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

Big Bend Community College offers a wide variety of services and programs, including Viking athletics, Community Concerts, Allied Arts, student clubs, and student-sponsored activities to supplement its educational programs in basic skills, developmental education, customized training, professional-technical education, and academic transfer programs. Whatever your educational goal, BBCC has a success strategy for achieving it!

The 2015-16 Course Catalog is designed to answer your questions about college resources available to help you succeed. Please take time to review the contents of this document, explore the various support services that may interest you, and use this information to chart your personal journey to success.

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

Welcome to Big Bend!



Jevenn L

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 (appointed 12/2010), Moses Lake

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

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

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

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

History

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

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

Mission

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

Vision

Big Bend Community College inspires every student to be successful.

Values

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

Board Ends Statements

E-1 Mission

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

E-2 Student Success

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

E-3 Excellence in Teaching and Learning

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

E-4 Community Engagement

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

E-5 Integrity and Stewardship

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

E-6 Inclusion and Climate

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

Calendar 2015-2016

| Fall 2015 | Winter 2016 | Spring 2016 | Summer 2016 |
|--|---|--|---|
| May 18 | Nov. 16 | Feb. 22 | May 16 |
| Aug. 27 | Dec. 10 | March 10 | June 16 |
| Sept. 14 | | | |
| Sept. 14 | | | |
| Sept. 21 | Jan. 4 | March 28 | July 5 |
| Sept. 24 | Jan. 7 | March 31 | July 7 |
| Nov. 25 | March 1 | May 24 | August 9 |
| Dec. 3 | March 16 | June 7 | August 12 |
| Dec. 7-9 | March 17-18 | June 8-10 | |
| Dec.10-Jan. 3 | March 21-25 | June 13-July 4 | |
| | | June 10 | |
| Veteran's Day Nov. 11 Thanksgiving Nov. 25-27 (Campus Closed Nov. 26-27) | Martin Luther King Day Jan. 18 Presidents Day Feb. 15 | Memorial Day May 30 | Independence Day, July 4 |
| | 2015 May 18 Aug. 27 Aug. 27 Sept. 14 Sept. 14 Sept. 14 Sept. 21 Sept. 21 Sept. 24 Nov. 25 Dec. 3 Dec. 3 Dec. 7-9 Dec. 7-9 | 20152016May 18Nov. 16May 27Dec. 10Aug. 27Dec. 10Sept. 14 | 201520162016May 18Nov. 16Feb. 22May 18Nov. 16Feb. 22Aug. 27Dec. 10March 10Sept. 14Sept. 14Sept. 14Jan. 4March 28Sept. 21Jan. 4March 28Sept. 24Jan. 7March 31Nov. 25March 1May 24Dec. 3March 16June 7Dec. 7-9March 17-18June 8-10Dec. 10-Jan. 3March 21-25June 13-July 4Veteran's Day Nov. 21Martin Luther King Day Jan. 18 Presidents DayMemorial Day May 30 |

*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 program must apply for admission. BBCC will assign an advisor, and evaluate transfer course work for officially admitted students. Registration priority is given to students who have been officially admitted to BBCC.

To apply for admission at BBCC a student must:

- 1. 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. 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.
- 3. Submit the completed application and a nonrefundable fee of \$30.00 to the Business Office, 1st floor, Bldg. 1400.

A student who does not register for classes within one year after being admitted must repeat the admissions procedures.

Admission Checklist

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

College, 7662 Chanute Street, Moses Lake, WA 98837-3299. Most schools require the student's signature and many require a fee for official transcripts. Prospective students should check with their former school for transcript ordering procedures.

- 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.
- 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.
- 7. 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.
- 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. 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

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

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

course offerings to students and the public, including information about student transfer rights and responsibilities.

 Colleges and universities have the responsibility to communicate their admission and transfer related decisions to students in writing (electronic or paper).

Resident Classification for Tuition

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

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

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

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

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

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

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

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

New Student Orientation

After attending a New Student Registration session, new students should plan to attend one of BBCC's New Student 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. 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 prior to meeting with an advisor and registering for classes unless they have previously fulfilled BBCC math and English requirements at another college or university. The fee is \$10.00 per test. Please see the BBCC Testing webpage for information on scheduling a testing time. Placement test scores are void after two years. Students living out of the area may take math and English placement tests at a local college. Scores should be sent directly to the BBCC Admissions/ Registration Office. For further information, prospective students may call the Testing Center at 509.793.2064.

International Students

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

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

Prospective students may request an application for international student admission from the Admissions/

Registration Office, Big Bend Community College, 7662 Chanute Street, Moses Lake WA 98837 or at the BBCC website www.bigbend.edu.

International Student Admission Requirements

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

- 1. BBCC application for admission must be submitted.
- 2. Official copy of high school and/or college transcripts must be submitted with official English translation.
- 3. Proof of adequate financial support for all expenses for one academic year (September to June) must be documented on the Declaration and Certification of Finances form or official bank letterhead.
- 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.

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 \$80.00 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 appointments 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 appointment. 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 | er class | schedule |

* 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-withdraw/.

Tuition & Fees

Resident Student Tuition

| 1-10 credits, per credit | \$102.75 |
|--|----------|
| 11-18 credits, additional per credit | \$50.90 |
| Over 18 credits, additional per credit | \$92.17 |
| Over 18 credits, Prof/Tech per credit | \$10.00 |

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

| 1-10 credits, per credit | \$116.00 |
|--|----------|
| 11-18 credits, additional per credit | \$51.60 |
| Over 18 credits, additional per credit | \$92.17 |

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

| 1-10 credits, per credit | \$279.26 |
|--|----------|
| 11-18 credits, additional per credit | \$58.08 |
| Over 18 credits, additional per credit | \$268.68 |

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

Nursing Fees

Nursing Program Deposit\$200.00

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

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

Residence Hall Fees

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

| Room and Damage Deposit* | \$200.00 |
|---|------------|
| Shared Room (per quarter) | \$930.00 |
| Single Room (per quarter, if available) | \$1,110.00 |

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

Student Services

The Student Center/Administration Building (Building1400) houses the Associated Student Body Office, Student Activities, Student Success Center, Counseling Center, Financial Aid, Veteran's Affairs, Student Support Services, Admissions/ Registration Office, and Vice President of Instruction/ Student Services. Also located in this building are the administrative offices, BBCC Bookstore, and Student Job Placement Office. In addition, the game room provides the opportunity for students to socialize and exchange ideas. Student information such as student bulletins, event notices, announcements, etc. are posted in this building.

Bookstore

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

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

Refund Policy

Course materials and textbooks purchased for the current guarter are returnable during the first two weeks of the guarter 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 guarter. Students without proof of a dropped class may receive a 80% refund during the first week of the guarter and 50% refund the second week. Rental course materials follow the same refund guidelines. Students who miss the refund dates may sell textbooks back to the BBCC Bookstore during scheduled book buy back days.

Book Buy Back Policy

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

Career Planning Services

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

Career Advising and Assessment

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

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

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

BBCC Learning Center Childcare

The BBCC Learning Center Childcare building is located on campus at 7726 Bolling Street. Opened in 2004, the BBCC Learning Center Childcare accommodates children from the age of one year through school age. The center is licensed by the Department of Social and Health Services. Trained staff provides a safe, caring and healthy environment for the children. The center is open from 7:30 a.m. until 6:00 p.m. to accommodate students enrolled for day classes. Drop in care is provided on a space-available basis. The center is available to the children of BBCC students, staff, and the community. For information regarding fees and availability of space in the Learning Center please call 509.793.2173.

Counseling

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

Counselors use a "whole person" approach in their work. Students often find that certain personal issues need to be addressed in order to take advantage of all the college has to offer. Counselors help students explore options and teach them to make better educational decisions. BBCC counselors assist students with referrals to off campus professionals if necessary.

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

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

Disability Support Services

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

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

Contact Information

The DSS office is located in the Administration Building, Room 1481. The telephone number for the Coordinator of Disability Services is 509.793.2027. To schedule an appointment, call 509.793.2035. A telecommunications device for the deaf (TDD), for incoming and outgoing calls, is available in the Admissions/Registration Office, Room 1474. The TDD telephone number is 509.762.6335..

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 will schedule an appointment with 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.
- 2. The student will be provided an intake packet to complete and return. Relevant documentation from external sources may also be requested to help

substantiate the disability and the student's eligibility for requested accommodations.

- 3. Once the intake packet and requested documentation has 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) for approved accommodations. It is the student's responsibility to provide instructors with the LOA and discuss how the accommodation will be implemented in the classroom.
- 5. It is the responsibility of the student to inform the instructor and Coordinator of Disability Services if there are questions regarding the implementation of the approved accommodations and to work collaboratively with them 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 with disabilities who have complaints with BBCC staff or faculty regarding disability related issues should contact the Coordinator of Disability Services at 509.793.2027 or the Associate Vice President of Student Services at 509.793.2061. Complaint procedures are found in the student handbook under the Discrimination, Harassment, and/or Sexual Harassment section.

Drug & Alcohol Abuse Prevention

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

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

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

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

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

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

Financial Aid



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

How to Apply

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

Free Application for Federal Student Aid, FAFSA - The FAFSA requests information about the student's and, in some cases their parents', income and asset information in order to determine eligibility for financial aid. Complete the FAFSA online at www.fafsa.gov.

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

Financial Aid Data Sheet - The data sheet collects information specific to attendance at Big Bend Community College. The data sheet is available on the Big Bend Community College website at www.bigbend.edu. Click on Financial Aid, and then Forms.

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

Eligibility Requirements

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

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

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

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

Financial Aid Programs

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

Federal Supplemental Educational Opportunity Grant – This is a federal grant program for the neediest 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.
- Federal Perkins Loans A 5% interest loan that students do not begin repaying until nine months after they graduate or cease to enroll at least half time. Students entering certain professions such as nursing may be able to cancel up to 100% of the loan once they are working in their field.
- 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.

Workforce Training 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.

Health/Accident Insurance

A student injury and sickness insurance plan is available to all students enrolled in six or more credits. Brochures are available at the Admissions/Registration Office and the Business Office.

Housing

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

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

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

Disabled Student Access

Philips Hall is accessible to physically challenged students.

Food Services

The Sodexo Corporation currently provides a quality retail food service program for students. The dining room is located in the Grant County Advanced

Technology Education Center in the center of campus. Students choose from many options including a deli selection, international selection, grill items and salads.

Sexual Harassment/ Discrimination

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

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

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

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

Discrimination

BBCC does not discriminate on the basis of race or ethnicity; creed; color; national origin; gender; marital or family status; sexual orientation; age; religious preference; the presence of any sensory, mental, or physical disability or the use of a trained dog or service animal by a disabled person; status as a disabled person; life threatening illness; or veteran status in educational programs and activities which it operates. BBCC is prohibited from discriminating in such a manner by college policy and by state and federal law. All college personnel and persons, vendors and organizations with which the college does business are required to comply with applicable federal and state statutes and regulations designed to promote affirmative action and equal opportunity.

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

Student's Rights & Responsibilities/ Student Handbook

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

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

Student Support Services

The BBCC Student Support Services program is a federally funded Title IV program. Total program funding of \$281,462.00 provides extensive academic services to 186 eligible students during each grant cycle.

The Student Support Services program is designed to help students succeed in college. Students in the program benefit from academic tutoring, progress monitoring, study skills workshops and classes, additional academic advising and transfer/career advising.

To be a part of the Student Support Services program, students must meet one of the following three eligibility criteria: 1) low income; 2) neither parent of the student has a bachelor's degree; or 3) disabled. The federal government funds Student Support Services in an effort to increase college success in these at-risk groups.

For additional information students should 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 Coordinator, after registering for classes each quarter, to assure proper certification.

VA recipients are responsible for providing the necessary information to the Veterans Coordinator, 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 Coordinator, 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:

| lf 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 wellrounded personality and to the growth of leadership ability. These activities help to promote school spirit, to furnish outlets for special interests and talents of students, and to enhance their cultural development. Students interested in extra-curricular activities or serving as Associated Student Body (ASB) officers should contact personnel in the Student Activities Office, Building 1400 or call 509.793.2066.

Intercollegiate Athletics

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

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

Intramural Activities

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

Music

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

Student Government

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

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

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

Student Organization & Areas of Involvement

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

Academic Information

Academic Amnesty

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

Auditing a Course

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

Course Numbering System

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

- **050-099:** Courses in this series may be applied toward graduation from BBCC under the Associate in Applied Science or Associate in General Studies degree. (DVS prefixed courses DO NOT apply toward graduation.)
- 100-299: Courses in this series may be applied toward graduation in any degree program at BBCC. Common course numbering is designed to make course transfer between and among the 34 community and technical colleges as easy as possible for students, advisors and receiving institutions. Courses with an "&" as part of the prefix are designated as common across the Washington community and technical college system.

Course Repeat Policy

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

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

Credit by Examination

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

The procedure is as follows:

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

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

Credits & Credit Load

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

End of Term Grades

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

General Examination Credit

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

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

Grading Symbols

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

| 4.0 - 3.8A 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 - 1.9C Average |
| 1.8 - 1.5C- |
| 1.4 - 1.2D+ |
| 1.1 - 0.9D 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 $5 \times 3.1 = 15.5$ Course Y $4 \times 1.5 = 6.0$ Course Z $3 \times 2.3 = 6.9$ 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 c |
|---------------------|------|
| Summer Quarter | Nove |
| Fall Quarter | Febr |
| Winter Quarter | May |
| Spring Quarter | Nove |

be completed by: November 1 February 20 May 20 November 1

"W" Grade

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

"N" Grade

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

Pass-Fail Grading Option

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

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

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

Time Limitation to Change a Grade

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

Honors at Graduation

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

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

Quarterly Academic Honors

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

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

Standards of Progress

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

Academic Warning

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

Academic Probation

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

Academic Suspension

A probationary student will be placed on academic suspension when the student's number of cumulative graded credits at BBCC is greater than 23 credits and

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

Appeals

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

Academic Dismissal

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

Student Records Confidentiality

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

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 Associate Vice President of Student Services 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 fouryear 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 Associate Vice President of Student Services.

General Education

What is General Education?

