and administration. Principals of management and effective leadership will be covered in relation to line and staff positions and advancement within a law enforcement career. Prerequisite: CJ& 101

CJ 209 Police Psychology (55/0)

Theories of perception, emotion, motivation, personality and nonverbal communication used as tools by police officers in everyday contacts are introduced in this course. Understanding behavior and predicting human behavior in common police situations are emphasized. Police family and personal mental health is covered as well. Prerequisite: PSYC& 100

CJ 210 Introduction to American Policing

(55/0)

This course is designed to provide a general examination of the role of police in American society. Contemporary concepts, upon which the police function is based, are discussed from both historical and traditional perspectives. This course identifies certain issues within the police organization that either supports or inhibits the ability to accomplish the societal mission. Prerequisite: CJ&101 or instructor permission SE

215 Criminal Investigations (55/0)

This course will review the role investigations play in the criminal justice system. Topics covered will include: investigative theory; collection and preservation of evidence; sources of information; interview and interrogation; uses of forensic sciences; case and trial preparations. Investigation techniques will be practiced as part of the course. Prerequisite: CJ&101 or instructor permission

CJ 217 Advanced Report Writing (55/0)

This course presents advanced technical writing content specific to the criminal justice system. Students review standard grammar, punctuation and compositions skills. The content includes, but not limited to the following:

complicated police reports where information may be obtained from investigations, interrogations and collisions and involves a variety of forms and narratives related to law enforcement. Prerequisite: ENGL& 235 - Technical Writing

CJ 220 Introduction to Corrections 5 (55/0) Examination of the historical context, philosophical concepts and major developments that have shaped corrections in the United States. Various sentencing options, correctional approaches and programs, the role of corrections in the larger criminal justice system and contemporary correctional issues are examined. Prerequisite: CJ& 101 or instructor permission SE

CJ 295 Work-Based Learning (CJ) 1-8 (0/0/33-264)

Supervised, non-paid, work experience in a government or municipal agency involving the application of classroom information and skills. This course may be repeated for up to 8 credits. Credits will be directly related to number of hours worked. Prerequisite: Instructor permission

CJ 297 Work-Based Learning Seminar

11 (11/0)

Feedback and discussion to integrate and relate work based learning and classroom based instruction. This course may be repeated for up to 8 credits. Corequisite: CJ 295 – Work Based Learning, **and** Instructor Permission

Early Childhood Education

ECED& 100 Child Care Basics 3 (33/0)

Designed to meet licensing requirements for early learning lead teachers and family home child care providers, STARS 30 hour basics course recognized in the MERIT system. Topics: child growth/development, cultural competency, community resources, guidance, health/safety/nutrition and professional practice.

ECED& 105 Intro Early Child Ed 5 (55/0)

Overview of the foundations of early childhood education. Examine theories defining the field, issues and trends, best practices, and program models. Observe children, professionals, and programs in action. (Formerly ECE 100)

ECED& 107 Health/Safety/Nutrition 5 (55/0)

Develop knowledge and skills to ensure good health, nutrition, and safety of children in group care and education programs. Recognize the signs of abuse and neglect, responsibilities for mandated reporting, and available community resources. (Formerly ECE 105)

ECED& 120 Practicum - Nurturing Rel 2 (11/0/33)

This course will provide students an opportunity to apply best practice for engaging in nurturing relationships with children in an early learning setting. Focus on keeping children healthy and safe while promoting growth and development. Prerequisite: ECED& 105 and instructor permission.

(Prior to registering for this course, students must be cleared through the National Sex Offender Registry system, provide results of a negative Tuberculin skin test within the last year and obtain WEA liability insurance. Upon placement, students must pass a background check with their hosting agency).

ECED& 132 Infants/Toddlers Care 3 (33/0)

Examine the unique developmental needs of infants and toddlers. Study the role of the caregiver, relationships with families, developmentally appropriate practices, nurturing environments for infants and toddlers, and culturally relevant care. (Formerly ECE 108)

ECED& 139 Admin of Early Lrng 3 (33/0)

Develop administrative skills required to develop, open, operate, manage, and assess early childhood education and care programs. Explore techniques and resources available for Washington State licensing and NAEYC standard compliance. (Formerly ECE 160)

ECED& 160 Curriculum Development 5 (55/0) Investigate learning theory, program planning, and tools for curriculum development promoting language, fine/

gross motor, social-emotional, cognitive and creative skills and growth in young children (birth-age 8).

Corequisite: ECED& 190 (Formerly ECE 230)

ECED& 170 Environments-Young Child 3 (33/0)

Design, evaluate, and improve indoor and outdoor environments which ensure quality learning, nurturing experiences, and optimize the development of young children. (Formerly ECE 135)

ECED& 180 Lang/Literacy Development 3 (33/0)

Develop teaching strategies for language acquisition and literacy skill development at each developmental stage (birth-age 8) through the four interrelated areas of speaking, listening, writing, and reading. (Formerly ECE 250)

ECED& 190 Observation /Assessment 3 (11//66)

Collect and record observation of and assessment data on young children in order to plan for and support the child, the family, the group and the community. Practice reflection techniques, summarizing conclusions and communicating findings. Corequisite: ECED& 160

ECED 214 Math & Science for Young Children

(33/0)

This course examines the introduction and exploration of math and science concepts for early learning. The content includes math and science concepts, and teaching strategies, procedures and materials. (Formerly ECE 214)

Economics

ECON 200 Introduction to Economics 5 (55/0)

Overview of the basic principles of the American economy to include supply and demand, money and banking, international trade, GDP, inflation, unemployment and analysis of the market system. Strongly recommend placement in Math 098 or higher and placement in ENGL 099 or higher. This class is not a substitute for ECON& 201 or 202. (SS

ECON& 201 Micro Economics 5 (55/0)

Study of the micro economy of an individual firm or industry. Output and price of a specific product, numbers of workers, revenue, and expenses of a business are the focus. Strongly recommend placement in Math 098 or higher and placement in ENGL 099 or higher. SS

ECON& 202 Macro Economics 5 (55/0)

Introduction to the principles of Macro Economics including: unemployment, inflation, aggregate demand/supply, Classical and Keynesian Theories, fiscal and monetary policy, money and banking, and current economic problems. Strongly recommend placement in Math 098 or higher and placement in ENGL 099 or higher. SS

Education

EDUC 106 Issues in Child Abuse 2 (22/0)

An overview of the dynamics and impact of abuse on the behavior and learning of children and adolescents. Includes the role of the educator in prevention and intervention, with an emphasis on strategies for working with children impacted by issues of abuse.

EDUC& 115 Child Development 5 (55/0)

Build a functional understanding of the foundation of child development, prenatal to early adolescence. Focus on the physical, social, emotional, and cognitive development of children, reflective of cross cultural and global perspectives. Develop skills in observing and documenting child growth and development identify theory in practice, and critical reflection of assumptions.

EDUC& 130 Guiding Behavior 3 (33/0)

Examine the principles and theories promoting social competence in young children and creating safe learning environments. Develop skills promoting effective interactions, providing positive individual guidance, and enhancing group experiences. (Formerly EDUC 102)

EDUC 132 Peer Mentoring

(11/0/33)

This course introduces students to the concepts and application of mentoring, tutoring, leadership, and team building to enhance their ability to competently and confidentially work with assigned mentees and classes.

EDUC 133 Tutor Training I

1-2 (13/0/25)

This course provides an overview of tutoring adults.

EDUC 134 Tutor Training II 1-2 (13/0/25)

This course provides additional techniques and methods for tutoring adults. Prerequisite: EDUC 130

EDUC& 150 Child/Family/Community 3 (33/0)

Integrate the family and community contexts in which a child develops. Explore cultures and demographics of families in society, community resources, strategies for involving families in the education of their child, and tools for effective communication. (Formerly EDUC 150)

EDUC 190 Classroom Experience 3 (0/99)

This course will provide students with the opportunity to gain practical, hands-on experience working with children infancy to age eight in a variety of educational settings and to reflect on the experiences. Students will be required to assist a classroom teacher for six hours per week throughout the quarter. Can be repeated up to nine credits. Prerequisites: ECED& 120 or EDUC& 201 or instructor permission

(Prior to registering for this course, students must be cleared through the National Sex Offender Registry system, pass Washington State Patrol background check, provide results of a negative Tuberculin skin test within the last year and obtain WEA liability insurance. Upon placement, students must also pass a background check with their hosting agency).

EDUC 198, 298 Special Topics 0-5 (2-55/0)

Current issues in the education field. Content will vary from course to course. Prerequisite: Instructor permission Tech Prep credit available.

EDUC& 202 Intro to Education 5 (55/0)

This is a survey course in the history, philosophy, and principles of education. This course examines current issues and trends in American education. Students are given the opportunity to explore the variety of occupations available in their specialty or interest area within the realm of Pre-K to 12th grade education. Credit cannot be earned in both EDUC& 201 and EDUC& 202. Prerequisite: Successful completion of ENGL 099 or placement in ENGL& 101 SE (Formerly EDUC& 201)

EDUC& 204 Exceptional Child 5 (55/0)

This course introduces students to various categories of disabilities, legal and historical foundations for special education services, as well as opportunities to design and access educational resources for exceptional children within a community of collaboration and inclusion. SE

Engineering

ENGR 110 Intro to Science and Engineering 3 (33/0) Students in this course will investigate careers in science and engineering, and will research the educational pathways to those careers. In addition, students will learn techniques for becoming a successful student in science and engineering majors.

ENGR& 111 Engineering Graphics I 5 (33/44)

This course studies the principles of mechanical drawings: geometric construction, orthographic projection, sectional views, auxiliary views, isometric and oblique drawings, dimensions, threads, fasteners, and lettering using AutoCad software. This software is used by engineers to communicate proposed designs and new ideas. (Formerly ENGR 160) SE

ENGR& 112 Engineering Graphics II 5 (33/44)

This course uses computer software to draft parametric models in three dimensions using Solidworks software. This course covers file management methods, rapid prototyping, and 2D drawing development techniques. (Formerly ENGR 265) SE

ENGR 201 Material Science 5 (55/0)

An introduction to Materials Science that includes the atomic, molecular, and crystalline structures of materials and their relationship to electrical, mechanical, thermal, and chemical properties, as well as an introduction to materials processing and fabrication techniques. Prerequisite: PHYS& 221, CHEM& 161

ENGR 202 Design of Logic Circuits 6 (44/44)

This course introduces students to the methods, skills and theoretical knowledge needed to design, simulate, and build combinational logic and basic sequential logic circuits. Using industry relevant CAD tools and design technologies, students will learn through homework and projects to design and implement a collection of combinational and sequential logic circuits. Upon completion, students will apply the same tools prevalent in industry and their transferrable skills to many digital electronic applications today. Prerequisite: MATH& 141 with grades of 2.0 or higher **and** one of the following: CS 111 or CS& 131 or CS&141, or instructor permission SE

ENGR& 204 Electrical Circuits

permission

This course introduces electrical circuit concepts and mathematical models to analyze electrical circuits and systems. The behaviors of circuit components including resistors, sources, capacitors, inductors and operational amplifiers will be examined. The analytic solutions of mathematical models will be calculated and presented in terms of voltage, current and electrical power. Fundamentals of electrical power generation, transmission, analysis and calculation will also be covered. Prerequisite: MATH& 152, PHYS& 223, or instructor permission. Co-requisites: Differential Equations, or instructor

(55/0)

ENGR 205 Electric Circuits Lab 1 (0/22)

This course utilizes lab experiments to verify electrical circuit principles that are learned in ENGR& 204. Students will also perform measurements to confirm the analytical solutions from mathematical models. Some engineering programs including electrical engineering require this course. Please see your advisor. Prerequisite: NONE. Corequisite: ENGR& 204

ENGR& 212 Engineering Graphics II 5 (33/44)

This course uses computer software to draft parametric models in three dimensions using Solidworks software. This course covers file management methods, rapid prototyping, and 2D drawing development techniques.

ENGR& 214 Statics 5 (55/0)

Statics is the study of objects which are either at rest or moving with constant velocity. Students in this course will learn to apply mathematics and physical science to the analysis of the forces and moments acting on these objects, developing engineering problem-solving skills in the process. Topics studied will include the following: vector notation and operations; equilibrium of particles and rigid bodies; moments of forces; couples; trusses and frames; shear and moment diagrams; applications of friction; center of gravity, centroids, and moments of inertia. Prerequisite: MATH& 151, PHYS& 221 with grades of 2.0 or higher Corequisite: MATH& 152 (Formerly EGR 211) NS

ENGR& 215 Dynamics 5 (55/0)

Dynamics is the study of the accelerated motion of particles and rigid bodies. The study of the motion in this course will deal with kinematics (the mathematical description of the motion) and kinetics (the analysis of the forces causing the motion). Vector notation and operations will be used extensively in this course, and calculus will be used regularly. Prerequisite: ENGR& 214, PHYS& 221, and MATH& 152 with grades of 2.0 or higher. (Formerly EGR 212) NS

ENGR& 224 Thermodynamics (55/0)

Thermodynamics is the science of energy. This course introduces the basic principles of thermodynamics from a macroscopic point of view and applies them to engineering systems such as heat pumps, engines, power plants, and refrigeration. Topics include property tables, equations of state, first and second laws of thermodynamics, analysis of closed and open systems, power and refrigeration cycles. Prerequisites: PHYS& 221, MATH& 152. Corequisite: CHEM& 162 NS

ENGR& 225 Mechanics of Materials (55/0)

An introduction to the concepts of stress, strain, deformation, and failure theory in solid materials. Applies mechanics of materials concepts to structural and machine elements such as rods, shafts, and beams. These elements are analyzed in tension, compression, bending, torsion, and shear. Prerequisite: ENGR& 214, MATH& 152 with grades of 2.0 or higher (Formerly EGR 214). NS

ENGR 240 Applied Numerical Methods 5 (33/44)

This course includes application of the following methods: elements of error analysis, real roots of an equation, polynomial approximation by finite difference and least square methods, interpolation, quadrature, numerical solution of ordinary differential equations, and numerical solutions of systems of linear equations. The student should expect to program a computer in addition to using a graphing calculator. Prerequisite: MATH& 163 with grade of 2.0 or higher; or instructor permission NS

English

ENGL 010 English Lab

Allows non-BBCC student to access tutors in the English Lab.

(11/22)**ENGL 065 Spelling Improvement** 2

With a self-paced approach, the student will practice commonly misspelled words that account for 97% of spelling errors by a combination of the whole-word method and learning the rules and exceptions of the English spelling system.

(11/44)ENGL **087 Reading Improvement** 3

Reading improvement for adults with emphasis on increasing vocabulary and comprehension to college level. Prerequisite: Placement exam

(11/44)**ENGL** 093 Basic Writing

This course is designed for adult students who have little or no experience writing beyond elementary school. During the class, students will choose a topic and develop the main idea and its support thus gaining practice in proofreading, punctuation and using correct grammar to develop paragraphs. Prerequisite: Placement exam

ENGL 095 Writing Improvement (11/44)

Through individual writing experiences and the practice of assigned exercises, the student will develop a procedure for writing and revising papers using word processing. Students may submit papers written during the quarter to portfolio assessment of preparedness for ENGL& 101. Prerequisite: ENGL 093 or placement

ENGL 098 Basic English Skills (55/0)

This course covers techniques for improving basic writing skills at the sentence, paragraph and essay level. Additional work will be done on improving reading comprehension, enriching vocabulary, and refining computer skills. Prerequisite: Placement exam

ENGL 099 English Skills (55/0)

English 99 provides students a solid preparation for college reading and writing using word processing. Students write personal and academic essays and prepare a writing portfolio at the end of the quarter. The course includes the study of sentence sense and mechanics, grammar, punctuation, paragraph and essay structure as well as activities that improve reading and vocabulary. Prerequisite: Successful completion of English 98 or direct placement through the English Placement Test.

