COURSE CATALOG 2018-2019



BIG BEND COMMUNITY COLLEGE



Contents

Academic Calendar	3
Academic Information	19
Accreditation	2
Admissions	4
Board of Trustees	2
Course Descriptions	81
Degrees and Certificates	23
Educational Programs	
Faculty and Administrators	136
History	
Index	
Mission and Vision	2
Programs of Study	37
Registration	
Student Services	
Student Programs	
Tuition and Fees	

Big Bend Community College (BBCC) has delivered excellence in teaching and learning since 1962. Residents in Big Bend's 4,600-mile service district in the central Columbia Basin, the state of Washington, the United States, and around the world have benefited from our college's caring staff, committed faculty, and highly-valued programs. Our Big Bend Campus Community is grateful for the opportunity to serve and help you achieve your educational goals

BBCC offers a variety of services and programs that are built around the needs of our students and local community and focused on helping both achieve their vision of success. No matter your educational goal, or your training need, BBCC has a success strategy and support services to help you achieve it! We have designed the 2018-19 Course Catalog to answer your questions about the college resources that are available to help you succeed. We hope that you will explore this catalog, and the various support services that may interest you, and use this information to chart your personal journey to success.

Thank you for being a part of our Big Bend Campus Community. We wish you every success as you make your educational dreams come true!

Welcome to Big Bend!



Teven X

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 (appointed 3/2012), Moses Lake

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

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

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

Mr. Thomas Stredwick (appointed 10/2017), Soap Lake

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 2018-2019

	Fall	Winter	Spring	Summer
	2018	2019	2019	2019
Advising Begins	April 30	Oct. 22	Feb. 4	April 29
Current Student Registration Begins	May 21	Nov. 13	Feb. 25	May 20
Tuition Due	Sept. 6	Dec. 20	March 14	June 13
Instruction Begins	Sept. 24	Jan. 7	April 1	July 1
Last day to add a class (with instructor permission)	Sept. 27	Jan. 10	April 4	July 3
Last day to drop a class	Nov. 21	March 6	May 28	August 2
Instruction ends	Dec. 6	March 20	June 11	August 9
Final exams	Dec. 10-12	March 21-22	June 12-14	
Quarter break	Dec. 13-Jan. 6	March 23-31	June 15 - 30	
Grades available	Dec. 19	March 27	June 19	Aug. 14
Commencement			June 14	
Holidays	Veteran's Day Nov. 12 Thanksgiving Nov. 21-23 Campus Closes 2:30 pm Nov. 21	Martin Luther King Day Jan. 21 Presidents Day Feb. 18	Memorial Day May 27	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 NE, 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.
- 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 institution Students 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.
- 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.
- 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 NE, 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.)

- 1. 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 quarter.
- 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	.\$105.17
11-18 credits, additional per credit	\$52.08
Over 18 credits, additional per credit	\$94.36
Over 18 credits, Prof/Tech per credit	\$10.00

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

1-10 credits, per credit	\$118.89
11-18 credits, additional per credit	\$52.80
Over 18 credits, additional per credit	\$94.36
on-Resident International (Not U.S. Citizen)	

No **Student Tuition**

1-10 credits, per credit	\$282.17
11-18 credits, additional per credit	\$59.28
Over 18 credits, additional per credit	\$27136

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	\$30.00
Strong Vocational Interest Inventory Test	\$15.00
General Education Development Test (GED)	\$120.00
Flight Insurance (estimate)	\$95.00
Placement Tests (each)	\$10.00

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 guarter and must be paid in advance. Flight fees vary depending on the type of flying. For the current fee schedule, contact the Aviation Department.

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

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)	\$1,300.00

Summer quarter rates are determined each year. Rates are approximately half of the regular quarter rate.

*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 (ASB) Office, Student Activities, Student Success Center, TRiO - Student Support Services, Outreach and Recruitment, Student Services Offices (Admissions/ Registration Office, Financial Aid, Student Employment, Veterans' Education Benefits, Counseling Center, the Dean of Student Services), and the Vice President of Learning and Student Success. The Game Room, which is collocated with the ASB Office, provides students the opportunity to engage with other students in a social context. Also located in this building are the administrative offices (Business Office, Human Resources, Institutional Research, Public Information Office, and the President's Suite) and the BBCC Bookstore. 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 (new, used, rentals and e-books) and course materials necessary for courses offered through BBCC. The bookstore also carries school supplies, college-logo imprinted clothing and other emblematic items, 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 2 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 an 80% refund during the first two weeks of the guarter. 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. Receipts are not required for buy back.

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.
- 5. 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

One of the most important social decisions a college student will make is to use or not use alcohol and other drugs. The choice is an individual decision.

Before making this decision, all students should be informed about the effects of alcohol and drugs and the potential consequences of using them.

Big Bend Community College prohibits the unlawful manufacture, delivery, possession, or use of alcohol, marijuana in any form, other controlled substances,

and drug paraphernalia while on college property, while conducting college business, and while participating in any college-sponsored activities whether on campus or not.

Board Policy 3019, Drug Free/Alcohol Free Workplace Policy and Administrative Process 3019, Drug & Alcohol Abuse Prevention are intended to meet, at a minimum, the requirements of all applicable federal and state laws, including but not limited to the Drug-Free Schools and Communities Act of 1989 and the Drug-Free Workplace Act Of 1988.

Sanctions

Big Bend Community College will impose disciplinary sanctions on students found accountable for violations of BP 3019, Drug Free/Alcohol Free Workplace Policy. Sanctions will be imposed in accordance with the provisions of the Student Code of Conduct. Sanctions that may be imposed include but are not limited to:

- Warning
- Reprimand
- Prevention education program
- Disciplinary probation
- Loss of privileges
- Suspension
- Professional evaluation

As required by federal law, the college cooperates with law enforcement authorities in referring for prosecution of unlawful possession, use or distribution of alcohol and illicit drugs by students or employees on college premises or as part of any of its activities.

If you have been convicted of drug possession, you will be ineligible for federal financial aid for one year from the date of your conviction after the first offense, two years after the second offense, and indefinitely after the third offense. If you have been convicted for selling drugs, you will be ineligible for federal financial aid for two years from the date of your conviction after the first offense, and indefinitely after the second offense. If you lose your eligibility for federal financial aid, you can regain eligibility early by successfully completing an approved drug rehabilitation program.

A description of the health risks associated with the abuse of alcohol and use of illicit drugs

Alcohol – Alcohol abuse is involved in the majority of violent behavior incidents: sexual assault, sexual misconduct, vandalism, fights, and driving under the influence. Alcohol (and other depressant) abuse results in impaired judgment and coordination, aggressive behavior, impairment in learning & memory, respiratory depression, coma, and possibly death when taken in excess or combined with other depressants.

Club Drugs (GHB, Rohypnol & Ecstasy) – GHB is an illegal depressant (liquid or powder) which is odorless & colorless (therefore it can be easily slipped into drinks undetected). GHB can be used to facilitate rape because it causes impairments in judgment, sleepiness & amnesia. Rohypnol also known as "Roofies" is a strong depressant drug, commonly known as the "Date Rape" drug. When ingested with alcohol or other drugs, effects begin within three (3) minutes and peak within two (2) hours. MDMA/Ecstasy/XTC is a hallucinogenic mind-altering drug. Adverse effects include confusion, depression, sleep problems, severe anxiety & paranoia, nausea, blurred vision, faintness, and the possibility long-term brain damage.

Marijuana – The effects associated with marijuana use include: increased blood pressure, blood-shot eyes, dry mouth, hunger, impairment of short-term memory and concentration, altered sense of time, decreased coordination and motivation, psychological dependence, lung cancer, and possibly chronic lung disease after long-term use.

Methamphetamines/Amphetamines & other Stimulants – Symptoms of stimulant abuse include: increased heart & respiratory rates, elevated blood pressure, dilated pupils, excessive perspiration, headache, dizziness, sleepiness, anxiety, and loss of appetite, coma, and death may result

Ritalin – A prescription drug used to treat ADHA, ADD and other conditions. It has similar effects to those of cocaine and amphetamines. Ritalin is often abused for appetite suppression and/or to stay awake.

Narcotics (Heroin, Morphine, Codeine, Demerol, Percodan) – Narcotics initially produce a feeling of euphoria followed by drowsiness, nausea, and vomiting. Overdose may cause slow and shallow breathing, clammy skin, convulsions, coma, and possibly death.

Hallucinogens (LSD, Mescaline, Cannabis, Magic Mushrooms) – Hallucinogens or psychedelics are mind-altering drugs which affect the mind's perceptions, causing bizarre, unpredictable behavior and severe, sensory disturbances that may place users at risk of serious injuries or death. The combination of hallucinogens with other substances, like alcohol or marijuana, can increase the chances of adverse effects and the risk of overdose.

Inhalants (glue, paint thinner, gasoline, laughing gas, aerosol sprays) – Psychoactive substances inhaled as gases. Adverse effects may include nausea, sneezing, coughing, nosebleeds, fatigue, lack of coordination, brain & nervous system damage and possibly death.

Cocaine – Use produces psychological & physical dependence. Adverse effects include elevated blood pressure, heart rate, respiratory rate & body temperature, increased risk of contracting HIV/AIDS (sharing needles), chronic use can result in ulceration and rupture of the mucous membrane.

Anabolic Steroids (Anadrol, Oxandrin, Durabolin, Stanozol, Dianabol) – Man-made substances related to male sex hormones. Steroids are taken to improve

physical performance as well as to enlarge muscles and increase strength. Negative effects of steroids include baldness, cysts, shrinking of testicles, oily hair and skin, acne, heart attack, stroke and change in voice. Hostility is also a frequent side effect of anabolic steroids.

Tranquilizers (Valium) – Use of tranquilizers can induce calm and relaxation. Feelings will range from mild euphoria to drowsiness, confusion and light headedness. Hostility, blurred vision, hallucinations, lethargy, memory loss and irritability can also occur.

Information, Education, and Counseling

Big Bend Community College emphasizes the importance of information and education helping to prevent alcohol and drug abuse. The college is committed to helping students prevent and address alcohol and drug abuse problems. For additional information about counseling, assessment, and referral services, contact:

BBCC Counseling Center 509.793.2035 Alcoholics Anonymous 509.664.6469 Central WA Narcotics Anonymous 877.664.0398 Grant County Prevention and Recovery Center 509.765.5402

Dean of Student Services 509.793.2077

Available Counseling, Treatment or Rehabilitation

Students with alcohol or drug related problems are encouraged to contact the BBCC Counseling Office 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

In 2014-15 academic year, a new state law expanded eligibility for the Washington State Need Grant to noncitizens 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 installed at no extra cost. Each floor has a TV lounge, VCR, and a microwave ovenThree 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. Currently, open for breakfast and lunch Monday through Friday.

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

Big Bend Community College provides equal opportunity in education and employment and does not discriminate against anyone on the basis of race, sex, sexual orientation, gender identity/expression, religion, age, color, creed, national or ethnic origin, the presence of any physical, mental, or sensory disability, use of a trained guide dog or service animal by a person with a 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, or any other legally protected status.

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.

The following persons have been designated to handle inquiries regarding the non-discrimination policies:

Kimberly A. Garza VP of Human Resources EO/Section 504/Title IX Coordinator 7662 Chanute Street NE Moses Lake, WA 98837 (509) 793-2010 TDD (509) 762-6335

Lora Allen
Disability Services
Coordinator
7662 Chanute Street NE
Building 1400, Office 1473
Moses Lake, WA 98837
(509) 793-2027

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 a collaborative study area open to all BBCC enrolled students, including GED/ DVS. Aside from drop-in tutoring services, supplemental instruction, faculty support, and STEM related advising, the STEM Center also provides a variety of resources. This includes: access to Wi-Fi, computer workstations, white board tables, dry-erase windows, science and engineering course software, printing and scanning, lap tops and calculators for daily checkout, anatomy and physiology models, a microscope, textbooks with selective answers, private study rooms, and STEM related advising. The STEM Center is open 8:00am to 8:30pm Monday through Thursday, 8:00am to 1:00pm on Fridays, and 3:00pm to 8:00pm on Sundays. For additional information please call 509.793.2306. 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/quarter	3-5 credits/quarter	5 credits/quarter

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
- Public Relations Officer
- · Programming Director

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 are below college level. Some of the courses may be applied toward graduation from BBCC under the Associate in General Studies degree only. (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.bigbend.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 Learning and Student Success. 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:

- 1. 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.
- 4. 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.

For Associate of Applied Science degrees, the general education courses are sometimes referred to as Related Instruction courses. The General Education/Related Instruction Outcomes specify that:

- 1.Students will be able to communicate clearly and effectively.
- 2. Students will be able to reason mathematically.
- 3. Students will be able to solve problems by gathering, interpreting, combining and/or applying information from multiple sources.

- Students will be able to recognize or articulate personal/interpersonal aspects of, or connections between, diverse cultural, social, or political contexts.
- Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

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, &210,220, 229 English (ENGL): &102, 105, 211, 212, 216, 220, 221, 234, &235,239, 240, 243, 244, 245, 246, 256, 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,

German (GERM): 121, 122 or 123

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

213, 221, 222, 223

Humanities (HUM): 108, 110, 214 Music (MUSC): 100, 105, 170, 174,175 204 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, 215, 216, 217, 224, 270

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, 126, 127, 128, 136, 137, 201, 210, 215, 219, 230, 245, 250, 270

Political Science (POLS): 101, 202, 203 Psychology (PSYC): 100, 200, 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

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, &131, 132 141,142

Criminal Justice (CJ): 110, 210, 220 Education (EDUC): 115, 202, 204 Engineering (ENGR): 111, 112, 202

English (ENGL): 201

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

LS

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*

A. Communication Skills

*EWU requires ENGL 201

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
1. Natural sciences 10 credits

1. Natural sciences 1

(5 credits must be a lab course)

2. MATH& 146

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 Computer Science DTA/MRP

Big Bend Community College offers the Associate in Computer Science DTA/MRP degree to prepare students for transfer to a four-year university and complete a bachelor's degree in Computer Science. Graduates may be able to transfer with junior status with all or most prerequisites for the computer science major completed.

A computer science bachelor's degree prepares people to work in careers such as software development, computer programming, and computer systems analysis. These careers are in high demand in Washington State.

Since programs differ at each college, students should consult program outlines in the catalog of the college or university to which they plan to transfer. Students should prepare their quarterly schedules with the assistance of an advisor knowledgeable in the transfer area and the requirements of the destination college or university.

Program prerequisite:

- · Complete BBCC admissions process
- · Complete English and math placement tests
- Meet with the CS program advisor to develop a professional development plan
- MATH&141 Pre-Calculus I and MATH&142 Pre-Calculus II

The following recommended courses prepare students for most baccalaureate institutions. Degree Requirements will vary with each transfer college.

Program Major Requirements:

- · See advisor for university-specific requirements
- · Any course without an & requires approval
- Other classes may be accepted or substituted with approvals

CS& 131 Computer Science I: C++ (WSU Tri-cities)	. 5
or	
CS& 141 Computer Science I: Java	
(CWU, Heritage, UW)	. 5
CS 132 Advanced Programming with C++	
(WSU Tri-cities)	. 5
or	
CS 142 Advanced Programming with Java	
(CWU, Heritage, UW)	. 5
CS 111 Intro to Programming	
(CWU, UW-Tacoma w/Java class)	. 5
CS 235 Data Structures & Algorithms (CWU)	. 5
Computer Science Elective	5

Math and English

- See advisor for university-specific requirements
- Other classes may be accepted or substituted with approvals

with approvais	
 Any course without an & requires approval 	
MATH& 151 Calculus I	5
MATH& 152 Calculus II5	5
MATH& 163 Calculus 3 (WSU)5	5
OR MATH& 153 AND MATH& 254 (WSU) 10)
MATH& 146 Statistics (CWU, Heritage, UW-Bothell)	5
MATH& 220 Linear Algebra (EWU)5	5
MATH 230 Differential Equations (Gonzaga)5	5
MATH& 254 Calculus IV (Gonzaga, WSU)5	5
ENGL& 101 English Composition I5	5
ENGL& 235 Technical Writing5	5
or	
ENGL& 102 English Composition II (EWU)5	5

Gonzaga, Heritage, and WSU require a Discreet Math (Structures) prerequisite that is not currently offered at Big Bend Community College.

Science Requirements

ENGR 202 Design of Logic Circuits (EWU)5
PHYS& 221 Eng. Physics I w/Lab5
PHYS& 222 Eng. Physics II w/Lab5
PHYS& 223 Eng. Physics III w/Lab
(Gonzaga, Heritage, Whitworth, WSU, WWU) 5

Suggested Humanities and Social Science Requirements

- At least two disciplines, or more than 10 credits in one discipline
- See advisor for university-specific requirements
- · Any course without an & requires approval
- Other classes may be accepted or substituted with approvals

Humanities

CMST& 210 Interpersonal Communications 5
PHIL& 120 Symbolic Logic (Gonzaga, WSU) 5
PHIL 120 Ethics (EWU)5

Social Sciences

ECON& 201 Micro Economics (WSU-Vancouver) 5
or
ECON& 202 Macro Economics (WSU-Vancouver). 5
PSYC& 100 General Psychology5
SOC& 101 Intro to Sociology5

Total 95 credits*

*Some universities may require more classes to meet prerequisites.

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

15 credits 10 credits

- A. Communication Skills
 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

50 credits 15 credits

A. Humanities

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

Associate in Science-Transfer Degree

To earn the Associate in Science -Transfer (AS-T) degree, the student must:

- Satisfy the "General Requirements All BBCC Degrees"
- Complete at least 90 transferable credits numbered 100 or above.
- Satisfy all requirements detailed below for one of the pre-majors in this degree.