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

Why General Education?

For a job:

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

For life:

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

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

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

Criteria:

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

Mathematical Reasoning

Students will be able to reason mathematically. Criteria:

- 2.a. Interpret information in graph form
- 2.b. Understand and use statistical information
- 2.c. Understand geometrical concepts
- 2.d. Work with numerical and algebraic relationships

Problem Solving

Students will be able to solve problems combining and applying knowledge from multiple sources. Criteria:

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

Critical Thinking

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

- 4.a. Distinguish between well-supported and unsupported claims
- 4.b. Make comparisons and draw contrasts
- 4.c. Recognize the points of an issue or claim
- 4.d. Access multiple sources of information
- 5.e. Students will be able to define and articulate personal, historical, global and workplace/community aspects of culture.

Multiculturalism

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

- 5.a. Define and articulate an objective sense of personal culture as it relates to external cultures.
- 5.b. Define and articulate historical aspects of cultures using appropriate vocabulary and examples.
- 5.c. Define and articulate meaningful aspects of global cultures using appropriate vocabulary and examples.

5.d. Define and articulate concepts related to the culture of the workplace and community.

Related Instruction

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

Associate in Arts & Science DTA Degree

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

- Satisfy the "General Requirements All BBCC Degrees."
- Complete at least 90 transferable credit hours in courses numbered 100 or above with a grade point average of 2.00 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 guarter. 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).

5 Credits B. Quantitative Skills Symbolic or Quantitative Reasoning (SQR) (5 Credits) One course from: Mathematics (MATH) - Any 5 credit MATH course above 101

Philosophy (PHIL): 120

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

II. Breadth Requirements (50 Credits)

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

Humanities Lecture Courses HU

Art (ART): 100, 212, 216, 217, 218 Communications (CMST): 102, 220, 229 English (ENGL): 211, 212, 216, 220, 221, 234, 239, 240, 243, 244, 245, 246, 261, 272 Foreign Languages (Counts as a single discipline) American Sign Language (ASL): 121, 122 or 123 French (FRCH): (121, 122 or 123), 221, 222, 223

German (GERM): 121, 122 or 123 Spanish (SPAN): (121, 122 or 123), 211, 212, 213, 221, 222, 223 Humanities (HUM): 110, 214 Music (MUSC): 100, 105, 170 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, 124, 134, 215, 216, 217

B. Social Science Minimum 15 Credits Must include courses from at least three disciplines listed below: **Social Science Courses** SS Anthropology (ANTH): 100 Criminal Justice (CJ): 101 Economics (ECON): 200, 201, 202 History (HIST): 110, 116, 117, 118, 121, 136, 137, 201, 210, 245, 250, 270 Political Science (POLS): 202, 203 Psychology (PSYC): 100, 180, 200, 204, 225 Sociology (SOC): 101, 201, 204, 220

C. Math/Science Minimum 15 Credits

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

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

Lab science courses:

LS 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): 101,141,142 Criminal Justice (CJ): 110, 210, 220 Early Childhood Education (ECED): 105 Education (EDUC): 115, 201, 204 Engineering (ENGR): 111, 112 English (ENGL): 201 (If not used as part of the English composition requirement) Physical Education (PEH) maximum 5 credits: All lecture (Non-AC PEH) courses numbered 100 and above. Science (SCI): 104

IV. Physical Education/Health & Wellness 3 Credits

AC

Complete one of the following:

- A. Three (3) PEH Activity [AC] Credits(A maximum of 3 credits of PEH activity may be used in the degree.) or
- B. PEH 100 (Lifetime Wellness) or
- C. PEH 178 (Principles of Fitness)

V. General Electives

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

Associate in Business DTA/MRP

This pathway is applicable to students planning to prepare for various business majors at universities in Washington. Students choosing this degree are advised to contact their potential transfer institution early regarding specific course choices in each area of the degree where options are listed, the requirement for

overall minimum grade point average, and if a higher grade point average is required in a selected subset of courses or a specific minimum grade in one or more courses is required.

| CO | urses is required. | |
|---|---|--|
| I. | Basic Requirements A. Communication Skills | 15 credits 10 credits |
| | 1. ENGL& 101 | |
| | 2. ENGL& 102* *EWU requires ENGL 201 | |
| | B. Quantitative Skills 1. MATH& 148 | 5 credits |
| | C. Intermediate Algebra Proficiency is | required |
| II. | Breadth Requirements A. Humanities Must include courses from at least two with a maximum of 10 credits from any discipline. No more than 5 credits in for language at the 100 level are allowed. of five humanities performance/skill cr applied toward the 15 credit humanities | y one preign A maximum edits may be |
| | requirement. 1. CMST& 220 2. Student choice | 10 credits |
| | B. Social Science1. ECON& 2012. ECON& 202 | 15 credits |
| | 3. Student choice (not ECON) | 5 credits |
| | C. Math/Science 1. Natural sciences (5 credits must be a lab course) 2. MATH& 146 | 15 credits 10 credits |
| | D. Additional Credit in Breadth 1. MATH& 141 | 5 credits |
| III. | Specified Electives 1. BUS& 201 2. ACCT& 201 | 10 credits |
| 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 1. ACCT& 202 | 12 credits |

- 2. ACCT& 203 3. Student choice
- minimum of 2 credits

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.

| rec | quirements. | |
|-----|---|---------------|
| I. | | 15 credits |
| | A. Communication Skills | 10 credits |
| | 1. ENGL& 101 | |
| | 2. ENGL& 102 or ENGL 201 | |
| | B. Quantitative Skills | 5 credits |
| | 1. MATH& 146 | |
| | C. Intermediate Algebra Proficiency is | s required |
| II. | Breadth Requirements | 50 credits |
| | A. Humanities | 15 credits |
| | Must include courses from at least tw | o disciplines |
| | with a maximum of 10 credits from an | iy one |
| | discipline. No more than 5 credits in f | |
| | language at the 100 level are allowed | . A maximum |
| | of five humanities performance/skill c | redits may be |
| | applied toward the 15 credit humanitie | es breadth |
| | requirement. | |
| | 1. CMST& 220 | |
| | 2. Student choice | 10 credits |
| | B. Social Science | 15 credits |
| | 1. PSYC& 100 | 15 credits |
| | 2. PSYC& 200 | |
| | 3. A sociology class | 5 credits |
| | 0. A sociology class | o creato |
| | C. Math/Science | 15 credits |
| | 1. BIOL& 211 | |
| | 2. BIOL& 241 | |
| | 3. BIOL& 242 | |
| | D. Additional Credit in Dreadth | E avadita |
| | D. Additional Credit in Breadth 1. CHEM& 121 | 5 credits |
| | | |
| Ш. | Specified Electives | 10 credits |
| | 1. CHEM& 131 | |
| | 2. BIOL& 260 | |
| | | |
| IV. | Physical Education/Health | |
| | & Wellness | 3 credits |
| | 1. Student choice-A maximum of 3 PE | EH activity |
| | credits may be used in the degree. | |
| | | |
| | | |

V. General Electives

 NUTR& 101
 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, or ENGL 201 Mathematics—10 credits

MATUR 151 and 150

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

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

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

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

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

AS-T 2: Specified Electives and General Electives

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

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

Physical Education/Health & Wellness

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

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

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

| are instea and minimum of Arequirem | CIII.3. |
|-------------------------------------|------------|
| I. Basic Requirements | 40 credits |
| A. Communication Skills | 5 credits |
| ENGL& 101, 102 or 235 | |
| B. Mathematics | 15 credits |
| MATH& 151, 152, 163 | |
| C. Engineering Physics | 15 credits |
| PHYS& 221, 222, 223 | |
| D. Chemistry | 5 credits |
| CHEM& 161 | |
| II. Pre-Major Core Requirements | 20 credits |
| A. Mathematics | 10 credits |
| MATH 220, MATH 230 | |
| B. Electrical Engineering | 5 credits |
| ENGR& 204 | |
| C Programming | 5 credite |

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

25 credits

III. Pre-Major Specified Electives

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

- CHEM& 162
 (Required for WSU/semester transfers)
- ENGL& 235 Technical Writing
- ENGR 202 Design of Logic Circuits
- ENGR 205 Electrical Circuits Lab
 (1 credit lab required for WSU transfers)
- ENGR& 214 Statics
- ENGR& 215 Dynamics
- ENGR& 224 Thermodynamics
- ENGR 240 Applied Numerical Methods
- MATH& 254 Calculus IV
- A second course in computer programming

IV. Humanities and Social Sciences 15 credits

A. Must include at least one Humanities course of 5 credits and one Social Science course of 5 credits, plus an additional 5 credits of Humanities or Social Sciences for a total of 15 credits. Additional general education requirements, cultural diversity requirements, and foreign language requirements, as required by the receiving

institution, must be met prior to completion of the baccalaureate degree. Please meet with your advisor to determine which courses to take in this area.

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

Associate in Science (AS-T II) Pre-Engineering MRP Degree Mechanical/Civic/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.

| 0. | , riequi emente. | |
|----|-----------------------------|------------|
| I. | Basic Requirements | 45 credits |
| | A. Communication Skills | 5 credits |
| | ENGL& 101, 102 or 235 | |
| | B. Mathematics | 15 credits |
| | MATH& 151, 152, 163 | |
| | C. Engineering Physics | 15 credits |
| | PHYS& 221, 222, 223 | |
| | D. Chemistry | 10 credits |
| | CHEM& 161, 162 | |
| П. | Pre-Major Core Requirements | 25 credits |
| | A. Mathematics | 10 credits |
| | MATH 220, MATH 230 | |
| | B. Electrical Engineering | 15 credits |
| | ENGR& 214, 215, 225 | |
| | | |

III. Pre-Major Specified Electives 20 credits

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

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

IV. Humanities and Social Sciences 15 credits

- A. Must include at least one Humanities course of 5 credits and one Social Science course of 5 credits, plus an additional 5 credits of Humanities or Social Sciences for a total of 15 credits. Additional general education requirements, cultural diversity requirements, and foreign language requirements, as required by the receiving institution, must be met prior to completion of the baccalaureate degree. Please meet with your advisor to determine which courses to take in this area.
 - 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& 107 Math in Society MATH& 141 Precalculus I MATH& 146 Introduction to Statistics or highe level course * Except AMT program which requires two MAP

* 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

Oral Communications Requirement: 3-5 credits

3-5 credits in oral communications courses as stated in the approved Professional/Technical Program Plan. AVF 225 Effective Communication in Flight Instruction CMST 100 Human Communications CMST& 220 Public Speaking CMST 229 Advanced Public Speaking

Human Relations Requirement: 3-5 credits

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

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

Industrial First Aid Requirement: 2 credits

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

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

Associate in General Studies Degree

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

Credit Requirement: 90 credits

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

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

Certificate of Achievement

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

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

- 3-5 credits in oral communications
- 3-5 credits in written communications
- 3-5 credits in human relations
- 3-5 credits in computational skills, and
- 25-31 credits in the program major
- 45 minimum total credits

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

Certificate of Achievements are offered through the following programs:

Accounting Technician Aviation Maintenance Technology Business Information Management Business Medical Services Chemical Laboratory Technology Computer Science Early Childhood Education Industrial Systems Technology Medical Assistant Practical Nursing Welding Technology

Certificate of Accomplishment

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

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

Certificates of Accomplishment are offered through the following programs:

Accounting Technician Automotive Technology Aviation Maintenance Technology Business Information Management Business Medical Services Commercial Driver's License Computer Science Industrial Systems Technology Nursing Assistant Welding Refer to the Program of Study section for additional information.

Educational Programs

Adult Basic Skills

Tyler Wallace

509.793.2305

email: tylerw@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 Coordinator at 509.793.2300.

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) and Heritage University (HU).

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.

HU offers bachelor's degree options in education and social work and a master's degree option in education. BBCC and HU have a dual admissions program to provide a seamless transfer process for education students. The HU courses are taught in the evenings and on weekends.

The Center For Business & Industry Services

Beth Laszlo

509.793.2425

bethl@bigbend.edu

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

Mission

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

Continuing Education

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

General Categories for classes are:

Business Skills, Marketing and Planning Personal Enrichment Computer Software Training Professional Development, Public Speaking Nonprofit Fundraising Clases de Negocios en Español Health and Wellness Outdoor Skills and Travel Crafts and Hobbies House and Home Improvement Free Community Service Events

Community Education

Beth Laszlo

509.793.2425

bethl@bigbend.edu

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

College-University Transfer Programs

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

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

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

Accounting Art Biological Science Business Administration Criminal Justice Economics Engineering Foreign Language Mathematics Nursing Physics Psychology Sociology Anthropology Aviation (Commercial Pilot) Chemistry Computer Science Education English History Music Philosophy Political Science Social Science

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

English Lab

Kate Shuttleworth

509.793.2361

The English Lab (Room 1832) provides academic support for students needing help with writing assignments. Lab tutors work with students on papers in any subject area, not just English. Students taking developmental classes are also encouraged to utilize the lab. Besides tutoring, lab classes are offered for improving language skills, which include spelling, writing, and reading.

Integrated Basic Education and Skills Training (I-BEST) for: Commercial Driver's License Early Childhood Education Medical Assistant Welding

Tyler Wallace

509.793.2305

tylerw@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 18 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 new BBCC Library opened its doors Jan. 3, 2005. The facility includes two large multimedia equipped classrooms, expanded study and lounge seating space, ten study and media viewing rooms, the capacity to offer over 150 hardwired computer terminals in addition to a wireless network, and nearly twice the shelving space for the library's collections. The English Skills Lab shares this location.

The library's primary purpose is to support the educational mission of the college by providing access to information resources as well as instruction and

assistance in the research process. The library also serves as a cultural and educational resource for the surrounding community. We welcome your use of the library and encourage you to become familiar with the library's services and policies.

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 accompanies 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. |

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.