ENGL& 101 English Composition I

This composition course provides instruction in academic written communication by having students compose formal essays, with the goal of teaching students to communicate effectively and engage with issues and ideas. Prerequisite: Placement exam or passing grade in English 99 BS/HU

(55/0)**ENGL& 102 Composition II**

This advanced composition course provides instruction in academic writing through literary analysis and increases students' exposure to literature. Prerequisite: ENGL&101. BS/HU

ENGL 109 Applied Technical Writing (22/22)

The course prepares students for successful careers in their respective technical fields by developing skills in written communications commonly used in the workplace. Students will focus on reading, interpreting, planning, organizing, composing, and word processing technical writing as applied in business and industry. Prerequisite: ENGL 099

198 Special Projects in English 1-3 (0/0/33-99)

Special Projects in English individual projects by special arrangement with instructor. Prerequisite: Instructor permission and completed Learning Contract. HU

ENGL 201 Advanced Academic Research Writing

This advanced writing course focuses on critical thought and composition within academic/professional communities. Published works regarding current affairs, pressing social matters and/or political issues will be critically read and then written about in a way that meets the expectations of an academic/professional community. Students will write a variety of papers, the last of which will be a researched argument. Prerequisite: ENGL& 101. Specified Elective (SE)* if not used as part of the English composition requirement

ENGL 211 Creative Writing: Fiction (55/0)

In this course students will develop the basic techniques that writers use to create imaginative and effective fiction, and use the writer's workshop as a method for improving their work. Although this class focuses on writing short stories, it can be useful for those interested in all forms of narrative writing, including novels, screenplays, and creative nonfiction. HU

ENGL 212 Creative Writing: Poetry (55/0)

This creative writing course focuses on writing poetry and critiquing your classmates' poems. Through close examination of modern and contemporary poetry, you will begin to recognize elements of craft and form and use those techniques in your own weekly poems. This course will also teach you the habits of using concrete, original, concise language as well as the etiquette of being an integral member of a workshop—skills transferable to any college course that involves writing or collaboration. HU

ENGL 216 The Art of Film (55/0)

This class examines a series of films from different cultures, eras, and genres as a way to create an appreciation of filmmaking and to analyze different aspects of culture in cinema. On an introductory level, we will examine some of the tools in the filmmakers' arsenal and consider how they relate to the filmmaker's vision. Exposure to a variety of films—ranging from independent and foreign to studio blockbusters, and everything in between—is also fundamental to this class. HU

ENGL& 220 Intro to Shakespeare (55/0)

William Shakespeare has been the central author of the English-speaking world for centuries. His plays and poems are quoted more often than those of any other English-speaking writer. This introduction to Shakespearean Comedy, History and Tragedy will focus on Shakespeare's most popular works and their relevance in the modern world. Prerequisite: ENGL& 101 HU

221 Creative Writing II: Fiction (55/0)

This course is designed for students who have completed an introductory fiction writing class (such as ENGL 211) and who want to continue their creative writing in a lecture and workshop setting. Students will further develop the techniques that writers use to build effective fiction and use the writer's workshop as a method for improving their own work. Students will also read and analyze stories and/or novels with an eye toward improving their own craft. Prerequisite: ENGL 211 or instructor permission. HU

234 Science Fiction ENGL (55/0)

This course provides instruction in the genre of science fiction as a literary type and will provide instruction in analysis of short stories, novels, and films from within the genre of science fiction. The course will range from the beginnings of science fiction through the present. Emphasis is placed on developing a definition of science fiction that helps to identify it as a unique literary type that is comprehensive enough in its concerns to be considered a legitimate and valuable type of literature. HU

ENGL& 235 Technical writing 5(55/0)

This course is designed to improve students' written technical communication skills as are related to a range of professional applications. The goal of technical writing is to communicate a message clearly, concisely, and persuasively. This course emphasizes critical thinking skills as applied to technical writing, attention to research techniques, detail, professionalism, purpose, and audience. Students will learn to design, format, and produce documents common in business and industry. Prerequisite: ENGL&101. HU

ENGL 239 The Mystery Story as Literature

(55/0)

From Sherlock Holmes to C.S.I., mystery stories have been popular and enduring forms of entertainment. In addition to exploring the world of crime, mysteries can offer insight into the nature of good and evil, raise questions about the human condition, and reveal truths about history and culture. This class will use mystery stories, novels, and films that range from the classic to the contemporary. HU

ENGL 240 World Literature (55/0)

A course of world literature from the ancient world through the twentieth century. Prerequisite: ENGL& 101 with a grade of 2.0 or above HU

ENGL 243 The American Novel (55/0)

An introduction to the major American novels of the 19th and 20th centuries. Novels will be chosen from the works of major writers such as Melville, Hawthorne, Crane, James, Hemingway, Fitzgerald, Salinger and Mailer. HU

ENGL& 244 American Literature I 5 (55/0)

This course explores the religious views, politics, and cultural beliefs of early America through its literature. Texts range from American literature's beginning to 1860, focusing on American authors and poets, beginning with Puritan and Separatist journals and pamphlets, captivity narratives, moving on to romance novels and to the short fiction of Poe, Melville, and Hawthorne, and ending with the works of Dickinson and Whitman. Students may take the American Literature courses at any time without regard to the I,II,III sequence.

ENGL& 245 American Literature II 5 (55/0)

An introduction to American Literature from 1860 to the 1960's. Explore the religious views, politics, and ideologies of late nineteenth century to the late twentieth century of America through its literature. This course studies American authors, poets, and playwrights beginning with realism through naturalism, continuing with the political themes of early twentieth century, through the writers of the Great Depression, post World-War II, up to the 1960's HU

ENGL& 246 American Literature III 5 (55/0)

This class explores American literature published in the decades since 1960. Themes studied may include terrorism and cold war anxiety, technology, gender roles, multiculturalism, alienation, rebellion, popular psychology, or others relevant to the literature of the time. Students will read contemporary novels, stories, and poems that reflect American trends and culture during this period. Students do NOT need to have taken American Literature I or American Literature II to do well in this course. HU

ENGL 261 Women's Literature 5 (55/0)

This course aims to study women's unique literary voice as a reflection of their history, their place in society, and their role in a changing world. In this survey literature course we will read fiction, memoirs, and poetry written by prominent women authors that take on topics of women's health care, reproductive rights, motherhood, women in the workplace, domestic violence, body image, gender performativity, and sexuality / gender identity. Emphasis is on the development of critical thinking skills through a series of papers and projects that draw into question the development of differences between the sexes, the acquisition of gender roles, and the maintenance of gender stereotypes. HU

ENGL 272 Graphic Novel as Literature 5 (55/0)

Though once condemned as "low brow" literature and "badly drawn, badly written, and badly printed...pulp-paper nightmares" certain to turn young readers into juvenile delinquents, comics have forever been on the cutting edge of counterculture and alternative movements. Only in recent years have comics and their book-

length counterparts, graphic novels, started receiving serious attention from adult audiences in the U.S. This course traces the comic tradition from comic book superheroes to Japanese manga to poignant autobiographies, examining the literary merit and legitimacy of the graphic novel along the way. HU

Environmental Science

ENVS& 100 Survey of Env Science 5 (55/0)

An introduction to the fundamental principles of environmental science, topics of study include: environmental, science, and information literacy, human population growth, environmental economics, ecosystems, population and community ecology, biodiversity, evolution and extinction, forests and grasslands, marine ecosystems, fisheries and aquaculture, freshwater resources and water pollution, solid waste, agriculture, coal and petroleum, air pollution and climate change, nuclear power, alternative energy sources, biofuels, urbanization, and sustainable communities. NS

First Aid/EMT

FAD 150 Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens

2 (19/5)

An advanced industrial first aid course and bloodborne pathogen course designed to meet the Department of Labor and Industry, OSHA and WISHA requirements. Intended for supervisory personnel, employees, prenursing, Pre-Emergency Medical Technicians, and those interested in having first aid and C.P.R. training. This course is recognized in the U.S. and several foreign countries by federal and state agencies and company employers.

FAD 151 Industrial First Aid (Refresher)

(11/0)

A National Safety Council and industrial first aid course and bloodborne pathogen course designed to meet the Department of Labor and Industry, OSHA and WISHA requirements. Intended for supervisory personnel, employees, pre-nursing, pre-emergency medical technicians and those interested in having first aid and C.P.R. training. This course is recognized in the U.S. and several foreign countries by federal and state agencies and company employers.

FAD 152 Advanced First Aid 2 (22/0)

A first aid course designed to meet the 18 hour Department of Labor and Industry requirements. Intended for supervisory personnel, employees, and those interested in having first aid and CPR training. This will give a three-year certificate.

Foreign Languages

ASL& 121 Am Sign Language I 5 (55/0)

Basic manual communication skills, including the American manual alphabet—approximately 550 basic signs developing minimum vocabulary and skills for communicating with severely hearing impaired individuals who are dependent of this form of communication; incorporation of body language and facial expression into the use of the sign language; and development of an understanding of the conceptual aspects of the language. This course is not meant to prepare students as interpreters for the deaf. HU

ASL& 122 Am Sign Language II 5 (55/0)

Conversational manual communication and implementation of basic vocabulary, introduction of broader vocabulary and development of conversational skills; vocabulary is presented and practice given. This course is not meant to prepare students as interpreters for the deaf. Prerequisite: ASL& 121 or demonstrated competency HU

ASL& 123 Am Sign Language III 5 (55/0)

Introduction to meta-and para-language areas of manual communication to more esoteric ideographic signs reflecting usage among different regional dialects. Difficulties of communication with more severely language-deprived individuals are discussed. Understanding of deaf culture explored and developed. This course is not meant to prepare students as interpreters for the deaf. Prerequisite: ASL& 122 or demonstrated competency HU

FRCH& 121 French I 5 (55/0)

Beginning French language and culture taught using a communicative approach. Through the use of drama and themes, this course focuses on listening, speaking, reading and writing skills and the culture of the French-speaking world. HU

FRCH& 122 French II 5 (55/0)

Beginning French language and culture taught using a communicative approach. Through the use of drama and themes, this course focuses on listening, speaking, reading and writing skills and the culture of the Frenchspeaking world. Prerequisite: FRCH& 121 HU

FRCH& 123 French III 5 (55/0)

Beginning French language and culture taught using a communicative approach. Through the use of drama and themes, this course focuses on listening, speaking, reading and writing skills and the culture of the French-speaking world. Prerequisite: FRCH& 122 HU

FRCH& 221, 222, 223 French IV, V, VI 5 (22/66) Intermediate study of the language and culture of the French-speaking world. Further development of skills taught in first year French plus an introduction to literature. Prerequisite: Instructor permission plus one year of college French for 221; 221 for 222; 222 for 223 HU

GERM& 121 German I 5 (55/0)

Beginning German language and culture taught using a communicative approach. Through the use of drama and themes, this course focuses on listening, speaking, reading and writing skills and the culture of the Germanspeaking world. HU

GERM& 122 German II 5 (55/0)

Beginning German language and culture taught using a communicative approach. Through the use of drama and themes, this course focuses on listening, speaking, reading and writing skills and the culture of the Germanspeaking world. Prerequisite: GERM& 121 HU

GERM& 123 German III 5 (55/0)

Beginning German language and culture taught using a communicative approach. Through the use of drama and themes, this course focuses on listening, speaking, reading and writing skills and the culture of the Germanspeaking world. Prerequisite: GERM& 122 HU

SPAN& 121 Spanish I 5 (55/0)

Beginning Spanish language and culture taught using a communicative approach. Through the use of drama and themes, this course focuses on listening, speaking, reading and writing skills and the culture of the Spanishspeaking world. HU

SPAN& 122 Spanish II 5 (55/0)

Beginning Spanish language and culture taught using a communicative approach. Through the use of drama and themes, this course focuses on listening, speaking, reading and writing skills and the culture of the Spanish-speaking world. Prerequisite: SPAN& 121 HU

SPAN& 123 Spanish III 5 (55/0)

Beginning Spanish language and culture taught using a communicative approach. Through the use of drama and themes, this course focuses on listening, speaking, reading and writing skills and the culture of the Spanishspeaking world. Prerequisite: SPAN& 122 HU

SPAN 211, 212, 213 Spanish for Spanish Speakers I, II, III 5 (55/0)

Written and oral communication skills are developed further, focusing on the specific needs of native speakers educated in the U.S. Cultural awareness is broadened through the study of other Spanish-speaking countries and literature. Prerequisite: SPAN 211 for 212; SPAN 212 for 213; or departmental placement HU

SPAN& 221, 222, 223 Spanish IV, V, VI 5 (55/0)Intermediate study of the language and culture of the Spanish-Speaking world. Further development of oral and written skills taught in first year Spanish plus an introduction to literature. Prerequisite: SPAN& 123 for 221; 221 for 222; 222 for 223; or departmental placement HU

Geography

GGR 101 Physical Geography (44/22)Land forms, climate, vegetation, and soils which characterize man's natural environment. Related vestigations take place in a 2-hour lab period each week. LS

Geology

GEOL& 101 Intro Physical Geology (33/44)This course provides a study of the structure and composition of the earth's crust. Emphasis is placed on weathering, erosional and depositional processes, mountain building forces, rocks and minerals, and structural change. Upon completion, students should be able to explain the structure, composition, and formation of the earth's crust. Prerequisite: Math 099 or above. LS

Health Education

HED 105 Intro to Healthcare Studies 3 (33/0)This course provides the foundation for understanding the educational responsibilities of choosing a career in the healthcare field. Students will identify the scope of education and practice of various members of the healthcare profession in order to develop an educational and career plan. Additional key topics include test-taking preparation, critical thinking, leadership skills, communication styles, ethical decision making, note-taking and

HED 119 Medical Terminology (55/0)This course offers a broad overview of the fundamentals of medical terminology. Topics covered include: prefixes, suffixes, combining forms, word roots, abbreviations and basic human anatomy and physiology as they pertain to all major body structures and functions.

study tactics, and accessing reference sources.

HED 121 The Human Body and Disease I

(55/0)

The first course of a three-part course sequence examining body structure, function and disease. This includes an introduction to the organization of the body, mechanism of disease, and discussion of the anatomy and physiology of skeletal system, muscular system, and the integumentary system. Common diagnostic tests/treatments, pharmacological agents, and possible prognoses for common disease processes are included. There is no lab component. Prerequisite: HED 119 with minimum grade of 2.0 or HED 119 as a co-requisite.

HED 122 The Human Body and Disease II

(55/0)

The second of a three-part course sequence examining body structure, function and disease. This includes the analysis and discussion of the nervous system, endocrine system, the senses, cardiovascular system, and respiratory system. Common diagnostic tests/treatments, pharmacological agents, and possible prognoses for common disease processes are included. There is no lab component Prerequisite: Completion of HED 121 with a minimum grade of 2.0, completion of HED 119 with a minimum grade of 2.0

HED 123 The Human Body and Disease III

(55/0)

The third of a three-part course sequence examining body structure, function and disease. This includes the analysis and discussion of the lymphatic system, gastrointestinal system, the urinary system, reproductive system, and basic diagnostic tests. Common diagnostic tests/treatments, pharmacological agents, and possible prognoses for common disease processes are included. There is no lab component. Prerequisite: Completion of HED 121 and HED 122 with a minimum grade of 2.0, completion of HED 119 with a minimum grade of 2.0.

HED 160 Pharmacology for Allied Health

(33/0)

This basic pharmacology course provides instruction on therapeutic action and major side effects of common drugs, principles of medication and dosage calculations for allied health pathways. Prerequisite: MAP 119 OR MATH 098 (Formerly MA 150)

HED 239 Medical Ethics 2 (22/0)

This course introduces ethical and legal issues facing medical professionals.

High School 21 Completion

(Credits awarded are High School NOT College)

010 Reading/Writing/Communication **HSC**

This course will help students develop critical thinking, reading, and writing skills at the high school level. Students will demonstrate their reading for comprehension and writing skills through reflective essays.

High school completion credit only. May be repeated as necessary. Prerequisite: Students must be registered in a Basic Skills class.

HSC 015 Career and Technical HS Mathematics

The course provides math instruction in applied math concepts to include whole numbers, fractions, decimals, geometrical concepts and shapes, interpreting graphs and charts, statistical information and probability along with algebraic expressions and equations to meet the

math skills required for high school graduation. High school completion credit only. May be repeated as needed. Prerequisite: Students must be enrolled in a Basic Skills class.

HSC 016 Algebra I HS Mathematics

The course provides math instruction in interpreting graphs and charts with algebraic expressions and equations to meet the math skills required for high school graduation. For high school completion credit only. May be repeated as needed. Prerequisite: Students must be enrolled in a Basic Skills class

HSC 017 HS Geometry

The course provides math instruction in applied math concepts to geometrical concepts and shapes and interpreting graphs and charts to meet the math skills required for high school graduation. For high school completion credit only. Prerequisite: Students must be enrolled in a Basic Skills class

HSC 020 General Lab-Science

This lab course provides basic instruction of physical, life and earth science skills necessary for high school graduation. High school completion credit only. Prerequisite: Students must be enrolled in a Basic Skills class

HSC 021 Non-Lab Science

This non-lab course provides basic instruction in physical, life and earth science, necessary for high school graduation. High school completion credit only. Prerequisite: Students must be enrolled in a Basic Skills class

HSC 025 Health and Fitness

This course is designed for students to develop physical and mental health fitness skills as required for high school graduation. High school completion credit only. May be repeated as needed. Prerequisite: Students must be enrolled in a Basic Skills class

HSC 030 United State Constitution and Government

A brief survey of United States Constitution and Government. The content will examine the pathway to the US Constitution and the development of the federal government. High School completion credit only. Prerequisite: Students must be enrolled in a Basic Skills

Prerequisite: Students must be enrolled in a Basic Skills class

HSC 031 Washington State Government and History

This survey course will include Washington State government and history, meeting high school graduation requirements. High school completion credit only. Prerequisite: Students must be enrolled in a Basic Skills class

HSC 032 Contemporary World Events

This survey course provides a brief overview of current events and world geography. High School completion credit only. Prerequisite: Students must be enrolled in a Basic Skills class

HSC 035 Fine Arts

This course will feature content related to visual or performing arts and design as necessary for high school graduation. High school completion credit only. Prerequisite: Students must be enrolled in a Basic Skills class

HSC 040 Occupational Education

This course is designed to assist students in determining their personal, educational and occupational goals by identifying marketable skills and exploring the current labor market. High school completion credit only. Prerequisite: Students must be enrolled in a Basic Skills class

HSC 045 Electives

The course is designed to enable students to earn high school elective credits through independent study. High school completion credit only. May be repeated as needed. Prerequisite: Students must be enrolled in a Basic Skills class

HSC 049 Portfolio

This course is the final capstone project for the HS21+ high school diploma. Students will create a portfolio that demonstrates their cumulative learning, community service project, college readiness, and career readiness. Prerequisite: Students must be enrolled in a Basic Skills class

History

HIST 110 The American Experience 5 (55/0)

A brief history of the United States, this course combines a chronological and thematic approach to answer a few essential questions—the most important of which being, what does it mean to be an American? Critical periods in American History are examined with an eye toward their lasting impact upon American culture and politics. These periods include the colonial and revolutionary era, the age of reform (1830s/40s), the Civil War and Reconstruction, the Age of Industrialization, and world wars, and the Cold War. Essential questions will examine such things as democracy, opportunity, justice and equality.