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 and also major requirements for the specific Bachelor of

Science degree at the intended baccalaureate institution 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

AS-T 1 & 2 Requirements:

ENGL& 101, ENGL& 102, ENGL 201 or ENGL 235

Mathematics—10 credits

MATH& 151 and 152

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 creditsBIOL& 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. Mathematics MATH& 151, 152, 163	15 credits
C. Engineering Physics PHYS& 221, 222, 223	15 credits
D. Chemistry CHEM& 161	5 credits

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

III. Pre-Major Specified Electives

CS& 131 or CS& 141

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

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

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.
 - 1. 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

Agriculture

Aviation (Commercial Pilot)

Aviation Maintenance Technology

Business Information Management

Chemical Laboratory Technology

Computer Science

Early Childhood Education

Industrial Systems Technology

Mechatronics

Medical Assistant

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 (Commercial Pilot)

Aviation Maintenance Technology

Business Information Management

Commercial Driver's License

Computer Science

Early Childhood Education

Homeland Security & Emergency Management

Industrial Systems Technology

Medical Simulation

Nursing Assistant

Unmanned Systems

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 (CBIS)-Department of Continuing Edcuation

Beth Laszlo

509.793.2425

email: bethl@bigbend.edu

Big Bend Community College supports education as a lifelong process. Through the Center for Business and Industry Services (CBIS), BBCC offers training and programming whether you are an employee in need of additional skills for professional development or as a community member exploring fun, new avenues of personal growth. It is the mission of CBIS to meet the diverse needs of all community members and industries located in our service district.M

Workforce/Contracted Training

CBIS is committed to supporting the internal growth of our local industries and employment partners, as well as their ability to remain globally competitive through quality workforce training. CBIS incorporates expertise from across Washington State and the country, including the academic excellence of BBCC instructors. Training can be brought to the industry door step, increasing the effectiveness and scope of what each company can offer, and also saving the employer thousands of dollars in travel and accommodations each year. Workforce training is initiated by the industry and customized for their employees' skill enhancement and industry certification, but not college credit. Often times, the cost of training can be supported by outside grant funding accessed through the Washington State Board for Community and Technical Colleges (SBCTC).

Community Education

Lifelong learning can include industry certification, but it can also include personal exploration for your own enjoyment. Through CBIS, Big Bend Community College offers workshops and trainings relating to special interest and required industry regulations that are not typically offered for college credit. Topics have included Community Choir, Drama, Private Instrument and Vocal Training, Pottery, Electrical CEU's, Steam and Pump Training, Air Rescue and Fire Fighting (ARFF) Certification, Suicide Prevention, and CPR/First Aid

Ed2Go Online Training Programs

Ed2Go is a third party vendor that CBIS works with to provide online courses that are affordable, fun, fast, convenient, and geared just for you. We offer a wide range of interactive courses that you can take entirely online. Ed2Go offers online instructor-led courses in 6-week formats with lessons each month. Examples of these courses include Accounting, Business, Computer Applications, Healthcare and Medical, Personal Development, and Teaching and Education. Online Career Training Programs (CTP) are designed by a team of professionals from each respective field and are aligned with in-demand, fast-growing careers. Examples of CTP programs include Arts and Design, Business, Construction and Trade, Computer Programming, Hospitality, Health and Fitness, Writing, and Legal courses.

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.

Dual-Credit Programs

Dual-credit programs, sometimes referred to as dualenrollment programs, provides the opportunity for high school students to earn both high school and college credits in the same course at the same time. There are four main types of dual-credit programs: Running Start, College in the High School, CTE Dual Credit (formerly called Tech Prep) and Advanced Placement (AP)/ International Baccalaureate (IB).

Running Start

Running Start is a program that allows 11th and 12th grade students to take college courses at Washington's 34 community and technical colleges. Students earn both high school and college credits for these courses. Running Start students and their families do not pay tuition but are responsible for mandatory fees, books, and transportation.

Career and Technical Education (CTE) Dual Credit (Formerly Tech Prep)

CTE Dual Credit provides the opportunity for high school students to earn college credit in their high school career and technical education (CTE) classes without leaving their high school campus. CTE Dual Credit classes are taught at the high school or skills center and integrate academics with technical skills to help prepare students for advanced education and careers related to workforce occupations. Students should contact their high school to find out which classes qualify for CTE Dual Credit.

College in the High School

College in the High School (CiHS) programs provide college-level academic courses in high schools for qualified students. To provide CiHS classes, a high school contracts with a college or university. CiHS courses are taught at the high school by high school teachers who have met college qualifications to teach the class. CiHS courses must be approved college curriculum, listed in the college catalog; they are the

same courses offered at the college, held to the same standards of grading and evaluation, but are taught at the high school. Students should contact their high school to find out which College in the High School classes are offered.

Advanced Placement (AP) International Baccalaureate (IB)

Most colleges award college credit for students who achieve certain scores on the Advanced Placement (AP) or International Baccalaureate (IB) exams. Students take AP or IB classes located at the high school, but to earn college credit for those classes, students must pass an exam with a certain score. Students pay exam fees. Every college has its own policy for awarding or transferring in credits and coursework.

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 eLearning Coordinator, Career Services, and Writing Center also share 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. Offcampus 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

Online Classes/Distance Education/eLearning

eLearning Support is located in the Library Building 1800 (509) 793-2350

Email: elearningadmin@bigbend.edu

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 Academics to find the Tutorials for Online classes.

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

Veronica Guadarrama 509.793.2159 email: veronicag@bigbend.edu

The Science, Technology, Engineering and Math (STEM) Center is dedicated to providing access to high quality tutoring support, updated technology, and instructional services for all levels of math, science, and engineering courses. The STEM Center, located in the Math/Science Building (1200), is a collaborative study area open to all BBCC enrolled students, including GED/ DVS. Aside from tutoring services, the STEM Center also provides access to Wi-Fi, computer workstations, white board tables, dry-erase windows, science and engineering course software, printing and scanning, lap tops and calculators for daily checkout, anatomy and physiology models, a microscope, textbooks with selective answers, private study rooms, and STEM related advising. Non-BBCC students wishing to use the STEM facilities must register for MATH 010.

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)
Aviation Maintenance Technology

Business Information Management

- Administrative Professional Support Services
- · Medical Billing and Office Support 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
- 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

Building 1800 in the Library, Room 1832 509.793.2361

The Writing Center 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.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

Program Learning Outcomes

- Record business transactions in traditional accounting journals by using common accounting practices (GAAP-Generally Accepted Accounting Principles).
- 2. Communicate the cumulative effect of business transactions by preparing basic financial statements.
- Analyze the financial health of a business by interpreting business data (obtained from financial statements).
- 4. Record, classify, and summarize business transactions by using current accounting software.
- 5. Demonstrate an understanding of concepts and terminology related to operating in a business environment by completing various business-related projects and exams.

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

Recommended Fre-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	
*CT	E Du	al Credit credit available		

Recommended 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**

		i ali Qualtei		
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 Essentials3		
BUS&	101	Intro to Business5		
BUS	121	Business English**5		
BUS	161	Business Calculators*2		
		Spring Quarter		
BIM	182	Introduction to Microsoft Excel2		
BUS	122	Business Communications5		
CMST&	220	Public Speaking**5		
ECON	200	Introduction to Economics5		
^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& ACCT BIM BUS& FAD	262 109 201	Prin of Accounting I	2 1 5		
Winter Quarter					
		Winter Quarter			
ACCT&	202	Winter Quarter Prin of Accounting II	5		
ACCT& BIM		•			
	183	Prin of Accounting II	1		

Spring Quarter

ACCT&	203	Prin of Accounting III5
ACCT	233	Intro to Payroll Taxes2
ACCT	260	Computer Accounting3
BUS	170	Consumer Finance 5
*0.75		0 10 10 11 11

^{*}CTE Dual Credit credit available

One-Year Certificate of Achievement (52 credits)

Upon completion of the following courses, the student will earn a Certificate of Achievement:

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
ACCT	260	Computer Accounting	3
BIM	110	Microsoft Office Essentials	3
BIM	190	Spreadsheets 1	3
BUS		Business Mathematics***	
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
*CTE	Dual	Credit available	

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)

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

Option 2: Accounting Principles Proficiency (20 credits)

ACCI	105	introduction to Accounting"	ວ
ACCT&	201	Prin of Accounting I	5
ACCT&	202	Prin of Accounting II	5
ACCT&	203	Prin of Accounting III	5

105 Introduction to Accountings

^{*}TechPrep credit available

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

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

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

Option 3: Computerized Accounting Applications (5 credits)

ACCT	260	Computer Accounting	3
ACCT	262	Introduction to QuickBooks	2

Option 4: Business Communications (19 credits)

BUS	120	Human Relations on the Job**4
BUS	121	Business English**5
BUS	122	Business Communications5
CMST&	220	Public Speaking **5

^{*}CTE Dual Credit available

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	

^{*}CTE Dual 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.

Program Leaning Outcomes

- 1. Students will demonstrate workplace safety when handling food, chemical/pesticides, and equipment.
- 2. Students will select and use the appropriate precision agriculture and software application technology.
- 3. Students will demonstrate critical-thinking and problem-solving skills as they make decisions in agricultural management situations.

- 4. Students will demonstrate knowledge of scientific principles when applied to a variety of crop production systems.
- 5. Students will collect and evaluate data from various technologies and make management decisions from the data collected.
- 6. Students will demonstrate knowledge of business principles when applied to agricultural businesses and operations.
- 7. Students will apply the rules, protocols, and safety required to operate an unmanned aerial system for commercial agriculture purposes.

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&		General Chem w/Lab I	
CHEM&	162	General Chem w/Lab II	5
CHEM&	163	General Chem w/Lab III	5
ECON&	201	Microeconomics	5
HIST&	116	Western Civilization**	5
* BIC	L& 10	0 or higher BIOL& 211 recommended.	

Related Instruction (20-22 Credits)

CMST&	220	Public Speaking	5
ENGL&	101	English Composition 1	.5
FAD	150	Industrial First Aid	.2
MATH&	146	Introduction to Statistics	.5
PSYC&	101	General Psychology or	
SOC&	100	Introduction to Sociology	5

AGR Electives (20 Credits)

AGR	212	Ag Safety & Pesticides	5
AGR	241	Farm & Ranch Management	5
AGR	251	Ecologically Based Pest Mgmt	5

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

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

^{**} HIST& 116 or HIST& 118

AGR	271	Agricultural Sales & Marketing5	AGR	101	Orientation to Ag Ind. & Careers 2
AGR		Food Sustainability and Safety5	AGR	241	<u> </u>
AGR		Work-Based Learning1-6	AGR	271	Agriculture Sales & Marketing5
AGR		Work-Based Learning1	ACCT&	105	
71011	201	Total Credits: 99	BUS&	101	Intro to Business5
		Total Orcalis. 33	BUS	170	
Δς	socia	te in Applied Science Agriculture	D00	170	Consumer i mance
73		echnology & Management	0-	4! 6 ! -	-46 A -1-1 A1
					ate of Achievement- Agricultural
_		Management and Technology a compre-			ned Aerial Systems (47 Credits)
		e with two customized pathways intended	BUS		Human Relations on the Job4
•	-	duates with the skills needed to indepen-	ENGL		Technical Writing3
		or support local, regional and national	FAD	150	
		dustries. This degree incorporates options	MAP		Applied Mathematics5
		terested in Ag Business or the use of	CMST		Human Communications4
Unmani	ned Ae	rial Vehicles (Drones).	AGR		Orientation to Ag Ind. & Careers 2
	_		AGR	120	Intro to Precision Ag5
	Req	uired Courses (55-68 credits)	UMS	101	Intro to Unmanned Aerial System 5
AGR	101	Orientation to Ag Ind. & Careers 2	UMS		Remote Pilot Certification2
AGR	120	Intro to Precision Agriculture5	UMS	229	
AGR	212	Agriculture Safety and Pesticides 5	GIS		GIS I4
AGR	241	Farm & Ranch Management5	GIS		GIS II
AGR	261	Plant Science5	GIS	220	Remote Sensing 3
AGR	263	Soils 5			
AGR	271	Agriculture Sales & Marketing5			Anthropology
AGR	272	Food Sustainability & Safety5			email: chrisr@bigbend.edu
AGR	295	Work-Based Learning*4	_		
AGR	297	Work-Based Learning Seminar*1	Assoc	iate i	in Arts and Science Transfer Option
BIM	110	Microsoft Office Essentials3	Anthro	polog	y is the study of humankind. This broad
BUS	200	Supervision5	field incl	udes t	the study of human biological origins, evo-
ECON8	201	Micro Economics5			y, and nature, as well as the study of the
*AC	SR 295	& 297 or CDL 100 Commercial Drivers License			on, diversity, and nature of human cultural
	Rela	ated Instruction: (18 Credits)			. Anthropology represents an attempt to
MAP		Applied Math or BUS 1025			ebrate the whole context of human experi-
BUS		Human Relations on the Job4			g all people, from all cultures, across all
ENG	109				he career possibilities in anthropology are:
FAD		Industrial First Aid2			education, social work, Foreign Service,
CMST		Human Communications4	_		ental agency work.
•		Approved Electives (22 Credits)			ams differ at each college, students should
ACCT	262	Intro to Quickbooks2			m outlines published by the college or
BUS		Intro to Business5		-	hich they intend to transfer. The follow-
BUS	170	Consumer Finance5			nded courses prepare students for most
UMS	101	Intro to Unmaned Aerial Systems 5			institutions. Students should prepare their
UMS	107				dules with the assistance of an advisor
UMS	229	Independent Project5	knowled	geable	e in this transfer area.
GIS	110	GIS4			
GIS	210	GIS II	Rec	omm	ended Pre-Major Courses Credits
GIS	220	Remote Sensing 3	ANTH&	100	Survey of Anthropology5
		, and the second	PSYC&	100	, •
	Certi	ficate of Achievement-Agricultural	SOC&	101	Intro to Sociology5
		Business (45 Credits)	BIOL&	100	
BUS		Human Relations on the Job4	GEOL&	101	Intro Physical Geology5
ENGL	109	Technical Writing3	HIST&	116	Western Civilization I5
FAD	150	Industrial First Aid	REL	201	World Religions5
BUS	102	Business Mathematics	SOC&	201	Social Problems5
CMST	_	Human Communications 4	SOC	220	Marriage and the Family5

SOC

100 Human Communications......4

220 Marriage and the Family5

CMST

Art

Rie Palkovic 509.793.2276 email: art@bigbend.edu

Associate in Arts and Science Transfer Option

Art is a human expression dating back to prehistoric times. Humans made naturalistic and abstract expressions in their environments. As we delve into art making we tap into an essential characteristic of being human. In the art department, the studio method of learning emphasizes the development of individual creativity. Through the learning experience of technical competence, the art department encourages students to achieve a sense of involvement and integrity in making projects. Through the study of art history in other cultures and time periods the students may make connections to human expressions throughout the world community.

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. Some possible career options for art and art history majors are: artist, art educator, museum curator, art critic, graphic designer, photographer, web designer, industrial design, and many others. The study of the arts and art history may help other majors in problem solving techniques, creative thinking, and working with others.

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				
ART	101	Design I	5	
ART	102	Design II	5	
ART	103	Design III	5	
ART	104	Drawing I	5	
ART	105	Drawing II	5	
ART	106	Drawing III	5	
ART	216	Prehistoric-Medieval Art History.	5	
ART	217	Renaissance –Mid-nineteenth		
		Century	5	
ART	218	Western Art: Impressionism to A		
		After 1945	5	

Recommended Art Electives	12 credits of	
	the following courses	

ART 121	Ceramics I2-5
ART 122	Ceramics II2-5
ART 123	Ceramics III2-5
ART 221	Watercolor I1-5
ART 222	Watercolor II1-5
ART 223	Watercolor III1-5
ART 231	Oil Painting I5
ART 232	Oil Painting II5
ART 233	Oil Painting III5
ART 230	Painting/Drawing Workshop5

Automotive Technology

 Richard Wynder
 509.793.2255

 John Martin
 509.793.2256

email: aut@bigbend.edu

Program Learning Outcomes

- 1. Graduates will demonstrate proper shop safety procedures and hazardous waste handling while performing repairs and diagnostics in the lab.
- 2. Graduates will use proper tools during repair and diagnostic work in the lab.
- 3. Graduates demonstrate the ability to retrieve service information from manuals and on-line sources.
- 4. By program completion, students will demonstrate knowledge and skill in the ASE certification areas including engine repair, automatic transmissions, manual transmissions, steering and suspension, brakes, electrical/electronics, HVAC, and engine performance.

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

120	Human Relations on the Job
100	Human Communications
109	Applied Technical Writing
150	Industrial First Aid
101	Applied Mathematics (AUT/WLD)
	100 109 150

First Year Fall Quarter

AUT	111	Automotive Engine Service9	
AUT	115	Automotive Shop Safety &	
		Environmental Issues1	
AUT	131	Manual Drive Train and Axles 8	
AUT	190	Skills Laboratory I *2	
MAP	101	Applied Mathematics (AUT/WLD)** 5	
Winter Quarter			
AUT	121	Automotive Electrical &	
		Electronic Systems	
AUT	132	Hydraulic Systems 3	
AUT	190	Skills Laboratory I*2	
WLD	101	Oxy-Acetylene Welding for	
		Auto Technicians2	
WLD	102	ARC/GMAW Welding for Auto	
		Technicians2	

Spring Quarter

AUT	105	Automotive Personal Computer		
		Applications	2	
AUT	124	Brake System Service	9	
AUT		Suspension, Steering & Alignment		
AUT	190	Skills Laboratory I*	2	
	**Related instruction required for an AAS degree			

Second Year Fall Quarter

*May be repeated for up to six credits for each course

AUT	220	Engine Performance	18	
AUT		Skills Laboratory II*		
ENGL	109		3	
		Winter Quarter		
AUT	212	Automatic Transmission Repair	9	
AUT	213	Automotive Servicing I	6	
AUT	290	Skills Laboratory II*	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	290	Skills Laboratory II*	2	
BUS	120	Human Relations on the Job**	4	
FAD	150	Industrial First Aid**	2	
**Re	**Related instruction required for an AAS degree			

^{**}Related instruction required for an AAS degree
*May be repeated 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)

AUT	115 Automotive Shop Safety and Environmental
AUT	212 Automatic Transmission Repair9
	Automotive Heating and Air Conditioning (6 credits)
AUT	231 Automotive Heating and

Brake Repair (10 credits)						
AUT	115	Automotive Shop Safety and Environmental Issues				
AUT	124	Brake System Service9				
Ele	Electrical/Electronic Systems (16 credits)					
AUT	115	Automotive Shop Safety and Environmental Issues				
AUT	121	Automotive Electrical and Electronic Systems				
	Eng	ine Performance (19 credits)				
AUT	115	Automotive Shop Safety and Environmental Issues				
AUT	220	Engine Performance 18				
Engine Repair (10 credits)						
AUT	111					
AUT	115	Automotive Shop Safety and Environmental Issues 1				
M	anual	Drive Train and Axle (9 credits)				
AUT	115	Automotive Shop Safety and				
AUT	131	Environmental Issues 1 Manual Drive Train and Axles 8				
s	uspe	nsion and Steering (10 credits)				
AUT	115	1 2				
AUT	125	Environmental Issues				

Aviation (Commercial Pilot)

509.793.2241

email: aviation@bigbend.edu
John-Marc Swedburg II 509.793.2247
Chief Flight Instructor
Benjamin Altrogge 509.793.2250
John Gillespie 509.793.2246

Aaron Linthicum

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,

509.793.2249

special arrangements (usually the eighth quarter).