COLLECTIONS

- more than 35,000 volumes in the general collection covering a wide range of subjects
- a variety of current magazines and journals, plus access to thousands full-text titles through subscriptions to online resources
- local & national newspapers, plus 29 WA state, national, & alternative press papers via ProQuest
- the library subscribes to a variety of web based resources, including: ProQuest (journal & newspaper articles), Encyclopedia Britannica, Literature Resource Center, and others.
 Off- campus access is available for BBCC students, staff, and faculty through the library's page on the
- BBCC portal.documentaries, movies, records, and music CDs
- documentaries, movies, records, and music CDs
 a large and growing collection of children's books
- a large and growing collection of children's books
 textbooks, etc. for students going into education
- microfilm of old issues of journals and newspapers [including the Columbia Basin Daily Herald]
- Pacific Northwest History (PNW) collection
- The VOCational collection has information on fields of employment, resumes, etc., as well as information on scholarships and 4 year colleges.

SERVICES

Catalog - Voyager, the library's online catalog, includes the library's book, video, CD, LP and eBook holdings. Searches cover all collections except web based resources. Access to Voyager is available via the library's web page. No password or login is required.

Reserves - Instructors often place books, videos, etc. on reserve for library use only. These items are available at the Circulation Desk. Time limits may apply. Interlibrary Loans - The library will gladly attempt to borrow materials from other libraries for your use. Requests are placed through FirstSearch. Materials usually arrive fairly quickly but it can take 7-14 days or more so plan accordingly. Contact the library for details or if you have questions about this service.

Media Viewing is available in the study rooms. The library's computers have the ability to play CDs and DVDs. Headphones are available at the Service Desk.

A Typewriter with a correction ribbon is available.

A **Flatbed Scanner** is available at a station near the Reference Desk for your use.

Proctoring – The library offers test proctoring at no charge. The library requires 24 hour notice prior to providing this service. Please call as soon as possible to make arrangements and set up a time to take your test.

Study Rooms – Ten (10) study rooms of various sizes seating from four to eight are available on a first come first serve basis. All include whiteboards. One room includes an electric piano.

Instructional Rooms – Room 1802, the Bibliographic Instruction Lab, is a dedicated computer lab offering seating and networked terminals for up to 36 users.

Room 1801, the Multipurpose Classroom, accommodates various seating arrangements; up to 48 with chairs only, 32 with tables. All tables in this room include power plugs and network connections.

Each room includes a fully wired instructor's station and ceiling mounted LCD projectors for multimedia presentations.

Printing – BBCC students receive a complementary deposit for printing each quarter and access the account with their network login and password. Other users need to create guest accounts. Funds can be added using student or guest ID numbers at the library's Printer Cash Machine. See the BBCC Printing Policy posted next to the cash machine or the library's web page for details.

Single-sided print.....10¢ per page Double-sided (Duplex) print....10¢ per page

Photocopy Machine

Photocopies......10¢ per copy Transparencies......25¢ per sheet, plus 10¢ per copy

CIRCULATION OF MATERIALS

Borrowing Privileges

BBCC students use their ID cards to borrow materials. The library also lends to anyone residing within the college's service district. Nonstudent users must provide picture ID and proof of local address. Non-student users under the age of 18 must be accompanied by a parent or legal guardian.

Loan Periods

| Books, magazines, & CDs | 21 days |
|---------------------------|------------|
| Videos | 7 days |
| Reference & Reservelibrar | y use only |

Renewal and Returns

Materials may be renewed over the phone, in person, or through logging into Voyager. The library reserves the right to recall materials at any time.

All types of materials may be returned in any of the library's three book drops.

- Circulation Desk available only during open hours this drop is built into the desk
- Drive-up a freestanding unit is available 20 hours a day behind the building on Bolling Street
- "Quad" drop a 24 hour accessible drop is located near the doors on the south side of the building

Overdues, Fines, and Fees

The library does not charge overdue fines. Lost or returned items deemed beyond repair will be billed at a cost determined by the library plus processing fees. Fees for damaged but usable or repairable materials are also charged.

Overdue items or unpaid library fees or fines will result in a hold on registration, grades, and transcripts as well the suspension of borrowing privileges.

Accounts with materials overdue for two months or more are sent to an agency for collection.

COMPUTERS & ELECTRONIC RESOURCES

All terminals have access to the Internet, licensed databases, the Microsoft Office Suite, and are available for public and student use. Student research has priority on all computers at all times.

The library requires all users to comply with its computer use policy and the college's policy, both of which are available on the campus web site. Failure to adhere to these policies may result in loss of privileges.

The 1800 Building offers **Wireless Network Access**. BBCC students can access the system using their network login and password. Other users may come to the Service Desk to receive temporary access.

ASSISTIVE TECHNOLOGIES

It is the library's goal to serve all users to the best of our ability and in compliance with ADA regulations.

If you need an accommodation or assistance of any kind please notify a library staff member. We will gladly assist you in identifying and utilizing the proper equipment or resource to meet your needs.

Online Classes/Distance Education/eLearning

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

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

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

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

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

Professional/Technical Programs

Daneen Berry-Guerin

uerin 509.793.2053 daneenb@bigbend.edu

BBCC offers both certificate and associate degree professional/technical 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 Professional/Technical Program Plan with his/her advisor.

Professional/Technical Programs offered by the college include:

Accounting Technician Agriculture Automotive Technology Aviation (Commercial Pilot & Helicopter) Aviation Maintenance Technology Business Information Management Business Medical Services Commercial Driver's License Computer Science Early Childhood Education Industrial Systems Technology

Industrial Electrical Technology

 Maintenance Mechanics Technology Medical Assistant Nursing

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

Welding Technology

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 collegelevel mathematics course. (College-level classes are numbered 100 and above.)

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

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

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

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

STEM Center

509.793.2159

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

Tech Prep

Lora Wood

509.793.2115

loraw@bigbend.edu

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

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

Earned credit will be transcripted on the college permanent record upon receipt of all required conditions.

Participating high schools include Almira-Coulee-Hartline, Ephrata, Lake Roosevelt, Moses Lake, Odessa, Othello, Quincy, Ritzville, Royal, Soap Lake, Warden, Wahluke, Wilson Creek and the Columbia Basin Job Corps. For information regarding Tech Prep, students should contact their high school counselor or CTE director or the college Tech Prep Director.

TRiO Upward Bound

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

TRiO Upward Bound has been in operation at Big Bend Community College since 1967 and is the oldest program of its kind in Washington State. Its purpose is to provide equal access to post-secondary education for high school students by providing them with adequate preparation to enter college. The program achieves this by providing its participants with academic and personal advising, career planning, SAT/ACT preparation, monthly Saturday enrichment activities, college admission assistance including financial aid and scholarships. The program offers a six-week residential summer school where 55 selected students live in the BBCC residence halls and receive intensive academic instruction to build skills and increase knowledge with particular emphasis in math, English, and science. Cultural and recreational activities and field trips enhance the value of this worthwhile experience. TRiO Upward Bound offers a Bridge Program to assist recent high school graduates in the transition from secondary school to college. Selected participants attend summer quarter at BBCC with tuition, books and room and board paid by TRiO Upward Bound. They also participate in a "work study" like program and earn money for college while working at an on-campus job matched with their career choice.

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

BBCC receives an annual grant from the U.S. Department of Education for \$447,395 to operate the program; this grant covers 100% of the total program costs.

There is no charge for any services offered.

Workforce Education 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.

Programs of Study

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

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

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

Accounting

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

Transfer Options

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

Students intending to transfer to a baccalaureate institution and major in Business Administration have two degree options: 1) the Business DTA or 2) the Associate in Arts and Science DTA. Completing all of the prescribed courses listed for the Business DTA should enable students to be major ready when they transfer to a public baccalaureate institution in the state of Washington. See the Degrees and Certificates section for more information concerning the Associate in Business-DTA and the specific required classes for this degree. Business students choosing to transfer with an Associate in Arts and Science-DTA degree should consult program outlines published by the college or university to which they intend to transfer. However, the following recommended courses prepare students for most baccalaureate institutions. Students should prepare their quarterly schedules with the assistance of an advisor knowledgeable in this transfer area.

Associate In Arts And Science-DTA Degree

| Recomm | nende | ed Pre-Major Courses | Credits |
|-----------------------------|-------|--------------------------------------|---------|
| ACCT | 105 | Introduction to Accounting* | 5 |
| ACCT& | 201 | Prin of Accounting I | 5 |
| ACCT& | 202 | Prin of Accounting II | |
| ACCT& | 203 | Prin of Accounting III | 5 |
| BIM | 108 | Introduction to Microsoft Applicatio | ns 3 |
| BIM | 124 | Introduction to Spreadsheets | |
| | | with Microsoft Excel | - |
| BUS | 161 | Business Calculators* | 2 |
| BUS& | 201 | Business Law | 5 |
| ECON& | 201 | Micro Economics | 5 |
| ECON& | 202 | Macro Economics | 5 |
| MATH& | 146 | Introduction to Statistics | 5 |
| MATH | | Finite Mathematics | - |
| MATH& | 148 | Business Calculus | 5 |
| *Tech Prep credit available | | | |

Recommended General Education Courses Credits

| CMST& | 220 | Public Speaking | 5 |
|-------|-----|-----------------------|---|
| | | English Composition I | |
| | | | |
| | | Composition II | |
| 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 | |
|-----|-----|-------------------------------|---|
| | 400 | There are Delethere and the L | _ |

- BUS 120 Human Relations on the Job
- BUS 121 Business English
- CMST& 220 Public Speaking

FAD 150 Industrial First Aid

See advisor for substitute courses.

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

First Year Fall Quarter

| ACCT | 105 | Introduction to Accounting*^5 |
|------|-----|--|
| BIM | 101 | Basic Keyboarding [^] 2 |
| BIM | 108 | Introduction to Microsoft Applications 3 |
| BUS | 102 | Business Mathematics***5 |

Winter Quarter

| BIM | 181 | Introduction to Microsoft Word3 |
|------|-----|---------------------------------|
| BUS& | 101 | Intro to Business5 |
| BUS | 121 | Business English**5 |
| BUS | 161 | Business Calculators*2 |

Spring Quarter

| BUS | 122 | Business Communications5 |
|-------|-----|----------------------------------|
| CMST& | 220 | Public Speaking**5 |
| | | Introduction to Economics5 |
| BIM | 182 | Introduction to Microsoft Excel2 |

^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

*TechPrep credit available

 $^{\ast\ast}\mbox{Related}$ instruction requirement for AAS degree and Certificate of Achievement

Second Year Fall Quarter

| ACCT& | 201 | Prin of Accounting I5 |
|-------|-----|-------------------------|
| BIM | 109 | Intrnet Communications1 |
| BUS& | 201 | Business Law5 |
| FAD | 150 | Industrial First Aid**2 |

Winter Quarter

| ACCT& | 202 | Prin of Accounting II 5 |
|-------|-----|-----------------------------------|
| BIM | 124 | Introduction to Spreadsheets with |
| | | Microsoft Excel |
| BIM | 183 | Intro to MS Office: Access* 1 |
| BUS | 120 | Human Relations on the Job**4 |

Spring Quarter

| ACCT& | 203 | Prin of Accounting III | 5 | |
|--|-----|------------------------|-----|--|
| ACCT | 233 | Intro to Payroll Taxes | 2 | |
| ACCT | 260 | Computer Accounting | 3 | |
| ACCT | 262 | Intro to QuickBooks® | 2 | |
| BUS | 170 | Consumer Finance | . 5 | |
| *Tech Prep credit available | | | | |
| **Related instruction requirement for AAS degree and Certificate of Achievement | | | | |
| | | | | |

One-Year Certificate of Achievement (52 credits)

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

| will carri | | lineale of Achievement. |
|---|-----|--|
| ACCT | 105 | Introduction to Accounting* 5 |
| ACCT& | 201 | Prin of Accounting I5 |
| ACCT& | 202 | Prin of Accounting II 5 |
| ACCT& | 203 | Prin of Accounting III5 |
| ACCT | 260 | Computer Accounting |
| BIM | 108 | Introduction to Microsoft Applications 3 |
| BIM | 124 | Introduction to Spreadsheets |
| | | with Microsoft Excel 3 |
| BUS | 102 | Business Mathematics***5 |
| BUS | 120 | Human Relations on the Job**4 |
| BUS | 121 | Business English**5 |
| BUS | 161 | Business Calculators*2 |
| CMST& | 220 | Public Speaking**5 |
| FAD | 150 | Industrial First Aid**2 |
| *Tech Prep credit available **Related instruction requirement for AAS degree and Certificate of Achievement | | |

Certificate of Accomplishment

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

Option 1: Basic Office Computing (15 credits)

| BIM | 108 | Introduction to Microsoft Applications | 3 |
|-----|-----|--|---|
| BIM | 124 | Introduction to Spreadsheets | |
| | | with Microsoft Excel | 3 |
| BIM | 101 | Basic Keyboarding | 2 |
| BIM | 181 | Introduction to Microsoft Word | 3 |
| BIM | 182 | Introduction to Microsoft Excel | 2 |
| BUS | 161 | Business Calculators* | 2 |

Option 2: Accounting Principles Proficiency (20 credits)

| ACCT | 105 | Introduction to Accounting* 5 |
|-------|-----|-------------------------------|
| ACCT& | 201 | Prin of Accounting I5 |
| ACCT& | 202 | Prin of Accounting II5 |
| ACCT& | 203 | Prin of Accounting III |

Option 3: Computerized Accounting Applications (5 credits)

| ACCT | 260 | Computer Accounting |
|------|-----|------------------------------|
| 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 | |
| *Tech Prep credits available | | | |

**Meets the related instruction requirement for AAS degree

Remaining Program Courses to receive Associate in Applied Science Degree

| BIM | 183 | Intro to MS Office: Access* 1 |
|------|-----|-------------------------------------|
| BIM | 109 | Internet Communications1 |
| BUS& | 101 | Intro to Business5 |
| BUS | 102 | Business Mathematics***5 |
| BUS | 170 | Consumer Finance5 |
| BUS& | 201 | Business Law5 |
| BUS | 233 | Introduction to Payroll Taxes |
| ECON | 200 | Introduction to Economics5 |
| FAD | 150 | Industrial First Aid**2 |
| | | Total remaining program credits: 31 |

*Tech Prep credit available

**Meets the related instruction requirement for AAS degree

Agriculture

email: Agriculture@bigbend.edu

The Agriculture program is offered in cooperation with Wenatchee Valley College and Washington State University. Students will have the opportunity to interact with students and faculty at multiple locations. Agriculture classes will be offered jointly on the BBCC and WVC campuses.