Please note: This course includes information also covered in greater detail in HIST&136 and HIST&137. SS

HIST& 116 Western Civilization I 5 (55/0)

From the origins of civilization to the dawn of the modern world in the 1500's, this course surveys the classical

world of Greece and Rome, Western Christendom, Byzantium and Islam, the Middle Ages, and the early Renaissance. SS

HIST& 117 Western Civilization II 5 (55/0) From early modern Europe to the Napoleonic Wars in the nineteenth century, this course examines Western civilization in transition: The Renaissance and Reformation, commercial expansion into the Americas, Africa and Asia, absolutism, science, the enlightenment, and

French Revolution. SS

HIST& 118 Western Civilization III 5 (55/0) This course stresses the international transition from European dominance to the rise of superpowers and third world nations. World Wars, depression, Democracy, Nazism, Communism, and the European Community are major themes. (1800 - 1990). SS

HIST 121 History of Mexico 5 (55/0) This course will explore the social, cultural and otherwise varied history of Mexico from prehistoric times to the present. Lectures, discussion and readings will provide additional insights into the ethnic, economic and political realities of Mexico in our time. SS

HIST& 126 World Civilization I (55/0)From the emergence of Buddhism in India to the fall of the Roman Empire, this course provides a general overview of major developments in ancient world history. Students investigate major historical developments as exemplified by the traditional cultures of Africa, Southwest Asia (Middle East), China, Japan, India, Oceania, the Americas, and Europe. Employing the same thinking skills and methods used by historians, students draw on a variety of disciplines and sources to piece together an informed and coherent view of the past and think critically about essential questions including How do humans interact with their environments? and How do belief systems reveal how major groups in society view themselves and others? SS

HIST& 136 US History 1 5 (55/0) From the Reformation in Europe to the end of the Civil War, this course includes colonization, the introduction of slavery, the Revolutionary and Early National Period, the development of political parties, nationalism and sectionalism, and the Civil War. Prerequisites: Placement in ENGL&101 or completion of ENGL 099 SS

HIST& 137 US History 2 5 (55/0) From the end of the Civil War to present day, this course examines Reconstruction, the Gilded Age, America's rise to a world power, World War I, the triumph of Modernism, the Depression and New Deal, World War II, the Cold War, the turbulent 1960s, disillusioned '70s and the Reagan Revolution. More recent events are examined

as ongoing and current events. Prerequisite: Placement in ENGL 101 or completion of ENGL 099 SS

HIST 201 American History to 1840 5 (55/0) This course explores the diversity of Native American cultures from the period before European contact, into the era of conquest and colonization through the creation of the United States and the challenges that followed for these groups SS

210 Tudor England HIST (55/0)Meet the Tudors—history's most famous royal family and soap opera. Beloved by Hollywood, Henry VIII and his children (Edward VI, Mary I, and Elizabeth I) did more than behead spouses and burn heretics. Together they changed the face of the Western World by shepherding the transition from the Middle Ages to the modern world—sometimes willingly too! Exploring the political and religious reformation in England and the nature of the personalities at play, this course seeks to open sixteenth century England and see the great dynasty as it was seen through the eyes of those who lived in terror of it, as well as through the more scholarly—but no less fascinated—eyes of modern historians. SS

HIST& 215 Women in American History 5 (55/0) A survey of women and U.S. history from pre-colonial times to the present. This course explores women's place in American History, including historical attitudes about women's place in society and the realities of life and work for women. This course also covers the women's rights movements from the mid-1800's to the present. Topics include cultural, ethnic, political, social, and economic history. SS

HSIT& 219 Native American History 5 (55/0) A survey of Native American history in the United States, this course explores Native American life before and after European contact, U.S Native American policy from 1789 to the present, and how the Native American nations maintained aspects of their culture in a changing and hostile environment. Students will examine the diverse Native American cultures prior to European contact, examine conflicts nations faced after contact, and study how the nations impacted and contributed to United States history. SS.

HIST 245 American Civil War & Reconstruction 5 (55/0)

This course examines the institutions, events, and personalities that made the Civil War an "irrepressible conflict," and the difficult reconstruction period that followed. The onset of the Civil War was rooted in the national controversy over slavery. For this reason a detailed look at southern slavery, northern industrialism and sectional politics and secession will precede study of the military history of the war itself and the political reconstruction. SS

HIST 250 Ancient Greece 5 (55/0)

A survey course of Greek history, beginning with the first identifiably Greek peoples of the Bronze Age and continuing down through the Dark Ages, the Classical period in Greece, the rise of Macedonia and Alexander the Great and the Hellenistic Age. In addition to the historical developments, we will look at Greek myth and religion, art, philosophy, science and other aspects of Greek culture. SS

HIST 270 The Roman World 5 (55/0)

This course is a survey of Roman history from the founding of the city in the 8th century BC to the collapse of the Empire in the west in the 5th century AD. The content is organized chronologically, but we will also take time to look at Roman culture including literature, art, architecture and drama. SS

Homeland Security

HSEM 102 Introduction to Homeland Security and Emergency Management

(55/0)

Provides groundwork on which emergency services can build a strong foundation for disaster and emergency management for homeland security in the 21st century. Addresses issues, policies, questions, best practices, and lessons learned through recent years; requirements of NFPA® 1600, Standard on Emergency Management and exposure to new and developing theories, practices, and technology in emergency management.

HSEM 110 Incident Command System/National Incident Management System

(22/0)

This course introduces the Incident Command System (ICS) and provides the foundation for higher-level ICS training. This course describes the history, features, and principles and organization structure of the Incident Command System. It also explains the relationship between ICS and the National Incident Management System (NIMS). (Course will meet ICS 100/200/700/800 requirements). Prerequisite: Completion of or concurrent enrollment in HSEM 102

HSEM 120 All Hazards Emergency Planning

(33/0)

This course is designed to introduce students to developing an effective emergency planning system. This course offers training in the fundamentals of the emergency planning process, including the rationale behind planning. Emphasis will be placed on hazard/risk analysis and planning team development. Other topics, such as Continuity of Operations (COOP), Emergency Support Functions, National Response Plan, Washington State Comprehensive Emergency Management Plan

and contingency planning for areas such as Special Needs (Vulnerable Populations) or Animal Sheltering are included. Prerequisite: HSEM 102

HSEM 130 Technology in Emergency Management 3 (33/0)

This class provides a detailed overview of the technology used, and also clearly explains how the technology is applied in the field of emergency management. Students will learn how to utilize technology in emergency planning, response, recovery and mitigation efforts and they'll uncover the key elements that must be in place for technology to enhance the emergency management process. Course overviews include: Web Emergency Operations Center (EOC), using technology with training and exercises, reverse 911 notification systems, video conferencing/downlinks and Geographic Information System (GIS)/ Global Positioning System (GPS) capabilities. Prerequisite: HSEM 102 Introduction to Emergency Management

HSEM 157 Public Information Officer 2 (22/0)

The course is designed to train participants for coordinating and disseminating information released during emergency operations and for assisting in the scheduling and coordination of news conferences and similar media events. After completing this course the student will have met the sections required for Public Information Officer as outlined by NFPA 1035 Prerequisite: HSEM 102 Introduction to Emergency Management

HSEM 160 Emergency Response Awareness to Terrorism 3 (33/0)

Provides current and relevant information about terrorism, terrorist behavior, homeland security policies and dilemmas, and how to deal effectively with threats and the consequences of attacks. Student will gain insight into the key players involved in emergency management, local and state issues, particularly as they need to interact and work with FEMA and other federal agencies. Course components include identifying terrorism, causes of terrorism, preventing terrorist attacks, responding to terrorism attacks and avoidance in communication and leadership collapse. Prerequisite: HSEM 102 - Intro to Emergency Management

HSEM 180 Public Administration 3 (33/0)

This course provides an overview in the structure and issues of public service. Course participants will examine the context of public administration: the political system, the role of federalism, bureaucratic politics and power, and the various theories of administration that guide public managers today. Course components include public administration, personnel, budgeting, decision-making, organizational behavior, leadership, and policy implementation. Lessons will be drawn from the most current applications of public administration today, such

as Hurricane Katrina efforts and Homeland Security. Prerequisite: HSEM 102 Introduction to Emergency Management

HSEM 190 Homeland Security Emergency Management Special Topics

5 (11-55/0)

(22/0)

Special topics will be developed for areas outside the usual course offerings in Homeland Security Emergency Management degree. Topics developed will focus on a specific current issue or concept in the areas of homeland security or emergency management. NOTE: A maximum of five (5) credit hours of HSEM 190 may be used as elective credit toward the HSEM degree. Prerequisite: HSEM 102 Introduction to Emergency Management and 12 additional HSEM credits or HSEM Program Coordinator approval

HSEM 200 Emergency Operations Center

This course provides the student with skills and knowledge to manage an Emergency Operations Center (EOC), acquire and control resources, and interface with on-scene responders within Incident Management Systems. Topics include EOC design, preparing, staffing and operating, jurisdictional setting, and the critical link between Incident Management Systems and emergency management operations. Prerequisite: HSEM 110 Basic ICS/NIMS. Prerequisite: HSEM 110 Basic ICS/NIMS & HSEM 102 Introduction to Emergency Management

HSEM 210 Exercise Design and Evaluation 3 (33/0)

This course provides participants with the knowledge and skills to develop, conduct, evaluate and report effective exercises that test a community's operations plan and operational response capability. Throughout the course, participants will learn about topics including exercise program management, design and development, evaluation, and improvement planning. It also builds a foundation for subsequent exercise courses, which provide the specifics of the Homeland Security Exercise and Evaluation Program (HSEEP) and the National Standard Exercise Curriculum (NSEC). Prerequisite: HSEM 102 Introduction to Emergency Management and HSEM 120 All Hazards Emergency Planning or Program Coordinator approval

HSEM 220 Developing and Managing Volunteer Resources 2 (22/0)

This course will focus on methods and procedures for involving private-sector organizations and volunteers in emergency management programs in ways which benefit both parties. The focus of the course is on maximizing the effectiveness of volunteer resources by implementing a people-oriented system that addresses defining volunteer roles, designing a plan of action, recruiting volunteers, training individuals who volunteer and motivation

and maintenance of a successful program. Participants will acquire skills and knowledge to make appropriate volunteer assignments that enhance the effectiveness of an integrated emergency management system. Prerequisite: HSEM 102 Introduction to Emergency Management

HSEM 230 Disaster Recovery and Response

(22/0)

The purpose of this course is to enable students to understand and think critically about response and recovery operations in the profession of emergency management. Students will utilize problem based learning by analyzing actual disaster events and applying the theories, principals, and practice of response and recovery. In addition, students will learn about the issues faced by special populations and how to address these special needs in natural disaster response and recovery. Prerequisite: Completion of HSEM 102 and Completion of HSEM 120

HSEM 240 Homeland Security Emergency Management Work-based Learning

(55/0)

Provides students "real world experiences" in homeland security and emergency management. Students learn to work within time constraints and are exposed to appropriate workplace behaviors. Students will have opportunities to refine the core skills they have learned from the courses or curriculum. Prerequisite: HSEM 102 Introduction to Emergency Management and HSEM Program Coordinator approval

HSEM 250 Homeland Security Law and Ethics 3 (33/0)

This course is designed to give the student an overview of various statutes, regulations, constitutional law, and common law associated with Homeland Security. This course examines emergency response, weapons of mass destruction, local government powers, Federal Emergency Management Agency (FEMA), Department of Homeland Security, civil rights, international antiterrorism efforts, Homeland Security Act of 2002, and the Patriot Act. Students will be introduced to the legalities and ethics relevant to organizing for counterterrorism, investigating terrorism and other national security threats, crisis and consequence management. Prerequisite: HSEM 102 Introduction to Emergency Management

Humanities

HUM 110 Greek Mythology 5 (55/00) Greek Mythology is the basis for understanding Western literature, art, history and even some symbolism on

literature, art, history and even some symbolism on U.S. currency. More than just entertainment, the ancient myths discuss our relationship to the divine, the nature of power, and the importance of heroics. This course will cover the pantheon of Greek gods and the literary styles of the epic, tragedy, and comedy. HU

HUM 214 Diversity Issues: Race, Class and Gender 5 (55/0)

This cultural diversity studies course examines and investigates culture, behavior, values, identity, stereotypes, person and societal perceptions, and the cultural construction of reality using a literature-based and experientially based cognitive curriculum. This class will explore multicultural society with a mind toward improving students' understanding of their own cultures and the cultures that surround them. Prerequisite: ENGL& 101 or instructor permission HU

Industrial Systems Technology

IST 100 Introduction to Industrial Safety and Health 3 (33/0)

Introduction to basic industrial safety and health incorporating OSHA/WISHA rules and regulations, personal protective equipment, chemical safety, tool safety, material handling safety, machine safety, electrical safety, fire protection, health protection and safe working practices. (Formerly MMT 100)

IST 102 Technical Drawing Interpretation

(22/22)

Fundamental technical drawing, reading and sketching principles, concepts and standards as applied to industry. Tech Prep credit available. (Formerly MMT 102)

IST 105 Basic Electricity – DC Circuit Analysis 5 (33/44)

Fundamentals of DC electricity as applied to series, parallel, and series-parallel circuits. Use of test equipment and troubleshooting simple circuits. Prerequisite: MAP 103 (may be taken concurrently) or instructor permission (Formerly ELC 101)

IST 106 Basic Electricity – AC Circuit Analysis 5 (33/44)

Teaches alternating current theory, waveform quantities and characteristics, including network analysis with reactive components. Proper use of test equipment and troubleshooting simple circuits. Prerequisite: IST 105, MAP 103, or instructor permission (Formerly ELC 102)

IST 107 Industrial Electricity I 5 (33/44)

Electrical theory and application, electrical blueprints, power sources, panels, control devices, motors, etc. Use of test equipment and troubleshooting. Note: For Maintenance Mechanics Prerequisite: IST 102, 106, MAP 103 or instructor permission (Formerly ELC 105)

IST 110 Introduction to the National Electric Code 2 (22/0)

Introduction to Washington State electrical law and the National Electric Code as they pertain to the working electrical technician. Prerequisite: IST 107 or instructor permission (Formerly ELC 107)

IST 111 National Electric Code II 2 (22/0) Application of the Washington State electrical laws (WAC codes) and the National Electric Code as they pertain to the working electrical technician. Prerequisite: IST 110 or instructor permission (Formerly ELC 108)

IST 112 National Electric Code III 2 (22/0) Washington State electrical laws (WAC Codes 296-46, RCW 19.28) and National Electrical Code (NFPA 70) are applied to the working electrician. Prerequisite: IST 111 or instructor permission (Formerly ELC 109)

IST 113 Industrial Electrical Installation Techniques 5 (33/44)

Fundamentals of raceway, wire and utilization equipment installations for plant safety, efficiency and long economic life. Prerequisite: IST 107 or instructor permission (Formerly ELC 110)

IST 120 Introduction to Preventive/Predictive Maintenance 3 (22/22)

Theory and practice of preventive and predictive maintenance concepts. Performing routine preventative maintenance and scheduling predictive maintenance outages. Prerequisite: IST 102, MAP 103, or instructor permission (Formerly MMT 220)

IST 130 Introduction to Refrigeration and Air Conditioning 5 (33/44)

Fundamental physical, chemical, engineering, and mechanical aspects of the refrigeration process. IST 100, 102, 106, MAP 103, or instructor permission (Formerly MMT 120)

IST 136 Intro to Industrial Boiler Technology 5 (33/44)

This course involves the fundamental principles of steam generation, boiler designs, components, operation, water treatment, safety procedures and related steam generation equipment. Prerequisite: IST 107 or instructor permission

IST 141 Intro to Mechanized Irrigation Applications I 5 (27/55)

his class will introduce the history and development of mechanized irrigation. It will distinguish the basic irrigation systems: pivot, swing arm corner, and lateral move systems. Course work will examine the various propulsion systems, electrical/electronic/digital logic controls and irrigation hydraulic principles. It will focus on technical service and operation aspects in a "real-life" lab environment under actual conditions. Prerequisites: IST 101 and IST 102

IST 142 Mechanized Irrigation Applications II 5 (27/55)

This class will reinforce the concepts of mechanized irrigation systems acquired from the intro class. Course work will provide an in-depth and practical view of the various propulsion systems, electrical/electronic/digital logic controls and irrigation hydraulic principles. It will focus on technical service and operation aspects irrigation service technicians experience in the field. Instruction using "real-life" lab equipment under authentic conditions provides "hands on" experience similar to actual field work. Prerequisites: IST 141; Intro to Mechanized Irrigation Applications I

IST 150 Introduction to Programmable Logic Controllers 5 (33/44)

Introduction to programmable logic controller principles, hardware, and operation. Includes ladder logic, instruction, maintenance and troubleshooting. Prerequisite: IST 107, MAP 103, or instructor permission (Formerly ELC 150)

IST 152 Programmable Automation Control

5 (33/44)

Programmable Logic Controllers have become the backbone of modern industrial automation. This course explores PLC principles, networking, hardware and operation, with emphasis on ladder logic instruction sets, maintenance and troubleshooting using the Allen-Bradley Compact Logix™ platform and Control Logix™ programming software. Prerequisite: IST 150 or instructor permission. (Formerly IST 250)

IST 170 Introduction to Instrumentation

(33/44)

Fundamentals of process control as it applies to process variables, measurement dynamics, & automatic corrective measures in the industrial environment. Prerequisite: IST 107 or instructor permission (Formerly ELC 170)

IST 180 Machining I 5 (33/44)

Layout and fabrication techniques with the use of semiprecision and precision measurement tools. Introduction to drill press, engine lathe and vertical mill operations. Prerequisite: IST 102, MAP 103, or instructor permission (Formerly MMT 110)

IST 182 Machining II 5 (33/44)

Fundamentals of machining processes on lathes and vertical mills. Precision measurement with micrometers, vernier calipers, and dial indicators. Prerequisite: IST 180 or instructor permission (Formerly MMT 111)

IST 184 Machining-Skill Enhancement

(11/66)

Extra hands on time and instruction to supplement the students machining skill level using fundamental machining processes on lathes, vertical milling machines and other machine shop equipment. Prerequisite: IST 182 or instructor permission (Formerly MMT 115)

IST 207 Industrial Electricity II 5 (33/44)

Electrical theory and function as it applies to various control schemes with a practical understanding of the logic and safety considerations required for efficient control of stand alone machinery and or a complex system. Prerequisite: IST 107 or instructor permission (Formerly ELC 205)

IST 208 Industrial Electricity III 5 (33/44)

Electrical theory, operation and set-up of variable frequency drives (VFD's), soft start devices, 4-20 ma. control loops and grounding issues associated with electronic devices. Prerequisite: IST 207 or instructor permission (Formerly ELC 215)

IST 221 Electronics I (Principles) 5 (33/44) Introduction to principles and applications of analog and digital electronic devices, circuits, and systems. Prerequisite: IST 106 or instructor permission (Formerly ELC 223)

IST 222 Electronics II (Applications) 5 (33/44) Construct and analyze operation of analog and digital electronic devices, circuits, and systems using schematic diagrams, test equipment, and logical trouble shooting procedures. Prerequisite: IST 221 or instructor permission (Formerly ELC 224)

IST 223 Electronics III (Industrial) 5 (33/44 Instruction and training in troubleshooting, testing and repairing industrial control devices. Electrical motor drives, instrumentation, and programmable controllers will be covered. Prerequisite: IST 222 or instructor permission (Formerly ELC 225)

IST 224 Electronic Communications I 5 (33/44)

Provides instruction covering the basic concepts of electronic communication equipment and systems. Emphasis is on radio frequency and other high speed data applications that are being applied in new configurations within the industrial community. Prerequisite: IST or instructor permission.