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

multi-engine, and seaplane may be earned through

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.

Program Learning Outcomes

- The students will be able to demonstrate the technical aspects of aircraft control and operation of related systems at the FAA commercially certificated and instrument rated pilot level.
- 2. The students will be able to interpret regulatory and legal issues which impact the industry at the FAA commercially certificated pilot level.
- 3. The student will be able to evaluate effective aeronautical decision making skills at the FAA commercially certificated pilot level.

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.

I.	Basic Requirements	Credits
	English 101	5
	English 102	5
	or	
	English 235	5
	Symbolic or Quantitative Rea	asoning5
	•	-
II.	Breadth Requirements	50
II.	Breadth Requirements A. Humanities	
II.		(minimum 15 credits)
II.	A. Humanities	(minimum 15 credits)(minimum 15 credits)
II.	A. Humanities B. Social Science	(minimum 15 credits)(minimum 15 credits)(minimum 15 credits)

III. Specified Electives IV. Physical Education				
V. General Electives				
		Credits		
AVF	111	Preflight Ground School1		
AVF	112	Private Pilot Ground School5		
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 School 5		
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		
* Off	* Offered through CWU			

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	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
		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 School	5	
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	
Electives**20-23				
* Offered through CWU				

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 A	WF C	redits listed previously, AVF 111- AVF 261

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)

		` ,			
AVF AVF	111 141	Pre-flight Ground School Private Pilot Flight (Stage 1)			
	Privat	te Pilot Certificate (18 credits)			
			Credits		
AVF	112	Private Pilot Ground School	5		
AVF	113	Meteorology	5		
AVF	142	Private Pilot Flight (Stage 2)	4		
AVF	143	Private Pilot Flight (Stage 3)	4		
Co	Commercial Pilot Certificate (23 credits)				
			Credits		
AVF	114	Theory of Flight	5		
AVF	221	Commercial Pilot Ground School.			
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		

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

Instrument Pilot (9 credits)

	(O				
AVF 223 AVF 261	Instrument Ground School					
Flig	Flight Instructor (CFI) (9 credits)					
		Credits				
AVF 225	Effective Communication in Flight Instruction	5				
AVF 270	Flight Instructor	4				
Flight Instr	ructor Instrument (CFII) (2 cred	lits) Credits				
AVF 271	Flight Instructor Instrument Airpla	ne 2				
	Sea Plane (2 credits)					
AVF 272	P. Sea Plane Flight	Credits 2				
Multi-Engine (2 credits)						
AVF 275	5 Multi-Engine Flight	Credits 2				
Simulator Training (1 credit)						
AVF 276	Simulator Training /Instrument Training	Credits 1				
Multi-Engine Instructor (MEI) (2 credits)						
		Credits				
AVF 291	Multi-Engine Instructor	2				
A	.T.P.: Multi-Engine (1 credit)					

AVF	291 Multi-Engine Instructor	2
	A.T.P.: Multi-Engine (1 credit)	
		Credits

AVF VA IHL Flight Program

Current hourly prices for aircraft:

Fixed Wing

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 Float plane	\$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

Erik Borg	509.793.2253
Dan Moore	509.793.2254

email: amt@bigbend.edu

Associate in Applied Science

Workforce Education Program (134 credits)

The Aviation Maintenance Technology program at BBCC is designed to prepare students for FAA airframe 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 guarter 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)

3. 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.

Program Learning Outcomes

- Students will be able to identify and explain a variety of airframe and/or powerplant systems and components as evaluated by the completion of the FAA written, oral and practical exams.
- Students will be able to assess a variety of airframe and/or powerplant systems and components and be able to troubleshoot various systems components as evaluated by the completion of the FAA written, oral and practical exams.
- Students will show knowledge of Federal Aviation rules and regulations components as evaluated by the completion of the FAA written, oral and practical exams.
- Students will be able to demonstrate teamwork, ethics, and appropriate safety awareness and/ or workplace specific skills through instructor observation.

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
**	Polator	linetruction requirement for AAS dear	aa and

- ** Related instruction requirement for AAS degree and Certificate of Achievement
- # These related instruction courses required for the AAS degree are in addition to the FAA approved curricula.

			Credits
AMT	148	AMT General Electricity+	2-7
AMT	149	AMT Airframe Electricity+	3
AMT	150	AMT General+	4-16
AMT	151	Airframe Mechanics I +	4-22
AMT	152	Airframe Mechanics II +	4-21
AMT	153	Airframe Mechanics III+~	4-24
AMT	249	AMT Powerplant Electricity+	2
AMT	251	Powerplant Mechanics I+	4-16
AMT	252	Powerplant Mechanics II +	4-14
AMT	253	Powerplant Mechanics III+	4-16
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)

			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
**	Palatar	I instruction requirement for AAS dea	ree and

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

Powerplant Maintenance Technician (63 credits)

			Credits
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
**	Related	d instruction requirement for AAS dear	ee and

- ** 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)

Aviation	Maintenance – General (25 credi	its) redits
AMT 14	8 AMT General Electricity+	2-7
AMT 15		16
	O Applied Mathematics**+	2
Relai	ed instruction requirement for Associate in Science degree and Certificate of Achievem	ent
Aiı	rframe Mechanic I (25 credits)	
	=	redits
	9 AMT Airframe Electricity+	
AMT 15	1 AMT 151 Airframe Mechanic I+	22
Air	frame Mechanic II (23 credits)	
	_	redits
AMT 15:		
WLD 10	Beginning AMT Welding+	2
Pow	verplant Mechanic I (16 credits)	
		redits
AMT 25	1 AMT Powerplant Mechanic I+	16
Pow	erplant Mechanic II (16 credits)	
	=	redits
	9 AMT Powerplant Electricity+	
AMT 25	2 AMT Powerplant Mechanic II+	14
Pow	erplant Mechanic III (16 credits)	
		redits
AMT 25	3 AMT Powerplant Mechanic III+	16
Com	posite Technician Certificate of	
Α	ccomplishment (33 Credits)	
	1st Quarter	
ANAT 45	_	redits
	O AMT General Electricity+	
MAP 10	O Applied Mathematics**+	∠
	2nd Quarter	
CPT 12	O Composite Fabrication	4
CPT 12	4 Composite Assembly	4

145 Special Projects3 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.

130 Composite Repair 4

+ Approved by FAA

CPT

CPT

Required only if students need more time to achieve FAA required proficiency levels.

Biological Sciences and Related Pre-Professional Studies

509.793.2148 Barbara Jacobs

email: barbaraj@bigbend.edu

509.793.2149 Mariah Whitney

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

			Credits
BIOL&	241	Human A & P 1	5
BIOL&	242	Human A & P 2	5
BIOL&	260	Microbiology	5
BOT	130	Botany	5
BOT	140	Field Botany	5
MATH&	146	Introduction to Statistics	5
MATH&	163	Calculus 3	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

Recommended Courses for Pre-Nursing and Allied Health Majors

		Cro	eaits
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

Most science courses have prerequisites; see the catalog section "Course Descriptions" for specific course information.

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.

** Required for students intending to complete a BSN degree.

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

Business Administration

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

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	ende	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	Introduction to Spreadsheets with	
		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	
		Composition II	
POLS&	202	American Politics	5
PSYC&	100	General Psychology	5

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 record keeping 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)	3 credits
BUS	135	Logistics	
		Total Credits: 4	5-50 credits

^{*}SkillSource

Business Information Management

509.793.2182

Ryan Duvall

509.793.2175

email: bimlab@bigbend.edu

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

Program Learning Outcomes

- Students will be able to demonstrate skills and knowledge related to the current version of Microsoft Office.
- 2. Students will write, speak, and present information effectively by creating professional documents that would be used in an office environment.
- Students will identify the interpersonal and ethical attributes common in the profession by developing a professional portfolio and/or successfully completing a mock interview with industry professionals.
- 4. Students will develop proficient Microsoft Office techniques by creating professional business documents while meeting an 85% competency level.

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

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

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.

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

Certificate of Achievement Administrative Assistant

	_		
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	280	Advanced Microsoft Office	5
BUS&	101	Intro 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	215	Customer Service	3
CSS	102	Focus on Success	3
CMST	100	Human Communications**	4
FAD	50	Industrial First Aid**	2
		Total Credits: 6	6

Customer Service Associate

BIM	102	Document Formatting^	4
BIM	103	The Administrative Professional.	2
BIM	104	Intermediate Keyboarding	3
BIM	109	Internet Communications	
BIM	130	Filing	2
BIM	180	Introduction to Microsoft Office^	5
BUS&	101	Intro to Business	5
BUS	102	Business Mathematics**^	5
BUS	120	Human Relations on the Job**	4
BUS	121	Business English+**	5
BUS	122	Business Communications	5
BUS	215	Customer Service	3
CSS	102	Focus on Success	
CMST	100	Human Communications**	
FAD	150	Industrial First Aid**	2
		Total Cr	edits: 53

Certificate of Accomplishment Office Assistant

BIM	102	Document Formatting^	4
BIM	103	The Administrative Professional	2
BIM	104	Intermediate Keyboarding	3
BIM	109	Internet Communications	1
BIM	130	Filing	2
BIM	180	Introduction to Microsoft Office^	5
BUS	120	Human Relations on the Job**	4
BUS	121	Business English+**	5
BUS	215	Customer Service	3
CSS	102	Focus on Success	3
		Total Cre	edits: 32

Office Clerk

BIM	102	Document Formatting^	4
BIM		The Administrative Professional	
BIM	109	Internet Communications	1
BIM	130	Filing	2
BUS		Human Relations on the Job**	
BUS	215	Customer Service	3
		Total Cre	dite: 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	210	Internet	2
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
*Flectives may only be used toward one BIM degree			

*Electives may only be used toward one BIM degree Other classes may qualify; consult with your advisor

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

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	5
ACCT	105	Introduction to Accounting^5	5
BIM	102	Document Formatting^4	ŀ
BIM	103	The Administrative Professional2	2
BIM	104	Intermediate Keyboarding3	3
BIM	109	Internet Communications 2	2
BIM	112	Proof & Edit3	3
BIM	113	The Medical Office5	
BIM	117	Medical Office Accounts Receivable 4	ŀ
BIM	130	Filing2	2
BIM	180	Introduction to Microsoft Office^5	
BIM	262	Professional Preparation3	3
BIM	280	Advanced Microsoft Office 5	ĵ
BIM	285	MOS Prep & Certification [^]	
BUS	102	Business Math**^ 5	
BUS	120	Human Relations on the Job** 4	Ļ
BUS	121	Business English+**5	;
BUS	122	Business Communications 5	ĵ
BUS	161	Business Calculators [^] 2	
BUS	200	Supervision5	ĵ
BUS	215	Customer Service 3	
CMST	100	Human Communications**4	ŀ
CSS	102	Focus on Success3	
FAD	150	Industrial First Aid**2	2
HED	119	Medical Terminology5	ĵ
HED	239	Medical Ethics2	
Business	Infor	mation Management Electives8+	-
		Total Credita, 00	

Total Credits: 98+

Cradite

Certificate of Achievement Medical Office Technician

BIM	102	Document Formatting^	4
BIM	103	The Administrative Professional	2
BIM	104	Intermediate Keyboarding	3
BIM	109	Internet Communications	2
BIM	113	The Medical Office	5
BIM	130	Filing	2
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 Service	3
CMST	100	Human Communications**	4
CSS	102	Focus on Success	3
FAD	150	Industrial First Aid**	2

			Total Credits: 58
HED	239	Medical Ethics	2
HED	119	Medical Terminology	5

Certificate of Accomplishment Medical Office Receptionist

BIM	102	Document Formatting^	4
BIM	103	The Administrative Professional	2
BIM	109	Internet Communications (1st Credit).	1
BIM	113	The Medical Office	5
BIM	130	Filing	2
BUS	120	Human Relations on the Job**	4
BUS	121	Business English+**	5
BUS	215	Customer Service	3
HED	119	Medical Terminology	5
HED	239	Medical Ethics	2
		Total Credits	: 33

**Related instruction required for AAS degree and 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)

^CTE Dual Credit available

Chemistry

Lindsay Groce

509.793.2157

email: chm@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 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.

Recomm	Recommended Pre-Major Courses			
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	

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 4-6 week course provides 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
- 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.
- Student must have CDL permit before the start of class
- 8. 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 Workforce Education Services (WES) for eligibility for tuition and fee assistance (509.793.2310).

Computer Science

Arthur Wanner 509.793.2080 email: arthurw@bigbend.edu

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
- IT Manager
- Systems Administrator

Program Learning Outcomes

- 1. Demonstrate the ability to build, upgrade, and repair computer hardware
- 2. Configure, troubleshoot, and administer computer networks and networking hardware

- 3. Analyze and solve computational problems using a modern program language
- 4. Deploy and manage server hardware and software to support organizational operations and goals
- 5. Identify basic components of databases, virtualization, security, and project management

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:

- Associate in Computer Science DTA/MRP
- Systems Administration, Associate in Applied Science

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

Computer Science Transfer Associate in Computer Science DTA/MRP

Big Bend Community College offers the Associate in Computer Science DTA/MRP degree to prepare students for transfer to a four-year university and complete a bachelor's degree in Computer Science. Graduates may be able to transfer with junior status with all or most prerequisites for the computer science major completed.

A computer science bachelor's degree prepares students to work in careers such as software development, computer programming, and scientific computing. These careers are in high demand in Washington State and elsewhere around the country.

Since programs differ at each college, students should consult program outlines in the catalog of the college or university to which they plan to transfer. Students should prepare their quarterly schedules with the assistance of an advisor knowledgeable in the transfer area and the requirements of the intended college or university.

Program prerequisites:

- Complete BBCC admissions process
- Complete English and math placement tests; precollege course may be required
- Meet with a CS program advisor to develop a professional development plan
- MATH&141 Pre-Calculus I and MATH&142 Pre-Calculus II
- Basic computer literacy, keyboarding, and familiarity with word processing and spreadsheet software

The following recommended courses prepare students for most baccalaureate institutions. Degree Requirements will vary with each college.

Program Major Requirements:

- See advisor for university-specific requirements
- Any course without an & requires approval
- Other classes may be accepted or substituted with approvals

CS&	131	Computer Science I: C++ (WSU)5
	or	
CS&	141	Computer Science I: Java
		(CWU, Heritage, UW)5
CS	132	Advanced Programming with C++
		(WSU)5
	or	
CS	142	Advanced Programming with Java
		(CWU, Heritage, UW)5
CS	111	Intro to Programming
		(CWU, UW-Tacoma w/Java class) 5
CS	235	Data Structures & Algorithms (WSU) 5
Compu	uter Scie	ence Elective5

Math and English

- See advisor for university-specific requirements
- Other classes may be accepted or substituted with approvals
- · Any course without an & requires approval

MATH&	151	Calculus I	5
MATH&	152	Calculus II	
MATH&	163	Calculus 3 (WSU)	5
	or		
MATH&	153	AND MATH& 254 (WSU)	10
MATH&	146	Statistics (CWU, Heritage, UW-Bothel	I).5
MATH&	220	Linear Algebra (EWU)	5
MATH	230	Differential Equations (Gonzaga)	5
MATH&	254	Calculus IV (Gonzaga, WSU)	5
ENGL&	101	English Composition I	5
ENGL&	235	Technical Writing	5
	O	r	
ENGL&	102	English Composition II (EWU)	5
Gonza	ga, He	eritage, and WSU require a Discreet Ma	ath
(Structure	es) pr	erequisite that is not currently offered a	ıt
Big Bend	l Com	munity College.	

Science Requirements

ENGR	202	Design of Logic Circuits (EWU)5	
PHYS&	221	Eng. Physics I w/Lab5	
PHYS&	222	Eng. Physics II w/Lab5	
		Eng. Physics III w/Lab	
(Gonzaga, Heritage, Whitworth, WSU, WWU) 5			

Suggested Humanities and Social Science Requirements

- At least two disciplines, or more than 10 credits in one discipline
- See advisor for university-specific requirements
- · Any course without an & requires approval
- Other classes may be accepted or substituted with approval

Humanities

CMST& PHIL& PHIL	120	Interpersonal Communications
		Social Sciences
ECON&	201	Micro Economics (WSU-Vancouver) 5
	or	
ECON&	202	Macro Economics (WSU-Vancouver) 5
PSYC&	100	General Psychology5
SOC&	101	Intro to Sociology5
		Total 95 credits*

*Some universities may require more classes to meet prerequisites.

Systems Administration, Associate in Applied Science (AAS)

The Systems Administration program prepares stThe 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, trouble shoot systems and network problems, 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. All types of industries and businesses including data centers, hospitals, school districts, corporations and governments that use networked computers, servers, and online tools require systems administration skills.