Associate in Applied Science Professional/ Technical Program Transfer Option

Students earning this degree will have accomplished a transferable degree to WSU College of Agriculture. Students enter WSU with junior standing in specific agriculture degree programs.

This program is designed to give students a strong foundation in the agricultural fields and completes WSU's general education requirements. Students completing this degree will be prepared to begin upper division work in agriculture at WSU.

The agriculture transfer option is designed for students who plan to pursue further education in an agricultural field of their choice as the curriculum includes lab science and upper division mathematics courses.

Prior to beginning this program students should consult the current class schedules as some of the required courses are only offered once per year. Agriculture classes do not have specific prerequisites, but the course descriptions do note preferred prerequisites. Please note this information as it will help students be successful in their academic endeavors. Planning course work will allow students to complete the following required classes in six quarters.

Required Courses (92 credits)

| | | , | | |
|------------------------------|------|--------------------------------------|--|--|
| ANTH& | 100 | Survey of Anthropology5 | | |
| AGR | 241 | Farm and Ranch Management5 | | |
| AGR | 251 | Ecologically Based Pest Management 5 | | |
| AGR | 261 | Plant Science5 | | |
| AGR | 263 | Soils5 | | |
| AGR | 271 | Agriculture Sales and Marketing5 | | |
| AGR | 272 | Sustainable Agriculture and | | |
| | | Food Systems5 | | |
| BIOL& | 100 | Survey of Biology5 | | |
| CHEM& | 161 | General Chem w/Lab I5 | | |
| CHEM& | 162 | General Chem w/Lab II5 | | |
| CMST& | 220 | Public Speaking5 | | |
| ECON& | 201 | Micro Economics5 | | |
| ENGL& | 101 | English Composition I5 | | |
| FAD | 150 | Industrial First Aid2 | | |
| HIST& | 116, | 117, 118 (2 of 3 required) 10 | | |
| MATH& | 146 | Introduction to Statistics | | |
| PSYC& | 100 | General Psychology5 | | |
| Social Science (SS) Elective | | | | |

Associate in Applied Science Agriculture Technology Professional/

Technical Program Non-Transfer Option

Related instruction required for an Associate in Applied Science Degree:

| BUS | 120 | Human | Relation | s o | n the Job |
|---------|-----|-------|----------|-----|-----------|
| <u></u> | | | ~ | | |

- CMST 100 Human Communications
- ENGL 109 Applied Technical Writing
- FAD 150 Industrial First Aid
- MAP 103 Applied Mathematics

First Year

Fall Quarter

| BUS | 120 | Human Relations on the Job5 |
|-----|-----|-------------------------------|
| IST | 102 | Technical Drawing |
| IST | 105 | Basic Electricity DC Circuit5 |
| MAP | 103 | Applied Mathematics** |

Winter Quarter

| ACCT | 105 | Intro to Accounting5 |
|------|-----|------------------------------|
| | | Human Communications4 |
| ENGL | 109 | Applied Technical Writing 3 |
| IST | 106 | Basic Electricity AC Circuit |

Spring Quarter

| BIM | 108 | Intro to MS Computer Apps3 |
|------|-----|----------------------------|
| BIOL | 100 | Survey of Biology5 |
| FAD | 150 | Industrial First Aid2 |
| WLD | 111 | Welding Process |

Second Year

Fall Quarter

| AGR 130 Intro | o to GPS/Guidance Systems I |
|---------------|-----------------------------|
| AGR 241 Far | m and Ranch Management5 |
| BIM 183 Intro | o to MS Access |

Winter Quarter

| AGR | 131 | GPS/Guidance systems II5 |
|-----|-----|---------------------------------|
| AGR | 263 | Soils |
| IST | 141 | Intro to Mech Irrigations Apps5 |

Spring Quarter

| AGR | 271 | Ag Sales and Marketng5 | |
|-----|-----|---------------------------|--|
| IST | 142 | Mech Irrigations Apps II5 | |
| WLD | 112 | Thermal Cutting & Welding | |

Total Credits: 92

Certificate of Achievement Agriculture GPS/Guidance Systems

Fall Quarter

| BIM | 110 | Intro to MS Apps | 3 |
|-----|-----|------------------------------|---|
| BUS | | Human Relations on the Job | |
| FAD | 150 | Industrial First Aid/CPR | 2 |
| IST | 105 | Basic Electricity DC Circuit | 5 |
| MAP | 103 | Applied Mathematics | 5 |

Winter Quarter

| AGR ENGL IST IST | 109 106 | Intro to GPS/ Guidance Systems I Applied Technical Writing Basic Electricity AC Circuit Intro to Mech Irrigations Apps I | 3 5 |
|---------------------------|------------|---|--------|
| 4.00 | 404 | Spring Quarter | - |

| | | Tot | al Credits 54 |
|------|-----|--------------------------|---------------|
| CMST | 100 | Human Communications | 4 |
| IST | 142 | Mech Irrigations Apps II | 5 |
| BIM | 183 | Intro to MS Access | 3 |
| AGR | 131 | GPS/Guidance Systems II | 5 |

*Tech Prep credit available

**Related instruction required for an AAS degree

Anthropology

email: chrisr@bigbend.edu

Associate in Arts and Science Transfer Option

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

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

Recommended Pre-Major Courses Credits

| ANTH& | 100 | Survey of Anthropology | 5 |
|-------|-----|------------------------|---|
| PSYC& | 100 | General Psychology | 5 |
| SOC& | 101 | Intro to Sociology | 5 |
| BIOL& | 100 | Survey of Biology | 5 |
| GEOL& | 101 | Intro Physical Geology | 5 |
| HIST& | 116 | Western Civilization I | 5 |

| REL | 201 | World Religions |
|-----|-----|--------------------------|
| | | Social Problems |
| SOC | 220 | Marriage and the Family5 |

Art

| Rie Palkovic | 509.793.2276 |
|-------------------|-----------------------------|
| | Email: art@bigbend.edu |
| Associate in Arts | and Science Transfer Option |

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

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

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

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

| Recommended Pre-Major Courses Credits | | | 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 | | Drawing III | |

Recommended Art Electives 12 credits of the following courses

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

Automotive Technology

Richard Wynder John Martin

509.793.2255 509.793.2256

e-mail: aut@bigbend.edu Associate in Applied Science

Professional Technical Program (137 credits)

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

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

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

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

Related instruction required for an Associate in Applied Science degree

| BUS | 120 | Human Relations on the Job |
|------|-----|-----------------------------------|
| CMST | 100 | Human Communications |
| ENGL | 109 | Applied Technical Writing |
| FAD | 150 | Industrial First Aid |
| MAP | 101 | Applied Mathematics (AUT/WLD) |
| | | First Year |
| | | |
| | | Fall Quarter |
| AUT | 111 | Automotive Engine Service |
| AUT | 115 | Automotive Shop Safety & |
| | | Environmental Issues1 |
| AUT | 131 | Manual Drive Train and Axles |
| AUT | 190 | Projects Lab *2 |
| MAP | 101 | Applied Mathematics (AUT/WLD)** 5 |
| | | |

Winter Quarter

| AUT | 121 | Automotive Electrical & | |
|-----|-----|---------------------------|---|
| | | Electronic Systems | |
| AUT | 132 | Hydraulic Systems | |
| AUT | 190 | Projects Lab* | 2 |
| WLD | 101 | Oxy-Acetylene Welding for | |
| | | Auto Technicians | 2 |
| WLD | 102 | ARC/GMAW Welding for Auto | |
| | | Technicians | 2 |
| | | | |

Spring Quarter

| AUT | 105 | Automotive Personal Computer | |
|--|-----|-----------------------------------|--|
| | | Applications2 | |
| AUT | 124 | Brake System Service9 | |
| AUT | 125 | Suspension, Steering & Alignment9 | |
| AUT | 190 | Projects Lab*2 | |
| **Related instruction required for an AAS degree | | | |

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

Second Year Fall Quarter

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

Winter Quarter

| AUT | 212 | Automatic Transmission Repair |
|------|-----|-------------------------------|
| AUT | 213 | Automotive Servicing I |
| AUT | 290 | Advanced Projects Lab*2 |
| CMST | 100 | Human Communications**4 |

Spring Quarter

| AUT | 211 | Automobile Convenience Systems | 2 |
|--|-----|--------------------------------|---|
| AUT | | Automotive Servicing II | |
| AUT | 231 | Automotive Heating and | |
| | | Air Conditioning | 6 |
| AUT | 290 | Advanced Projects Lab* | 2 |
| BUS | 120 | Human Relations on the Job** | 4 |
| FAD | 150 | Industrial First Aid** | 2 |
| **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 Environmental1 |
|-----|------|---|
| AUT | 212 | Automatic Transmission Repair |
| | Α | utomotive Heating and Air |
| | | Conditioning (6 credits) |
| AUT | 231 | Automotive Heating and |
| | | Air Conditioning |
| | I | Brake Repair (10 credits) |
| AUT | 115 | Automotive Shop Safety and |
| | | Environmental Issues1 |
| AUT | 124 | Brake System Service9 |
| | Ele | ectrical/Electronic Systems |
| | | (16 credits) |
| AUT | 115 | Automotive Shop Safety and |
| | | Environmental Issues1 |
| AUT | 121 | Automotive Electrical and |
| | | Electronic Systems 15 |
| | Engi | ine Performance (19 credits) |
| AUT | 115 | Automotive Shop Safety and |
| | | Environmental Issues1 |
| AUT | 220 | Engine Performance 18 |
| | E | ingine Repair (10 credits) |
| AUT | 111 | Automotive Engine Service |
| AUT | 115 | Automotive Shop Safety and |
| | | Environmental Issues1 |

Manual Drive Train and Axle (9 credits)

| AUT | 115 | Automotive Shop Safety and |
|-----|-----|-------------------------------|
| | | Environmental Issues1 |
| AUT | 131 | Manual Drive Train and Axles8 |

Suspension and Steering (10 credits)

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

Aviation (Commercial Pilot)

| 509.793.224 | 41 | |
|------------------------------------|--------------|--|
| email: aviation@big | jbend.edu | |
| John-Marc Swedburg II 509.793.2247 | | |
| Chief Flight Instructor | | |
| Benjamin Altrogge | 509.793.2250 | |
| John Gillespie | 509.793.2246 | |

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

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

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

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

Associate in Arts and Science Transfer Option

Because most airlines and major corporations give hiring preference to pilots with a 4 year degree, most aviation students choose to obtain a two-year (DTA) transfer degree in order to complete their Bachelors' degree. This gives BBCC flight students more options and the flexibility to choose from a broader list of academic subjects in which to major. Flight students choosing this degree option will have to take more credit hours to graduate than other non-flight students. The typical instruction required for a flight student to receive an Associate in Arts and Science (DTA) degree is listed below.

| Engli: Engli: | sh 10 [°] sh 102 | uirements Credits 15 25 r Quantitative Reasoning5 |
|-------------------------------|------------------------------|--|
| A. Hu B. So | umani ocial S ath/So | equirements50ties(minimum 15 credits)Science(minimum 15 credits)cience(minimum 15 credits)Meteorology5 |
| III. Spec | ified | Electives 10 |
| - | | ducation 3 |
| V. Gene | eral El | |
| AVF | 111 | Credits |
| AVF | 112 | Preflight Ground School |
| AVE | 114 | Theory of Flight |
| AVE | 117 | Aviation Emergency Preparedness1 |
| , | or | |
| | | nt Physiology*3 |
| AVF | 141 | Private Pilot Flight (Stage 1) 4 |
| AVF | 142 | Private Pilot Flight (Stage 2) |
| AVF | 143 | Private Pilot Flight (Stage 3) 4 |
| AVF | 221 | Commercial Pilot Ground School |
| 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 |
| * Offered through CWU at BBCC | | |

Associate in Applied Science

Professional/Technical 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 Writing 3 |

| FAD MAP | 150 104 | Industrial First Aid2 Applied Mathematics (AVF) | |
|--|------------|--|--|
| 1017 11 | 104 | | |
| | | Credits | |
| AVF | 111 | Preflight Ground School 1 | |
| AVF | 112 | Private Pilot Ground School5 | |
| AVF | 113 | Meteorology5 | |
| AVF | 114 | Theory of Flight5 | |
| AVF | 117 | Aviation Emergency Preparedness 1 | |
| | or | | |
| | Fligh | nt 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 | |
| | Elec | tives**20-23 | |
| * Of | fered th | nrough CWU at BBCC | |
| | | AA&S degree requirements, see advisor for | |
| substitute courses. | | | |
| NOTE: AVF 141, 142, 143, 251, 252, 253, 254, 261 | | | |
| must be taken to complete the flight laboratory portion of | | | |

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.

| | | Cr | edits |
|---------|-------|--|-------|
| BUS | 120 | Human Relations on the Job | 4 |
| CMST | 100 | Human Communications | 4 |
| | or | | |
| AVF | 225 | Effective Comm. In Flight Instruction | 5 |
| ENGL | 109 | Applied Technical Writing | 3 |
| FAD | 150 | Industrial First Aid | 2 |
| MAP | 104 | Applied Mathematics (AVF) | 3 |
| Plus 51 | AVF 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

AVF AVF

AVF AVF

| | Pre-flight Ground School Private Pilot Flight (Stage 1) | | | |
|------------------------------------|--|---------|--|--|
| Private Pilot License (18 credits) | | | | |
| | | Credits | | |
| 112 | Private Pilot Ground School | 5 | | |

113 Meteorology5 142 Private Pilot Flight (Stage 2) 4 143 Private Pilot Flight (Stage 3) 4

Commercial Pilot (23 credits)

Credits

| AVF | 114 | Theory of Flight5 |
|-----|-----|-------------------------------------|
| AVF | | 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 |

| | nstrument Pilot (9 credits) | li |
|------------------|---|-------------|
| | Instrument Ground School | |
|) | nt Instructor (CFI) (9 credits) | Flig |
| Credits | Effective Communication in Flight Instruction | AVF 225 |
| | Flight Instructor | AVF 270 |
| redits) | ructor Instrument (CFII) (2 cr | Flight Inst |
| Credits ane 2 | Flight Instructor Instrument Airpla | AVF 271 |
| | Sea Plane (2 credits) | |
| Credits | Sea Plane Flight | AVF 272 |
| | Multi-Engine (2 credits) | |
| Credits | Multi-Engine Flight | AVF 275 |
| | mulator Training (1 credit) | Si |
| Credits | Simulator Training /Instrument Training | AVF 276 |
| lits) | ngine Instructor (MEI) (2 cred | Multi-Eı |
| Credits | Multi-Engine Instructor | |
| | T.P.: Multi-Engine (1 credit) | Α. |
| Credits | A.T.P.: Multi-Engine | AVF 292 |

Aviation (Helicopter Pilot)

BBCC offers a two-year Professional/Technical program in aviation for students who wish to prepare for a career as a professional pilot (helicopter) and not transfer to a four-year college. All Flight Training classes are offered through Inland Helicopter's Part 141 certificate Students are required to take all the courses listed below plus any electives necessary to meet quarterly and program credit totals. See page 29 for substitutions if you desire both the AA&S and the AAS degrees.