IST 225 Electronic Communications II 5 (33/44) Continuing instruction on the concepts of electronic communication equipment and systems. With emphasis on cellular, and other wireless applications, that are being applied in new configurations within the industrial community. Prerequisite: IST 224 or Instructor permission

IST 226 Introduction to Fiber Optics: Theory, Systems, and Applications

5 (33/44)

Introduction to fiber optics equipment and systems. Fiber perspective as a communications medium, with emphasis on the advantages of fiber compared to copper or radio linked systems. Review of the importance of electronics communications with explanations of basic concepts such as bits and bytes, analog and digital, and light. Prerequisite: IST 225 or Instructor permission

IST 270 Instrumentation II & Control Actuators 5 (33/44)

Maintenance procedures and troubleshooting techniques for control/measurement loops in the industrial environment along with fundamentals of control valves, actuators, their applications, techniques of safe trouble shooting, testing, repairing, and calibrating final control elements. Prerequisite: IST 170, 223, or instructor permission (Formerly ELC 271)

IST 280 Mechanical Power Transmission

(33/44)

Fundamentals of industrial mechanical power transmission. Includes lubrication, bearings, speed reducers, gears, couplings, drive components, brakes, clutches, and adjustable speed drives. Prerequisite: IST 100, 102, MAP 103, or instructor permission (Formerly MMT 210)

IST 282 Fluid Power Transmission 5 (33/44) Fundamentals of industrial hydraulic, pneumatic, and vacuum systems. Includes pumps, piping, compressors, check valves, cylinders, motors, control valves and flow controls. Prerequisite: IST 100, 102, MAP 103, or instructor permission (Formerly MMT 211)

IST 284 Pumping Hydraulics & Mechanics

(33/44)

This course explores the fundamentals of pump system characteristics, hydraulic principles, and pumping technology; including various designs, pump seals, lubrication, & mechanical maintenance. Prerequisite: IST 280 or instructor permission

IST 295 Work Based Learning 1-6 (0/0/33-198) A supervised work experience in industrial systems enhancing the application of classroom instruction and skills and/or area of specialization approved by the program advisor. May be repeated up to twelve (12) credits. Prerequisite: Instructor permission; Corequisite: IST 297

IST 297 Work Based Learning Seminar

(11/0)

Feedback and discussion to integrate and relate work based learning and classroom based instruction. Work ethic, leadership, safety and occupational health, environmental issues, and other student generated topics are examined. May be repeated up to six (6) credits. Prerequisite: instructor permission Corequisite: IST 295

Journalism

JOU 140 Digital Photojournalism 3 (22/22) For persons interested in using digital cameras and

computer techniques to produce images for newspapers, magazines, and other print media, and for Internet transmission and web sites. Students will be required to produce images showing specific examples of photojournalism. HP

Math (Applied)

All students, regardless of background, must take a math placement assessment before enrolling in any math course.

MAP 100 Applied Mathematics (AMT) Approved by FAA. 2 (22/0)

Must be enrolled in the Aviation Maintenance Technology Program. This course will cover aircraft technical mathematics and is designed for the Aviation Maintenance Technology student. It will cover the fundamental mathematical principles required for successful completion of the Aviation Maintenance Technology program. This course is FAA approved under 14 CFR Part 147. Prerequisite: DVS 080 or placement in MATH 094 or above. Must be enrolled in the Aviation Maintenance Technology program.

MAP 101 Applied Mathematics (AUT/WLD)

3-5 (33-55/0)

This class provides review and instruction in whole numbers, decimals, fractions, measurement, ration proportion, percents, introduction to algebra, and introduction to geometry. This basic instruction and review is followed by vocational program specific mathematics instruction. Students will study mathematics for welding or automotive repair. The emphasis is on providing work in relevant work-specific problems and situations. Prerequisite: DVS 080 or placement in MATH 094 or above.

MAP 103 Applied Mathematics (IST) 5 (55/0) This class provides review and instruction in whole numbers, decimals, fractions, measurement, ratio, proportion, percents, introduction to algebra, and introduction to

persents, introduction to algebra, and introduction to geometry. This basic instruction and review is followed by vocational program specific mathematics instruction.

Students will study mathematics for electricity/electronics. The emphasis is on providing a solid mathematics base to facilitate assimilation of more complex mathematics as well as providing course work in relevant workspecific problems and situations. Collaborative learning is encouraged and built into the course to give students practice in a key skill used in the workplace. Prerequisite: DVS 080 or placement in Math 094 or above.

MAP 104 Applied Mathematics (AVF) 3 (33/0) This course will cover aviation technical mathematics and is designed for the Commercial Pilot Program flight student. It will cover the fundamental mathematical principles required for the successful completion of the Commercial Pilot Program. Prerequisite: DVS 080 or

MAP 117 Applied Math for Workforce Programs I 1-5 (11-55/0)

placement in MATH 094 or above.

This course includes the study of basic arithmetic and algebraic concepts and operations including operations with integers, fractions, decimals and percents, order of operations, measurement, the metric system, algebraic expressions, formulas and simple linear equations. Students will complete exercises and problems providing practice in workforce program-specific applications. Credit cannot be earned in both MAP 117 and MATH 094. Prerequisite: DVS 080 or placement

MAP 119 Applied Math for Workforce Programs II 1-5 (11-55/0)

This course includes the study of intermediate algebraic operations/concepts and the structure/use of algebra. This includes solving, graphing, and solving applications of linear equations and systems of equations; simplifying, factoring, and solving quadratic functions, introduction to functions and models; and exponential and logarithmic functions. Students will complete exercises and problems providing practice in workforce program-specific applications. Prerequisite: MATH 094 or placement

MAP 121 Applied Math for Workforce Programs III 1-5 (11-55/0)

This course is designed to prepare students for precalculus and finite math. It includes the study of inequalities, applications of systems, rational expressions, functions, radicals, rational exponents, radical equations, complex numbers, quadratic equations and their application. Students will complete exercises and problems providing practice in workforce program-specific applications. Credit cannot be earned in both MAP 121 and MATH 099. Prerequisite: MATH 098, MAP 119 or placement

Mathematics

All students, regardless of background, must take a math placement assessment before being allowed to enroll in any math course.

MATH 010 Mathematics Laboratory

Permits the use of the math lab computer resources by non-BBCC students during math lab hours.

MATH 094 Introduction to Algebra 5 (55/0)

This course includes the study of basic arithmetic and algebraic including operations with integers, fractions, decimals and percents; order of operations, measurement, the metric system, algebraic expressions, formulas and simple linear equations(formerly MPC 090, Math 090) Prerequisite: DVS 080 or appropriate placement on the BBCC math placement exam

MATH 097 Elementary Algebra II 5 (55/0)

This course includes the study of basic and intermediate algebraic operations and concepts, and the structure and use of algebra. This includes factoring algebraic expressions, working with rational expressions, systems of equations and applications Prerequisite: one of the following: BBCC math placement exam or successful completion of at least five units in MATH 098. (will start after Proficiency Exam #2)

MATH 098 Intermediate Algebra I 5 (55/0)

This course includes the study of intermediate algebraic operations and concepts, and the structure and use of algebra. This includes solving, graphing, and solving applications of linear equations and systems of equations; simplifying, factoring, and solving quadratic functions, introduction to functions and models; and exponential and logarithmic functions along with applications. (Formerly Math 095, 096) Prerequisite: MATH 094 or placement.

MATH 099 Intermediate Algebra II 5 (55/0)

This course is designed to prepare students for precalculus and finite math. It includes the study of inequalities, applications of systems, rational expressions, functions, radicals, rational exponents, radical equations, complex numbers, quadratic equations and their application. (Formerly Math 098) Prerequisite: Math 098 or placement

MATH& 107 Math in Society 5 (55/0)

This course will introduce the non-math/science major to mathematical applications in a variety of disciplines. Prerequisite: Appropriate scores in the BBCC Mathematics Assessment or successful completion of MATH 098 or placement into MATH 099/107/146. (F,W,S) SQR MS

MATH& 141 Precalculus I 5 (55/0)

This course will present the following concepts: college level algebra, introduction to functions and graphing, the graphs and properties of polynomial, rational, radical, exponential and logarithmic functions. Prerequisite: MATH 099 SQR MS

MATH& 142 Precalculus II

In preparation for calculus this is a comprehensive study of trigonometry, circular functions, right triangle trigonometry, analytical trigonometry. Sequences, series and induction are also covered. Prerequisite: MATH& 141 SQR MS

MATH& 146 Introduction to Statistics (55/0)

An introduction to descriptive statistics, probability and its applications, statistical inference and hypothesis testing, predictive statistics, and linear regression. Prerequisite: Appropriate scores in the BBCC Mathematics Assessment or successful completion of MATH 098 or placement into MATH 099/107/146. SQR MS

MATH 147 Finite Mathematics (55/0)

This course introduces the student to applications of linear functions in business; applications of matrices to systems of equations, linear programming and optimization, game theory, Markov chains, Leontiff input/output models, etc; introduction to probability and decision analysis. Prerequisite: Appropriate scores in the BBCC Mathematics Assessment or successful completion of MATH 099, SQR MS

MATH& 148 Business Calculus (55/0)

This is an introductory calculus course for business and economics students. It includes an introduction to rates of change, differentiation, integration, areas, and appropriate calculus techniques. There are also applications to marginal analysis in economics, optimization and other relevant applications.. Prerequisite: MATH& 141, placement in the class or instructor permission. SQR MS

MATH& 151 Calculus I (55/0)

This course will introduce the student to the basic concepts of the calculus. It will give the student an appreciation of the calculus and its applications in the real world and will prepare the student for future work in mathematics and the sciences. Course includes functions, limits, continuity, derivatives and their applications, and integration and its applications. Prerequisite: MATH& 142, or placement, or instructor permission SQR MS

MATH& 152 Calculus II (55/0)

This course will expand on the applications and techniques of differentiation learned in the first quarter and give a depth study of integration including the fundamental methods of integrating elementary algebraic and transcendental functions. It will include the applications of the calculus to transcendental functions, analytical geometry and other relevant topics. Prerequisite: MATH& 151 or instructor permission SQR MS

MATH& 163 Calculus 3

(55/0)

(55/0)

(55/0)

This course will expand on the applications and techniques of differentiation learned in the first and second quarters. It will introduce the student to the calculus of sequences and series and the use of the MacLauren and Taylor series to approximate functions. It will introduce the student to the calculus of curvilinear functions and the concept of the vector and vector functions. It will also introduce the concept of a partial derivative and the maximization of functions given in more than one independent variable. Prerequisite: MATH& 152 or instructor permission SQR MS

MATH 220 Linear Algebra

A study of matrix algebra and systems of equations, abstract vector spaces including basis and dimension, linear transformations, eigenvalues and eigenvectors. Some applications of linear algebra to illustrate the above concepts. Prerequisite: MATH& 152 or instructor permission SQR MS

MATH 230 Differential Equations (55/0)

This course will introduce the student to the solution elementary differential equations and standard applications of differential equations in science. It will include the solution of first order linear differential equations with applications to exponential growth and decay problems, mixture problems, orthogonal trajectories, etc., solutions to second order differential equations with applications to harmonic motion, and the LaPlace transform. Prerequisite: MATH& 163 or instructor permission SQR MS

MATH& 254 Calculus IV (55/0)

This course is an introduction to multivariable calculus. It includes the study of three dimensional space curves, vector-valued functions, partial derivatives, differentials, directional derivatives, multiple integration, vector fields, line integrals, Green's and Stoke's theorems, surface integrals, and the divergence theorem. Prerequisite: MATH& 163 or permission of instructor. SQR MS

Mechatronics

MCT 101 Mechatronics I 5 (44/22)

An introduction to the multidisciplinary field of mechatronics – the integration of systems design, electronic, mechanical, electrical, computers and control sciences/ engineering. This course will introduce students to the fundamental electrical, electronics, communications and computational theory that forms the foundation for future studies in the field of mechatronics, with a focus on small unmanned aerial systems (sUAS). Students will build and demonstrate a sUAS as part of a team project.

Prerequisite: MAP 119 (or concurrent enrollment)

MCT 102 Mechatronics II 5 (44/22)

This (second) course in mechatronics will address microcontroller programming, data acquisition, sensors, actuators, computer science and control architectures. Students will design and demonstrate a microcontroller system built as part of a team project. Prerequisite: Completion of MCT 101 or instructor permission

MCT 103 Mechatronics III 5 (44/22)

This (third) course in mechatronics will address the use of microcontrollers and microprocessors functioning with sensor and control systems. Students will learn how to use and interface with a variety of physical world sensors, using this knowledge to build several sensor related projects and demonstrate a small unmanned aerial system (UAS) as part of a team project. Prerequisite: Completion of MCT 102 or instructor permission

MCT 110 Introduction to Mechatronic Applications 3 (22/22)

An exploratory, hands-on course in mechatronics (the merger of mechanical engineering, electrical engineering, computer control and information technology), as related to the disciplines of computer science, medical simulation, and unmanned systems. This course addresses the skills required for effective career research and educational planning, as well as academic techniques for becoming a successful student in mechatronics related courses, certificates and majors

MCT 120 Robotics I 5 (44/22)

Students are introduced to the world of robotics, including the mechanisms, dynamics, control systems, sensors, vision, and basic programming and file management used in modern robotic systems. Students will build, program and test a robotic system as part of a group project. Prerequisite: Completion of MCT 102 or instructor permission

MCT 129 Independent Project 2-5 (0/22-110)

MCT 129 is an independent study course allowing students to research, design and complete a mechatronics project incorporating the use of Global Position Systems (GPS) as a primary control component. Projects must be approved and supervised by a faculty member.

MCT 220 Robotics II 5 (44/22)

This second course in robotics addresses challenges and trends in the engineering, manufacturing, and programming of automated mechatronics systems. Students will build, program and test a robotic system using open-source technologies, as well as apply course activities to real-world applications. Prerequisite: Completion of MCT 102 or instructor permission

Medical Assistant

MA 111 Clinical Procedures I 3 (11/22)

This course is an introduction to medical assisting. It introduces basic clinical skills and medical front office skills as well as the importance of work ethics and interpersonal communications. Prerequisite: Instructor permission required

MA 112 Clinical Procedures II 4 (22/44)

This course builds upon knowledge and skills acquired during Clinical Procedures I. Students will further their understanding of the medical front office by learning diagnosis and procedural coding, office management, scheduling and written communication. The students will also build upon previously learned clinical skills by understanding infection control, sterile field protocol, physical therapy and rehabilitation and administration of medication. During this class students will also learn and practice injection techniques. Prerequisite: Minimum final grade of 2.0 in MA 111 or instructor permission required

MA 113 Clinical Procedures III 4 (22/44)

This course builds upon knowledge and skills acquired during Clinical Procedures I and II. Students will further their understanding of the medical front office by learning about electronic medical records, as well as insurance and billing. The students will also investigate different specialty practices such as ENT, Ophthalmology, Pediatrics, Radiology, Cardiology, Pulmonology, Geriatrics, Urology, OB/GYN, Phlebotomy and the clinical laboratory. Prerequisite: Minimum final grade of 2.0 in MA 112 or instructor permission required

MA 195 Externship/Practicum for the Medical Assistant 6 (0/0/198)

The course will focus students on real life work in a medical office assisting physicians and office personnel by performing assigned duties in both administrative and clinical procedures. The work experience is supported by instructor site visits and classroom seminars where students and faculty can review on-the-job experiences. Prerequisite: Passing score for the American Medical Technologist national certification examination and instructor permission. Must be taken concurrently with MA 197.

MA 197 Externship/Practicum Seminar

(11/0)

This class enhances students' abilities and work based learning at the externship site. Students will review important topics by applying the concepts acquired in the clinical area. Students will share information, procedures and experiences in different medical settings with other students. Visitations to other medical facilities will be a component of this course. Prerequisite: MA 113 and 150 with grades of 2.0 or higher; Corequisite: MA 195

Medical Simulation Technician

SIM 110 Fundamentals of SIM Programming 2 (22/0)

This course covers basic concepts of simulation hardware and software in order to address the impact of hardware design on applications and systems software. Specifically, students will focus on simulation theo ry as it applies to the basic components and application of simulation equipment and software. Student must pass this course with a minimum 2.0 grade in order to be applied to degree completion.

SIM 120 Medical Equipment Research 2 (22/0)

This course will help students develop an understanding of human body systems in relation to equipment utilized in the healthcare profession in order to apply it to the medical simulation environment. Specifically, by researching common healthcare content areas such as general head-to-toe assessment equipment, IV therapy and medication administration equipment, and emergency resuscitation equipment, students will be able to exhibit critical thinking and problem solving skills to locate, analyze and apply medical equipment information. Student must pass this course with a minimum 2.0 grade in order to be applied to degree completion.