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 CompTIAA+, Network+, Microsoft Technology Associate (MTA), Microsoft Certified Solutions Associate (MCSA), Cisco Certified Network Associate (CCENT and CCNA) and others

COURSE REQUIREMENTS Systems Administration, AAS

The following courses are required for the 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.

Delete d		•	0
Related	ınstru	uction Courses	Credits
BUS	120 or	Human Relations on the Job	
PSYC&	100 <i>or</i>	General Psychology (AAS-T)	
SOC&	101	Intro to Sociology (AAS-T)	4-5
CMST	100 <i>or</i>	Human Communications	
CMST&	220	Public Speaking (AAS-T)	4-5
ENGL	109 <i>or</i>	Technical Writing	
ENGL&	101	English Composition (AAS-T)	3-5
FAD	150	Industrial First Aid	
MATH&	141	Precalculus I (AAS & AAS-T) Total Credits:	
Core Ted	chnic	al Courses	
CS	101	Intro to Computer Science	2
CS	104	Intro to Computer Hardware	
CS	104	Intro to Computer Operating Sys	
CS	111		
		Intro to Programming	ɔ
CS	115	Intro to Database Design & Management	5
CS&	131	Computer Science I: C++	
	or		
CS&	141	Computer Science I: Java	5
CS	289	Project Management for CS Total Credits	
Systems	Adm	inistration Concentration	
CS	106	Intro to Virtualization	5
CS	110	Networking Fundamentals	
CS	156	Cisco Networking: Intro to Netwo	
CS	157	Cisco Networking: Routing & Sw	
CS	158	Cisco Networking: Scaling Netwo	
	or	g	
	-	tive	5
CS	159	Cisco Networking: Connecting N	
	or		
	Elec	tive	5
CS	205	Windows Server Administration .	5
CS	206	Linux Server Administration	5
CS		Intro to Security Administration	
		tive	
Concenti	ation	Total45-4	
		Total Credi	ts: 92-99

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
00	100	Networks5
BUS	120	Human Relations on the Job
БОЗ	0 <i>r</i>	Turnan Relations on the Job
PSYC&	•	Conoral Davohalary
PSYCA	100	General Psychology
0000	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 I3-5
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.

	•	Credits
CS	156	Cisco Networking: Intro to Networks 5
CS	157	Cisco Networking: Routing & Switching 5
CS	158	Cisco Networking: Scaling Networks 5
CS	159	Cisco Networking: Connecting
		Networks5
		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	Elec	tive	5
		:	24 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.

	Credits
CS	104 Intro to Computer Hardware3
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	Elective 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
		& Switching 5
CS	205	Windows Server Administration 5
CS	Com	puter 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

Criminal Justice

Ryann Leonard

509.793.2183

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 Learning Outcomes

- 1. Identify the knowledge, skills, abilities, physical fitness and agency specific standards for Criminal Justice.
- Demonstrate an understanding of the role and structure of leadership in Criminal Justice and how to employ leadership techniques.
- 3. Explain professionalism as it relates to all aspects of the field.
- 4. Execute effective oral and written communication skills related to their discipline (e.g., report writing).
- Explain the importance of and exhibit ethical decision-making and personal ethics within the criminal justice context.
- 6. Explain the role of discretion in criminal justice and how to respond appropriately to fluid situations.
- 7. Describe the personal impact of a career in criminal justice.
- 8. Explain the larger role of criminal justice as it relates to the community.
- 9. Demonstrate awareness of the diverse and multicultural components within their community.
- 10. Display appropriate sensitivity and knowledge when dealing with all people.

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 Society	5
	or		
MATH&	146	Statistics	5
ENGL&	101	English Composition I	5
CMST&	210	Interpersonal Communications	5
	or		
CMST&	220	Public Speaking	5

BUS	120	Human Relations on the Job	. 4
	or		
PSYC&	100	General Psychology	. 5
FAD	150	Industrial First Aid (or current card)	. 2
Program	Majo	or Requirements (68 credits):	
ENGL&	235	Technical Writing	. 5
PSYC&	200	Lifespan Psychology	. 5
SOC&	201	Social Problems	. 5
CJ&	101	Intro to Criminal Justice	. 5
CJ&	110	Criminal Law	. 5
CJ	210	Introduction to American Policing	. 5
CJ	220	Introduction to Corrections	. 5
PSYC	225	Psychology and the Legal System	. 5
CJ	215	Criminal Investigations	. 5
CJ	217	Advanced Report Writing	. 3
HSEM	157	Public Information Office	. 2
PHIL	210	Ethics for Criminal Justice	. 5
PEH Acti	vity C	ourse*	. 3
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 Child¬hood 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 State Early Childhood Education Certificate (52 credits--Step 7). The credits earned in the "State Early Childhood Education Certificate" apply toward the "91-credit" Associate in 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 Learning Outcomes

- Describe how children acquire language and creative expression and develop physically, cognitively and socially (Child Growth and Development).
- Establish an environment that provides learning experiences to meet children's needs, abilities and interests (Curriculum and Learning Environment).
- Observe and assess what children know and can do in order to plan and provide curriculum that meets their developmental needs (Ongoing Measurement of Child Progress).
- 4. Develop strong relationships with families and work collaboratively with agencies/organizations to meet children's needs and to encourage the community's involvement with early care and education (Families and Community Partnerships).
- 5. Establish and maintain an environment that ensures children's safety, health, and nourishment (Health, Safety, Nutrition).
- 6. Establish supportive relationships with children and guide them as individuals and as part of a group (Interactions).
- 7. Establish, implement, evaluate and analyze an early care and education setting (Program Planning and Development).
- 8. Serve children and families in a professional manner and participate in the community as a representative of early care and education (Professional Development and Leadership).

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 100-College Success Skills, 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.

		To	tal Credits: 12
ECED&	120	Practicum: Nurturing Rel ^	2
ECED&	107	Health/Safety/Nutrition	5
ECED&	105	Intro to Early Child Ed	5

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
ECED&	107	Health/Safety/Nutrition	5
		Practicum: Nurturing Rel ^	
EDUC&	115	Child Development	5
		Guiding Behavior	
		Total Credits: 2	

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
		•	redits: 20

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

CMST& 220 Public Speaking 5

MATH& 107 Math in Society5

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&	160	Curriculum Development	5
ECED&	170	Environments-Young Child	3
ECED&	180	Lang/Literacy Development	3
ECED&	190	Observation/Assessment	3
EDUC&	130	Guiding Behavior	3
EDUC&	150	Child/Family/Community	3
		•	

Total Credits: 52

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	Instru	uction Requirements:
MATH&	107	Math in Society5
ENGL&	101	English Composition I5
CMST&	220	Public Speaking5
PSYC&	100	General Psychology5
FAD	150	Industrial First Aid2
		(or current card)
Program	Majo	or Requirements:
ECED&	105	Intro Early Child Ed5
ECED&	107	Health/Safety/Nutrition5
ECED&	120	Practicum: Nurturing Rel ^ 2
ECED&	132	Infants/Toddlers Care3
ECED&	160	Curriculum Development5
ECED&	170	Environments-Young Child3
ECED&	180	Lang/Literacy Development3
ECED&	190	Observation/Assessment 3
EDUC	106	Issues in Child Abuse2
EDUC&	115	Child Development5
EDUC &	130	Guiding Behavior3
EDUC&	150	Child/Family/Community3
EDUC	190	Classroom Experience^*9
EDUC&	204	Exceptional Child5
Addition	al De	gree Requirements:
SOC&	101	Intro to Sociology5
HUM	214	Diversity Issues5
CSS	100	College Success Skills3
		Total credits: 91
Program	elec	tives may include:
ECED&	100	Child Care Basics*3
ECED&	134	Family Childcare Management 3
ECED&	138	Home Visiting & Family Engagement 3
ECED&	139	Admin of Early Lrng Prog3
ECED	214	Math & Science for Young Children 3
EDUC&	136	School Age Care3
EDUC	198	Special Topics*1-5
EDUC&	202	Intro to Education5
		al Credit available
		background check, results of Tuberculin skin

Transfer Degree Options:

Eastern Washington University Articulation Agreement

Big Bend Community College and Eastern Washington University developed an articulation agreement to trans¬fer 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

Washington State University Articulation Agreement

Big Bend Community College and Washington State 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 Human Development program at Washington State University. If you are interested in this degree option, you will need to work closely with your BBCC Advisor and Washington State University, located in Pullman. For more information, call (509) 335-9203 or visit Washington State University online at: www.wsu.edu

Economics

Terry Pyle

509.793.2186

email: terryp@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				
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/M	1S	
		Excel*	3	
BUS&	101	Intro to Business	5	
BUS&	201	Business Law	5	
ECON&	201	Micro Economics	5	

instructor if unmet prerequisite.

test, liability insurance and approval of program advisor or

ECON&	202	Macro Economics	5			Dynamics	
MATH&	146	Introduction to Statistics	. 5	ENGR&	224	Thermodynamics	5
MATH	147	Finite Mathematics	5	ENGR&	240	Applied Numerical Methods	5
MATH&	148	Business Calculus				Calculus IV	
Recomm	nende	ed General Education Courses Credi	ts	Highly re	ecom	mended Humanities/Social Scie	nces
		Public Speaking				Public Speaking (HU)	
ENGL&		English Composition I				Micro Economics (SS)	
ENGL&		Composition II		200110	or	whore Economics (CC)	
POLS&		American Government		FCON&	-	Macro Economics (SS)	F
						International Relations (SS)	
SOC&	101	Intro to Sociology	.5			General Psychology (SS)	
		Engineering		10100	100	Total Cred	
		Engineering			Ме	chanical/Civil/Aeronautical/	
	As	sociate in Science Transfer			In	dustrial/Materials Science	
	•	elated Programs (MRP) Options		Required	d Cor	e and Pre-Major Courses	Credits
•	-	of the AS-T Track II MRP Degree is to		CHEM&	161	General Chemistry w/Lab I	5
		nsferring students are prepared to certify	'	CHEM&	162	General Chemistry II w/Lab	5
		ureate engineering program. Recipients		ENGL&	101	Composition I	5
of the MF	RP de	gree are expected to enter the transferrir	ng	ENGR&		Statics	
university	/ as a	third-year engineering student.				Dynamics	
Due to	the m	ath and science demands of the MRP				Mechanics of Materials	
degree, s	studer	nts will have to complete the last of their		MATH&		Calculus I	
basic bre	ath re	equirements at their transferring universit	y.	MATH&		Calculus II	
Engine	ering	students should also consult program		MATH&		Calculus 3	
outlines	oublis	hed by the university to which they intend	l k	MATH		Linear Algebra	
to transfe	er. Sti	udents seeking to pursue these degree		MATH		Differential Equations	
options s	hould	meet with a designated BBCC engineer	-	PHYS&	221		
		develop an education plan based on their		PHYS&		Engineering Physics II w/Lab	
		alization and university transfer options.		PHYS&		Engineering Physics III w/Lab	
	Elec	trical/Computer Engineering				d Social Sciences	
Require		e and Pre-Major Courses Credi	ts	Dro Moio	sr Ela	ativa Caurago /minimum 20 ara	dita\
CHEM&	161	General Chemistry w/Lab I	.5	-		ctive Courses (minimum 20 cre	•
		Computer Science I: C++	.5	CS&		Computer Science I: C++	
	or			CS&		Computer Science II: Java	
CS&	141	Computer Science II: Java	5	ENGL&		Technical Writing	
ENGL&	101	Composition I		ENGR&	111	Engineering Graphics I	5
ENGR&	204	•			or		_
MATH&	151	Calculus I		ENGR&	112	Engineering Graphics II	
MATH&	152	Calculus II		ENGR	201	Material Science	
MATH&	163	Calculus 3		ENGR&			
MATH		Linear Algebra		ENGR		Electrical Circuits Lab (for WSU)	
MATH	230	_				Thermodynamics	
PHYS&				ENGR&	240	Applied Numerical Methods	5
	221	Engineering Physics I w/Lab		MATH&	254	Calculus IV	5
PHYS&							
PHYS&		Engineering Physics III w/Lab		Highly re	ecom	mended Humanities/Social Scie	nces
numaniti	es an	d Social Sciences	וס			Public Speaking (HU)	
Dro Maio	r Elo	ctive Courses (minimum 25 credits)				Micro Economics (SS)	

or

POLS&

PSYC&

CHEM& 162 General Chemistry II w/Lab5

ENGL& 235 Technical Writing......5

ENGR& 214 Statics......5

202 Design of Logic Circuits5

205 Electrical Circuits Lab (for WSU) 1

Total Credits: 105+

203 International Relations (SS)......5

100 General Psychology (SS)......5

ECON& 202 Macro Economics (SS)5

ENGR

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.

Recomn	Credits		
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

Recomn	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: angelal@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			

Prior Learning Credit Policy

The Foreign Language Department will award Prior Learning Credit to students who meet the following academic or prior learning criteria.

Students who have taken a year of high school level foreign language may be placed into the 122 level of the language offered at Big Bend Community College. If the student completes the 122 level of the language at the college and earns a 3.0 grade point or higher, the student will be awarded the same grade point for the 121 level of that foreign language. Students must have instructor approval to register.

Students who have taken two years of high school level foreign language may be placed into the 123 level of the language offered at Big Bend Community College. If the student completes the 123 level of the language at the college and earns a 3.0 grade point or higher, the student will be awarded the same grade point for the 121 level and the 122 level of that foreign language. Students must have instructor approval to register.

Prior learning credit is awarded based on a student's performance, a grade point of 3.0 or higher, in the first language class that the student attempts at Big Bend Community College. A student that takes 122 and then 123 will be awarded prior learning credit for 121 if they satisfy the student performance requirement in 122. A student that takes 122 twice and receives a 3.0 grade in their second attempt but not their first attempt will not receive prior learning credit for 121.

Big Bend Community College students who identify as Heritage Speakers or Native Speakers may receive Prior Learning Credit as well by fulfilling the same requirements as noted above. Students must have instructor approval to register.

History

Chris Riley

509.793.2184

email: chrisr@bigbend.edu

Jody Quitadamo

509-793-2177

email: jodyq@bigbend.edu

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 interested in the study of history should visit with a member of the department to determine a proper major pathway.

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 Secu¬rity 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

Commun	ications-10	credits
--------	-------------	---------

ENGL&	101	English Composition I	. 5
ENGL&	235	Technical Writing	5

Quantitative/Symbolic Reasoning Skills 5 credits

Math&	146	Introduction to Statistics	5

Social Sciences -10 credits

PSYC&	100	Intro to Psychology	5
And a ch	oice c	of:	
HIST&	137	US History II	5
POLS&	202	American Government	5
POLS&	203	International Relations	5
SOC&	101	Intro to Sociology	5
CJ&	101	Intro to Criminal Justice	5

Humanities (5 credits) - Select one

CMST&	102	Introduction to Mass Media	5
CMST&	220	Public Speaking	5
CMST&	210	Interpersonal Communications	5

Natural Sciences -10 credits

ENVS&	100	Survey of Environmental Science	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)

		,
BUS	122	Business Communications 5
BUS	114	Business Ethics5

BIM	181	Microsoft Word1-3
BIM	182	Microsoft Excel 1-3
BIM	184	Microsoft PowerPoint1-3
CJ&	110	Criminal Law5
CJ	210	Intro to American Policing5
CJ	220	Intro to Corrections 5
ЦСІ	ENA (Source Beguirements 46 avadite
		Course Requirements -46 credits
FAD	150	Industrial First Aid2
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 Center3
HSEM	210	Exercise Design and Evaluation2
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
		(NIMS)
ENGL&	101	English Composition 5
CJ&	101	Intro to Criminal Justice5
		Winter Quarter
HSEM	130	Technology in Emergency Mgt 5
HSEM	180	Public Administration 3
ENVS&	100	Survey of Environmental Science 5
FAD	150	Industrial First Aid 2
		Spring Quarter
HSEM	120	All Hazards Emergency Management 3
HSEM	157	Public Education Officer2
HSEM	190	Special Topics3
MATH&	146	Statistics5
		Summer Quarter
HSEM	230	Disaster Response and Recovery 2
PSYC&	100	Intro to Psychology 5

Second Year Fall Quarter

ENGL& HSEM HSEM CMST&	250 210	Technical Report Writing
		Winter Quarter
HSEM	200	Emergency Operations Center 2
HSEM	220	Developing and Managing Volunteers 2
HSEM	240	Work-based Learning 3
HSEM	190	HSEM Special Topics*3
HIST&	137	US History II5
		Spring Quarter
HSEM	160	Emergency Response Awareness to
		Terrorism5
HSEM	240	Work-based Learning 2
HSEM		HSEM Special Topics*3
BUS	122	Business Communications5

Sample Total of 98 credits for AAS-T Degree

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		Intro to Emergency Management5
HSEM	110	Basic Incident Command System/
		National NIMS2
HSEM	120	All Hazards Emergency Planning 3
HSEM	130	Technology in Emergency Management 3
HSEM	157	Public Information Officer2
HSEM	160	Emergency Response Awareness to
		Terrorism5
HSEM	180	Public Administration3
HSEM	190	Special Topics 3
		Total Credits 26

Industrial Manufacturing Technician (AJAC) Apprenticeship Program

The Industrial Maintenance Technician Program is an Apprenticeship Program offered through the Aerospace Joint Apprenticeship Committee (AJAC). This program is a 9-month program.

^{*}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.

For more information please contact the Aerospace Joint Apprenticeship Committee at (206) 764-7940 or info@AJACtraining.org.