Related Instruction required for an Associate in Applied Science degree

| BUS | 120 | Human Relations on the Job*4 |
|-------|-----|------------------------------------|
| ENGL | 109 | Applied Technical Writing* |
| | or | |
| | | English 101 3-5 |
| MATH& | 107 | Math in Society5 |
| | or | |
| | | MAP 104 Applied Math3 |
| AVF | 225 | Effective Communications in Flight |
| | | Instruction5 |
| FAD | 150 | Industrial First Aid2 |
| | | Total Credits: 18-20 |

Required Aviation Courses

| | Required Aviation Courses | | |
|-----------|---------------------------|-----|---------------------------------------|
| | AVF | 111 | Pre-Flight Ground School1 |
| | AVF | 112 | Private Pilot Ground School5 |
| | AVF | 113 | Meteorology5 |
| | AVF | 114 | Theory of Flight5 |
| | AVF | 117 | Aviation Emer. Prep **0-3 |
| | | or | |
| | CWU Flt | 337 | Physiology3 |
| | AVF | 131 | Helicopter stage 14 |
| | AVF | 132 | Helicopter stage 24 |
| | AVF | 133 | Helicopter stage 3 4 |
| | AVF | 221 | Commercial Pilot Gr. School 5 |
| | AVF | 223 | Instrument Ground School 5 |
| | AVF | 227 | Aircraft Systems for Pilots5 |
| | AVF | 231 | Helicopter stage 4 4 |
| | AVF | 232 | Helicopter stage 54 |
| | AVf | 234 | Turbine Transition Helicopter-Ground1 |
| | AVF | 235 | Turbine Transition Helicopter-Flight |
| | AVF | 254 | Night flying 1 |
| | AVF | 261 | Instrument Flight stage 6 4 |
| | AVF | 270 | Flight Instructor5 |
| | AVF | 271 | Flight Instructor-Instruments 2 |
| Electives | | | |
| | AVF | 190 | Flight Alternate***4 |
| | AVF | 290 | Flight Alternate*** |
| | | | |

| AVF | 290 Flight Alternate*** | 4 |
|-----|--|-----|
| | Electives**2 | |
| | ** to meet AAS degree requirement see Advisor for recommended electives | |
| | *** These courses may be repeated if needed to complete required flight skills | |
| | Total degree requirements90-95 Cred | its |

Aviation Maintenance Technology

Erik Borg Dan Moore

509.793.2253 509.793.2254

email: amt@bigbend.edu

Associate in Applied Science

Professional Technical 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 quarter of enrollment at BBCC. The international student advisor will place new students in the appropriate classes.

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

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

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

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

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

| | | | Credits |
|------|-----------|--|------------|
| BUS | 120 | Human Relations on the Job**# | 4 |
| CMST | 100 | Human Communications**# | 4 |
| ENGL | 109 | Applied Technical Writing**# | 3 |
| FAD | 150 | Industrial First Aid**# | 2 |
| MAP | 100 | Applied Mathematics (AMT)**# | 2 |
| ** | Related | d instruction requirement for AAS deg | ree and |
| Ce | rtificate | of Achievement | |
| # | These | related instruction courses required for | or the AAS |

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

Credits

| | | | 0104110 |
|-----|---------|---------------------------------------|----------|
| 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 | t instruction requirement for AAS dea | iree 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)

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

+ Approved by FAA

Powerplant Maintenance Technician (63 credits) Credits

| | | ci cuito |
|------|---------|--|
| 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** |
| FAD | 150 | Industrial First Aid**2 |
| MAP | 100 | Applied Mathematics (AMT)**+2 |
| ** | Related | d instruction requirement for AAS degree and |
| Ce | | of Achievement |
| + | Approv | ed 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)

| | | | Credits |
|-----------|----------|--|------------|
| AMT | 148 | AMT General Electricity+ | 2-7 |
| AMT | 150 | AMT General+ | |
| MAP | 100 | Applied Mathematics**+ | 2 |
| ** App | lied Sci | I instruction requirement for Asso ence degree and Certificate of A rame Mechanic I (25 cred | chievement |
| | | • | Credits |
| AMT | 149 | AMT Airframe Electricity+ | |
| AMT | 151 | AMT 151 Airframe Mechanic | 1+22 |
| | ∆irfr | ame Mechanic II (23 cred | its) |

Airframe Mechanic II (23 credits)

| | | | Credits |
|-----|-----|------------------------|---------|
| AMT | 152 | Airframe Mechanic II+ | 21 |
| WLD | 103 | Beginning AMT Welding+ | 2 |

Powerplant Mechanic I (16 credits)

| AMT | 251 | Credits AMT Powerplant Mechanic I+16 |
|------------|------|---|
| | Powe | rplant Mechanic II (16 credits) |
| AMT AMT | | Credits AMT Powerplant Electricity+2 AMT Powerplant Mechanic II+14 |
| | Powe | rplant Mechanic III (16 credits) |
| AMT | 253 | Credits AMT Powerplant Mechanic III+16 |
| | Cei | Composite Technician tificate of Accomplishment (33 Credits) 1st Quarter |
| | | Credits |
| AMT MAP | | AMT General Electricity+ 16 Applied Mathematics**+ |

2nd Quarter

| CPT | 120 | Composite Fabrication4 |
|-----|-----|------------------------|
| CPT | 124 | Composite Assembly 4 |
| CPT | 130 | Composite Repair |
| CPT | 145 | Speical Projects |

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

+ Approved by FAA

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

Biological Sciences and Related Pre-Professional Studies

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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

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

+ Successful completion of BIOL& 221 with a 2.0 or better and successful completion of either CHEM& 121 or CHEM& 161 with a 2.0 or better, or instructor's permission are required as prerequisites for BIOL& 222. Please note that students taking only BIOL& 222 as an alternative to BIOL& 211 must have instructor permission and may satisfy the CHEM& 121 prerequisite with recent high school chemistry with a B or better.

>BIOL& 211 has a chemistry prerequisite that may be satisfied in one of two ways: A minimum grade of 2.0 in CHEM& 121 or a minimum grade of B in recent high school chemistry (taken within the last two years.) Prior high school biology is highly recommended.

*Students may qualify for BIOL& 241 or 260 in any one of the following ways:

• a grade of 2.0 or better in BIOL& 211 or BIOL& 222 and in CHEM& 121 or above, or a transcript from another college for those classes

• a year of high school Anatomy & Physiology and Chemistry within the last 2 years with a grade of B or better

• a score of 3 or better in Advanced Placement Biology and a year of high school Chemistry within the last 2 years with a B or better.

~Depending upon which Pre-Med major a student chooses, they may be required to take Vertebrate A&P rather than Human A&P, separate Anatomy and Physiology courses rather than combined, or possibly 3 quarters rather than 2. Check with the college to which you intend to transfer.

°BIOL& 242 prerequisite is a minimum grade of 2.0 in BIOL& 241 or equivalent.

CHEM& 121 has a prerequisite of Math 095.

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

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

Business Administration

Leslie Michie

509.793.2180

509.793.2194

email: lesliem@bigbend.edu

Preston Wilks

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

| Recommended Pre Major Courses Credits | | | |
|---------------------------------------|-----|-----------------------------------|---|
| ACCT& | 201 | Prin of Accounting I | 5 |
| ACCT& | 202 | Prin of Accounting II | 5 |
| ACCT& | 203 | Prin of Accounting III | 5 |
| BIM | 108 | Introduction to Microsoft | |
| | | Applications | 3 |
| BIM | 124 | Introduction to Spreadsheets with | 1 |
| | | 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

| CMST& | 220 | Public Speaking | 5 |
|-------|-----|-----------------------|---|
| | | English Composition I | |
| ENGL& | 102 | Composition II | 5 |
| POLS& | 202 | American Politics | 5 |
| PSYC& | 100 | General Psychology | 5 |

Business Information Management

509.793.2182

Tom Willingham

509.793.2191

Email: bim@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.

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 clerk, or an administrative assistant in a wide variety of industries.

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 competency-based, variable credit, or structured. Competency-based courses are designed to allow each student to work individually at his or her own pace to accomplish the required course objectives.

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

- Administrative Professional Services
- Medical Office and Billing Support Services

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

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

ASSOCIATE IN APPLIED SCIENCE DEGREE Administrative Professional Services Option

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

| valiety OI | Unice | | | |
|------------|--|--|---|----------------------------|
| BIM | 102 | Document Formatting^ | 4 | |
| BIM | 103 | The Administrative Professional | 2 | |
| BIM | 104 | Intermediate Keyboarding | 3 | |
| BIM | 109 | Internet Communications | 1 | |
| BIM | 112 | Proof & Edit | 3 | |
| BIM | 130 | Filing | 2 | |
| BIM | 180 | Introduction to Microsoft Office | 5 | |
| BIM | 262 | Professional Preparation | 3 | |
| BIM | 280 | Advanced Microsoft Office | 4 | |
| BIM | 281 | MS Office Intergration | 1 | |
| BUS& | 101 | | | |
| BUS | 102 | Business Mathematics**^ | 5 | |
| BUS | 114 | | | |
| BUS | 120 | Human Relations on the Job** | 4 | |
| BUS | 121 | Business English+** | 5 | |
| BUS | 122 | Business Communications | 5 | |
| BUS | 200 | Supervision | 5 | |
| BUS | 215 | | | |
| CSS | 102 | | I | |
| CMST | 100 | | | |
| FAD | 150 | | | |
| Business | Infor | mation Management Electives | 20+ | |
| | | Total Credi | ts: 94+ | |
| | BIM BIM BIM BIM BIM BIM BIM BIM BIM BIM | BIM 102 BIM 103 BIM 104 BIM 109 BIM 109 BIM 112 BIM 130 BIM 130 BIM 262 BIM 280 BIM 281 BUS 102 BUS 102 BUS 102 BUS 120 BUS 121 BUS 122 BUS 122 BUS 215 CSS 102 CMST 100 FAD 150 | BIM103The Administrative ProfessionalBIM104Intermediate KeyboardingBIM109Internet CommunicationsBIM112Proof & EditBIM130FilingBIM130FilingBIM262Professional PreparationBIM280Advanced Microsoft OfficeBIM280Advanced Microsoft OfficeBIM281MS Office IntergrationBUS101Introduction to BusinessBUS102Business Mathematics**^BUS120Human Relations on the Job**BUS121Business English+**BUS122Business CommunicationsBUS200SupervisionBUS215Customer ServiceCSS102Focus on SuccessCMST100Human Communications**FAD150Industrial First Aid** | BIM102Document Formatting^ |

Certificate of Achievement Administrative Assistant

| D 114 | 400 | | |
|--------------|-----|-----------------------------------|--------|
| BIM | 102 | Document Formatting [^] | |
| 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 | 4 |
| BIM | 281 | MS Office Intergration | 1 |
| 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 | 150 | Industrial First Aid** | 2 |
| | | Total Credi | ts: 66 |

Customer Service Associate

| BIM | 102 | Document Formatting [^] | 4 |
|------|-----|-----------------------------------|-----|
| BIM | 103 | The Administrative Professional | |
| BIM | 104 | Intermediate Keyboarding | 3 |
| BIM | 109 | Internet Communications | 1 |
| 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 | |
| CSS | 102 | Focus on Success | 3 |
| CMST | 100 | Human Communications** | 4 |
| FAD | 150 | Industrial First Aid** | 2 |
| | | Total Credits: | 53 |

Certificate of Accomplishment Office Assistant

BIM BIM BIM BIM BIM BUS BUS BUS CSS

| 102 | Document Formatting [^] 4 |
|-----|------------------------------------|
| | The Administrative Professional2 |
| 104 | Intermediate Keyboarding3 |
| 109 | Internet Communications1 |
| 130 | Filing2 |
| 180 | Introduction to Microsoft Office^5 |
| 120 | Human Relations on the Job**4 |
| 121 | Business English+**5 |
| 215 | Customer Service3 |
| 102 | Focus on Success |
| | Total Credits: 32 |

Office Clerk

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

Business Information Management Electives

| ACCT BIM BIM BIM BIM BIM BIM BIM BIM BIM BIM | 105 106 109 173 190 194 195 210 220 273 290 130 161 201 | Introduction to Accounting^5Advanced Keyboarding3Internet Communications1Word Processing I^5Spreadsheets I5Presentations5Database Management5Internet2Desktop Publishing5Word Processing II5Spreadsheets II5Internet2Desktop Publishing5Spreadsheets II5Spreadsheets II5Business Calculators^2Publishing5 |
|--|--|---|
| | | |
| | | |
| BUS& | 201 | Business Law5 |
| CJ& | 101 | Intro Criminal Justice5 |
| CJ& | 110 | Criminal Law5 |
| PSYC& | 204 | Industrial/Organizational Psychology 5 |

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.