SIM 130 Introduction to Medical Simulation 5 (33/44)

By engaging in hands-on training, students will learn to prepare, rehearse, and implement Basic Life Support (BLS) simulated training scenarios. Additionally, this course will strengthen an understanding of basic programming and maintenance for high and low fidelity manikins while concurrently developing team dynamics, problem solving, and critical thinking skills. Student must pass this course with a minimum 2.0 grade in order to be applied to degree completion.

SIM 140 Basic Simulation Maintenance 5 (33/44)

This course addresses the functionality of simulation equipment while focusing on equipment management and error prevention. Course topics include resource management, utility testing, and targeted assessment strategies. Student must pass this course with a minimum 2.0 grade in order to be applied to degree completion.

SIM 161 SIM Pharmacology Lab 1 (0/22)

This course is designed to build on the content learned in Pharmacology Essentials. It provides students with an opportunity to apply pharmacology principles to simulated manikins in order to record the effects of medication administration to simulated patients with varying disease conditions. Student must pass this course with a minimum 2.0 grade in order to be applied to degree completion. Prerequisite: Math 098

SIM 211 Advanced Life Support Scenarios

(33/44)

Utilizing a high level of engagement strategies and collaboration with community partners, students will direct the management of simulation case-based scenarios in relation to cardiopulmonary arrest and other cardiovascular emergencies. Specifically, this course will focus on developing and implementing ACLS training scenarios for nursing instruction, hospital and medical providers, and emergency response teams. Student must pass this course with a minimum 2.0 grade in order to be applied to degree completion Prerequisite: SIM 110, SIM 120, SIM 130, and SIM 140

SIM 220 SIM System Administration 5 (44/22)

By engaging in strategies to promote the upkeep, connectivity, and reliable operation of simulation audiovisual equipment, students learn how to develop and implement reliable access points for audiovisual debriefing. Student must pass this course with a minimum 2.0 grade in order to be applied to degree completion. Prerequisite: CS& 141 and SIM 211

SIM 221 Pediatric Scenarios 5 (33/44)

This course focuses on designing and running simulation case-based scenarios for emergencies involving infants and children. Students will be required to develop and implement PALS scenarios that can be used for emergency response, emergency medicine, intensive care, and critical response healthcare teams. Additional emphasis will be given to debriefing strategies and techniques. Student must pass this course with a minimum 2.0 grade in order to be applied to degree completion. Prerequisite: SIM 161 and SIM 211.

SIM 222 Clinical Focused Simulation 5 (11/88)

This course will focus on the practical application of skills taught in previous simulation courses as applied to the Allied Healthcare setting. Comprehension, application, and leadership are all key skills that are required for students to begin to demonstrate as they engage in the process of running their own simulations for Allied Health end users. Prerequisite: SIM 161 and SIM 211. Corequisite: SIM 220 and SIM 221.

SIM 230 Learning Management Systems

5 (55//0)

Medical simulation is a complex integration of technology that requires the use of online support materials. It is the Simulation Technician's role to organize and present this support material electronically with the use of a Learning Management System. This course is designed to train students how to develop and implement instructional support materials for high and low fidelity simulations by using Learning Management Systems. A strong focus will be placed on accessibility, instructional strategies, and assessment. Prerequisite: SIM 221 and SIM 222.

SIM 232 SIM by Design 3

By using principles of instructional design and high fidelity simulation standards, students will develop, pilot, revise, and implement new simulation scenarios. These scenarios will be employed in the students' practicum site and be evaluated using a 360 degree feedback process. Prerequisite: SIM 220, SIM 221 and SIM 222. Corequisite: SIM 230 and SIM 295

(33/0)

SIM 295 Practicum in Community Simulation 2 (0/0/66)

In this capstone course, students work on simulation projects in a healthcare setting, under the direct supervision of a healthcare professional, to practice the application of learned medical simulation theory and lab skills. Prerequisite: SIM 221 and SIM 222. Corequisite: SIM 297 and SIM 232

SIM 297 SIM Seminar 1 (11/0)

This class enhances students' abilities and work-based learning at the practicum site. Students will review important topics by applying the concepts acquired in the clinical and community areas. Students will share information, procedures and experiences in different medical settings with other students. Prerequisite: SIM 220, SIM 221 and SIM 222. Corequisite: SIM 230 and SIM 295

Music

MUSC 100 Introduction to Music 5 (55/0)

A survey course for non-majors. Introduction to the materials of music and world music literature, with a special emphasis on the literature, composers and history of the Western European Art Music tradition. HU

MUSC& 105 Music Appreciation 5 (55/0)

This course is designed to acquaint students with the elements of music and enhance the student's experience in listening to music from a global perspective. By drawing attention to the wide variety of music and the place/role of music in different cultures, students will develop an awareness of the diverse musical styles and cultures in the United States and throughout the world. HU

MUSC 110 College Chorus 1 (0/22)

This traditional ensemble made up of mixed voices rehearses a wide variety of choral literature for study and performance. This ensemble will perform quarterly for campus and community events. This course may be repeated for up to six credits. HP

MUSC 114 Mariachi Workshop 3 (11/44)

Through a variety of learning experiences students will be introduced to traditional Mexican Mariachi music. Through reading, listening, singing and playing, students will experience, discover, explore and create music from this rich musical heritage. Students will work as a group in a supervised workshop environment to develop vocal and instrumental performing skills. May be repeated for credit. HP

MUSC 115 Group Piano I 2 (22/11)

This course presents the basic concepts and skills to develop performing proficiency at the piano. Musical activities and projects will build growth in technical skills such as major and minor scale patterns, musical skills such as sight reading and improvisation, theoretical concepts such as notation, rhythm patterns, melodic shapes and forms, and creative skills such as completing melodic phrases and inventing melodic variations. Repertoire will reflect the development of increasingly advanced solo and ensemble pieces. HP

MUSC 116 Group Piano II 2 (22/11)

This course presents the basic to intermediate concepts and skills to develop performing proficiency at the piano. Musical activities and projects will build growth in technical skills such as major and minor scale patterns, musical skills such as sight reading and improvisation, theoretical concepts such as notation, rhythm patterns, melodic shapes and forms, and creative skills such as completing melodic phrases and inventing melodic variations. Repertoire will reflect the development of increasingly advanced solo and ensemble pieces. HP

MUSC 117 Group Piano III 2 (11/22)

This course presents the intermediate concepts and skills to develop performing proficiency at the piano. Musical activities and projects will build growth in technical skills such as major and minor scale patterns, musical skills such as sight reading and improvisation, theoretical concepts such as notation, rhythm patterns, melodic shapes and forms, and creative skills such as completing melodic phrases and inventing melodic variations. Repertoire will reflect the development of increasingly advanced solo and ensemble pieces. HP

MUSC 120 College Band 1 (0/22)

This traditional ensemble made up of woodwind, brass, and percussion instruments rehearses a wide variety of concert band literature for study and performance. This ensemble will perform quarterly for campus and community events. This course may be repeated for up to six credits. HP

MUSC 124, 224 Orchestra I, II 2 (11/22)

A community and college orchestra that plays for community musicals and graduation as well as other functions throughout the year. May be repeated for credit. Prerequisite: Performance ability on an orchestral instrument. HP

MUSC 134 Group Guitar

(11/22)

This course provides students with an interactive approach to the fundamentals of playing the guitar. Each student's playing aptitude will be accommodated with different options within a unified set of goals. It will include reading tablature and standard notation, introducing chords and solo pieces using a variety of techniques, and provide an overview of basic guitar care and maintenance. This course may be repeated for up to six credits. HP

MUSC 170 History of Jazz

(55/0)

This course covers the history and origin of Jazz and its stylistic development from the various periods of pre-jazz to today. The class will include an extensive study of important musicians, composers, arrangers, and styles which evolved the genre. The class will include detailed listening assignments and an introduction to jazz musical vocabulary and concepts. HU

MUSC 174 History of Rock and Roll 5 (55/0)

This course presents the history of rock music from its origins to the present day. Students will study all major genres, as well as the social, political, technological, and economic forces that shaped the music. The class will include detailed listening assignments and an introduction to rock music vocabulary and concepts. HU

MUSC 175 Music of the World 5 (55/0)

This course introduces world music tradition, including both sound and socio-cultural dimensions of music. Students will study the musical styles of major non-Western cultures, including Africa, India, Asia, Indonesia, and Eastern Europe. Topic will include instrumentation, rhythmic structure, melodic structure, song forms, composition, improvisation, family and community participation, political/economic connection, and religious involvement. HU

MUSC 204 Music Technology Workshop 3 (22/22)

This course introduces concepts in modern electronic music production. It will include acoustics, notation, MIDI, loops, sampling, audio recording, editing, and mixing through class instruction and hands-on learning. Student projects will culminate in the preparation of student compositions and arrangements. HU

MUSC 215 Group Piano IV 2 (0/44)

This course presents the intermediate concepts and skills to develop performing proficiency at the piano. Musical activities and projects will build growth in technical skills such as major and minor scale patterns, musical skills such as sight reading and improvisation, theoretical concepts such as notation, rhythm patterns, melodic shapes and forms, and creative skills such as completing melodic phrases and inventing melodic variations. Repertoire will reflect the development of increasingly advanced solo and ensemble pieces. HP

MUSC 216 Group Piano V 2 (0/44)

This course presents the intermediate and advanced concepts and skills to develop performing proficiency at the piano. Musical activities and projects will build growth in technical skills such as major and minor scale patterns, musical skills such as sight reading and improvisation, theoretical concepts such as notation, rhythm patterns, melodic shapes and forms, and creative skills such as completing melodic phrases and inventing melodic variations. Repertoire will reflect the development of increasingly advanced solo and ensemble pieces. HP

MUSC 217 Group Piano VI 2

This course presents the advanced concepts and skills to develop performing proficiency at the piano. Musical activities and projects will build growth in technical skills such as major and minor scale patterns, musical skills such as sight reading and improvisation, theoretical concepts such as notation, rhythm patterns, melodic shapes and forms, and creative skills such as completing melodic phrases and inventing melodic variations. Repertoire will reflect the development of increasingly advanced solo and ensemble pieces. HP

MUSC 270 Musical Theatre Workshop 1 (0/22)

This class explores Musical Theatre in a studio workshop setting. Students will study the work of the actor/singer/dancer and use their gained knowledge to develop as performers. Also, students will prepare and present as soloists as well as members of small groups and larger ensembles. Since this is a workshop course, students will prepare material for class presentation and critique. The class will also focus on the audition process, musical theatre history, and repertoire selection. Finally, the entire class will participate in a culminating showcase performance at the end of the quarter. This course may be repeated for up to six credits. Some performances may be held at off-campus venues. HP

Nursing

NUR 100 Nursing Assistant 9 (44/110)

This course prepares students to take the Nursing Assistant examination as outlined by federal and state guidelines. Training will include classroom, skills lab, and clinical experience. Prerequisite: Read, write, speak and understand English at the level necessary for performing duties of the nursing assistant. (Placement in ENGL 099 or above) Tech Prep credit available.

NUR 101 Survival Skills for the Nursing Student

(11/0)

(0/44)

This course will give the nursing student the opportunity to effectively meet the challenges of nursing education. Study skills, critical thinking skills, learning styles, and

test taking strategies will be explored. Prerequisite: Admission into the nursing program Corequisite: NUR 110 or instructor permission.

NUR 103 HIV/AIDS Education 1 (4/14)

An HIV/AIDS education course designed to meet the Washington State mandatory requirements for health-care and childcare providers. Successful completion includes HIV/AIDS education certificate.

NUR 110 Fundamentals of Nursing 5 (55/0) Focus is on fundamental nursing theory for the practice of nursing. Basic human needs and ethical considerations are addressed with emphasis on the adult and elderly population. Prerequisite: Admission into the Level I AD Nursing Program and current Washington NAC

NUR 111 Fundamentals of Nursing Practicum

certificate

(0/66)

Practical application in the clinical setting of nursing theory and skills taught in NUR 110 and NUR 135. Practicum focuses on nursing care to a variety of adult and geriatric patients. Prerequisite: Admission into the Level I ADN nursing program

NUR 114 Pharmacology 2 (22/0)

An introduction to nursing principles of medication administration. Explores the therapeutic actions, major side effects, and nursing implications of common drugs in major classifications. Principles of medication administration and dosage calculation are included. Prerequisite: Completion of MATH 098 with a grade of 2.0 or higher or placement in MATH 099. Corequisite: NUR 110 or instructor permission.

NUR 115 Beginning Pharmacology Concepts I 1 (11/0)

This course offers specific in-depth pharmacology information as it relates to common diseases discussed in the Beginning Nursing Concepts Course (NUR 120) Prerequisite: NUR 114

NUR 120 Beginning Nursing Concepts I

6 (66/0)

Focus is on nursing theory as it relates to the adult patient with commonly occurring health conditions, and includes an introduction to the care of the patient in the perioperative and maternal/newborn setting. Professional roles and progression are incorporated in this course. Prerequisite: Admission into the nursing program and BIOL& 260 with a grade of 2.0 G.P.A or above.

NUR 121 Beginning Nursing Practicum I

(0/88)

Practical application in the clinical setting of nursing theory and skills taught in previous nursing courses and introduced in NUR 120 and NUR 136. Practicum

focuses on nursing care to a variety of patients in the medical/surgical, perioperative, and maternal newborn setting. Prerequisite: BIOL& 260 with a 2.0 G.P.A or above.

NUR 130 Beginning Nursing Concepts II 6 (66/0)

This course continues to focus on nursing theory as it relates to basic needs throughout the lifespan, including care of the pediatric patient. Bioethical dilemmas and ethical decision making processes are incorporated. Prerequisite: Admission into the nursing program and NUTR& 101 with a 2.0 G.P.A or above

NUR 131 Beginning Nursing Practicum II 5 (0/110)

Practical application in the clinical setting of nursing theory and skills taught in previous nursing courses and introduced in NUR 130 and NUR 137. Practicum focuses on nursing care to a variety patients across the lifespan. Prerequisite: NUTR& 101 with 2.0 G.P.A or above.

NUR 135 Nursing Skills Laboratory 1 (0/22)

This course provides for the practice of nursing skills in a controlled setting in order to gain proficiency for delivery of nursing care in the clinical setting (NUR 111). The content is based on theoretical nursing knowledge taught in NUR 110. Prerequisite: Admission into the Level I ADN Program

NUR 136 Nursing Skills Laboratory 1 (0/22)

This course provides for the practice of nursing skills in a controlled setting in order to gain proficiency for delivery of nursing care in the clinical setting (NUR 121). The content is based on theoretical nursing knowledge taught in NUR 120. Prerequisite: BIOI& 260 with a 2.0 G.P.A or above

NUR 137 Nursing Skills Laboratory 1 (0/22)

This course provides for the practice of nursing skills in a controlled setting in order to gain proficiency for delivery of nursing care in the clinical setting (NUR 131). The content is based on theoretical nursing knowledge taught in NUR 130. Prerequisite: NUTR&101 with a 2.0 G.P.A or above

NUR 140 PN Completion/Transition 4 (44/0)

Theoretical nursing knowledge focuses on selected health conditions pertinent to medical and surgical patients. Includes legal and professional considerations and is the completion course for students transitioning into the Practical Nurse Setting. Transition course for Licensed PNs entering the ADN program and is optional for other ADN students. Prerequisite: PSYC& 100, with a 2.0 G.P.A. or current LPN licensure and permission of program director

NUR 141 PN Completion/Transition Practicum

3 (0/176)

Practical application in the clinical setting of nursing theory and skills taught in previous nursing courses and introduced in NUR 140. Practicum focuses on nursing care to a variety of medical, surgical, and psychiatric patients. Prerequisite: PSYC&100 with a 2.0 G.P.A. or above, or current LPN Licensure and permission of program director

NUR 189 Writing for Nursing Education

(11/0)

This course is designed to help students gain skills in the practical application of written communication specific to nursing education. Practical application and use of APA format and application of various clinical charting formats will be emphasized. Prerequisite: Admission into the nursing program

NUR 195 Work-Based Learning Practicum

1-3 (0/33-99)

A supervised work experience in the allied healthcare field designed to enhance the application of learned nursing theory and lab skills. Prerequisite: Instructor permission; Corequisite: NUR 197

NUR 197 Work-Based Learning Seminar

(11/0)

A small group seminar setting in which students can discuss their Work-Based Learning Practicum (NUR 195) experience with a nursing instructor and other students. Prerequisite: Instructor permission; Corequisite: NUR 195

NUR 210 Advanced Nursing Concepts I

(55/0)

Focus is on advanced nursing theory as it relates to complicated health deviations in patients throughout the lifespan. Current professional issues and role development are incorporated in this course. Prerequisite: PSYC& 100 with a 2.0 G.P.A. or above, or current LPN Licensure and permission of program director

NUR 211 Advanced Nursing Practicum I

(0/110)

Practical application in the clinical setting of nursing theory and skills taught in previous nursing courses and introduced in NUR 210 and NUR 235. Practicum focuses on advanced nursing care to a variety of patients, in various settings, and throughout all stages of the lifespan. Prerequisite: Admission to the Level II ADN Program

NUR 215 Advanced Pharmacology Concepts

(11/0)

This course focuses on specific in-depth pharmacology information as it relates to the complex disease

processes taught in Advanced Nursing Concepts I (NUR 210). Prerequisite: NUR 114 and admission into the nursing program

NUR 220 Advanced Nursing Concepts II

(55/0)

This course continues to focus on expansion of theoretical nursing knowledge related to complex disease states. Delegation and leadership concepts are incorporated in this course. Prerequisite: PSYC& 200, with a minimum 2.0 G.P.A or above

NUR 221 Advanced Nursing Practicum II

(0/110)