MT	101	Industrial Manufacturing Safety	5
MT	102	Industrial Manufacturing Basics	5
MT	103	Industrial Manufacturing Production	
		Processes	5
MT	104	Industrial Manufacturing Machine	
		Maintenance	5
MT	201	Industrial Manufacturing Shop Math	5
MT	202	Communications	5

Industrial Systems Technology ~ Mechanical Maintenance Option

Bill Autry 509.793.2264 email: billa@bigbend.edu

Program Learning Outcomes

- 1. Students will be able to apply electronic principles to electro-maintenance activities
- 2. Students will be able to install electrical/electronic apparatus using appropriate techniques
- Students will be able to demonstrate proper mechanical techniques to assembly/disassembly activities
- 4. Students will be able to fabricate simple fixtures as situations generally require.
- Students will be able to access controls automation logic equipment for monitoring and troubleshooting purposes

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 advisor for substitute courses		

First Year Fall Quarter

IST	100	Introduction to Industrial Safety and Health3	
IST	102	Technical Drawing Interpretation*3	
MAP	103	Applied Mathematics (IST)**	
WLD	111	Welding Process I*	
		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	Machining II5	
WLD	132	Gas Tungsten Arc Welding I (TIG)3	
*TCT	E Dua	l 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	
		Maintenance3	
IST	136	Intro to Industrial Boilers5	
IST	170	Introduction to Instrumentation5	
	Advis	sor approved Elective*2 to 5	

Spring Quarter IST 150 Introduction to Programmable Logic Controllers I......5 IST 282 Fluid Power Transmission......5 284 Pump Hydraulics/Mechanics......5 IST *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

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	
BUS MAP	120 Human Relations on the Job**	
	Winter Quarter	
CMST IST	100 Human Communications**105 Basic Electricity - DC Circuit Analysis	
	Spring Quarter	
	106 Basic Electricity – AC Circuit Analysis	3
Second Year Fall Quarter		
IST IST	107 Industrial Electricity I130 Introduction to Refrigeration and Air Conditioning	
	Winter Quarter	
IST IST	170 Introduction to Instrumentation	
IST	Maintenance	
Industrial Fabrication (50 credits) First Year Fall Quarter		
MAP	103 Applied Mathematics (IST)**	5
IST WLD	102 Technical Drawing Interpretation*	3
Big Bend Community College		

Winter Quarter		
IST	180 Machining I5	
WLD	122 Gas Metal Arc Welding I	
ENGL	Spring Quarter 109 Applied Technical Writing**3	
FAD	150 Industrial First Aid**2	
IST	182 Machining II5	
WLD *CT	132 Gas Tungsten Arc Welding I (TIG)3 E Dual Credit available	
	E Dual Credit available elated instruction required for an AAS degree and	
Cert	ificate of Achievement	
	Second Year	
	Fall Quarter	
BUS WLD	120 Human Relations on the Job**4 112 Thermal Cutting and Welding*3	
	Winter Quarter	
CMST	100 Human Communications**4	
IST *CT	184 Machining (Skill Enhancement) 4 E Dual Credit available	
**Re	elated instruction required for an AAS degree and	
Cert	ificate of Achievement	
	Industrial Mechanics (51 credits)	
	First Year	
MAP	Fall Quarter 103 Applied Mathematics (IST)**5	
IST	280 Mechanical Power Transmission	
	Winter Quarter	
CMST	100 Human Communications**4	
IST IST	180 Machining I5 120 Introduction to Preventive/Predictive	
101	Maintenance	
	Spring Quarter	
ENGL	109 Applied Technical Writing**	
FAD	150 Industrial First Aid**2	
IST **Re	284 Pump Hydraulics/Mechanics	
	ificate of Achievement	
	Second Year	
	Fall Quarter	
BUS	120 Human Relations on the Job**4	
IST	130 Introduction to Refrigeration and Air Conditioning5	
	Winter Quarter	
IST	136 Intro to Industrial Boilers5	
	Spring Quarter	
IST	282 Fluid Power Transmission	
	elated instruction required for an AAS degree and ificate of Achievement	

Certificate of Accomplishment

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 substituted courses may be certificated upon approval by the IST program advisor.

			4.
RAII	ا∆r/R	'Atria	eration
2011		Leiiid	zi atioii

		•
IST	130	Introduction to Refrigeration and
		Air Conditioning5
IST	120	Introduction to Preventative/Predictive
		Maintenance 3
IST	136	Intro to Industrial Boilers5
		Machining
		Machining
IST	180	Machining I5
IST	182	Machining II5
IST	184	Machining-Skill Enhancement4
		Mechanical
IST	120	Introduction to Preventative/Predictive
101	120	
		Maintenance 3
IST	280	Mechanical Power Transmission 5
IST	282	Fluid Power Transmission5
IST	284	Pump Hydraulics/Mechanics5

Industrial Systems Technology ~ Industrial Electrical Option

James Ayers 509.793.2265 email: jamesa@bigbend.edu

Program Learning Outcomes

- 1. Students will be able to apply electronic principles to electro-maintenance activities
- 2. Students will be able to install electrical/electronic apparatus using appropriate techniques
- Students will be able to demonstrate proper mechanical techniques to assembly/disassembly activities
- 4. Students will be able to fabricate simple fixtures as situations generally require.
- Students will be able to access controls automation logic equipment for monitoring and troubleshooting purposes

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 Health	
IST	102	Technical Drawing Interpretation* 3	
IST		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	
		Maintenance3	
Spring Quarter			
ENGL	109	Applied Technical Writing**	
IST	107	Industrial Electricity I5	
IST	110	Introduction to National	
		Electrical Code2	

IST 113 Industrial Electrical Installation Techniques	Second Year Fall Quarter
IST 221 Electronics I (Principles)	
Second Year	IST 222 Electronics II (Applications)5
Fall Quarter	Winter Quarter
IST 111 National Electrical Code II	
IST 150 Introduction to Programmable	Spring Quarter
Logic Controllers	**Related instruction required for AAS degree and
Winter Quarter	Industrial Electrical
IST 112 National Electrical Code III	(FO and dita minimum)
IST 223 Electronics III (Industrial)	
IST 152 Programmable Automation Control	
Spring Quarter	IST 105 Basic Electricity - DC
IST 208 Industrial Electricity III	Circuit Analysis
(VFD's & Soft Starts)	
IST 270 Instrumentation II & Control Actuators	Winter Quarter
Advisor approved Elective2 to	TOWNS I TOO TIUTIAH COMMINICATIONS
*CTE Dual Credit available	IST 106 Basic Electricity - AC
**Related instruction required for AAS degree and Certificate of Achievement	Circuit Analysis5
	Spring Quarter
Certificate of Achievement	IST 107 Industrial Electricity I
The Certificate of Achievement is designed for students	IST 221 Electronics I (Principles)5
who wish to take specialized courses in a particular field and desire certification acknowledging completion of	Second Year
specific program modules. These modules contain the	Fall Quarter
mathematic, written and oral communications, and human	IST 207 Industrial Electricity II5
relations related instruction requirements and accepted course requirements for certification. The following is a sug	Winter Quarter
gested sequence of courses. Interested students must wor	L BOS 120 Human Relations on the Job4
out courses and schedules with the IST program advisor.	Advisor approved Elective2 to 5
Floatnanica Tachnalam.	Spring Quarter ENCL 100 Applied Technical Writing**
Electronics Technology (48 credit minimum)	ENGL 109 Applied Technical Writing**
First Year	**Related instruction required for AAS degree and
Fall Quarter	Certificate of Achievement
IST 105 Basic Electricity - DC Circuit Analysis	Programmable Logic Controllers
MAP 103 Applied Mathematics (IST)**	
Winter Quarter	First Year
CMST 100 Human Communications**	
FAD 150 Industrial First Aid**	
,	5 IST 105 Basic Electricity - DC Circuit Anal 5 MAP 103 Applied Mathematics (IST)**
Spring Quarter ENGL 109 Applied Technical Writing**	
IST 221 Electronics I (Principles)	
` ' '	IST 106 Basic Electricity - AC
	Circuit Analysis5

		Spring Quarter	
ENGL	109	Applied Technical Writing** 3	
IST	107	Industrial Electricity I5	
		Second Year	
		Fall Quarter	
IST	150	Introduction to Programmable	
		Logic Controllers5	
IST	207	Industrial Electricity II5	
Winter Quarter			
CMST	100	Human Communications**4	
IST	152	Programmable Automation Control 5	
**Rela	ated ir	nstruction required for AAS degree and	
Certif	icate d	of Achievement	

Certificates 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 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. Individual or substituted courses may be certificated upon approval by the IET program advisor.

Basic Electricity (15 credits)			
IST	105	Basic Electricity –	
		DC Circuit Analysis5	
IST	106	Basic Electricity –	
		AC Circuit Analysis5	
IST	221	Electronics I (Principles)5	
		Electronics (15 credits)	
IST	221	Electronics I (Principles)5	
IST		Electronics II (Applications)5	
IST	223	Electronics III (Industrial)5	
Industrial Electricity (20 credits)			
IST	107	Industrial Electricity I5	
IST	113	Electrical Installation Techniques 5	
IST	207	Industrial Electricity II5	
IST	208	Industrial Electricity III5	
Instrumentation (15 credits)			
IST	150	Introduction to Programmable	
		Logic Controllers5	

IST IST	170 270	Introduction to Instrumentation 5 Instrumentation II and Control Actuators 5
	Natio	onal Electric Code (6 credits)
IST	110	Introduction to National
		Electric Code2
IST	111	National Electrical Code II2
IST	112	National Electrical Code III2
Prog	gramm	able Logic Controllers (15 credits)
IST	150	Introduction to Programmable
		Logic Controllers 5
IST	207	Industrial Electricity II5
IST	152	Programmable Automation Control 5
		M = 41= = = 41 = =

Mathematics

Salah Abed	509.793.2145
Brinn Harberts	509.793.2154
Tyler Wallace	509.793.2150
Barbara Whitney	509.793.2146

email: Math@bigbend.edu

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

Mechatronics

Gary Baker 509.793.2114

email: garyb@bigbend.edu

The Mechatronics Certificate prepares students with the knowledge, skills, and abilities required to begin careers as technicians or entrepreneurs in electronics, robotics, internet of things (IoT), 3D manufacturing, control systems, communications, security, and many other emerging physical computing fields. It is also the prerequisite for entering advanced studies in Unmanned Aerial Systems (UAS). Students study, circuits, sensors, troubleshooting, programming, communications, data acquisition, and data collection. Mechatronics involves gaining knowledge of electronics, microcontrollers, microcomputers, Open-Source hardware and software, programming, 3D printing, and CAD design, Instead of buying expensive textbooks, students begin buying and owning their own lab composed of electronics, devices, components, test equipment, tools, and computers. Using these items they will study the theories of operation of both passive and active electronic components, servos, motors, sensors, LEDs, switches, indicators, breadboards, etc. Using their own lab equipment, they will build and program electronic systems, 3D printers, rovers, radio-controllers, quadcopters, GPS trackers, navigation systems, cloud connectivity, and mission control software. More course detail and description can be found under the individual MCT/UMS course descriptions listed below.

Related Instruction

ENGL& CMST& MATH& FAD PSYC&	101 220 119 150 100	Composition	
SOC&	101	Introduction to Sociology5	
		Degree Core	
UMS	101	Intro to Unmanned Aerial Systems 5	
MCT	101	Mechatronics I5	
MCT	102	Mechatronics II5	
MCT	103	Mechatronics III5	
MCT	120	Robotics I5	
MCT	129	Independent Project2-5	
Electives			
MCT	110	Introduction to Mechatronics	
UMS	107	Commercial Remote Pilot Certification 2 Total Credits : 47-52	

Medical Assistant

Briana Ross

509.793.2133

email: brianar@bigbend.edu

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 Program 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.

Program Outcomes

- 1. Demonstrate clear, effective communications with patients and members of the healthcare team in a variety of structured settings.
- 2. Demonstrate cultural competency when caring for patients experiencing selected health deviations.
- 3. Prioritize, organize, and complete assignments in a timely manner as directed by the delegator.
- 4. Demonstrate delegated skills and procedures.
- Deliver a sound professional attitude and demonstrate professional behavior when caring for patients and working with your delegator as well as other healthcare professional at all times.

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.

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
CMST&	220	Public Speaking	. 5
		English Composition I	
FAD	150	Industrial First Aid	. 2

MAP	119	Applied Mathematics for Workforce Programs II*3-5		
	Related instruction required for Certificate of Achievement			
+ Ca	areer l	adder course, required for AAS degree		
BUS	120 <i>or</i>	Human Relations on the Job4		
PSYC&	100	General Psychology+5		
CMST	100 <i>or</i>	Human Communications4		
CMST&	220	Public Speaking+5		
ENGL&	101 <i>or</i>	English Composition I+5		
ENGL	109	Applied Technical Writing3		
FAD	150	Industrial First Aid*2		
MAP	119	Applied Mathematics for Workforce Programs II*3-5		
		iate in Applied Science Degree		
BIM	113	The Medical Office5		
CMST&	220	Public Speaking+5		
CSS	105	Introduction to Healthcare Studies 3		
ENGL&	101	English Composition*+		
FAD	150	First Aid-(Healthcare Provider CPR)* 2		
HED HED	121 122	The Human Body and Disease I		
HED	123	The Human Body and Disease II 5 The Human Body and Disease III 5		
HED	119	Medical Terminology5		
HED	160	Pharmacology for Allied Health		
HED	239	Medical Ethics		
MA	111	Clinical Procedures I		
MA	112	Clinical Procedures II		
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			
NUTR&		Nutrition5		
PSYC&		General Psychology+5		
PSYC&		Lifespan Psychology5		
Electives	abov	/e 100 level1		
Total Credits: 90-91				
Recom	men	ded Program Electives may include:		
BIM	101	Basic Keyboarding2		
BIM	104	Intermediate Keyboarding3		
EDUC&	115	Child Development5		
SOC&	101	Intro to Sociology5		
	Certificate of Achievement			
BUS	120	Human Relations on the Job4		
	or			
PSYC&	100	General Psychology+5		

CMST	100	Human Communication4
	or	
CMST&	220	Public Speaking+5
ENGL	109	Applied Technical Writing3
	or	
ENGL&	101	English Composition I*+5
FAD	150	First Aid(Healthcare Provider CPR)*2
HED	121	The Human Body and Disease I5
HED	122	The Human Body and Disease II5
HED	123	The Human Body and Disease III5
HED	119	Medical Terminology5
HED	160	Pharmacology for Allied Health3
HED	239	Medical Ethics2
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/Aids Education1
		Total Credits: 62-66

Medical Simulation Technician

Dana Borschowa

509.793.2125

email: danab@bigbend.edu

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 Learning Outcomes

- Implement Simulation Scenarios Display proactive behavior in developing, implementing, and troubleshooting simulation equipment, scenarios, and training sessions.
- 2. Conduct Manikin Programming Establish the configuration and reliable operation of simulation manikins, servers, audio-video equipment, and programming software.

- Establish Maintenance Standards Address the functionality of simulation equipment while focusing on equipment management and error prevention.
- Promote Community Engagement Promote occupational health and safety within the community by providing customized simulation training opportunities.
- 5. Develop Interpersonal Relationships Demonstrate effective decision-making, critical thinking, and interpersonal skills that match the level of responsibility needed in order to function as a member of a team of professionals

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 (22 credits):

MATH&	141	Pre-Calculus I	ō
ENGL&	101	English Composition I	5
CMST&	220	Public Speaking5	5
		General Psychology5	
		Industrial First Aid (or current card)2	

Program Major Requirements (70 credits):

CS CS& ENGL& HED HED SIM SIM SIM SIM SIM SIM SIM SIM	170 210 104 141 235 119 160 110 120 130 140 161 212 220	Human Biology	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
SIM	221	Pediatric Simulations	
SIM	222	Clinical Focused Simulation	3
SIM	230	LMS for Simulation	
SIM	233	Simulation by Design	
SIM	295	Practicum in Community Simulation	
SIM	297	Simulation Seminar	

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.

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

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 Cred	113
MUSC 100 Intro to Music	. 5
MUSC& 105 Music Appreciation	. 5
MUSC 115 Group Piano I	. 2
MUSC 116 Group Piano II	. 2
MUSC 117 Group Piano III	. 2
MUSC 170 History of Jazz	. 5

Recommended Music Electives (10-20 Credits)

			Credits
MUSC	115	Group Piano I	2
MUSC	116	Group Piano II	2
MUSC	117	Group Piano III	2
MUSC	124	Orchestra I*	2
MUSC	134	Group Guitar	2
MUSC	215	Group Piano IV	2
MUSC	216	Group Piano V	2
MUSC	217	Group Piano VI	2
MUSC	224	Orchestra II	2

*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

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.

Program Learning Outcomes

- 1. Communicate effectively to deliver relevant, accurate and complete information to patients, families, and the healthcare team. (C)
- 2. Deliver safe and effective physical, psychosocial, cultural, and spiritual care to the whole person in a variety of settings. (POC.1)
- 3. Plan, initiate, and evaluate patient teaching including assessment of current knowledge, use of appropriate materials and techniques. (POC.2)
- Demonstrate clinical decision-making from a theoretical knowledge base utilizing the nursing process to develop patient care plans that ensure safe, effective care in a variety of settings. (MOC)
- Assume responsibility and accountability in the practice of registered nursing as defined by the professional standards and codes of nursing. (P.1)
- 6. Participate as a member of the healthcare team for educational and institutional growth. (P.2).

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).

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*

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

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

Level I ADN Program

Fall

		raii	
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	
NUR	137	Nursing Skills Laboratory	1
PSYC&	100	General Psychology*	5
		Total Nursing Credits	
		Total Corequisite Credits	. 15

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

NUR NUR NUR PSYC&	210 211 235 200	Advanced Nursing Concepts I
	200	Winter
NUR	220	Advanced Nursing Concepts II5
NUR	221	Advanced Nursing Practicum II5
NUR	236	Nursing Skills Laboratory 1
CMST&	220	Public Speaking *5
		Spring
NUR	230	Advanced Nursing Concepts III5
NUR	231	Advanced Nursing Practicum III4
NUR	240	Professional Issues1
MATH	1xx	Math Course greater than 100†*5
		Total Nursing Credits32
		Total Corequisite Credits15
+ 0		

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

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

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 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.

Recomm	Credits		
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		World Religions	

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

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

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.

Since programs differ at each college, students who intend to transfer should consult program outlines pub-lished 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.

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.

Recomm	ende	ed 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: jodyq@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 baccalaureate institutions. Students interested in the study of political science should visit with a member of the department to determine a major pathway.