| puter app | noau | 515. |
|-----------|------|--|
| ACCT | 105 | Introduction to Accounting [^] 5 |
| BIM | 102 | Document Formatting [^] 4 |
| BIM | 103 | The Administrative Professional |
| BIM | 104 | Intermediate Keyboarding |
| BIM | 109 | Internet Communications 1 |
| BIM | 111 | Intro to Computers in the Medical Office 3 |
| BIM | 112 | Proof & Edit |
| BIM | 114 | Medical Office Accounts Receivable I 2 |
| BIM | 115 | Medical Office Accounts Receivable II 2 |
| BIM | 116 | Intro to the Medical Office |
| BIM | 130 | Filing2 |
| BIM | 180 | Introduction to Microsoft Office^5 |
| BIM | 262 | Professional Preparation |
| BIM | 280 | Advanced Microsoft Office 4 |
| BIM | 281 | MS Office Intergration1 |
| BUS | 102 | Business Math*** |
| BUS | 120 | Human Relations on the Job** 4 |
| BUS | 121 | Business English+**5 |
| BUS | 122 | Business Communications5 |
| | | |

| BUS | 161 | Business Calculators [^] | 2 |
|----------|---------|-----------------------------------|------------|
| BUS | 200 | Supervision | 5 |
| BUS | 215 | Customer Service | 3 |
| CMST | 100 | Human Communications** | 4 |
| CSS | 102 | Focus on Success | 3 |
| FAD | 150 | Industrial First Aid** | 2 |
| HED | 150 | Medical Terminology I | 3 |
| HED | 151 | Medical Terminology II | 3 |
| HED | 239 | Medical Ethics | 2 |
| Business | s Infor | mation Management Electives | 10+ |
| | | Total Cr | edits: 98+ |

Certificate of Achievement Medical Office Technician

| BIM | 102 | Document Formatting [^] 4 |
|------|-----|--|
| BIM | 103 | The Administrative Professional |
| BIM | 104 | Intermediate Keyboarding |
| BIM | 109 | Internet Communications |
| BIM | 111 | Intro to Computers in Medical Office 3 |
| BIM | 116 | Intro to the Medical Office |
| | | |
| BIM | 130 | Filing2 |
| BIM | 180 | Intro to Microsoft Office [^] 5 |
| BUS | 102 | Business Math**^5 |
| BUS | 120 | Human Relations on the Job** |
| BUS | 121 | Business English+**5 |
| BUS | 161 | Business Calculators [^] 2 |
| BUS | 215 | Customer Service |
| CMST | 100 | Human Communications**4 |
| CSS | 102 | Focus on Success |
| FAD | 150 | Industrial First Aid**2 |
| HED | 150 | Medical Terminology I |
| HED | 151 | Medical Terminology II |
| HED | 239 | Medical Ethics |
| | | Total Credits: 58 |

Certificate of Accomplishment Medical Office Receptionist

| BIM | 102 | Document Formatting [^] | 4 |
|-----|-----|----------------------------------|---------|
| BIM | 103 | The Administrative Professional | 2 |
| BIM | 111 | Intro to Computers in Med Office | 3 |
| BIM | 130 | Filing | 2 |
| BUS | 120 | Human Relations on the Job** | 4 |
| BUS | 121 | Business English+** | 5 |
| BUS | 215 | Customer Service | 3 |
| HED | 150 | Medical Terminology I | 3 |
| HED | 151 | Medical Terminology II | 3 |
| HED | 239 | Medical Ethics | 2 |
| | | Total Cred | its: 31 |

**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)

^Tech Prep credit available

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

This program is a contract program with Skill Source. For advising contact Skill Source at 766-6300

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

| BIM | 101 | Basic Keyboarding (optional)2 credits |
|------|-----|---------------------------------------|
| BIM | 104 | Intermediate Keyboarding3 credits |
| BIM | 102 | Document Formatting4 credits |
| BUS | 120 | Human Relations on the Job4 credits |
| CMST | 100 | Human Communications4 credits |
| BIM | 109 | Internet Communications 1 credit |
| BIM | 130 | Filing2 credits |
| BUS | 102 | Business Math4 credits |
| BIM | 180 | Intro to Microsoft Office5 credits |
| BUS | 121 | Business English5 credits |
| IST | 100 | Intro to Industrial Health |
| | | and Safety3 credits |
| CSS | 100 | College Survival Skills3 credits |
| BIM | 182 | Intro to Microsoft Excel3 credits |
| BIM | 106 | Advanced Keyboarding |
| | | (optional)3 credits |
| BUS | 135 | Logistics3 credits |
| | | Total Credits: 45-59 credits |

Chemistry

| John Peterson | 509.793.2151 |
|---------------|----------------|
| Lindsay Groce | 509.793.2157 |
| email: o | hm@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 fundamental physical science that deals with the nature of materials in humans, animals, plants and the world around us. It also addresses changes that occur in nature. Everything we are or do depends upon chemistry, from our breakfasts to our evening vitamins. A major in chemistry prepares students for a variety of career fields as diverse as medicine, pharmacology, environmental science, engineering, and industry, education, ecology, or public service. 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.

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 | | | |
|---------------------------------------|-----|-------------------------------|---|
| 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& | | Calculus I | |
| 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

email: guillermog@bigbend.edu

509.793.2221

Certificate of Accomplishment

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

Required Course:

CDL 100 Commercial Driver's License17 credits

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

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

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

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

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

Computer Science

Arthur Wanner

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

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

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

Degree Options:

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

Certificate Options:

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

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

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

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

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

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

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

Computer Science Transfer

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

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

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

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

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

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

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

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

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

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

Core Technical Courses

| CS CS CS CS | 104 105 | Intro to Computer Science |
|----------------------|------------------|---|
| CS | | Intro to Database Design & Management5 |
| CS& | 131 or | Computer Science I: C++ |
| CS& | 141 | Computer Science I: Java5 |
| CS | 289 | Project Management for CS5 Total Credits: 29 |

Software & Web Development Concentration

| CS | 136 | Database Programming with SQL5 |
|---------|--------|--|
| CS | 161 | Intro to Website Design & Publishing 5 |
| CS | 251 | Programming with C#5 |
| CS | 262 | Programming Dynamic Websites5 |
| CS | 265 | Web Application Design |
| | | & Development5 |
| CS | 270 | Web Architecture & Client Services 5 |
| CS | 271 | Web Graphics5 |
| Approve | d Elec | tives |
| | | Concentration Total 43-45 |
| | | Total Credits 90-96 |

Systems Administration Concentration

| CS | 106 | Intro to Virtualization5 |
|---------|--------|--|
| CS | 110 | Networking Fundamentals |
| CS | 156 | Cisco Networking: Intro to Networks 5 |
| CS | 157 | Cisco Networking: Routing & Switching. 5 |
| CS | 158 | Cisco Networking: Scaling Networks |
| | or | |
| | Elec | tive5 |
| CS | 159 | Cisco Networking: Connecting Networks |
| | or | |
| | Elec | tive5 |
| CS | 205 | Windows Server Administration5 |
| CS | 206 | Linux Server Administration5 |
| CS | | Intro to Security Administration5 |
| | | tive2-5 |
| Concent | ration | Total 45-48 credits |
| | | Total Credits: 92-99 |

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

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

| | | | Credits |
|---|-------|-----|--------------------------------------|
| | CHEM& | 161 | General Chem w/Lab I5 |
| | CHEM& | 162 | General Chem w/Lab II5 |
| | CS& | 131 | Computer Science I: C++ |
| | | or | |
| | CS& | 141 | Computer Science I: Java5 |
| | CS | 132 | Advanced Programming with C++ |
| | | or | |
| | CS | 142 | Advanced Programming with Java 5 |
| | CS | | Computer Science Elective 5 |
| | MATH& | 146 | Intro to Statistics |
| | | | (depending on major)5 |
| | MATH& | 151 | Calculus I 5 |
| | MATH& | 152 | Calculus II5 |
| | PHIL& | 120 | Symbolic Logic5 |
| | PHYS& | 221 | Engineering Physics I w/Lab (Compute |
| | | | Engineering majors)5 |
| | PHYS& | 222 | Engineering Physics II w/Lab |
| | | | (Computer Engineering majors)5 |
| | PHYS& | 223 | Engineering Physics III w/Lab |
| | | | (Computer Engineering majors)5 |
| l | | | |

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 CS CS CS 156 Cisco Networking: Intro to Networks 5 CS 157 Cisco Networking: Routing & Switching5 CS 158 Cisco Networking: Scaling Networks 5 CS 159 Cisco Networking: Connecting Networks 5 BUS 120 Human Relations on the Job or PSYC& 100 General Psychology..... or SOC& 101 Intro to Sociology4-5 100 Human Communications..... CMST or CMST& 109 Technical Writing ENGL or

| 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.

| CS 156 | Cisco Networking: Intro to Networks5 |
|--------|---|
| CS 157 | Cisco Networking: Routing & Switching 5 |
| CS 158 | Cisco Networking: Scaling Networks5 |
| CS 159 | Cisco Networking: Connecting Networks 5 |
| | 20 credits |

Computer Support Specialist, Certificate of Accomplishment

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

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|----------|------|-------------------------------|---|
| CS | Flec | tive | 5 |
| CS | 207 | Intro to Security | 5 |
| CS | | Windows Server Administration | |
| CS | | Networking Fundamentals | |
| CS | | Intro to Operating Systems | |
| CS | 104 | Intro to Computer Hardware | 3 |
| | | oround | |

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 troubleshoot 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 Hardware |
| CS | 105 Intro to Operating Systems |
| CS | 110 Networking Fundamentals |
| CS | 156 Cisco Networking: Intro to Networks5 |
| CS | 157 Cisco Networking: Routing & Switching 5 |
| CS | 205 Windows Server Administration |
| CS | 206 Linux Server Administration |
| | or |
| CS | Elective |
| | 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 |
| CS | 105 | Intro to Operating Systems |
| CS | 110 | Networking Fundamentals |
| CS | 156 | Cisco Networking: Intro to Networks 5 |
| CS | 157 | Cisco Networking: Routing |
| | | & Switching5 |
| CS | 205 | Windows Server Administration5 |
| CS | | Computer Science Elective5 |
| BUS | 120 | Human Relations on the Job |
| | or | |
| PSYC& | 100 | General Psychology |
| | or | |
| SOC& | 101 | Intro to Sociology4-5 |
| ENGL | 109 | Technical Writing |
| | or | |
| ENGL& | 101 | English Composition I |
| CMST | 100 | Human Communications |
| | or | |
| CMST& | 220 | Public Speaking4-5 |
| FAD | 150 | Industrial First Aid2 |
| MATH& | 141 | Pre-Calculus5 |
| | | 47-51 credits |

WEB DEVELOPMENT AND DESIGN,

Certificate of Achievement

The Web Development and Design Certificate of Achievement is a short-term (one year) training option for students enrolled in the Software & Web Development

Cradita

program. Students completing the certificate may enter the work force as entry level Web Page Developers or Computer Support Technicians. Classes provide training in current Web development programming languages, Web page design, and essential communication, teamwork, and problem solving skills. Students complete related instruction courses and, if desired, can continue training and apply all earned Certificate of Achievement credits to the Associate in Applied Science degree.

| | | Credits |
|-------|-----|--|
| CS | 104 | Intro to Computer Hardware |
| CS | 105 | Intro to Operating Systems |
| CS | 111 | Intro to Programming5 |
| CS | 115 | Intro to Database Design |
| | | & Management5 |
| CS | 161 | Intro to Website Design & Publishing 5 |
| CS | 265 | Web Applications Design |
| | | & Development5 |
| CS | 271 | Web Graphics5 |
| BUS | 120 | Human Relations on the Job |
| | or | |
| PSYC& | 100 | General Psychology |
| | or | |
| SOC& | 101 | Intro to Sociology4-5 |
| CMST | 100 | Human Communications |
| | or | |
| CMST& | 220 | Public Speaking4-5 |
| | 100 | Technical Writing |

| ENGL | 109 | Technical Writing | |
|-------|-----|-----------------------|---------------|
| | or | | |
| ENGL& | 101 | English Composition I | |
| FAD | 150 | Industrial First Aid | 2 |
| MATH& | 141 | Pre-Calculus | 5 |
| | | | 49-53 credits |

Criminal Justice

Ryann Leonard

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Associate in Arts and Science Transfer Option

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.

Recommended Pre-Major Courses

| 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 |
| ENGL& | 101 | English Composition I | 5 |
| ENGL& | 102 | Composition II | 5 |
| HIST& | 136 | US History 1 | 5 |
| HIST& | 137 | US History 2 | 5 |
| POLS& | 202 | American Government | 5 |
| PSYC& | 100 | General Psychology | 5 |
| PSYC& | 200 | Lifespan Psychology | 5 |
| SOC& | 101 | Intro to Sociology | 5 |
| SOC& | 201 | Social Problems | 5 |
| SOC | 220 | Marriage and the Family | 5 |
| | | | |

Early Childhood Education

Jenny Nighswonger 509.793.2216

email: jennyn@bigbend.edu

Credits

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

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

Program prerequisite:

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

Recommendations:

- Complete BBCC admissions process.
- Complete English and math placement assessments.
- Meet with the ECE program advisor to develop a professional development plan.

 Complete Math, English, CSS 104-Introduction to Computer Literacy, CMST& 220-Public Speaking, ECED& 105-Intro to Early Childhood Ed, EDUC& 115-Child Development within first year, if possible.