Clinical focus is on application of principles and skills taught in previous nursing courses and introduced NUR 220 and NUR 236. Practicum focuses on advanced nursing care to less stable patients in a variety of setting throughout the lifespan. Prerequisite: PSYC& 200 with a minimum 2.0 G.P.A or above

NUR 230 Advanced Nursing Concepts III

5 (55/0)

Focus on advanced theoretical knowledge as it relates to complex/multiple disease entities and emergency situations. A transition to employment component is incorporated to prepare the student for post graduation employment. Prerequisite: CMST& 220 with a minimum 2.0 G.P.A or above

NUR 231 Advanced Nursing Practicum III

4 (0/0/132)

This course focuses on increasing independence and skill in the performance and management of patient care in the clinical setting under the guidance of a registered nurse, based on nursing theory and skills taught in previous nursing courses. Prerequisite: CMST& 220 with a minimum 2.0 or above

NUR 232 EKG Interpretation I 1 (0/22)

This course gives the student fundamental skills in interpreting basic EKG rhythms. A systematic approach to EKG waveform analysis will be used to identify the most common Sinus, Atrial, Junctional, and Ventricular rhythms. This approach will also be used to identify Atrioventricular Blocks, Paced rhythms and artifact. Prerequisite: Instructor permission

NUR 235 Nursing Skills Laboratory 1 (0/22)

This course provides for the practice of nursing skills in a controlled setting in order to gain proficiency for delivery of nursing care in the clinical setting (NUR 211). The content is based on theoretical nursing knowledge taught in NUR 210. Prerequisite: Admission into the Level II ADN Program

NUR 236 Nursing Skills Laboratory (0/22)This course provides for the practice of nursing skills in a controlled setting in order to gain proficiency for delivery of patient care in the clinical setting (NUR 221). The content is based on theoretical nursing knowledge taught in NUR 220 and previous courses. Prerequisite: PSYC&

NUR 240 Professional Issues 1-4 (0-44/0-88)

200, with a 2.0 G.P.A or above

This course is designed to assist students in making the transition from the academic setting to a healthcare work environment. It provides preparation for the NCLEX examination, and information about the professional role of the nurse and the legal and ethical responsibilities related to the practice of nursing in the State of Washington. Prerequisite: Instructor permission

264 Cardiac Arrest Management 1 (2.75/16.5) This course offers the student the opportunity to manage the client who has experienced cardiac or respiratory arrest. There will also be a significant component related to management of the pre-arrest client and prevention of progression to cardiac arrest. The focus will be on practical application of Advanced Life Support Skills. Prerequisite: Knowledge of EKG interpretation of common dysrhythmias. Current CPR certification

(22/88)NUR 276 Perioperative Nursing I This is the first of two consecutive courses designed to introduce the Registered Nurse to the perioperative setting which incorporates the nursing process into all phases of patient care (pre, intra, and post operative). Based on AORN curriculum. Prerequisite: Registered Nurse

NUR 277 Perioperative Nursing II 6 (22/88)This is the last of two courses designed to introduce the Registered Nurse to the perioperative setting which

incorporates the nursing process into all phases of patient care (pre, intra, and post operative). Continuation of NUR 276. Prerequisite: NUR 276

NUR 295 Work-Based Learning Practicum

1-3 (0/33-99)

A supervised work experience in the allied healthcare field designed to enhance the application of learned nursing theory and lab skills. Area of learning must be approved by instructor. Prerequisite: Instructor permission; Co-requisite: NUR 297

NUR 297 Work-Based Learning Seminar

(11/0)

A small group seminar setting in which students can discuss their Work-Based Learning Practicum (NUR 295) experience with a nursing instructor and other students. Prerequisite: Instructor permission; Co-requisite: NUR 295

Nutrition

(55/0)

(55/0)

NUTR& 101 Nutrition

This introductory course in nutrition will focus on current ideas in nutrition and areas of research. This class will present information on the chemistry and the biological function of nutrients in the body. Diseases associated with an excess or deficit in nutrients will also be explored. Students will acquire a better understanding of some impacts of food choices on a personal level. Prerequisite: ENGL 099 or placement in ENGL& 101 NS

Philosophy

PHIL& 101 Intro to Philosophy

This course is an introduction to philosophy for students who have no previous background in the subject. The course presents a broad overview of philosophical topics of interest and importance such as the nature of knowledge and the contents of reality. HU

PHIL& 120 Symbolic Logic (55/0)

This course is a study of the methods and principles used to distinguish correct from incorrect reasoning. Students are expected to prove their understanding of formal deductive symbolic logic by completing logic proofs in categorical, propositional, and predicate logic. Prerequisite: MATH 098 or above. SQR HU

PHIL 210 Ethics (55/0)

An introduction to ethical theories and some of today's main moral problems such as abortion, euthanasia, war, and capital punishment. Topics vary. HU

PHIL 211 Ethics for Criminal Justice (55/0)A study of the principal ethical theories and their application to individual and social morality tied to the field of

Criminal Justice. Prerequisite: CJ& 101 HU

230 East Indian Philosophy (55/0)

This course will provide an introduction to the classical philosophical schools of India. It will discuss the problems and methods of these schools and their relationships with some of the major schools of Western Philosophy, HU

240 Philosophy of Religion (55/0)PHIL

Philosophy of religion is an attempt to think critically and rationally about religious issues. This course will use classic and contemporary texts to explore several interesting issues such as the problem of evil: if God is all knowing, all powerful, and all good, then why do the innocent suffer? Many philosophers have tried to answer that question and more. HU

250 Asian Philosophy **PHIL** (55/0)

This course introduces to students the major intellectual currents in East Asia, with the focus on Confucianism,

Taoism, and Buddhism. Student will follow the unfolding of the intellectual history chronologically, and discuss the teachings of most influential thinkers in East Asia. HU

Physical Education and Health

PEH 100 Lifetime Wellness 3 (33/0)

Lifetime Wellness is designed to promote the student's understanding of their physical, emotional, and social health needs, and to develop strategies to meet these needs and improve overall health and well-being. SE

PEH 102 Theory of Basketball 3 (22/22)

Designed for students to learn the basic skills required to teach or coach basketball. Emphasis is placed on analyzing fundamentals, gaining knowledge of offensive and defensive strategy and becoming familiar with the responsibilities of a basketball program. SE

PEH 105 Theory of Baseball 3 (22/22)

A practical course relating to the coaching aspect of baseball. Emphasis is placed on teaching/coaching strategies, the body mechanics of the athlete, evaluation methods, and the organization of a baseball program. SE

PEH 106 Theory of Fast Pitch Softball 3 (22/22)

A practical course relating to the coaching aspect of softball. Emphasis is placed on teaching/coaching strategies, the body mechanics of the athlete, evaluation methods, and the organization of a softball program. SE

PEH 107 Theory of Volleyball 3 (22/22)

A practical course relating to the coaching aspect of volleyball. Emphasis is placed on teaching/coaching strategies, the body mechanics of the athlete, evaluation methods, and the organization of a softball program. SE

PEH 114 Basketball 1 (0/22)

Basketball is designed to improve the student's basketball skills/knowledge and to provide an awareness of the sport as a lifetime activity offering fun and fitness. May be repeated for up to three (3) credits. AC

PEH 119 Fast Pitch 1 (0/22)

Fast Pitch is designed to improve the student's softball skills/knowledge so to participate successfully and enjoyably in the team activity of softball. May be repeated for up to three (3) credits. AC

PEH 122 Volleyball 1 (0/22)

Volleyball is designed to improve the student's volleyball skills/knowledge so to participate successfully and enjoyably in the team activity of volleyball. Emphasis will be on executing proper fundamentals of the game. May be repeated for up to three (3) credits. AC

PEH 125 Conditioning

1 (0/22) tudent to the

Conditioning is designed to introduce the student to the basic principles and training methods for body conditioning so they can establish an exercise program to enhance overall wellbeing. May be repeated for up to three (3) credits. AC

PEH 131 Circuit Weight Training 1 (0/22)

Circuit weight training is designed to introduce the student to the basic principles and training methods for weight training so to establish a program to enhance build and maintain muscular strength and endurance. May be repeated for up to three (3) credits. AC

PEH 132 Fitness 1 (0/22)

An overall conditioning program with emphasis on developing strength, endurance, flexibility, and cardiovascular conditioning that lead to the development of a fitness attitude. May be repeated for up to three (3) credits AC

PEH 133 Weight Training 1 (0/22)

Weight training is designed to enhance the student's knowledge and practices regarding the basic techniques of weight training using weight machines and free weights. May be repeated for up to three (3) credits. AC

PEH 137 Beginning Brazilian Jiu-Jitsu 1 (0/22)

Designed to teach students the art and sport of Brazilian Jiu-Jitsu (BJJ). The purpose of this class shall be to provide a structured and safe environment for learning and practicing the grappling art of Brazilian Jiu-Jitsu, along with some techniques from Judo, Sambo and wrestling. This class will focus on providing opportunities for students to gain effective self-defense and grappling experience, increase physical health, provide stress relief and promote a positive lifestyle of continual improvement. *Emphasizes self-control and situational awareness in grappling-based self-defense using non-violent neutralization positions and techniques for life-threatening situations.

PEH 149 Jogging for Health 1 (0/22)

Designed to increase the student's level of physical fitness, teach proper methods of running, improve future life expectancy, encourage weight reduction and body fat levels, and establish a permanent habit of exercise. May be repeated for up to three (3) credits. AC

PEH 153 Lifeguard Training 2 (11/24)

Instruction leading to qualification for American Red Cross Lifeguard/First Aid/CPR/AED training certification. Prerequisite: Persons are eligible who have passed their fifteenth birthday, are in sound physical condition, and have completed the following prerequisites:

 Fifteen years of age on or before the beginning of the course

- Swim 300 yards continuously demonstrating breath control and rhythmic breath. Candidates may swim using the front crawl, breaststroke or a combination of both but swimming on the back or side is not allowed.
- Tread water for 2 minutes using only the legs. Candidates should place their hands under the armpits.
- Complete a timed event within 1 minute, 40 seconds.
 - Starting in the water, swim 20 yards.
 - Surface dive, feet-first or head-first, to a depth of 7 to 10 feet to retrieve a 10-pound object.
 - Return to the surface and swim 20 yards on the back to return to the starting point with both hands holding the object and keeping the face at or near the surface so they are able to get a breath. Candidates should not swim the distance under water.
 - Exit the water without using a ladder or steps.
 AC

PEH 155 Body Toning 1 (0/22)

This course involves special exercise and calisthenics which enhance total fitness, figure improvement, body toning, weight control, and posture. Students will use balance/fitness balls and light to medium dumbbells to improve overall core strength and balance of the body. May be repeated for up to three (3) credits. AC

PEH 158 Racquetball 1 (0/22)

Racquetball is designed to introduce the student to the knowledge and basic skills of badminton and to develop those skills to a level that enables the student to participate in the sport at a beginning level. May be repeated for up to three (3) credits. AC

PEH 160 Baseball Skills 1 (0/22)

A practical course involved in the coaching aspects of baseball, both defensively and offensively. Explains catching, throwing, running techniques, abilities for the player in each position, hitting, bunting, base running techniques and game strategies. May be repeated for up to three (3) credits. AC

PEH 178 Principles of Fitness 3 (22/22)

Principles of Fitness is designed to introduce the student to the components, administration, and assessment of fitness programs. Lab component will include the building and execution of the student's own fitness program. SE

Physics

PHYS& 110 Physics for Non-Science Majors with Lab 5 (44/22)

This course is a general survey course for the non-science major. The course helps develop an awareness

of the physical concepts which govern our everyday experiences. Topics will include most of the following, depending on class preparation and interest: describing motion, Newton's laws of motion and gravitation, energy and conservation laws, states of matter and its behavior, thermodynamics, waves, electricity and magnetism, optics, atomic and nuclear physics, special relativity. Conceptual reasoning is stressed, and mathematics is kept to the level of elementary algebra. Laboratories emphasize concepts learned in lecture, and graphing and data handling techniques are learned. This course is offered primarily to meet the Associate in Arts and Science laboratory science requirement. Prerequisites: MATH 098 or placement into a higher level mathematics course. LS (formerly PHYS& 100 and 101)

PHYS& 114 General Physics I with Lab 5 (44/22)

The first course in an three-quarter algebra-based sequence for students pursuing degrees in biology, pre-dentistry, pre-medicine, pre-veterinary medicine, engineering technology, zoology, and other fields. Students should check with the requirements of their intended baccalaureate institution when considering this sequence. A balance of conceptual understanding and problem-solving ability is emphasized; laboratory and lecture are integrated in the sequence. This first course will begin with an introduction to units and unit conversion, scalars and vectors, and using right-angle trigonometry for analyzing two-dimensional motion, then continue to the study of mechanics: describing motion, with speed, velocity, and acceleration; application of Newton's laws in one and two dimensions; impulse and momentum conservation; work and energy conservation; rotational motion and torque. Biological applications of physics will be studied whenever possible. Prerequisites: Completion of MATH 099 with 2.0 or higher, or instructor permission; concurrent enrollment in SCI 104 recommended. LS

PHYS& 115 General Physics II with Lab 5 (44/22)

The second course in an three-quarter algebra-based sequence. A balance of conceptual understanding and problem-solving ability is emphasized; laboratory and lecture are integrated in the sequence. In this second quarter the topics studied will include fluids, oscillations, waves and sound, thermodynamics, geometric and physical optics. Biological applications of physics will be studied whenever possible. Prerequisites: Completion of PHYS& 114 with 2.0 or higher. LS

PHYS& 116 General Physics III with Lab 5 (44/22)

The third course in an three-quarter algebra-based sequence. A balance of conceptual understanding and problem-solving ability is emphasized; laboratory and lecture are integrated in the sequence. In this third quarter the topics studied will include electricity, magnetism, electromagnetic induction and waves, quantum

physics, atomic physics, and nuclear physics. Biological applications of physics will be studied whenever possible. Prerequisites: Completion of PHYS& 115 with 2.0 or higher. LS

PHYS& 221 Engineering Physics I w/Lab 5 (44/22). The course is an introductory physics course intended for students majoring in science or engineering. This course is the first of a three-quarter sequence. Course content includes the laws of motion, energy, momentum, and static equilibrium. Prerequisite: Calculus I (Math&151) or concurrent enrollment LS

PHYS& 222 Engineering Physics II w/Lab 5 (44/22) The second in a three-quarter calculus-based sequence in introductory physics intended for students majoring in science or engineering. Course content includes thermodynamics, waves, and optics. Prerequisite: Successful completion of Engineering Physics I (PHYS& 221) LS

PHYS& 223 Engineering Physics III w/Lab 5 (44/22) The third in a three-quarter calculus-based sequence in introductory physics intended for students majoring in science or engineering. Course content includes static electricity, current electricity, magnetism, and special relativity. Prerequisite: Successful completion of PHYS& 221 and PHYS& 222 LS

Political Science

POLS& 101 Introduction to Political Science 5 (55/0) In order to make politics relevant to the people, one must go where the people are. Many Americans find politics to be distant and irrelevant to their daily experience without ever realizing that politics are all around them in many different formats: song, stage, literature, and animation. This class brings the students face-to-face with such realities while emphasizing an understanding of the nature, purpose, and practice of politics. The basic concepts of political science will be presented using popular culture to convey these concepts in an engaging and thought provoking manner. SS

POLS& 202 American Government 5 (55/0) From the constitutional convention in Philadelphia (1788) to the most recent presidential elections, this course explores American politics and governmental functions. The focus is on the interaction and structure of the executive, legislative, and judicial branches of the national government, and a survey of the philosophic foundations for the American governmental system. SS

POLS& 203 International Relations 5 (55/0) This course serves as an introduction to global relations, focusing on historical backgrounds, current struggles, and the struggle to define the post-cold-war world.

Students taking this course are encouraged to adopt a global outlook and will participate in a mock international conference designed to provide direct experience in the world of diplomacy. SS

Psychology

PSYC& 100 General Psychology 5 (55/0) A broad survey course designed to study human behavior with reference to biology, learning, motivation, emotion, perception, intelligence, human development, mental processes, personality, abnormal behavior, and research. SS

PSYC& 200 Lifespan Psychology 5 (55/0) This course examines the physical, intellectual, emotional, and social growth and development that occurs throughout the human life-span. Prerequisite: Completion of PSYC& 100 SS

PSYC 225 Psychology and the Legal System 5 (55/0)

As the study of human behavior, psychology must also include the study of law, which is a primary instrument used by society to control human behavior. Psychology and law is a vibrant area of research interest within the discipline of psychology. This course is a survey of the major topics represented in the field of psychology and law. This course focuses on how psychological research (across sub-disciplines such as clinical, social, cognitive, and community psychology) can contribute to a better understanding of issues related to law or legal process, how the legal system can be informated by the results of psychological research, and how psychological research can be more reactive to legal issues. Prerequisite/corequisite: PSYC& 100 or CJ& 101 SS

Religious Studies

REL 201 World Religions 5 (55/0) A survey of the origin, development, and present beliefs and practices of the world's major religions: Hinduism, Buddhism, Confucianism, Taoism, Judaism, Christianity, and Islam. HU

REL 211 Religion in America 5 (55/0)
A study of American religious groups, principally Christian denominations, including selected sects and cults.
Various beliefs and practices will be examined in light of historical and social influences. HU

Science

SCI 101 Survey of Science 5 (55/0)
An introduction to and survey of the natural sciences of astronomy, biology, chemistry, geology, and physics. NS

SCI 104 Math for Science and Engineering

2 (22/0)

Math concepts heavily used by science and engineering coursework are covered. Topics will include (but not limited to): unit conversions, scientific notation, right angle trigonometry, logarithms and exponents, applications of linear graphs, vectors, and significant figures. All topics will be covered with an emphasis on applications within the sciences. Prerequisite: Math 098. SE

Sociology

SOC& 101 Intro to Sociology 5 (55/0)

Sociology is the scientific study of human groups and their social systems. Sociologists study how groups are organized and structured, their character and interaction, how groups change, and their impact on individuals. The course focuses on applying the "sociological imagination" which in turn helps students understand and appreciate different societies and cultures both contemporary and historical. Prerequisites: There are no prerequisites. Strongly recommended placement in MATH 098 or higher and placement in English 099 of higher SS

SOC& 201 Social Problems 5 (55/0)

A sociological analysis of the major social problems facing both the United States and the world today. Among the topics analyzed are: Family and disorganization, social deviance, poverty, crime, over population, and environmental degradation. Strongly recommend placement in Math 098 or higher and placement in ENGL 099 or higher. SS

SOC 204 Gender and Power 5 (55/0)

This course is an introduction to the discipline of Women's Studies, surveying numerous academic areas and exploring concepts basic to the field. Students will critically examine the social understandings of gender, and the powerful role it plays in American culture. Areas of consideration will include the role of gender in education, labor, economics, and privacy issues. Prerequisite: ENGL& 101 completion recommended SS

SOC 220 Marriage and the Family 5 (55/0)

A sociological inquiry into the American institution of marriage and family life. The course includes an analysis of dating, the single life, sexuality, marriage, parenthood, communication, divorce, and many other topics relevant to marriage, mating, and family life today. Strongly recommend placement in Math 098 or higher and placement in ENGL 099 or higher. SS

Social Work

(55/0)

SOCW 110 Introduction to Social Work 5

This course is a general introduction to the history of social work, the issues social workers encounter, the systems in which social workers work, the theories and

practices social workers utilize, as well as the services they provide across the varying field of practice.