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	า 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

Simulation Technology

(see Medical Simulation Technician - pg. 69-70)

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 institution.

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.

Recomm PSYC&		ed Pre-Major Courses General Psychology	Credits 5
SOC&		Intro to Sociology	
SOC&	201	Social Problems	5
SOC	220	Marriage and the Family	5
Recomm	nende	ed General Education Courses	Credits
CJ&	101	Intro Criminal Justice	5
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	. 5

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
		Social Problems	
SOC	220	Marriage and the Family	5
SOCW	110	Introduction to Social Work	5

Related General Education Courses

ENGL&	101	English Composition 15
ENGL&	235	TEchnical Writing5
HIST&	136	US History 15
HIST&	137	US History 25
HUM	214	Diversity Issues: Culture and Literature . 5
POLS&	202	American Government5
PSYC&	200	Lifespan Psychology5

Unmanned Aerial Systems Technical Management (AAS)

Byron Noel

509.793.2113

email: byronw@bigbend.edu

The UAS Technical Management Associate of Applied Science (AAS) degree prepares students with the knowledge, skills, and abilities to perform unmanned/robotic system and sensor analysis, troubleshooting, programming, data acquisition and collection, coupled

with unmanned systems operations, management, mission planning, and the analysis of remote sensing data collection and analysis using geospatial information system (GIS) tools.

Program Learning Outcomes

- 1. Identify, formulate, and solve hardware and software errors in mechatronic systems
- 2. Maintain and repair sUAS systems, including vehicles, sensors and controls
- 3. Apply modeling, simulation, and computing tools in the design data management procedures
- 4. Recognize and debate legal and ethical boundaries associated with use of sUAS
- 5. Communicate effectively in a technical setting
- 6. Determine environmental constraints and safety issues for various UMS operations
- Design beyond line of sight (BLOS) UAS operations in support of data collection
- 8. Critically analyze, evaluate and create geospatial information system (GIS) data, maps and reports

Related Instruction

ENGL& 101 Composition I	
CMST& 220 Public Speaking	
MATH& 141 Pre-Calculus I	
PSYC& 100 General Psychology	5
or	
SOC& 101 Introduction to Sociology	
FAD 150 Industrial First Aid and CPR	2
Degree Core:	
CS& 131 Programming C++	5
GIS 110 Geographical Info Systems I	
GIS 210 Geographical Info Systems II	
GIS 220 Remote Sensing	
MCT 101 Mechatronics I	
MCT 102 Mechatronics II	
MCT 103 Mechatronics III	5
MCT 120 Robotics I	5
MCT 129 Independent Project2	
MCT 220 Robotics II	5
UMS 101 Intro to Unmanned Systems	5
UMS 220 Beyond Line of Sight (BLOS)	
Operations	
PHYS& 110 Physics for Non-Science Majors	5
or	
PHYS& 114 General Physics I	5
Electives	
MCT 110 Intro to Mechatronic Applications	3
UMS 107 Commercial Remote Pilot Certification	
UMS 112 UAS Ground School I	
UMS 142 UAS Flight Lab	
UMS 210 UAS Laws and Policies	

UMS	226	UAS Remote Sensing Systems	s 5		
UMS	229	Independent Project	2-5		
Advisor Approved Flectives					

TOTAL CREDITS: 90

Unmanned Aerial Systems (UAS) Certificate of Accomplishment

This certificate program is geared toward those taking other classes, who are involved in other programs, or those who are currently working and want to add UAS to their skill set. The certificate will prepare students with the knowledge, skill, and understanding required to performs basic commercial aerial unmanned operations.

Certificate Core: 28 Credits

UMS UMS	UAS Ground School I UAS Remote Sensing Systems .	
UMS UMS	UAS Mission Planning UAS Laws and Policies	
UMS UMS	UAS Flight Lab Part 107 Commercial UAS Remo	ote

Welding

Clint Gilbert 509.793.2268 Shawn McDaniel 509.793.2262

email: wld@bigbend.edu

Program Learning Outcomes

- 1. Graduates of the program demonstrate safe shop practice by safely using basic tools and equipment.
- 2. Graduates of the program demonstrate competent cutting procedures, correct operation of equipment, and produce welds in accordance with AWS D1.1 D1.2 D1.6 API 1104 ASME sec IX.
- 3. Graduates of the program apply a variety of welding techniques competently and consistently per industry standard.
- 4. Graduates of the program display knowledge of welding theory.
- 5. Diagnose and cure common welding defects.
- 6. Tack, production weld, and finish as required for assigned activities.
- 7. Develop consistent safe work habits per industry standard.

Associate in Applied Science Professional Technical Program (90 credits minimum)

The Welding Technology program is designed for persons to acquire the technical knowledge and skills required to obtain a career in welding, fabrication, and related occupations.

Graduates may qualify for positions in industries such as machinery fabrication, structural fabrication, pipe fabrication, plant maintenance, and trade occupations which require welding skills. Students who complete the first year of the program will gain sufficient training to obtain entry-level employment. The second year of the program will focus on advanced skills in welding applications in specialty areas.

Persons who complete the two-year program of study may earn the Associate in Applied Science degree in Welding Technology with an emphasis in structural welding, industrial production welding or pipe welding. The one-year welding certificate of achievement is available for students who do not wish to complete a two-year degree. Local employers indicate that there are jobs available for students who complete either the certificate or the AAS degree. Interested students must work out their individual programs with a department advisor.

This program has been designed to allow students to enroll at the beginning of each quarter. Students entering the program will progress sequentially through the lab classes; lecture classes are offered during scheduled quarters only.

Related instruction required for an 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	101	Applied Mathematics (AUT/WLD)	
WLD	110	Welding Theory I	5
WLD	111	Welding Process I*	6
WLD	112	Thermal Cutting and Welding*	3
WLD	151	Technical Drawings Interpretation	3
WLD	120	Welding Theory II	
WLD	121	Welding Process II	6
WLD	122	Gas Metal Arc Welding I	3
WLD	152	Welding Layout I	3
WLD	130	Welding Theory III	
WLD	131	Welding Process III	6
WLD	132	Gas Tungsten Arc Welding I (TIG)	3
WLD	153	Welding Layout II	3

Structural Welding Option WLD 205 Weld Test Methods......4 WLD 206 Welding Codes and Standards 4 WLD 207 Welding Metallurgy......4 WLD WLD WLD 244 Submerged Arc Welding 3 WLD WLD **Production Welding Option** WLD 205 Weld Test Methods......4 WLD 206 Welding Codes and Standards 4 207 Welding Metallurgy......4 WLD WLD WLD WLD WLD WLD WLD **Pipe Welding Option** WLD 205 Weld Test Methods......4 206 Welding Codes and Standards 4 WLD WLD 207 Welding Metallurgy......4 WLD WLD WLD 282 Gas Tungsten Arc Welding II (TIG) 3 WLD WLD 284 Gas Tungsten Arc Welding III (TIG) 3 WLD **Program Elective** Students must meet with their faculty advisor before enrolling in Work-Based Learning WLD 190 Skills Improvement......1-6 290 Skills Improvement......1-6 WLD WLD 295 Work-Based Learning......1-4 297 Work-Based Learning Seminar......1 WLD *CTE Dual Credit available Note: Skill level improvement classes are not required, but may be needed to achieve desired skill levels. See

Certificate of Achievement

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 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
*CTE Dual Credit available			

**Related instruction course

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.

WLD	110	Welding Theory I	5
WLD	111	Welding Process I*	6
WLD	112	Thermal Cutting and Weldng*	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
*CT	F Dual	Credit available	

*CTE Dual Credit available

the program advisor.

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.

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 015 Accelerated Learning Support

DVS 015 is designed to provide additional instruction and support for basic skills students in I-BEST or other college-level accelerated math and English classes. The course provides a review of core concepts and vocabulary introduced in the related college-level math and/or English courses and students engage in activities to help strengthen basic math and/or English skills. Prerequisite: Students must be concurrently enrolled in I-BEST or other college-level accelerated math and/or English classes

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)

DVS 090 Transition to College

This Transition to College course is designed to assist advanced ESL/ABE students in developing skills to transition into an academic or vocational program. Students will receive an orientation to the college culture and its services. Students will concentrate on the academic English speaking, reading, writing, presentation and the basic computer skills needed for a successful transition into a credit bearing college program. Prerequisite: CASAS Reading Level 230 and above

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 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

(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 Sustainability 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 fire fighting 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 5 (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 5 (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 5 (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 5 (44/22)

Working from a live model, the student explores a range of drawing approaches including gestural drawings, sustained renderings, structural drawings and expressive treatment of the figure. Exercises are performed which emphasize anatomical structure and focus on fragments, such as hand studies and portraiture. The development of a personal approach to drawing the figure and an examination of how the figure can be handled in art is explored through such means as critiques, slide presentations and demonstrations Prerequisites: none. Drawing I or II recommended. 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

I-5 (Arr/Arr)

Special projects in art - individual projects by special arrangement with instructor. Prerequisite: instructor permission HP

ART 212 American Art 5

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)

(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 Pollock. HU

ART 221 Watercolor I 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

5 (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

(44/22)

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

5 (55/0)

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

2 (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 (11/22)

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

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, while instilling interpersonal and employability skills. There will be a heavy focus on customer service and quality control. Prerequisite/Corequisite: AUT 115/AUT 190

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, while instilling interpersonal and employability skills. There will be a heavy focus on customer service and

quality control. Prerequisite/Corequisite: AUT 115 /AUT 190

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, while instilling interpersonal and employability skills. There will be a heavy focus on customer service and quality control. Prerequisite/Corequisite: AUT 115 /AUT 190

AUT 125 Suspension, Steering and Alignment 9 (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 190

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 trouble-shooting 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 190

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/Corequisite: AUT 115 /AUT 190

AUT 190 Skills Laboratory I 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 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 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 - All First Year Certificate Auto Courses

AUT 212 Automatic Transmission Repair

9 (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: All First Year Certificate Auto Courses plus AUT 132

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: All First Year Certificate Auto Courses

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: All First Year Certificate Auto Courses

AUT 290 Skills Laboratory II 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 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 second year automotive program classes

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 Chief Pilot approval.

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 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

(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

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. 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, 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:

- 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, trouble-shooting, 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 instruction 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

Avionics

AVIO 100 Aircraft Electrical Fundamentals 8 (55/66) Fundamentals, troubleshooting, and experiments of aircraft electrical circuits; safety practices; electrostatic devices; metric notation; voltage, current, resistors and measurements, switches, fuses, and circuit breakers; tools for troubleshooting, including multimeters and oscilloscopes; magnetism and electromagnetic principles and calculations; relays and meters; Ohm's and Kirchhoff's

Laws; circuits; electrical generators, inductors, filters, and capacitors; resistance and reactance; transformers; batteries; motors.

AVIO& 102 Aircraft Electronic Fundamentals 8 (55/66) Fundamentals, troubleshooting, and experiments with fundamental aircraft electronics; diodes; power supplies; rectifiers; voltage regulators; transistors; amplifiers; oscillators and multivibrator circuits; latches and flip-flops; transmitters; synchro systems; gyroscopes.Prerequisite: AVIO101 or AMT149

AVIO& 103 Aircraft Wiring Systems 2 (11/22) Fundamentals, troubleshooting, and repair of aircraft wiring, including acceptable standards for visual, electrical, and mechanical quality.Prerequisite: AVIO 101 or AMT 149

Biological Sciences

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: cell chemistry and biological molecules, prokaryotic and eukaryotic cells, membrane transport, energetics and cell metabolism, cell communication, DNA replication, gene expression, and gene regulation, cell division, 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 on a college transcript within the last 3 years, 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 on a college transcript within the last 3 years, 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 (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, and will be required for entry into BIOL& 222 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: cell chemistry and biological molecules, prokaryotic and eukaryotic cells, membrane transport, energetics and cell metabolism, cell communication, replication, gene expression, and gene regulation, cell division, 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 must satisfy the prerequisites for BIOL&211. See BBCC Catalog for BIOL&211 prerequisites. 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 on a college transcript within the last 5 years
- a score of 4 or better in Advanced Placement Biology plus a year of high school Anatomy & Physiology and Chemistry within the last 2 years with a grade of B or better with instructor permission LS

BIOL& 242 Human A & P 2 5 (33/44)

The second quarter of a two-quarter sequence which includes the structure, function and pathology of the cardiovascular, 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 exploring these systems using the Visible Body program, a synthetic cadaver, human autopsy slides and experimental procedures in cardiovascular and respiratory function as well as 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

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 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 (0/44)

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

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 1 (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 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

BIM 103 The Administrative Professional

2 (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 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 BIM10 and BIM108.

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 113 The Medical Office 5 (44/22)

The course will cover the basic job skills and requirements needed to work in a medical office, making appointments, and referrals, HIPAA laws, retrieving billing and coding information, handling patient concerns and questions, proper telephone and collection techniques, managing health records and patient requirements for medical business office personnel. Additional topics include: the general flow of information, the role that computers play in a medical office, and how to use medical office software for activities such as enter-

ing data, billing, filing claims, scheduling, and printing reports. Prerequisite: HED 119 or instructor permission and basic computer knowledge.

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 113 (Formerly: BIM 107 & BIM 111).

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. CTE Dual 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 1-3 (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 Man-

agement 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 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 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 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 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 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

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 provid-

ing 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. LS

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 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 3 (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 interper-

sonal 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. HU

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 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 3 (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. 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.

CS 111 Intro to Programing 5 (22/66)

An introductory computer programming course. Students learn to write and debug simple text based programs while exploring the fundamental principles of programming. Topics for study include input / output, statements, expressions, operations, variables, data types, control structures, program modularization, basic data structures and file input and output. 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.

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. 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. 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 1-4 (0/0/33-132)

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

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 5 (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

5 (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 5 (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 5 (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. Prerequisites: CS 132 or CS 142, or instructor permission

CS 251 Programming with C# 5 (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 5 (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 5 (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 262

CS 270 Web Architecture and Client Services 5 (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 developers 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 5 (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 5 (55/0)

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 Seminar II 1 (11/0)

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 5 (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 5 (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

CJ 198 Special Topics 1-2 (11-22/0)

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 5 (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 5 (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

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

(55/0)

CJ 215 Criminal Investigations 5 (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 5 (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

1 (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

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& 134 Family Childcare Management 3 (33/0)Learn how to manage a family childcare program. Topics include: licensing requirements, record-keeping, relationship building, communication strategies, guiding behavior, and promoting growth and development.Prerequisite: linstructor permission

ECED& 138 Home Visiting & Family Engagement 3 (33/0

Plan and provide home visits and group activities that promote secure parent-child relationships and support families to provide high-quality early learning experiences that are embedded in everyday routines and experiences.Prerequisite: linstructor permission

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 (33/0)
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 3 (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 2 (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& 136 School Age Care 3 (33/0)

Develop skills to provide developmentally appropriate and culturally relevant activities and care for children ages 5-12 in a variety of settings. Includes implementing curriculum, preparing environments, building relationships, guiding cognitive and social emotional development as well as community outreach. Prerequiste: Instructor Permission

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 (11/66)

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& 202 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 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 Speical Topics 0-5 (2-55/0)

Covers current issues in the education field. Maybe repeated for credit with advisor's approval. Prerequisite: Instructor Permission

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 5 (55/0)

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 permission

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 5 (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 5 (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

0

Allows non-BBCC student to access tutors in the English Lab.

ENGL 065 Spelling Improvement 2 (11/22)

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.

ENGL 087 Reading Improvement 3 (11/44)

Reading improvement for adults with emphasis on increasing vocabulary and comprehension to college level. Prerequisite: Placement exam

ENGL 093 Basic Writing 3 (11/44)

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 3 (11/

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 5 (55/0)

English 098 Basic English Skills provides instruction in basic writing skills, particularly sentence patterns and paragraph development. The course also introduces students to concepts of grammar, mechanics, punctuation, spelling, word usage, vocabulary development, reading comprehension, and reading fluency. See course notes: some sections of this course require co-enrollment in additional classes as part of a learning community Prerequisite: Placement exam

ENGL 099 English Skills 5 (55/0)

This course includes a step-by-step review of grammatical relationships, sentence patterns, punctuation and usage with concentration on the writing of expository paragraphs and essays. Student writing will primarily be generated from the critical reading of texts taken from across the disciplines. A grade of 2.0 is required to move into ENGL & 101. See course notes: some sections of this course require co-enrollment in additional classes as part of a learning community. Prerequisite: Successful completion of English 098 or direct placement through the English Placement Test.

ENGL& 101 English Composition I 5 (55/0)

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 2.0 in English 099 BS

ENGL& 102 Composition II 5 (55/0)

This advanced composition course provides instruction in academic writing through literary analysis and increases students' exposure to literature. Prerequisite: ENGL&101. BS/HU

ENGL 105 The Moral of the Story 5 (55/0)

This course examines different ways that we can find meaning and value in the stories that surround us. We will use our own values and experiences, as well as other perspectives, to gain a better understanding of cultural artifacts such as movies, written texts, songs, comics/graphic novels, and even physical objects, such as cars or clothing. This class has no prerequisite and focuses more on ideas than writing skills. This course is not a replacement or prerequisite for required English composition courses. It is recommended for students who are exploring degree options or considering a career

ENGL 109 Applied Technical Writing 3 (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

ENGL 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 5 (55/0)

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. BS/SE

ENGL 211 Creative Writing: Fiction 5 (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, screen-plays, and creative nonfiction. HU

ENGL 212 Creative Writing: Poetry 5 (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 5 (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 5 (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

ENGL 221 Creative Writing II: Fiction 5 (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

ENGL 234 Science Fiction as Literature 5 (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 historical and current use of science fiction to address social, cultural, and political issues, and will focus on the ways in which the genre facilitates discussion of social problems and relevant social issues. 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. BS/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 5 (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& 256 World Literature III 5 (55/0)

A survey of world literature, ranging from the industrial revolution to the present. 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 booklength 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 some of the following topics: environmental, science, and information literacy, human population growth, environmental health, ecological economics and consumption, solid waste, ecosystems and nutrient cycling, population and community ecology, evolution and extinction, biodiversity and preserving biodiversity, freshwater resources and water pollution, food resources and sustainable agriculture, coal and petroleum, air pollution and climate change, nuclear power, alternative energy sources, environmental policy, and urbanization and sustainable communities.