Child Development Associate (CDA)

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

State Initial Early Childhood Education Certificate

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

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

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 Ed5 |
|-------|-----|-----------------------------|
| ECED& | 107 | Health/Safety/Nutrition5 |
| ECED& | 120 | Practicum: Nurturing Rel ^2 |
| EDUC& | 115 | Child Development5 |
| EDUC& | 130 | Guiding Behavior3 |
| | | Total Credits: 20 |

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 |
| | | Infants/Toddlers Care | |
| EDUC& | 115 | Child Development | 5 |
| | | Total Credits: | 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

Related Instruction Requirements:

| ENGL& | 101 | English Composition I | . 5 |
|-------|-----|-----------------------|-----|
| CMST& | 220 | Public Speaking | . 5 |
| | | Math in Society | |
| EDUC& | 115 | Child Development | . 5 |
| | | | |

Program Major Requirements:

| riogram | major | | |
|---------|-------|----------------------------|-----|
| 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 Instruction Requirements:

| MATH& | 107 | Math in Society5 |
|-------|-----|------------------------|
| ENGL& | 101 | English Composition I5 |
| CMST& | 220 | Public Speaking5 |
| | | General Psychology5 |
| | | Industrial First Aid2 |
| | | (or current card) |

| Program Ma | ajor Requirem | ents: |
|------------|----------------|---------------------|
| ECED& 10 | 5 Intro Early | Child Ed5 |
| ECED& 10 | 07 Health/Sat | fety/Nutrition5 |
| ECED& 12 | 20 Practicum | : Nurturing Rel ^ 2 |
| ECED& 13 | 32 Infants/Too | ddlers Care3 |
| ECED& 16 | 30 Curriculun | n Development5 |
| ECED& 17 | 0 Environme | ents-Young Child3 |
| ECED& 18 | | acy Development 3 |
| ECED& 19 | 0 Observatio | on/Assessment3 |
| EDUC 10 |)6 Issues in (| Child Abuse2 |
| | | elopment5 |
| EDUC & 13 | 30 Guiding B | ehavior3 |
| EDUC& 15 | 50 Child/Fam | ily/Community3 |
| EDUC 19 | 0 Classroom | n Experience^*9 |
| EDUC& 20 | 04 Exception | al Child5 |

Additional Degree Requirements:

| SOC& | 101 | Intro to Sociology5 |
|------|-----|-----------------------------------|
| | | Diversity Issues |
| CSS | 104 | Introduction to Computer Literacy |
| | | Total credits: 91 |

Program electives may include:

| ECED& | 100 | Child Care Basics* | |
|---|-----|-------------------------------------|--|
| ECED& | 139 | Admin of Early Lrng Prog3 | |
| ECED | 214 | Math & Science for Young Children 3 | |
| EDUC | 198 | Special Topics*1-5 | |
| EDUC& | 201 | Intro to Education | |
| *Tech Prep credit available | | | |
| ^ Requires background check, negative results of | | | |
| Tuberculin skin test, liability insurance and approval of | | | |
| program advisor or instructor if unmet prerequisite. | | | |

Transfer Degree Options:

Heritage University Articulation Agreement

Big Bend Community College and Heritage University developed an articulation agreement to transfer the Associate in Applied Science (AAS) in ECE degree from BBCC directly into the Bachelor of Arts in Early Childhood Studies program at Heritage University. If you are interested in this degree option, you will need to work closely with your BBCC Advisor and Heritage University, located on-campus. For more information, call (509) 793-2385 or visit Heritage University on-line at: www. heritage.edu

Eastern Washington University

Articulation Agreement

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

Economics

email: Economics@bigbend.edu

Associate in Arts and Science Transfer Option

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

Recommended Pre-Major Courses

| 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/MS | |
| | | 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 |
| | | | |

Credits

Recommended General Education Courses Credits

Engineering

Jim Hamm

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509.793.2391

James Sauceda

email: jamess@bigbend.edu

Associate in Science Transfer

Major Related Programs (MRP) Options

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

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

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

Electrical/Computer Engineering Credits **Required Core and Pre-Major Courses** CHEM& 161 General Chemistry w/Lab I5 131 Computer Science I: C++......5 CS& or CS& 141 Computer Science II: Java......5 ENGL& 101 Composition I......5 ENGR& 204 Electrical Circuits5 MATH& 151 Calculus I5 MATH& 152 Calculus II5 MATH 220 Linear Algebra.....5 MATH PHYS& 221 Engineering Physics I w/Lab......5 PHYS& 222 Engineering Physics II w/Lab......5 PHYS& 223 Engineering Physics III w/Lab......5 Humanities and Social Sciences 15

Pre-Major Elective Courses (minimum 25 credits)

| | | General Chemistry II w/Lab | |
|-------|-----|-----------------------------------|---|
| ENGL& | 235 | Technical Writing | 5 |
| ENGR | 202 | Design of Logic Circuits | 5 |
| ENGR | 205 | Electrical Circuits Lab (for WSU) | 1 |
| ENGR& | 214 | Statics | 5 |
| ENGR& | 215 | Dynamics | 5 |
| ENGR& | 224 | Thermodynamics | 5 |
| ENGR& | 240 | Applied Numerical Methods | 5 |
| MATH& | 254 | Calculus IV | 5 |

Highly recommended Humanities/Social Sciences

| CMST& | 220 | Public Speaking (HU)5 |
|-------|-----|-------------------------------|
| ECON& | 201 | Micro Economics (SS)5 |
| | or | |
| ECON& | 202 | Macro Economics (SS)5 |
| POLS& | 203 | International Relations (SS)5 |
| PSYC& | 100 | General Psychology (SS)5 |
| | | Total Credits: 100+ |
| | | |

Mechanical/Civil/Aeronautical/

Industrial/Materials Science

Required Core and Pre-Major Courses Credits

| | | · ····· · · · · · · · · · · · · · · · | |
|-----------------------------------|-----|---------------------------------------|---|
| CHEM& | 161 | General Chemistry w/Lab I | 5 |
| CHEM& | 162 | General Chemistry II w/Lab | 5 |
| ENGL& | 101 | Composition I | 5 |
| ENGR& | 214 | Statics | 5 |
| ENGR& | 215 | Dynamics | 5 |
| ENGR& | 225 | Mechanics of Materials | 5 |
| MATH& | 151 | Calculus I | 5 |
| MATH& | | Calculus II | |
| MATH& | 163 | Calculus 3 | 5 |
| MATH | 220 | Linear Algebra | 5 |
| MATH | 230 | Differential Equations | 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 |
| Humanities and Social Sciences 15 | | | |
| | | | |

Pre-Major Elective Courses (minimum 20 credits)

| - | | | - |
|-------|-----|-----------------------------------|---|
| CS& | 131 | Computer Science I: C++ | 5 |
| CS& | 141 | Computer Science II: Java | 5 |
| ENGL& | 235 | Technical Writing | 5 |
| ENGR& | 111 | Engineering Graphics I | 5 |
| | or | | |
| ENGR& | 112 | Engineering Graphics II | 5 |
| ENGR | 201 | Material Science | 5 |
| ENGR& | 204 | Electrical Circuits | 5 |
| ENGR | 205 | Electrical Circuits Lab (for WSU) | 1 |
| ENGR& | 224 | Thermodynamics | 5 |
| ENGR& | 240 | Applied Numerical Methods | 5 |
| | | Calculus IV | |
| | | | |

Highly recommended Humanities/Social Sciences

| CMST& | 220 | Public Speaking (HU)5 |
|-------|-----|-------------------------------|
| ECON& | 201 | Micro Economics (SS) |
| | or | |
| ECON& | 202 | Macro Economics (SS)5 |
| POLS& | 203 | International Relations (SS)5 |
| PSYC& | 100 | General Psychology (SS)5 |
| | | Total Credits: 105+ |

English

| John Carpenter | 509.793.2178 |
|------------------|-----------------|
| Steve Close | 509.793.2387 |
| Matthew Sullivan | 509.793.2367 |
| email: e | eng@bigbend.edu |

Associate in Arts and Science Transfer Option

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

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

Recommended Pre-Major Courses Credits

| ENGL& | 244 | American Literature I5 |
|-------|-----|--------------------------|
| ENGL& | 245 | American Literature II5 |
| HIST& | 117 | Western Civilization II5 |
| HUM | 110 | Greek Mythology5 |
| PHIL& | 101 | Intro to Philosophy5 |
| PSYC& | 100 | General Psychology5 |

Recommended General Education Courses Credits

| ART& | 100 | Art Appreciation | 5 |
|-------|-----|---------------------------|---|
| ENGL | 211 | Creative Writing: Fiction | 5 |
| ENGL | 212 | Creative Writing: Poetry | 5 |
| ENGL& | 220 | Intro to Shakespeare | 5 |
| ENGL | 243 | The American Novel | 5 |
| HIST& | 116 | Western Civilization I | 5 |
| HIST& | 136 | US History 1 | 5 |
| HIST& | 137 | US History 2 | 5 |
| REL | 201 | World Religions | 5 |

Foreign Language

Angela Leavitt 509.793.2187 email: Foreign Language@bigbend.edu

Associate in Arts and Science Transfer Option

Understanding other languages and cultures is vital in communicating with the increasingly global environment. Language and cultural skills open doors for careers in a wide variety of fields, particularly education, social services, translating and interpreting, international business and travel. The foreign language curriculum is designed to prepare the student to transfer to a baccalaureate institution offering more advanced language study.

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

| Recommended Pre-Major Courses | Credits |
|-------------------------------|---------|
|-------------------------------|---------|

Recommended General Education Courses Credits

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

Placement Policy

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

History

Chris Riley

509.793.2184

email: chrisr@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 should prepare their quarterly schedules with the assistance of an advisor knowledgeable in this transfer area.

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

Homeland Security Emergency Managment

Associate in Technology Homeland Security Management Associate of Arts (AA-DTA) Certificate: Homeland Security Management The Homeland Security Emergency Management (HSEM) Associate degree and certificate program is designed to prepare the next generation of emergency management and policy leaders with the knowledge and skills they need to improve outcomes in disasters of all types. The online program incorporates instruction in policy as well as planning and operational components of emergency management and homeland security, including opportunities to gain practical experience and work with current incident management technologies. The program addresses competencies required of emergency management professionals in careers in government, private industry and non-profit sectors. Students explore the complex world of emergency and disaster management issues and learn the critical thinking and decision-making skills necessary to support and supervise comprehensive, integrated, and effective management in the event of natural, systemwide, or human-induced crises. The curriculum provides policy foundations and advances students through core competencies in hazard identification; risk and vulnerability assessment; planning; terrorism; mitigation, preparedness, response and recovery; and planning for diverse populations. The Associate in Homeland Security Emergency Management degree will develop the students' competencies to prepare for and respond to all hazard environments, and includes an understanding of socioeconomic and cultural diversity issues.

Industrial Systems Technology ~ **Mechanical Maintenance Option**

Bill Autry

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

To prepare students for entry-level employment as maintenance mechanics in several industries, the Industrial Systems Technology (IST) program provides a foundation in safety, fabrication, welding, refrigeration, machining, power transmission, industrial electricity, fluid power, programmable logic controllers, and instrumentation. Maintenance mechanics install new industrial machinery and systems, maintain and repair equipment, and perform tests on machinery and equipment to ensure safe operation. After completing the program, a student may take additional training to specialize in an area of industrial maintenance technology.

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

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

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

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

MAP 103 Applied Mathematics (IST) See advisor for substitute courses.

First Year Fall Quarter

| IST | 100 | Introduction to Industrial Safety | |
|-----|-----|-----------------------------------|---|
| | | and Health | 3 |
| IST | 102 | Technical Drawing Interpretation* | 3 |
| MAP | 103 | Applied Mathematics (IST)** | 5 |
| WLD | 111 | Welding Process I* | 6 |

Winter Quarter

| CMST | 100 | Human Communications** | 4 |
|------|-----|------------------------------------|---|
| IST | 105 | Basic Electricity -DC Circuit Anal | 5 |
| IST | 180 | Machining I | 5 |
| WLD | 122 | Gas Metal Arc Welding I | 3 |

Spring Quarter

| ENGL | 109 | Applied Technical Writing** |
|-----------------------------|-----|-------------------------------------|
| FAD | 150 | Industrial First Aid**2 |
| IST | 106 | Basic Electricity – AC Circuit Anal |
| IST | 182 | Machining II |
| WLD | 132 | Gas Tungsten Arc Welding I (TIG)3 |
| *Tech Prep credit available | | |

Second Year Fall Quarter

| BUS | 120 | Human Relations on the Job** | 4 |
|-----|-----|-----------------------------------|---|
| IST | 107 | Industrial Electricity I | 5 |
| IST | 130 | Introduction to Refrigeration and | |
| | | Air Conditioning | 5 |
| IST | 280 | Mechanical Power Transmission | 5 |

Winter Quarter

| IST | 120 | Introduction to Preventive/Predictive | |
|-----|------|---------------------------------------|--------|
| | | Maintenance | 3 |
| IST | 136 | Intro to Industrial Boilers | 5 |
| IST | 170 | Introduction to Instrumentation | 5 |
| | Advi | sor approved Elective*2 | 2 to 5 |

Spring Quarter

| IST | 150 | Introduction to Programmable Logic | |
|-----|----------------|---|------|
| | | Controllers I | 5 |
| IST | 282 | Fluid Power Transmission | 5 |
| IST | 284 | Pump Hydraulics/Mechanics | 5 |
| | Optio | onal Elective*2 | to 5 |
| | *Student ca | in take Work Based Learning or elective | |
| | classes | | |
| | **Related in | nstruction required for an AAS degree and | |
| | Certificate of | of Achievement | |

Certificate of Achievement

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

Boiler/Refrigeration (51 credits) First Year Fall Quarter

| | | - |
|-----|-----|-------------------------------|
| BUS | 120 | Human Relations on the Job**4 |
| MAP | 103 | Applied Mathematics (IST)**5 |

Winter Quarter

| CMST | 100 | Human Communications**4 |
|------|-----|---|
| IST | 105 | Basic Electricity - DC Circuit Analysis 5 |

Spring Quarter

| IST | 106 | Basic Electricity – AC Circuit Analysis 5 | | |
|--|-----|---|--|--|
| ENGL | 109 | Applied Technical Writing** | | |
| FAD | 150 | Industrial First Aid**2 | | |
| **Related instruction required for an AAS degree and | | | | |
| Certificate of Achievement | | | | |
| | | | | |

Second Year Fall Quarter

| IST | 107 | Industrial Electricity I5 |
|-----|-----|-----------------------------------|
| IST | 130 | Introduction to Refrigeration and |
| | | Air Conditioning5 |

Winter Quarter

| IST | 170 | Introduction to Instrumentation | 5 |
|-----|-----|---------------------------------------|---|
| IST | 120 | Introduction to Preventive/Predictive | |
| | | Maintenance | 3 |
| IST | 136 | Intro to Industrial Boilers | 5 |