Unmanned Navigation Systems

GIS 110 Geographic Information Systems (GIS) I

4 (38.5/11)

Using basic capabilities of ArcGIS software tools, students are introduced to geographic information systems (GIS) concepts, including coordinate systems, spatial data analysis, data editing, data queries, database development, map creation, and report generation. Prerequisite: MAP 119 (Applied Mathematics for Workforce Programs II) or Instructor Permission

GIS 210 Geographic Information Systems (GIS) II 3 (33/0)

This second course in geographic information systems (GIS) focuses on spatial data analysis, including the use of interpolation, contours, data intersections, and overlay analysis. Students will make extensive use of ArcGIS software tools. PREREQUISITE: GIS 110 (GIS I) or instructor permission

GIS 220 Remote Sensing 3 (33/0)

This course addresses key aspects of remote sensing. Topics include the electromagnetic spectrum, satellites and remote sensing systems, manned/ unmanned aircraft and remote sensing systems, basic image interpretation and analysis concepts, and remote sensing applications (i.e., agriculture, forestry, geology, etc.). Prerequisite: MAP 119 (Applied Mathematics for Workforce Programs II) or Instructor Permission

UMS 101 Introduction to Unmanned Aircraft Systems (UAS) 5 (44/22)

Students will be introduced to unmanned aircraft systems (UAS), including UAS types, system operations, current legal and ethical issues, the flight authorization process, safety of flight, sense and avoid technologies, sensors and payloads, human factors, and UAS simulator operation.

UMS 107 Commercial UAS Remote Pilot (Part 107) 2 (16.5/11)

Students will receive an in-depth introduction to FAA Part 107 rules and regulations, associated theory, procedures, requirements and operating concepts, as well as actual hands-on flight training in the BBCC enclosed UAS Flight Lab, with an emphasis on safety of flight. This course provides students with the knowledge base required to effectively prepare for FAA Part 107 Commercial Unmanned Aircraft System (UAS) Remote Pilot certification. Note: The Part 107 UAS Remote Pilot testing fee is not included in the tuition for this course.

UMS 112 Unmanned Aerial Systems (UAS) Ground School I 5 (44/22)

This unmanned aerial system (UAS) ground school course addresses UAS performance, principles of flight/ aerodynamics, power plants and systems, the National Airspace System, navigation, weather, rules and regulations, incident reporting procedures, communications procedures, advisory circulars, operating limitations, aeronautical decision making and judgment, documentation/logbook requirements, runaway UAS/emergency flight procedures, and preflight planning/flight approval processes. Prerequisite: MAP 119 (Applied Mathematics for Workforce Programs) or Instructor Permission

UMS 142 Unmanned Aerial Systems (UAS) Flight Lab 6 (11/110)

This course provides students with extensive hands-on flight experience of both rotary wing and fixed wing UAS. Focus in on safety of flight, preflight/post-flight inspection, pilot-in-command (PIC) and observer communications requirements, flight control techniques, precision flight maneuvers, runaway/emergency flight procedures, and execution of flight profiles for successful sensor/data collection. Prerequisite: UMS 112 (UAS Ground School) or Instructor Permission

UMS 208 Unmanned Aerial Systems (UAS) Mission Planning 5 (33/44)

Using mission planning software, students will plan a variety of UAS missions in support of simulated operations. This will include (but not limited to) operations in support of agriculture, real estate marketing, search and rescue (SAR), law enforcement, construction, avalanche control, natural disaster response, power line and transportation infrastructure inspection. Prerequisite: UMS 112 (UAS Ground School) and UMS 226 (UAS Remote Sensing) or instructor permission

UMS 210 Unmanned Aerial Systems (UAS) Laws & Policies 5 (55/0)

This course addresses local, state and federal unmanned aerial system (UAS) laws, regulations, policy statements, orders and guidance, as well as civil rights, liberties, ethics, and aircraft/pilot certification.

UMS 220 Beyond Line of Sight (BLOS) Operations 3 (33/0)

This course addresses the challenges of command and control, communications, autopilot, navigation, and aviation safety in successfully performing beyond line of sight (BLOS) unmanned aerial systems (UAS) operations. Prerequisite: Completion of UMS 101 or instructor permission

UMS 226 Unmanned Aerial Systems (UAS) Remote Sensing Systems 5 (44/22)

This course provides a comprehensive survey of passive and active remote sensing devices commonly carried on unmanned aerial systems (UAS), as well as an introduction to key remote sensing terms and concepts.

Prerequisite: MAP 119 (Applied Mathematics for Workforce Programs) or Instructor Permission

UMS 295 Independent Project 2-5 (6/33-99)

UMS 295 is an independent study course for students to research, design and complete an unmanned systems related project. Projects must be approved and supervised by a faculty member. Prerequisite: Instructor permission. Prerequisite: Instructor Permission

Welding

WLD 101 Oxy-Acetylene Welding for Auto Mechanics 2 (11/22)

Fundamentals of oxy-acetylene welding and cutting. Lessons include carbon-steel welding and brazing, aluminum and cast-iron welding and cast-iron welding and oxy-acetylene, plasma arc cutting. Practical knowledge of safety in the use and handling of equipment and compressed gases will be stressed throughout the quarter. Prerequisite: Enrollment in automotive technology program

WLD 102 ARC/GMAW Welding for Automotive Technicians 2 (11/22)

This course covers the fundamentals of the GMAW process for welding carbon steel, stainless steel and aluminum. Using these materials, the student will learn to run stringer beads, butt, lap and 'T' joints, in all positions with various modes of metal deposition and using different gasses. Prerequisite: Enrollment in automotive technology program

WLD 103 Beginning AMT Welding** 2 (11/22)

Fundamentals of oxy-acetylene welding with carbon steel and aluminum, as well as brazing and braze welding with carbon steel; soldering with stainless steel, and carbon steel; Gas Tungsten Arc Welding (GTAW) with aluminum, stainless steel, and carbon steel. Practical knowledge of safety in the use and handling of the equipment and compressed gases will be stressed throughout the quarter. This course is FAA approved under 14 CFR Part 147.

Prerequisite(s): Enrollment in AMT 151 or AMT 152

WLD 110 Welding Theory I 5 (55/0)

General introduction to industrial welding and cutting. Safety rules of oxy-fuel, electric welding processes, principles, and electrodes.

WLD 111 Welding Process I* 3-6 (0/66-132) IAn introduction to the Shielded Metal Arc Welding process. Students will perform beads, fillets and Plate tests in all position with E6010 and E7018 Electrodes. Students must complete all 6 credits of WLD 111 prior to enrolling in WLD 121.

WLD 112 Thermal Cutting and Welding*

(0/66)

Various techniques of steel cutting with oxy-fuel, air carbon arc, plasma arc processes and oxy-acetylene welding and brazing with various metals.

WLD 120 Welding Theory II 5 (55/0) Fundamentals of G.M.A.W. and F.C.A.W. processes with their related equipment. Basics of electrical theory and welding machines. Shielding gasses, filler materials, and general welding procedures including carbon steel, stainless steel, and aluminum. Prerequisite: WLD 110 or instructors permission

WLD 121 Welding Process II* 3-6 (0/66-132) An introduction to welding open root joints. Students use E6010 to complete open root corner joints out of position and open root plate tests out of position. Students must complete all 6 credits of WLD 121 prior to enrolling in WLD 131. Prerequisite: 6 credits of WLD 111

WLD 122 Gas Metal Arc Welding I 3 (0/66) Students will learn to apply the Gas Metal Arc Welding (MIG) process on steel in all positions using the short circuit transfer mode and the spray transfer mode in the flat and horizontal positions. Prerequisite: WLD 112

WLD 130 Welding Theory III 5 (55/0) Basic welding blueprint reading and interpretations of conventional drafting, symbology, and specialized welding symbols: basic lines and views, dimensions, welding symbols, abbreviations, pipe welding symbols, NDT symbols and ISO welding symbols. Prerequisite: WLD 120 or Instructors permission

WLD 131 Welding Process III* 3-6 (0/66-132) Using E-7018 electrodes, students weld corner joints, groove plates in all positions and ASME and WABO performance certification tests. Students must complete all 6 credits of WLD 131 prior to enrolling in more advanced welding classes. Prerequisite: 6 credits of WLD 121

WLD 132 Gas Tungsten Arc Welding I (T.I.G.)* 3 (0/66)

Students will learn to apply the Gas Tungstenl Arc Welding (TIG) process on steel and aluminum. short circuit transfer mode . Prerequisite: WLD 122

WLD 151 Technical Drawings Interpretation

(22/22)

Basic technical drawings interpretation skills for welding engineering to develop abilities in reading and understanding technical drawings; emphasis on visualization and sketching of multi-view, isometric, schematic, and pictorial drawings. Tech Prep credit available. Prerequisite: MAP 101 or instructors permission.

WLD 152 Welding Layout I 3 (22/22)

Specialized weldment drafting techniques; intersections and developments, patterns for geometric shapes used in cardboard, sheet metal and structural shapes: fabrication and model construction. Prerequisite: WLD 151 or instructors permission.

WLD 153 Welding Layout II 3 (22/22) Basic technical pipe drawing interpretations and devel-

opments. Patterns for geometric shape used in pipe component fabrication and model construction. Prerequisite: WLD 152 or instructors permission.

WLD 190, 290 Skill Improvement

2-6 (0/44-132)

Extra welding time and instruction to enhance student's welding skills and/or update their qualifications for testing. This is an open enrollment course offered throughout each quarter. (May be repeated for credit; graded on pass-fail basis.) Prerequisite: Instructor permission

WLD 205 Weld Testing Methods 4 (33/22)

Upon successful completion of the course the student will understand the various methods used to test welds. Students will be capable of applying a variety of destructive tests to asses the soundness, ductility, and strength of various weldments. Students will also have a working knowledge of the common methods used in industry to non-destructively examine weldments for acceptability. Prerequisite: WLD 130 or instructors permission.

WLD 206 Welding Codes and Standards

4 (33/22)

Upon successful completion of the course the student will be able to follow codes to interpret their workmanship. Use procedure qualifications and performance qualifications. Use DT and NDT methods to inspect the students own weldments. Use visual inspection of welded structures. Prerequisite: WLD 205 or instructors permission.

WLD 207 Welding Metallurgy 4 (33/22)

An introduction to metallurgy. Ferrous and nonferrous metals, alloys and their groupings will be covered. Prerequisite: WLD 206 or instructors permission

WLD 212 Gas Metal Arc Welding II* 3 (0/66) Students will learn to apply both types of Flux core arc welding process on steel and perform Gas Metal Arc Welding on aluminum and stainless steel. Prerequisite: WLD 132

WLD 241 Structural Weld Process I 6 (0/132)
This course focuses on student learning of structural connection mockups applying the Shielded Metal Arc and Flux Cored Arc Welding processes. Prerequisite: WLD 131 or instructor permission

WLD 242 Structural Welding I 3 (0/66) An introductory course focusing on fabrication of structural weldments utilizing shielded metal arc welding and

flux cored arc welding on structural connections. Prerequisite: WLD 212

instructor permission

WLD 243 Structural Weld Process II 6 (0/132) A structural welding course focusing on student application of Shielded Metal and Flux Cored Arc Welding processes on large outdoor structural weldments in accordance with drawings. Prerequisite: WLD 241 or

WLD 244 Submerged Arc Welding 3 (0/66)

This course focuses on student learning of submerged arc welding process which entails an arc that takes place beneath a bed of granular flux. This is a high deposition industrial orientated welding process that is used to manufacture light to heavy weldments. Prerequisite: WLD 242 or instructor permission

WLD 245 Structural Weld Process III 6 (0/132) A structural welding course focusing on student appli-

A structural welding course focusing on student application of Shielded Metal and Flux Cored Arc Welding processes on tubular structural weldments in accordance with drawings. Prerequisite: WLD 153, 243, or instructor permission

WLD 261 Production Weld Process I 6 (0/132)

An introductory course focusing on student learning of production welding techniques by applying the Gas Metal Arc, Flux Cored Arc, and Gas Tungsten Arc Welding processes. Prerequisite: WLD 131 or instructor permission

WLD 262 Production Welding I 3 (0/66)

This course focuses on student learning of production welding within a shop setting. Prerequisite: WLD 212 or instructors permission

WLD 263 Production Weld II 6 (0/132)

An intermediate course that focuses on student learning of production welding techniques by applying the Gas Metal Arc, Flux Cored Arc, and Gas Tungsten Arc Welding processes on large parts in accordance with drawings. Prerequisite: WLD 261 or instructor permission

WLD 264 Advanced Weld Process 3 (0/66) An advanced course focusing on student learning of welding processes such as pulsed gas metal arc, pulsed gas tungsten arc, and welding on advanced materials i.e., titanium and inconel. Prerequisite: WLD 262 or instructors permission.

WLD 265 Production Welding Process III 6 (0/132)

An advanced production welding course focusing on application of Gas Metal Arc, Flux Cored Arc, and Gas Tungsten Arc Welding processes on small parts in accordance with drawings. Parts will be welded in student manufactured fixtures. Prerequisite: WLD 263 or instructor permission

WLD 281 Pipe Welding I * 3-6 (0/66-132)

Students will be introduced to pipe welding in the 1G, 2G, 5G, and 6G positions using E-6010 electrodes with schedule 60, 80, 100, 120 and various size pipes. May be repeated for credit up to six credits. Prerequisite: WLD 131

WLD 282 Gas Tungsten Arc Welding II (TIG)* 3 (0/66)

This course introduces students to carbon steel pipe welding in the 1G, 2G, 5G, and 6G positions using cup walk methods with 1/8" electrodes on various sizes of pipes. Prerequisite: WLD 212 or instructors permission.

WLD 283 Pipe Welding II 3-6 (0/33-132)

Students will enhance carbon steel pipe welding in 1G, 2G, 5G, and 6G positions using E-6010 and E-7018 electrodes with schedule 60, 80, 100 and 120 pipes and various other sizes of pipes. May be repeated for credit up to six credits. Prerequisite: WLD 281

WLD 284 Gas Tungsten Arc Welding III (T.I.G.)* 3 (0/66)

Students will gain advanced skills on carbon steel pipe in the 2G, 5G, 6G positions, carbon steel pipe with stainless steel rods, and stainless steel pipe in the 2G, 5G, and 6G positions. Prerequisite: WLD 282 or instructors permission.

WLD 285 Pipe Welding III (0/33-132)3-6 This course focuses on pipe welding 1G, 2G, 5G, and 6G positions using E-6010 and E-7018 rods and a combination of G.T.A.W. and S.M.A.W. process with

schedule 40, 60, 80, 100, 120, and various other sizes of pipes. Prerequisite: WLD 283

WLD 295 Work Based Learning (0/0/33-198)1-6 A supervised work experience in the welding technology field to enhance the application of classroom instruction and skills and/or area of specialization approved by the program instructor. May be repeated up to twelve (12) credits. Prerequisite: instructor permission; Corequisite: WLD 297

WLD 297 Work Based Learning Seminar

(11/0)

Feedback and discussion to integrate and relate Work Based Learning and classroom based instruction. Work ethic, leadership, safety and occupational health, environmental issues, and other student generated topics are examined. May be repeated up to six (6) credits. Corequisite: WLD 295

WABO TESTING

Washington Association of Building Officials (WABO) testing is available. Contact the welding department at 762.6252 for more information.

*Flexibility is maintained to allow students to advance at their own learning rates; additional laboratory time is available through enrollment in WLD 190 or WLD 290.