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.

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 French-speaking 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 Frenchspeaking 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 Spanish-speaking 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 5 (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 5 (44/22)

This course provides a study of the structure and composition of the earth's crust. Emphasis is placed on mountain building forces, weathering, natural hazards, rocks and minerals, and structural change. Upon completion, students should be able to explain the structure, composition, and formation of the earth's crust. There will be a required field trip that will take the time of a lecture and llab. Prerequisite: MATH 098 completion LS

Health Education

HED 119 Medical Terminology 5 (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.

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 5 (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)

HSC 010 Reading/Writing/Communication

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 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

SS

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 (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.

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 5 (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& 127 World Civilization II 5 (55/0)

World Civilizations II is a systematic study of the major patterns of global history in the modern period, from 1000 C.E. to 1850 C.E. This course analyzes the distinguishing characteristics of the world's major civilizations, and the gradual integration of the diverse cultures of the world into an interconnected system. Students will examine the major political, social, cultural, and economic developments, including the spread of Islam and European exploration in Africa, Asia, and the Americas. We will pay particular attention to colonialism, slavery, revolution, nationalism, globalization, democracy, and human rights. This course develops critical thinking, writing, and analytical skills by employing the same skills and methods used by historians to piece together an informed and coherent view of the past. SS

HIST& 128 World Civilization III 5 (55/0)

World Civilizations III introduces students to the history of the modern world from 1850 to the present day. Particular emphasis will be placed upon the global impacts of the industrial revolution, new ideologies such as liberalism and socialism, revolutionary movements like those in Russia and China, colonization and decolonization, legacies of WWI and WWII, the Cold War's global impact, comparative study of genocide, and the transformation of the Middle East in modern times. The course focuses on a theme of connections among world societies to give students the "big picture" of world history. SS

HIST& 136 US History 1 5 (55/0)

Covering the first half of American history, this course takes students on a journey from the European foundations for colonization in the New World to the conclusion of the American Civil War. Along the way students are exposed to the philosophic, cultural, and political underpinnings of the American story, and personalities and events which bring that story to life. SS

HIST& 137 US History 2 5 (55/0)

From the end of the Civil War to the end of the twentieth century, this course examines the development of the modern United States and its transformation from an isolationist agriculturally based society to global superpower. Along the way students are exposed to the philosophic, cultural, and political underpinnings of the American story, and personalities and events which bring that story to life.

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

HIST 210 Tudor England 5 (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 230 Ancient Near East 5 (55/0)

The course will study the growth and development of the Ancient Near East from its origin in Ancient Sumer in the bronze age to the rise of the Persians. Attention will also be given to Egypt and Israel and their contributions to the milieu of culture and society in the ancient Near East. The course will look at, in varying degrees, the culture, art, architecture, and religion of these societies.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

102 Introduction to Homeland Security **HSEM** 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 (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 (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 (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, decisionmaking, 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**

(11-55/0)

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

200 Emergency Operations Center HSEM

(22/0)

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

(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

220 Developing and Managing Volunteer **HSEM** Resources (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

230 Disaster Recovery and Response **HSEM**

(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

(33/0)

(55/0)

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 108 Gender Studies

This course introduces students to major issues, concepts, and basic tenns central to the field of Gender Studies. Throughout the quarter, we will critically engage with social, cultural and historical ideas about what it means to be female and male, how these ideas shape everyday life experiences, and what consequences this has on relationships, work, and the strncturing of a society. Emphasis will include the multiple ways that sex and gender interact with race, class, sexuality, nationality, and other social identities.HU

HUM (55/00)110 Greek Mythology

Greek Mythology is the basis for understanding Western 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 (55/0)

This cultural diversity studies course examines and investigates culture, behavior, values, identity, stereo-

person and societal perceptions, and the cultural Big Bend Community College

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.

IST 102 Technical Drawing Interpretation

(22/22)

Fundamental technical drawing, reading and sketching principles, concepts and standards as applied to industry. CTE Dual Credit available.

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

IST 106 Basic Electricity – AC Circuit Analysis

(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

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

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

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

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

IST 113 Industrial Electrical Installation Techniques

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

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

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

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.

IST 170 Introduction to Instrumentation

5 (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

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

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

IST 184 Machining-Skill Enhancement

4 (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

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

IST 208 Industrial Electricity III 5 (33/44) Electrical theory, operation and set-up of variable fre-

quency drives (VFD's), soft start devices, 4-20 ma.

control loops and grounding issues associated with electronic devices. Prerequisite: IST 207 or instructor permission

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

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

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

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 con-

trol elements. Prerequisite: IST 170, 223, or instructor permission.

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

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

IST 284 Pumping Hydraulics & Mechanics

5 (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

Industrial Manufacturing Technician (AJAC) Apprenticeship Program

MT 101 Industrial Manufacturing Safety

(55/0)

Apprentices will be oriented to the occupation and will learn about foundational safety requirements specific to manufacturing and production. Course content will include basic shop safety and CPR/First Aid. The course will introduce the concepts of working in a safe and productive manufacturing workplace, safety, and environmental assessments, emergency drills and emergency teams, unsafe conditions and corrective action,

equipment safety training, processes and procedures that support a safe work environment, safety and health requirements for maintenance, installation and repair, monitoring safe equipment and operator performance, and effective safety enhancing workplace practices. Prerequisite: Instructor Permission

MT 102 Industrial Manufacturing Basics 5 (55/0)

Apprentices will apply quality and continuous improvement practices to manufacturing and production. The course will introduce quality assurance, inspection, blueprint reading, interpreting manufacturing documents, precision measurement, and basic tools/equipment use and knowledge. Apprentices will learn the process of periodic or statistically based internal quality audit activities, check and document calibration of gauges and other data collection equipment, suggest continuous improvements, inspect materials and product/process at all stages to ensure they meet specifications, document the results of quality tests, communicate quality problems, take corrective actions to restore or maintain quality, use common measurement systems and precision measurement tools. Prerequisite: MT 101

MT 103 Industrial Manufacturing Production Processes 5 (55/0)

Apprentices will learn to identify customer needs and required resources for production. They will learn about production, communication, lean manufacturing, problem solving and front line leadership techniques. The course will introduce the set up and operation of machines including tooling and equipment. Apprentices will learn to identify customer needs, determine resources available for the production process, set up equipment for the production process, set team production goals, make job assignments, coordinate work flow with team members and other work groups, communicate production and material requirements and product specifications, perform and monitor the process to make the product, document product and process compliance with customer requirements, and prepare final product for shipping or distribution. Additionally, students will examine emerging industrial technologies and trends in green manufacturing. Prerequisite: MT 101, MT 102

MT 104 Industrial Manufacturing Machine Maintenance 5 (55/0)

Apprentices will learn the foundational principles and skills relating to machine maintenance awareness. They will learn to apply principals of welding, basic electricity, and fluid power systems to manufacturing equipment. Apprentices will examine common applications for lubricants, coolants, bearings, couplings, belt drives and chain drives. The course will apply machine control and

automation concepts to awareness of machine maintenance. Apprentices will learn how to perform preventive maintenance and routine repair, monitor indicators to ensure correct operations, perform all housekeeping to maintain production schedule, recognize potential maintenance issues with basic production systems, including knowledge of when to inform maintenance personnel about problems with electrical, pneumatic, hydraulic and other systems. Prerequisite: MT 101, MT 102, MT 103

MT 201 Industrial Manufacturing Shop Math 5 (55/0)

Application of mathematics to industrial manufacturing environment. Perform standard shop computations and conversions between measurement systems. Relevant mathematical concepts are taken from algebra, geometry, right angle trigonometry, and oblique angle trigonometry to help students apply formulas and common technical application problems. Basic math skills will be reviewed including decimals, fractions and conversions between them. This course also includes the use and application of formulas required in industry. Students will learn properties of angles and common geometric shapes and relevant trigonometric functions, and they will be introduced to graphs and statistics. Prerequisite: Instructor Permission

MT 202 Industrial Manufacturing Communications 5 (55/0)

In this course, apprentices are introduced to basic communication concepts relating to the workplace. Students will explore effective skills relating to interpersonal, intercultural, and team communications; giving clear instruction; writing and interpreting technical processes; group facilitation; mediation/negotiation; conflict resolution; and professional communication practices..Prerequisite: Instructor Permission

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

Must be enrolled in the Aviation Maintenance Technology Program. This course will cover aircraft technical math-

(22/0)

ematics 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, ratio, proportions, percents, introduction to algebra, introduction to geometry, introduction to right-angle trigonometry, and number systems in vocational program specific applications. The students will study mathematics for electricity/electronics and maintenance applications for industial facilities. The emphasis is on providing a solid mathematics base to facilitate assimilation of more complex mathematics as well as providing course work in relevant work-specific problems and situations. Prerequisite: Successful completion of DVS 080 or BBCC Math placement score of Math 094 or above or instructor permission.

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 placement in MATH 094 or above.

MAP 117 Applied Math for Workforce Programs I 1-5 (11-55/0)

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. Students cannot earn credit for both MAP 119 and Math 098. 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 0

Permits the use of the math lab computer resources by non-BBCC students during math lab hours.

MATH 090 Prealgebra 5 (55/0)

This course includes the study of basic arithmetic and pre-algebraic concepts and operations including operations with integers, fractions, decimals and percents; order of operations, measurement and simple linear equations. This course is offered as an option to students who have successfully shown sufficient progress in MATH 094 but have not completed the final exam. Prerequisite: Instructor Permission Required

MATH 094 Introduction to Algebra 5 (55/0)

This course includes the study of basic arithmetic and algebraic concepts and operations including operations with integers, fractions, decimals, percents, order of operations, measurement, the metric system, algebraic expressions, formulas and simple linear equations. Credit cannot be earned in both MAP 117 and MATH 094. (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. Students cannot earn credit for both MAP 119 and Math 098. (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. Credit cannot be earned in both MAP 121 and MATH 099.(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 5 (55/0)

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 5 (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 5 (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 5 (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 5 (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 5 (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 5 (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 5 (55/0)

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 5 (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 5 (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

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 (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

(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 (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. Corequisite: HED 160

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 or Instructor permission

SIM 221 Pediatric Scenarios (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 or Instructor permission. Corequisite: 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 or Instructor permission

SIM 230 Learning Management Systems

(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 or Instructor permission

SIM 232 SIM by Design (33/0)

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 221 and SIM 222 or Instructor permission. Corequisite: SIM 295

SIM 235 Debriefing Principles (44/0)

Briefing and debriefing practices are key to effective healthcare simulation practice. This course will prepare participants to apply essential principles of briefing and debriefing in the simulation environment. Students enrolled in this course should have experience working with medical simulation and access to medical simulation equipment. Student must pass this course with a minimum 2.0 grade in order to be applied to degree completion.

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 or Instructor permission.. Corequisite: SIM 297 and SIM 232

SIM 297 SIM Seminar (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 221 and SIM 222 or Instructor permission.. Corequisite: SIM 232 and SIM 295

Music

MUSC 100 Introduction to Music (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 (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 (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 (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 (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 (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 (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 (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

(11/22)MUSC 124, 224 Orchestra I, II

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 2 (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

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

(55/0)

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. Students can repeat this course for up to 6 credits. 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 (0/44)

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) CTE Dual Credit available.

NUR 101 Survival Skills for the Nursing Student 1 (11/0)

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 certificate

NUR 111 Fundamentals of Nursing Practicum 3 (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)

NUR 120 Beginning Nursing Concepts I

Prerequisite: NUR 114

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

(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 of patients across the lifespan, and will include experience in the inpatient mental health environment. Prerequisite: NUTR& 101 with a 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 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

l (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

(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

(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 1 (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& 200. with a 2.0 G.P.A or above

NUR 240 Professional Issues 1-4 (0-44/0-88)

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

NUR 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

NUR 276 Perioperative Nursing I 6 (22/88) 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 1 (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

NUTR& 101 Nutrition 5 (55/0)

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 5 (55/0)

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 5 (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 5 (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 5 (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

PHIL 230 East Indian Philosophy 5 (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

PHIL 240 Philosophy of Religion 5 (55/0) 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

PHIL 250 Asian Philosophy 5 (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 soft-

ball. 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)

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 135 Begining Yoga 1 (0/22)

Introductory and intermediate yoga postures will be introduced to promote balance, strength, flexibility, and joint

stability. Students will also be introduced to basic breath work and meditation practices to enhance stress relief and focus. Students will be exposed to the relationship between the mind and body and the role yoga can play in promoting lifelong health.

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:

- 1. 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 nonscience 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 a three-quarter algebra-based sequence for students pursuing degrees in biology, pre-dentistry, pre-medicine, pre-veterinary medicine, engineering technology, zoology, and other fields. This

course is also strongly recommended for students who will be taking Engineering Physics but who have not had a prior physics class. 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; 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. Prerequisites: Successful completion of MATH 099, placement in a higher-level mathematics course, or instructor permission. 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 waves, optics, thermodynamics, and may include a unit on gravitation. 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. This class brings students face-to-face with such realities while emphasizing an understanding of the nature, purpose, and practice of American politics within a global context. Topics covered include the American Constitution, the elections process, bureaucracies, the role of the media, and modern political culture in America.. SS

POLS& 202 American Government 5 (55/0)

This course focuses upon the institutions which form the national government of the United States. Students participate in activities and discussions intended to broaden their understanding of what it means to serve in government and the importance of the role government plays in the functioning of the country.

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

(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,

REL 211 Religion in America 5 (55/0)

and Islam. HU

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

An introduction to and survey of the natural sciences of astronomy, biology, chemistry, geology, and physics. NS

SCI 104 Math for Science and Engineering

(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

SOCW 110 Introduction to Social Work 5 (55/0)

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 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

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

(33/0)

UMS 101 Introduction to Unmanned Systems (UMS) 5 (44/22)

This course will introduce students to the world of unmanned systems, including air, ground, maritime, and space-based platforms. Unmanned systems interoperability, propulsion, communications, sensors, and autonomous systems will be addressed, along with various types of unmanned system simulator operations

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 Lab6 (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. Prerequi-

site: 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 and other 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*

3 (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

3 (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. CTE Dual 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 developments. 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

An introduction to metallurgy. Ferrous and nonterrous 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

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 instructor permission

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 application of Shielded Metal and Flux Cored Arc Welding processes on tubular structural weldments in accordance with drawings. Prerequisite: WLD 243 and WLD 152 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

(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)*

(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.)*

(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

3-6 (0/33-132)

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 1-6 (0/0/33-198)

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 Work Based 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. Corequisite: WLD 295

WABO TESTING

0

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)
Brendan Abonyi (2016) Custodial Services Supervisor B.S., University of Ife, Nigeria; M.S., Washington State	B.A., University of Southern California; B.S.N., University of New York; M.S.N./Ed, University of Phoenix
University Lora Lyn Allen (2005)	Steve Close (2004) English A.A., Contra Costa Community College; B.A., San Francisco State University; M.A., Ph.D., University of
Services/Student Advisor B.A., Washington State University	Oregon Post Coffin (2006)
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	Michael De Hoog (2001)
A.A.S., Big Bend Community College; B.A., B.S., Washington State University	Anita De Leon (1999)TRiO Upward Bound Director B.A., M.S.W., University of Washington
William Autry (1995) Industrial Systems Technology A.A.A., Wenatchee Valley College; WA State Certified (07) Industrial Floatricians CIMM (Contified Industrial	Jennifer de Leon (2007)Activity Coordinator/
(07) Industrial Electrician; CIMM (Certified Industrial Maintenance Mechanic-ISA); CIRO (Certified Industrial Refrigeration Operator-RETA)	Advising Specialist B.A., B.Ed., Central Washington University
Joe Auvil (2015)Director of Purchasing A.A., Spokane Community College; B.B.A., Gonzaga University	Kathleen Duvall (2005)Dean of Arts & Sciences A.S., Yuba College; B.S., University of California at Davis; M.S., Brigham Young University
James Ayers, Jr. (2013) Industrial Systems Technology WA State Certified (01) Master Electrician	Ryan Duvall (2016)Business Information Management A.A., Big Bend Community College; B.S. Brigham Young University Idaho
Gary Baker (2016)Mechatronics/Engineering Specialist B.S., University of Washington	Michael Dzbenski (2015)Music B.A., George Mason University; M.M.E., Texas Tech University
Faviola Barbosa (2017)Dean of Transitional Studies B.A., Washington State University; M.S., Nova Southeastern University	Dawnne Ernette (2015)Developmental English B.A., M.A.Ed., University of Nevada-Reno
Sarah Bauer (2016)Chemistry B.S., Central Washington University; M.S., Montana State University	Jasmine Evangelista-Martinez (2018)TRiO Student Support Services Academic Advisor A.A., Big Bend Community College; B.S., Central
Daneen Berry-Guerin (2005) Dean of Workforce Education A.A., Spokane Community College; B.A., Eastern	Washington University Kyle Foreman (2012) Director of Campus Safety & Security
Washington University; M.B.A., American Intercontinental University	FEMA Emergency Management Professional Development Certificate; FEMA All Hazards Public Information Officer;
Erik Borg (2000)Aviation Maintenance Technology A.A.S., Big Bend Community College; B.S., Central	WA State Certified Incident Command System/National Incident Management System Instructor
Washington University; FAA certificates include Commercial Pilot, Airplane Single and Multi-Engine Land, A&P Mechanic, Inspection Authorization, Designated	Tim Fuhrman (1998)Director of Library Resources A.A.S., Big Bend Community College; B.A., Central Washington University; M.A., University of Arizona
Maintenance Examiner Jody Bortz (2013)Career Services Coordinator	Michael Garoutte (2017)Recruitment Coordinator & Head Softball Coach
B.A., B.A.Ed., Central Washington University	B.S., M.S., Central Washington University