^{**}Approved by the FAA

Faculty & Administrators

Salah Abed (2007)Math B.S., M.S., Western Washington University	Katherine Christian (2004)Director of Health Education Programs B.A., University of Southern California; B.S.N., University
Brendan Abonyi (2016) Custodial Services Supervisor B.S., University of Ife, Nigeria; M.S., Washington State University	of New York; M.S.N./Ed, University of Phoenix Steve Close (2004) English
LoraLyn Allen (2005) Coordinator of Disability Services/Student Advisor	A.A., Contra Costa Community College; B.A., San Francisco State University; M.A., Ph.D., University of Oregon
B.A., Washington State University	
Benjamin Altrogge (2014)Aviation/Commercial Pilot B.S., Walla Walla University; FAA certificates include	Ruth Coffin (2006)Registrar B.S., Evergreen State College
Airplane Single and Multi-Engine Land; Instrument Airplane; Commercial Pilot; Flight Instructor	Caren Courtright (2007) Director of Bookstore
Luis Alvarez (2011)Director of Residence Halls & Residential Life	Kent Dannenberg (2012) .Aviation Maintenance Technology Airframe and Powerplant Training Technical Certificate, San Bernardino Valley College; FAA certificates include
A.A.S., Big Bend Community College; B.A., B.S., Washington State University	Airframe and Powerplant; Private Pilot with Instrument Rating
William Autry (1995) Industrial Systems Technology A.A.A., Wenatchee Valley College; WA State Certified (07) Industrial Electrician; CIMM (Certified Industrial	Michael De Hoog (2001) Activity Center Coordinator B.A., Whitworth College; M.A., Concordia University
Maintenance Mechanic-ISA); CIRO (Certified Industrial Refrigeration Operator-RETA)	Anita De Leon (1999)TRiO Upward Bound Director B.A., M.S.W., University of Washington
Joe Auvil (2015)Director of Purchasing B.B.A., Gonzaga University	Jennifer de Leon (2007)Activity Coordinator/ Advising Specialist
James Ayers, Jr. (2013) Industrial Systems Technology	B.A., B.Ed., Central Washington University
WA State Certified (01) Master Electrician Cary Baker (2016) Masherranics/Engineering Specialist	Kathleen Duvall (2005) Biology A.S., Yuba College; B.S., University of California at Davis; M.S., Brigham Young University
Gary Baker (2016)Mechatronics/Engineering Specialist B.S., University of Washington	
Sarah Bauer (2016)	Ryan Duvall (2016)Business Information Management A.A., Big Bend Community College; B.S. Brigham Young University Idaho
University	Michael Dzbenski (2015)
Daneen Berry-Guerin (2005) Dean of Workforce Education B.A., Eastern Washington University; M.B.A., American Intercontinental University	B.A., George Mason University; M.M.E., Texas Tech University
Erik Borg (2000)Aviation Maintenance Technology A.A.S., Big Bend Community College; B.S., Central	Andrea Elliott (2008) Simulation Technology Coordinator B.A., University of Puget Sound; M.A., Liberty University
Washington University; FAA certificates include Commercial Pilot, Airplane Single and Multi-Engine Land,	Dawnne Ernette (2015)Developmental English B.A., M.A.Ed., University of Nevada-Reno
A&P Mechanic, Inspection Authorization, Designated Maintenance Examiner	Patrick Ford (2015) Director, Unmanned Systems/ New Opportunities in Aviation (NOA) Title V Grant Manager
Jody Bortz (2013)Career Services Coordinator B.A., B.A.Ed., Central Washington University	M.S., University of North Dakota; Ph.D., Walden University
Jennifer Brooks (2006)Nursing B.S.N., University of South Australia; M.C.Ed., Flinders University	Kyle Foreman (2012) Director of Campus Safety & Security FEMA Emergency Management Professional Development Certificate; FEMA All Hazards Public Information Officer; WA State Certified Incident Command System/National Incident Management System Instructor
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Tim Fuhrman (1998)Director of Library Resources	Brinn Harberts (2015)Math
A.A.S., Big Bend Community College; B.A., Central Washington University; M.A., University of Arizona	B.A., M.S., Eastern Washington University
Angela Garza (2016)Assistant Director of	Jose Hernandez (2016)Financial Aid Advisor B.A., Washington State University
A.A., Big Bend Community College; B.A., University of Phoenix	David Holliway (2011)Psychology/Sociology B.A., M.A., University of New Mexico; Ph.D., University of Washington
Guillermo Garza (2007) Commercial Driver's License Class A CDL License; Endorsements P1, T, N; Instructor Certifications	Bryce Humpherys (2016) Vice President for Learning & Student Success
Jaime Garza (2015)Counselor B.A., Central Washington University; M.Ed., Heritage	B.A., M.S., Utah State University; Ed.D., Washington State University
University Vice President of Human	Jeremy Iverson (2005)Director of Financial Aid A.A., Community Colleges of Spokane; B.S., Eastern Oregon University
Kim Garza (2012)Vice President of Human Resources & Labor	Oregon diliversity
B.A., Eastern Washington University; M.S., Western Governors University	Kim Jackson (2000)Director of Student Programs B.A., Brigham Young University; M.Ed., Heritage University
Heidi Gephart (2014)Counselor A.A.S., Big Bend Community College; B.A., Western Washington University; M.A.Ed., Washington State University	Barbara Jacobs (1972)Biology B.S., M.S., Washington State University; M.T., American Society of Clinical Pathologists
Anne Ghinazzi (2017) STEM Advising Specialist B.A., Augustana College; M.A., University of Iowa	Jeremy Kelley (2015)Systems Engineer A.A.S., Pierce College
Clint Gilbert (2013) Welding Technology A.A.S., Big Bend Community College; Certified Welder	Matthew Killebrew (20)Director of Communications B.S., Austin Peay State University
Card, WABO; AWS Certified John Gillespie (1995)Aviation/Commercial Pilot	Dennis Knepp (2000)Philosophy B.A., Wichita State University; M.A., Ph.D., Washington University in St. Louis
A.A., A.A.S., Big Bend Community College; B.A., Gonzaga University; FAA certificates include Airplane Single and Multi-Engine Land, Airplane Single Engine Sea; Commercial Privileges, Instrument Airplane/Gold Seal Flight Instructor, Airplane Single and Multi-Engine	Landra Kosa (2016)Agriculture Education Coordinator/Instructor A.A., Walla Walla Community College; B.S., University of Idaho
Instrument/Ground Instructor, Advanced Instrument David Gillett (2015)	Margie Lane (1988)Coordinator of Testing Services A.A., Big Bend Community College; B.A., Washington State University
Network Administrator A.A.S., Big Bend Community College; B.S., Western	-
Governors University	Jameson Lange (2013)Assistant Activity Center Coordinator/Baseball Coach
Mercedes Gonzalez-Aller (2009)Nursing B.S.N., University of New Mexico; M.N., Whitworth University	Beth Laszlo (2012)Director for the Center for Business & Industry Services
Lindsay Groce (2013)Chemistry B.A, B.A., M.S., Central Washington University	B.A., M.Ed., Central Washington University Terrence Leas (2012)President
Wade Guidry (2016) Library Consortium Services	B.S., Ph.D., Florida State University; M.Ed., Valdosta State College
James Hamm (1993)Physics/Science B.S., Eastern Washington University; Ph.D., University of Minnesota	Angela Leavitt (2001)Foreign Language A.A., Big Bend Community College; B.S., Brigham Young University; B.A., M.A., Washington State University
Dawna Haynes (2016)Dean of Student Services B.S., M.S., Central Michigan University; M.A., University of Phoenix; Ed.D. Creighton University	Ryann Leonard (2005) Psychology/Criminal Justice B.A., Western Washington University; M.S., Ph.D., Florida International University

Aaron Linthicum (2015)Aviation/Commercial Pilot A.A.S., Big Bend Community College; B.A., Liberty University; FAA certificates include Airplane Single and	Mark Poth (1987)Interim Athletic Director B.S., Brigham Young University; M.A., University of Hawaii
Multi-Engine Land; Commercial Privileges, Instrument Airplane/Flight Instructor, Airplane Single and Multi-Engine	Elsa Pruneda (2014) TRiO Upward Bound Academic Advisor
Instrument/Ground Instructor, Advanced John Martin (2014)Automotive Technology	A.A.S., Big Bend Community College; B.A., Heritage University
ASE Master Automobile Technician, Service Consultant, Advanced Level Specialist; Toyota Certifications; State of Washington Career and Technical Education Initial Teacher Endorsements Automotive Technology, Worksite Learning	Terry Pyle (2011)Agriculture/Economics B.S., Brigham Young University; M.B.A., Pacific Lutheran University
Coordinator	Jody Quitadamo (2016)History/Political Science B.A., M.A., Central Washington University
Shawn McDaniel (2004)	Rita Ramirez (2013)TRiO Student Support Services Senior Academic Advisor
Welding Educator) 0111009E Monica Medrano (2013) Workforce Education Services	B.A., University of Washington; M.P.A., Eastern Washington University
Coordinator B.A., B.A., Central Washington University	Christopher Riley (2001)History/Political Science B.A., Pacific University; M.A., Pepperdine University
Leslie Michie (2002)Accounting and Business B.S., M.A.C., Brigham Young University; Certified Public	Charlene Rios (1997) Executive Director of Business Services
Accountant Accountant	A.A., Big Bend Community College; B.A., University of San Diego
Dan Moore (1992)Aviation Maintenance Technology FAA certificates include Airframe and Powerplant, Inspection Authorization, Designated Mechanic Examiner,	James Sauceda (2013) Director of Facilities and Capital Projects
Private Pilot Enedelia Nicholson (2016) Coordinator of Student	A.A.S., Big Bend Community College; B.S.M.E., M.S.M.E., Washington State University
Recruitment & Outreach A.A.S., Big Bend Community College; B.A., B.A., University	Linda Schoonmaker (2015)Vice President for Finance & Administration
of Washington Jenny Nighswonger (2004) Early Childhood Education	B.S., University of North Carolina at Pembroke; M.B.A., University of Washington; Certified Public Accountant
Specialist/Curriculum Development Specialist B.A., Eastern Washington University; M.A., Grand Canyon	Kenneth Schrag (2014)Operations Coordinator for the Japanese Agricultural Training Program
University Zach Olson (2017)Developmental English	A.A., Big Bend Community College; A.A.S., Seattle Central Community College; B.A., University of Washington
B.F.A., M.A., Bemidji State University	Jeremy Seda (2013)Web & Multimedia Specialist B.B.A., Gonzaga University
Rie Palkovic (1998)Art B.A., California State University; M.F.A., New Mexico State University	Kate Shuttleworth (1999)Writing Center Coordinator B.A., San Francisco State University
Allison Palumbo (2016) English B.A., Weber State University; M.A., Florida State	Rick Sparks (2014) Director of Information Technology B.S., Colorado Christian University; M.S., Regis University
University; Ph.D., University of Kentucky LeAnne Parton (2011)Director of Development/Executive	Libby Sullivan (2013)Librarian B.S., Skidmore College; M.L.I.S., Simmons College
Director of the BBCC Foundation A.A., Big Bend Community College; B.A., Eastern Washington University	Matthew Sullivan (2003) English B.A., University of San Francisco; M.F.A., University of
Valerie Parton (1993)Dean of Institutional	Idaho
Research and Planning B.A., Eastern Washington University; M.Ed., Heritage University	Heidi Summers (2009) Title III HSI-STEM Grant Director B.S., Oregon State University; M.A.Ed., Virginia Tech

John Marc Swedburg II (2010)Aviation/Commercial Pilot A.A.S., Big Bend Community College; B.S., Aviation, M.B.A., Embry-Riddle Aeronautical University; FAA Certificates: Single and Multi-Engine Airline Transport Pilot; Single and Multi-Engine Flight Instructor; Instrument Instructor
Sean Twohy (2015) English B.A., Western Washington University; M.A., University of South Dakota
Custodio Valencia (2005) Director of Trio Student Support Services
A.A., Big Bend Community College; B.A., Eastern Washington University; M.Ed., Washington State University
Diana Villafana (2003)Student Success Center Coordinator
A.A.S., Big Bend Community College; B.A., Heritage University
Rafael Villalobos, Jr. (2012)Advising/Advanced Projects Specialist
B.A., Central Washington University; M.Ed., Heritage University
Tyler Wallace (2008)
Arthur Wanner, Jr. (2014)Computer Science A.A.S., Big Bend Community College; B.S., Computer Science; A+ Certified Professional; Network+ Certified Professional
Laura Warnock (2015)Retention Specialist B.A., Vietnam National University; M.A., San Jose State University
Zach Welhouse (2013)eLearning Coordinator B.A., Cornell College; M.A., Kansas State University;

Deena Westerman (2008) Event & Conference Representative
A.A.S., Big Bend Community College; B.A., University of Washington
Shellie Whittaker (2014)Transition Support Consultant A.A., A.A.S., Peninsula College
Barbara Whitney (1990)
Mariah Whitney (2003)Biology B.S., Washington State University; M.S., Central Washington University
Preston Wilks (1996) Accounting and Business/
Head Women's Basketball Coach A.A., Big Bend Community College; B.S., M.S., Brigham Young University; Certified Public Accountant
Tom Willingham (2004)Computer Science Specialist (STEM Grant)
Sue Workman (2001) TRiO Upward Bound Academic Coordinator
A.A., Lower Columbia College; B.A., Washington State University
Richard Wynder (2009)Automotive Technology Automotive Service Technology Diploma, Southern Alberta Institute of Technology; Block Competency, Central Washington University; Washington Career/Technical Teaching Certificate; Alberta Journeyman; Canada Inter- Provincial Journeyman; ASE Master Technician
MariaAnita Zavala-Lopez (2000)Counselor B.A., University of Washington; Ed.M., Washington State University

M.L.I.S., University of Washington

Emeritus List

On occasion, retired faculty and administrators are recognized for extraordinary service with the college. The title of "Emeritus" is bestowed by the BBCC Trustees upon the recommendation of the President, to gratefully acknowledge those unique individuals whose efforts throughout their careers on behalf of the college were far beyond the expectations of their positions.

Alice Milholland (1962-1981)	PresidentDean Professor Professor ProfessorDean Professor Professor Professor Professor Professor Professor	Emeritus
Roger Glaese (1969-1998) Vice		
Fred Buche (1966-1996)		
David R. Wolff (1970-2000)		
Dr. Harrell Guard (1986-1994) Vice	-	
Cynthia Calbick (1973-2001)		
Barbara Guilland (1982-2001)	-	
Brenda Teals (1971-2001)		
Bill Looney (1970-2002)		
Patricia Schrom (1992-2003)		
Makoto Enokizono (1974-2004)		
Vic Gilliland (1967- 2004)	Faculty	Emeritus
Erika Hennings (1996-2004)		
Patricia Nobach (1985-2005)	Faculty	Emeritus
Joe Rogers (1970-2005)	Faculty	Emeritus
Linda Wrynn (1981-2006)		
Anita Hughes (1985-2007)	Faculty	Emeritus
Pat Palmerton (1978 to 2007)		
Ken Turner (1980 - 2008) Vice		
Kathy Tracy Mason (1989 - 2008)	-	
Maryanne Allard (1975 - 2008) Athlet	ic Director	Emeritus

Steve Matern (1980 - 2009)Faculty Emeritus
Van Jorgensen (1984 - 2009)Faculty Emeritus
Pete Hammer (1976 - 2009)Faculty Emeritus
Chuck Cox (1980 - 2009)Faculty Emeritus
Mike Lang (1976 - 2010) Vice President Emeritus
Felix Ramon (1994- 2010) Trustee Emeritus
Patricia Teitzel (1989-2011)Faculty Emeritus
Eugene "Gene" Donat (1975-2011)Faculty Emeritus
Katherine Kenison (1999-2011) Trustee Emeritus
Holly Moos (1973-2012)Vice President Emeritus
William C. Bonaudi (1995-2012) President Emeritus
Marsha Asay (1983-2013)Faculty Emertius
Lance Wyman (1983-2013)Faculty Emertius
Mike O'Konek (1985-2013)Faculty Emeritus
Max Heinzmann (1981-2014)Faculty Emeritus
John Swedburg (1982-2014)Faculty Emeritus
Marsha Nelson (1973-1975, 1978-1982, 1984-1990,
1995-2015)Faculty Emeritus
Mike Blakely (2004-2014) Trustee Emeritus
Gail Erickson (1983-2014)Faculty Emeritus
Pat Patterson (1992-2015)Faculty Emeritus
Mary Shannon (1993-2015) Administrator Emeritus
Gail Hamburg (1999 - 2015) Vice President Emeritus
Kathy Arita (1999-2015)Director Emeritus
Doug Sly (1985-2016) Administrator Emeritus
Candis Lacher (1989-2016) Administrator Emeritus
John Carpenter (1994-2016)Faculty Emeritus
David Hammond (2001-2017)Faculty Emeritus
Stephen Lane (1987-2017)Faculty Emeritus
John Peterson (2002-2017)Faculty Emeritus
Terry Kinzel-Troutman (1999-2017)
Kara Garrett (1987-2017) Administrator Emeritus
(In accordance with Board Policy 1005, Adopted REV 5/15)

Notice of Non-Discrimination

Big Bend Community College District 18 is committed to a policy of equal opportunity in employment and education. All programs are free from discrimination on the basis of race, sex, sexual orientation, gender identity/expression, religion, age, color, creed, national or ethnic origin, physical, mental or sensory disability, marital status, pregnancy status or families with children, a mother breastfeeding her child, AIDS/HIV or hepatitis C, genetic information, and/or status as a veteran in accordance with state and federal laws.

Inquiries may be directed to: Kimberly A. Garza Vice President for Human Resources & Labor EEOC/Title IX Coordinator 509.793.2010

kimg@bigbend.edu

Loralyn Allen Coordinator of Disability Services/Student Advisor 509.793.2027

loraa@bigbend.edu

Copies of BBCC policies regarding accommodation, discrimination, harassment, sexual harassment, and sexual misconduct along with the procedure for resolution of discrimination and/or harassment complaints may be obtained online at **www.bigbend.edu**, from the BBCC Human Resources Office at 509-793-2008, or via email at **hroffice@bigbend.edu**.

If you are a person with a disability and you require an accommodation, please contact **509-793-2010** (or TDD **762-6335**) as soon as possible to allow sufficient time to make arrangements.

Disclaimer Statement

This catalog and its components shall not constitute a contract between Big Bend Community College and prospective or enrolled students. The information contained in this catalog reflects the current policies and regulations of the college. However, the college reserves the right to make changes in its policies and regulations at any time. If policies or regulations of the college at any time conflict with information contained in this catalog, the policies and regulations will govern, unless expressly determined otherwise by the Board of Trustees. The college reserves the right to eliminate, cancel, phase out or reduce in size courses and/ or programs for financial, curricular or programmatic reasons.

Limitations of Liability

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

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