Angela Garza (2016)Assistant Director of Business Services A.A., Big Bend Community College; B.A., University of	Carina Hernandez (2017)TRiO Student Support Services Academic Advisor B.A., Washington State University
Phoenix	Jose Hernandez (2016)Financial Aid Advisor
Guillermo Garza (2007) Commercial Driver's License Class A CDL License; Endorsements P1, T, N; Instructor	B.A., Washington State University
Certifications Jaime Garza (2015)Counselor	David Holliway (2011)Psychology/Sociology B.A., M.A., University of New Mexico; Ph.D., University of Washington
B.A., Central Washington University; M.Ed., Heritage University	Bryce Humpherys (2016) Vice President for Learning &
Kim Garza (2012)Vice President of Human Resources & Labor	Student Success B.A., M.S., Utah State University; Ed.D., Washington State University
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)	Matthew Killebrew (2016)Director of Communications B.S., Austin Peay State University
John Gillespie (1995)Aviation/Commercial Pilot A.A., A.A.S., Big Bend Community College; B.A.,	Dennis Knepp (2000)Philosophy B.A., Wichita State University; M.A., Ph.D., Washington University in St. Louis
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 & Director of Japanese Agricultural Training Program
Instrument/Ground Instructor, Advanced Instrument	A.A., Walla Walla Community College; B.S., University of Idaho
David Gillett (2015)	Jameson Lange (2013)Assistant Activity Center Coordinator/Head Baseball Coach
Governors University	Beth Laszlo (2012)Director for the Center for
Mercedes Gonzalez-Aller (2009)Nursing B.S.N., University of New Mexico; M.N., Whitworth	Business & Industry Services B.A., M.Ed., Central Washington University
University	Terrence Leas (2012)President
Lindsay Groce (2013)Chemistry B.A, B.A., M.S., Central Washington University	B.S., Ph.D., Florida State University; M.Ed., Valdosta State College
Veronica Guadarrama (2017)STEM Center-Emporium Lab Coordinator	Angela Leavitt (2001)Foreign Language A.A., Big Bend Community College; B.S., Brigham Young
B.A., Central Washington University; M.A., The University of Arizona	University; B.A., M.A., Washington State University
Wade Guidry (2016)Library Consortium Services B.A., Rice University	Ryann Leonard (2005)Psychology/Criminal Justice B.A., Western Washington University; M.S., Ph.D., Florida International University
James Hamm (1993)Physics/Science B.S., Eastern Washington University; Ph.D., University of Minnesota	Aaron Linthicum (2015)Aviation/Commercial Pilot A.A.S., Big Bend Community College; B.A., Liberty University; FAA certificates include Airplane Single and Multi-Engine Land; Commercial Privileges, Instrument
Brinn Harberts (2015)Math B.A., M.S., Eastern Washington University	Airplane/Flight Instructor, Airplane Single and Multi-Engine Instrument/Ground Instructor, Advanced

John Martin (2014)Automotive Technology ASE Master Automobile Technician, Service Consultant, Advanced Level Specialist; Toyota Certifications; State of Washington Career and Technical Education Initial Teacher	Terry Pyle (2011)Agriculture/Economics B.S., Brigham Young University; M.B.A., Pacific Lutheran University
Endorsements Automotive Technology, Worksite Learning Coordinator	Jody Quitadamo (2016)History/Political Science B.A., M.A., Central Washington University
Shawn McDaniel (2004)	Rita Ramirez (2013)Director of Financial Aid B.A., University of Washington; M.P.A., Eastern Washington University
Monica Medrano (2013) Workforce Education Services Coordinator	Jennifer Reames-Zilliox (2006)Nursing B.S.N., University of South Australia; M.C.Ed., Flinders University
B.A., B.S., Central Washington University; M.S., Western Governors 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
Accountant Dan Moore (1992)Aviation Maintenance Technology	Business Services A.A., Big Bend Community College; B.A., University of San Diego; M.Ed., Capella University
FAA certificates include Airframe and Powerplant, Inspection Authorization, Designated Mechanic Examiner, Private Pilot	Briana Ross (2017)
Jenny Nighswonger (2004) Early Childhood Education Specialist/Curriculum Development Specialist	A.A.S., Big Bend Community College; B.S., Kaplan University
B.A., Eastern Washington University; M.A., Grand Canyon University	Trudie Roy (2015)Professional Studies Lab Coordinator B.S., Central Washington University
Zach Olson (2017)Developmental English B.F.A., M.A., Bemidji State University	Roy Salcedo (2017) Director of Title V HIS PAHP Grant B.A., B.L.S., Iowa State University of Science and Technology
Rie Palkovic (1998)Art B.A., California State University; M.F.A., New Mexico State University	James Sauceda (2013) Director of Facilities and Capital Projects
Allison Palumbo (2016) English B.A., Weber State University; M.A., Florida State	A.A.S., Big Bend Community College; B.S.M.E., M.S.M.E., Washington State University
University; Ph.D., University of Kentucky	Linda Schoonmaker (2015)Vice President for Finance & Administration
LeAnne Parton (2011)Director of Development/Executive Director of the BBCC Foundation	B.S., University of North Carolina at Pembroke; M.B.A., University of Washington; Certified Public Accountant
A.A., Big Bend Community College; B.A., Eastern Washington University	Kenneth Schrag (2014)Operations Coordinator for the Japanese Agricultural Training Program
Valerie Parton (1993)Dean of Institutional Research and Planning	A.A., Big Bend Community College; A.A.S., Seattle Central Community College; B.A., University of Washington
B.A., Eastern Washington University; M.Ed., Heritage University	Kate Shuttleworth (1999)Writing Center Coordinator B.A., San Francisco State University
Mark Poth (1987)Interim Athletic Director B.S., Brigham Young University; M.A., University of Hawaii	Rick Sparks (2014) Director of Information Technology B.S., Colorado Christian University; M.S., Regis University
Elsa Pruneda (2014) TRiO Upward Bound Academic Advisor	Tiffany Sukola (2018)Communications Coordinator
A.A.S., Big Bend Community College; B.A., Heritage University	B.A., Eastern Oregon University
Vanessa Pruneda (2018)Outreach Coordinator A.A., Big Bend Community College; B.A., Eastern	Libby Sullivan (2013)Librarian B.S., Skidmore College; M.L.I.S., Simmons College
Washington University	Matthew Sullivan (2003) English B.A., University of San Francisco; M.F.A., University of Idaho

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
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)
Zach Welhouse (2013)eLearning Coordinator B.A., Cornell College; M.A., Kansas State University; M.L.I.S., University of Washington
Deena Westerman (2008)Event & Conference
Representative A.A.S., Big Bend Community College; B.A., University of Washington
Shellie Whittaker (2014)Library Consortium
Services Coordinator A.A., A.A.S., Peninsula College
Barbara Whitney (1990)Math A.A., Keystone Junior College; B.S., Bloomsburg University; M.Ed., University of Delaware
Mariah Whitney (2003)Biology A.A., Big Bend Community College; B.S., Washington State University; M.S., Central Washington University
Preston Wilks (1996)Accounting and Business/
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

	ingham (2004) kman (2001)	•	STEM) ard Bound Aca	Grant)
A.A., Lov Universi	wer Columbia Co ty	llege; B.A., V	Vashington Stat	te
Automot Institute Washing Teaching	Wynder (2009) ive Service Tech of Technology; E ton University; V g Certificate; Albe al Journeyman; A	nology Diplo Block Compe Vashington C erta Journeyı	oma, Southern A etency, Central Career/Technica man; Canada In	Alberta I
	ita Zavala-Lopez iversity of Washi ty	` '		

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)	. President Dean . Professor . Professor . Professor Dean . 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)	Trustee	Emeritus
Patricia Nobach (1985-2005)	Faculty	Emeritus
Joe Rogers (1970-2005)	Faculty	Emeritus
Linda Wrynn (1981-2006)		
Anita Hughes (1985-2007)		
Pat Palmerton (1978 to 2007)		
Ken Turner (1980 - 2008) Vice		
Kathy Tracy Mason (1989 - 2008)	-	
Maryanne Allard (1975 - 2008) Athle	tic Director	Emeritus

Steve Matern (1980 - 2009)	
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)	
Patricia Teitzel (1989-2011)	
Eugene "Gene" Donat (1975-20	-
Katherine Kenison (1999-2011)	
Holly Moos (1973-2012)	
William C. Bonaudi (1995-2012)	
Marsha Asay (1983-2013)	
Lance Wyman (1983-2013)	
Mike O'Konek (1985-2013)	_
Max Heinzmann (1981-2014)	
John Swedburg (1982-2014)	
Marsha Nelson (1973-1975, 19	
1995-2015)	
•	•
Mike Blakely (2004-2014) Gail Erickson (1983-2014)	
Pat Patterson (1992-2015)	
Mary Shannon (1993-2015)	
Gail Hamburg (1999 - 2015)	
Kathy Arita (1999-2015)	
Doug Sly (1985-2016)	
Candis Lacher (1989-2016)	
John Carpenter (1994-2016)	
David Hammond (2001-2017)	
Stephen Lane (1987-2017)	
John Peterson (2002-2017)	Faculty Emeritus
Terry Kinzel-Troutman (1999-20	,
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 offers workforce education programs in agriculture, automotive technology, aviation, aviation maintenance technology, business accounting and finance, business information management, commercial driver's license, computer science, criminal justice, early childhood education, industrial electrical technology, maintenance mechanics technology, medical assistant, medical simulation, nursing, unmanned aerial systems, and welding technology.

Big Bend Community College provides equal opportunity in education and employment and does not discriminate against anyone on the basis of race, sex, sexual orientation, gender identity/expression, religion, age, color, creed, national or ethnic origin, the presence of any physical, mental, or sensory disability, use of a trained guide dog or service animal by a person with a 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, or any other legally protected status.

The college is committed to preventing and stopping discrimination, including harassment of any kind and any associated retaliatory behavior. The following persons have been designated to handle inquiries regarding the non-discrimination policies:

Kimberly A. Garza VP of Human Resources EO/Title IX Coordinator 7662 Chanute Street NE Building 1400, Office 1449 Moses Lake, WA 98837 (509) 793-2010 TDD (509) 762-6335

To receive this information in an alternative format, please contact Disability Support Services

Lora Allen Disability Services Coordinator 7662 Chanute Street NE Building 1400, Office 1473 Moses Lake, WA 98837 (509) 793-2027

Big Bend Community College will take steps to assure that the lack of English language skills will not be a barrier to admission and participation in all educational and vocational education programs.

Affirmative Action and Diversity Statement

Big Bend Community College is an equal employment opportunity and affirmative action employer. Applicants with multicultural experience and/or backgrounds which will add cultural richness and diversity to Big Bend Community College as well as protected groups are encouraged to apply.

Big Bend Community College District 18 provides equal opportunity in education and employment and does not discriminate against anyone on the basis of race, sex, sexual orientation, gender identity/expression, religion, age, color, creed, national or ethnic origin, the presence of any physical, mental, or sensory disability, use of a trained guide dog or service animal by a person with a 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, or any other legally protected status.

BBCC provides reasonable accommodations for qualified students, employees, and applicants with disabilities in accordance with the Americans with Disabilities Act and Section 504 of the Federal Rehabilitation Act of 1973.

Big Bend Community College encourages persons with disabilities to participate in its programs and activities. If you anticipate needing any type of accommodation or have questions about the physical access provided, please contact the individuals noted below as soon as possible to allow sufficient time to make arrangements.

The following persons have been designated to handle inquiries regarding non-discrimination policies and requests for accommodations:

Kimberly A. Garza VP of Human Resources EO/Title IX Coordinator 7662 Chanute Street NE Building 1400, Office 1449 Moses Lake, WA 98837 (509) 793-2010 TDD (509) 762-6335

To receive this information in an alternative format, please contact Disability Support Services

Lora Allen Disability Services Coordinator 7662 Chanute Street NE Building 1400, Office 1473 Moses Lake, WA 98837 (509) 793-2027

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.

Index

Α	
Academic Amnesty	18
Academic Information	
Accounting	37-39, 81
Accreditation	
Admission Checklist	
Admissions	
Advanced Placement Exam/CLEP	31, 62-63
Advising/Counseling	8 10-11
Agriculture	39-40 83-84
Affirmative Action and Diversity Statement	140
Aircraft Rescue & Fire Fighting	84
Anthropology	40, 84
Applied Science Degree Requirements	30
Art	41, 84-86
Arts & Science Degree Requirements	
Astronomy	86
Athletics/Activities/Clubs	
Auditing a Course	
Automotive Technology	41-43, 86-88
Aviation (Commercial Pilot/Flight)* *VA IHL FLight Program	43-43, 00-90
Aviation Maintenance Technology	45 45_47_00_01
Aviation Maintenance recrinology	45-47, 90-91
В	
Baccalaureate Opportunities	32
Basic & Breadth Requirements	24-25
BBCC History	2
Biological Sciences	47-48. 91-93
Board Ends Statements	
Board of Trustees	
Bookstore	
Botany	93
Business	
Business Administration	
Business DTA/MRP Degree Requirements Business Information Management	20-28
Dusiness information Management	49-01, 94-90
С	
Calendar	3
Career Planning Services	10
Center for Business & Industry Services	
Certificate of Accomplishment Requirements	
Certificate of Achievement Requirements	
Chemistry	51-52, 96
Childcare Learning Center	
Citizenship Classes	32
College Success Skills	96-97
College-University Transfer Programs	
Commercial Driver's License	52, 97
Communications	
Composites	
Computer Science	
Confidentiality of Student Records	22
Counseling/Advising	
Course Descriptions	81-135
Course Numbering System	19
Course Repeat Policy	19
Credit by Examination	19
Credits & Credit Load	20
Criminal Justice	56-57, 101-103

D	
Degrees & Certificates	23-31
Degrees General Requirements	23
Disability Services	11
Disclaimer Statement	
Discrimination/Sexual Harassment	
Dismissal (Academic)	23
Distance Education/Ónline Classes	35
Dropping a Class	
Drug & Alcohol Abuse Prevention	11-13
Dual-Credit Program (Tech-Prep)	32 34
Dual-Credit i Tograffi (Teori-i Tep)	55-54
_	
E	
Early Childhood Education57-5	
Economics	59-60, 103
Education	103-104
Educational Programs	
Electrical (Industrial)	
Emeritus List	10, 110-117
Employment (Student)	14
Engineering6	0, 104-105
English6	1, 105-108
English as a Second Language	32
Environmental Science	
Equal Opportunity Statement	
Equal Opportunity Statement	141
F	
Faculty & Administrators	1135-138
Financial Aid	
First Aid/EMT	108
Foreign Languages61-6	
	_,
G	
GED Preparation/Testing	16 32
Canaral Education	10, 52
General Education	23-24
General Exam Credit	
General Studies Degree Requirements	30
Geography	109
Geology	109
Grade Point Average (GPA) Calculation	20
Grades End of Term	20
Crading Symbols	20 21
Grading Symbols	20-2 1
Н	
Health Education	109-110
High School 21 Completion	110-111
History6	32. 111-112
Homeland Security Emergency Management 62-	63 113-11 4
Honors (Quarterly & Graduation)	21
Housing (Residence Halls)	9, 15
Humanitiès	114-115
Humanities Breadth Requirements	24-25
1	
Incomplete Grade	21
Industrial Manufacturing Technician (AJAC) Apprenti	reshin
Program613-6	303111P 3/1 117 110
Industrial Systems Technology	77, 117-110 10 115 117
industrial Systems recimology	DO, 110-11/
Integrated Basic Education and Skills Training I-BES	ı34
International Students	
Intramural Activities	18

J Japanese Agriculture Training Program
L
Library34-35
Limitations of Liability
Low Grade Policy
M
Mechanical Maintenance64-66
Math (Applied)118-119
Mathematics
Mathematics Assessment6
Math/Science Breadth Requirements
Mechatronics
Medical Assistant69-71, 121
Medical Simulation Technician71-72, 122-123
Medical Office & Billing51
Mission and Vision
Music
N Nove Strubent Orientation
New Student Orientation
Notice of Non-Discrimination
Nursing
Nutriion 127
0
Online Classes/Distance Education
Opportunity Grant
Orientation (Viking)
Officitation (viking)
Р
Pass/Fail Grading Option21
Philosophy
Physical Education & Health
Physics
Placement Testing (Math/English)
Political Science
Pre-Nursing DTA/MRP Degree Requirements27-28
Probation (Academic)21
Programs of Study37-80
Psychology
Q
Quantitative Basic Skills
R
Reciprocity Agreement 5 Records Confidentiality 22
Refund Policy
Registration8
Registration Access Times
Related Instruction
Religious Studies77,130
Repeating a Course
Resident Classification for Tuition
Resident Credit Requirement
Running Start
<u> </u>
S
Scholarships14
Science
Science Degree Requirements26-27
Sexual Harassment/Discrimination
Social Science Breadth Requirements

Sociology	
Social Work	
Specified Electives List	
Standards of Progress Policy	21-22
STEM Center	
Student Government (ASB)	18
Student Handbook	
Student Housing	
Student Programs	
Student Records Confidentiality	22
Student Rights & Responsibilities	
Student Success Center	16
Student Services	
Student Support Services	
Suspension Appeals	
Suspension (Academic)	
Cuoperiolori (rioduoriilo)	
Т	
Tech Prep (CTE Dual Credit)	33-34
Testing Services	
Transcripts	
Transfer Programs	33
Transfer Rights and Responsibilities	5
Transfer Students	4-5
TRIO Student Support Services	16
TRIO Upward Bound	35-36
Tuition & Fees	00-00
Tulion & Lees	
U	
Unmanned Arial Technical Managment	78-79
Unmanned Systems	131-132
ormanica dysteme	101 102
V	
Veterans' Services	16-17
Veterans' Affairs IHL Flight Program-Fixed Wing	45
votorano / mano in 2 mgm r rogram r ixoa vving	
W	
Welcome from the President	1
Welding79-8	
Withdrawals	21
Writing Center	
Workforce Education Programs	
Workforce Education Frograms	36
Workforce Training	
WORKIOIOG Trailing	14