Industrial Fabrication (50 credits) First Year

Fall Quarter

| MAP | 103 | Applied Mathematics (IST)**5 |
|-----|-----|-----------------------------------|
| IST | 102 | Technical Drawing Interpretation* |
| WLD | 111 | Welding Process I*6 |

Winter Quarter

| IST | 180 | Machining I | 5 |
|-----|-----|-------------------------|---|
| WLD | 122 | Gas Metal Arc Welding I | 3 |

Spring Quarter

| ENGL | 109 | Applied Technical Writing** | 3 |
|--|------|----------------------------------|----|
| FAD | 150 | Industrial First Aid** | .2 |
| IST | 182 | Machining II | 5 |
| WLD | 132 | Gas Tungsten Arc Welding I (TIG) | 3 |
| *Tech | Prep | credit available | |
| **Related instruction required for an AAS degree and Certificate of Achievement | | | |

Second Year **Fall Quarter**

| BUS | 120 Hu | uman Relations on the Job** |
|------|-------------|---------------------------------------|
| WLD | 112 Th | ermal Cutting and Welding* |
| | | |
| | | Winter Quarter |
| CMST | 100 Hu | uman Communications**4 |
| IST | 184 Ma | achining (Skill Enhancement) |
| *Tec | h Prep cre | dit available |
| | | uction required for an AAS degree and |
| Cert | ficate of A | chievement |
| | Industri | ial Mechanics (51 credits) |
| | maustr | First Year |
| | | |
| | | Fall Quarter |
| MAP | 103 Ap | pplied Mathematics (IST)**5 |
| IST | 280 Me | echanical Power Transmission |
| | | |

Winter Quarter

| CMST | 100 | Human Communications** | 4 |
|------|-----|---------------------------------------|---|
| IST | 180 | Machining I | 5 |
| IST | 120 | Introduction to Preventive/Predictive | |
| | | Maintenance | 3 |

Spring Quarter

| ENGL | 109 | Applied Technical Writing** | |
|--|-----|-----------------------------|--|
| FAD | 150 | Industrial First Aid**2 | |
| IST | 284 | Pump Hydraulics/Mechanics5 | |
| **Related instruction required for an AAS degree and Certificate 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 Boilers | 5 |
|---------|-----------------------------|---|
|---------|-----------------------------|---|

Spring Quarter

282 Fluid Power Transmission 5 IST **Related instruction required for an AAS degree and Certificate 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.

Boiler/Refrigeration

| | | - | |
|-----|-----|---|-----|
| IST | 130 | Introduction to Refrigeration and | |
| | | Air Conditioning | . 5 |
| IST | 120 | Introduction to Preventative/Predictive | |
| | | Maintenance | . 3 |
| IST | 136 | | |
| | | | |
| | | Machining | |
| IST | 180 | Machining I | . 5 |
| IST | | Machining II | |
| IST | | Machining-Skill Enhancement | |
| | | | |
| | | Mechanical | |
| IST | 120 | Introduction to Preventative/Predictive | |
| | | Maintenance | . 3 |
| IST | 280 | Mechanical Power Transmission | . 5 |
| IST | 282 | Fluid Power Transmission | . 5 |
| IST | | Pump Hydraulics/Mechanics | |
| | | | |

Industrial Systems Technology ~ Industrial Electrical Option

509.793.2265 James Ayers email: jamesa@bigbend.edu

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

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

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

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

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

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

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

First Year

Fall Quarter

| IST | 100 | Introduction to Industrial |
|-----|-----|-----------------------------------|
| | | Safety and Health3 |
| IST | 102 | Technical Drawing Interpretation* |
| IST | 105 | Basic Electricity – |
| | | DC Circuit Analysis5 |
| MAP | 103 | Applied Mathematics (IST)**5 |

Winter Quarter

| BUS | 120 | Human Relations on the Job**4 | |
|------|-----|---|--|
| CMST | 100 | Human Communications**4 | |
| FAD | 150 | Industrial First Aid**2 | |
| IST | 106 | Basic Electricity - AC Circuit Analysis 5 | |
| IST | 120 | Introduction to Preventive/Predictive | |
| | | Maintenance 3 | |

Spring Quarter

| ENGL | 109 | Applied Technical Writing** |
|------|-----|------------------------------------|
| IST | 107 | Industrial Electricity I5 |
| IST | 110 | Introduction to National |
| | | Electrical Code 2 |
| IST | 113 | Industrial Electrical Installation |
| | | Techniques5 |
| IST | 221 | Electronics I (Principles)5 |
| 101 | 221 | |

Second Year Fall Quarter

| IST | 111 | National Electrical Code II2 |
|-----|-----|--------------------------------|
| IST | 150 | Introduction to Programmable |
| | | Logic Controllers 5 |
| IST | 207 | Industrial Electricity II5 |
| IST | 222 | Electronics II (Applications)5 |

Winter Quarter

| IST | 112 | National Electrical Code III | 2 |
|-----|-----|---------------------------------|---|
| IST | 170 | Instrumentation II | 5 |
| IST | 223 | Electronics III (Industrial) | 5 |
| IST | 152 | Programmable Automation Control | 5 |

Spring Quarter

| IST | 208 | Industrial Electricity III | |
|-----|-----------|---|----------|
| | | (VFD's & Soft Starts) | 5 |
| IST | 270 | Instrumentation II & | |
| | | Control Actuators | 5 |
| | Advi | sor approved Elective | . 2 to 5 |
| * | Tech Prep | credit available | |
| | | nstruction required for AAS degree and of Achievement | |
| | | | |

Certificate of Achievement

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

Electrical Mechanized Irrigation Technology (48 credits minimum)

Fall Quarter

| BUS | 120 | Human Relations on the Job** | 4 |
|-----|-----|---------------------------------|---|
| BUS | 215 | Customer Service | 3 |
| IST | 105 | Basic Electricity – DC Circuits | 5 |
| MAP | 103 | Applied Mathematics** | 5 |

Winter Quarter

| CMST | 100 | Human Communications** | 4 |
|------|-----|---------------------------------|---|
| ENGL | 109 | Applied Technical Writing** | 3 |
| FAD | 150 | Industrial First Aid**2 | 2 |
| IST | 106 | Basic Electricity – AC Circuits | 5 |

Spring Quarter

| IST | 107 | Industrial Electricity I5 | |
|--------------|-----------|---|--|
| IST | 110 | Introduction to National | |
| | | Elec. Code2 | |
| IST | 140 | Mechanized Irrigation | |
| | | Applications I10 | |
| | **Related | l instruction required for AAS degree and | |
| | Certi | ficate of Achievement | |
| _, , , _ , , | | | |
| | | Electronics Technology | |

(48 credit minimum)

First Year

Fall Quarter

| IST | 105 | Basic Electricity - DC C | ircuit Analysis 5 |
|-----|-----|--------------------------|-------------------|
| MAP | 103 | Applied Mathematics (IS | ST)**5 |

Winter Quarter

| | | Winter Quarter | |
|-------------|---------|---|--|
| CMST | 100 | | |
| FAD | 150 | Industrial First Aid**2 | |
| IST | 106 | Basic Electricity - AC Circuit Analysis 5 | |
| | | | |
| FNIOL | 400 | Spring Quarter | |
| ENGL | | Applied Technical Writing** | |
| IST | 221 | Electronics I (Principles)5 | |
| | | Second Year | |
| | | Fall Quarter | |
| BUS | 120 | Human Relations on the Job** | |
| IST | 222 | Electronics II (Applications)5 | |
| | | | |
| 10 - | | Winter Quarter | |
| IST | 223 | Electronics III (Industrial)5 | |
| | | Spring Quarter | |
| | Advi | sor approved Elective | |
| | lated i | nstruction required for AAS degree and | |
| Certi | ficate | of Achievement | |
| | | Industrial Electrical | |
| | | (50 credits minimum) | |
| | | First Year | |
| | | Fall Quarter | |
| IST | 105 | Basic Electricity - DC | |
| | | Circuit Analysis5 | |
| MAP | 103 | Applied Mathematics (IST)**5 | |
| | | | |
| CMCT | 100 | Winter Quarter Human Communications**4 | |
| CMST FAD | 150 | Industrial First Aid**2 | |
| IST | 106 | Basic Electricity - AC | |
| | | Circuit Analysis | |
| | | | |
| | | Spring Quarter | |
| IST | | Industrial Electricity I5 | |
| IST | 221 | Electronics I (Principles)5 | |
| | | Second Year | |
| | | Fall Quarter | |
| IST | 207 | Industrial Electricity II 5 | |
| | | Winter Quarter | |
| BUS | 120 | Human Relations on the Job** | |
| 000 | | sor approved Elective* | |
| | | | |
| | | | |
| | | | |

Spring Quarter

| | 208 lated i | Applied Technical Writing** | |
|----------------|----------------|--|--|
| | Prog | rammable Logic Controllers (48 credits minimum) | |
| | | First Year | |
| | | Fall Quarter | |
| BUS | 120 | Human Relations on the Job**4 | |
| IST | 105 | Basic Electricity - DC Circuit Anal | |
| MAP | 103 | Applied Mathematics (IST)** | |
| | | Winter Quarter | |
| FAD | 150 | Industrial First Aid**2 | |
| IST | 106 | Basic Electricity - AC | |
| | | Circuit Analysis5 | |
| | | Spring Quarter | |
| ENGL | | Applied Technical Writing** | |
| IST | 107 | Industrial Electricity I5 | |
| | | Second Year Fall Quarter | |
| IST | 150 | Introduction to Programmable | |
| | | Logic Controllers 5 | |
| IST | 207 | Industrial Electricity II5 | |
| Winter Quarter | | | |
| | | | |

| CMST | 100 | Human Communications** | 4 |
|--------|---------|--|---|
| IST | 152 | Programmable Automation Control | 5 |
| **Rel | ated ir | nstruction required for AAS degree and | |
| Certif | ficate | 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.

| Ва | asic Electricity (15 credits) |
|----------|--|
| IST 105 | Basic Electricity – DC Circuit Analysis |
| IST 106 | Basic Electricity – |
| IST 221 | AC Circuit Analysis5 Electronics I (Principles) |
| | |
| | Electronics (15 credits) |
| | Electronics I (Principles) |
| | Electronics II (Applications)5 Electronics III (Industrial) |
| 131 223 | |
| | ustrial Electricity (20 credits) |
| | Industrial Electricity I5 |
| | Electrical Installation Techniques |
| | Industrial Electricity II5 |
| IST 208 | Industrial Electricity III |
| In | strumentation (15 credits) |
| IST 150 | Introduction to Programmable |
| | Logic Controllers 5 |
| IST 170 | Introduction to Instrumentation5 |
| IST 270 | Instrumentation II and |
| | Control Actuators5 |
| Natio | onal Electric Code (6 credits) |
| IST 110 | Introduction to National |
| | Electric Code2 |
| | National Electrical Code II2 |
| IST 112 | National Electrical Code III2 |
| Programm | able Logic Controllers (15 credits) |
| - | Introduction to Programmable |
| | Logic Controllers |
| IST 207 | Industrial Electricity II |
| IST 152 | - |
| | Mathematics |
| Salah Ab | bed 509.793.2145 |

| email: M | ath@bigbend.edu |
|-----------------|-----------------|
| Barbara Whitney | 509.793.2146 |
| Stephen Lane | 509.793.2150 |
| Brinn Harberts | 509-793-xxxx |
| Sonia Farag | 509.793.2152 |
| Salah Abed | 509.793.2145 |

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.

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

Medical Assistant

Kyla Ohs

509-793-2133

email:kylao@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.**

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)

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

Requirements for the Medical Assistant

Program

- a) Letter of intent must be submitted by due date if student wishes to be considered for the fall clinical cohort (MA 111, MA 112, MA 113)
- b) Provide evidence of a satisfactory physical examination before the beginning of MA 112
- c) Provide evidence of a current Healthcare Provider CPR card prior to MA 112**
- d) Provide evidence of up-to-date immunizations and have initiated the Hepatitis B series prior to MA 112

- e) Have a satisfactory criminal background check prior to MA 195

**BBCC's Medical Assistant Program requires CPR cards to be updated annually

Related instruction required for an Associate in Applied Science Degree

| PSYC& CMST& ENGL& FAD MAP | 100 220 101 150 108 | General Psychology | |
|--|---------------------------------|---------------------------------------|--|
| Related instruction required for Certificate of Achievement | | | |
| + Ca | reer l | adder course, required for AAS degree | |
| BUS | 120 | Human Relations on the Job4 | |
| | or | | |
| PSYC& | 100 | General Psychology+5 | |
| CMST | 100 | Human Communications4 | |
| | or | | |
| CMST& | 220 | Public Speaking+5 | |
| ENGL& | 101 | English Composition I+5 | |
| | or | | |
| ENGL | 109 | Applied Technical Writing | |
| FAD | 150 | Industrial First Aid* 2 | |
| MAP | 108 | Applied Mathematics (MA)* | |
| | | | |

Associate in Applied Science Degree

| BIM | 101 | Basic Keyboarding | 2 |
|-------|-----|--------------------------------------|---|
| | or | | |
| BIM | 104 | Intermediate Keyboarding | 3 |
| BIM | 111 | Introduction to Computers in the | |
| | | Medical Office | 3 |
| CMST& | 220 | Public Speaking+ | 5 |
| CSS | 105 | Introduction to Healthcare Studies | 3 |
| ENGL& | 101 | English Composition*+ | 5 |
| FAD | 150 | First Aid-(Healthcare Provider CPR)* | 2 |
| HED | 121 | The Human Body and Disease I | 5 |
| HED | 122 | The Human Body and Disease II | 5 |
| HED | 123 | The Human Body and Disease III | 5 |
| HED | 119 | Medical Terminology | 5 |
| HED | 239 | Medical Ethics | |
| MA | 111 | Clinical Procedures I | 3 |
| MA | 112 | Clinical Procedures II | 4 |
| MA | 113 | Clinical Procedures III | 4 |
| MA | 150 | Pharmacology for Medical Assistants | 3 |
| MA | 195 | Externship/Practicum | 6 |
| MA | 197 | Externship/Practicum Seminar | 1 |
| MAP | 108 | Applied Mathematics (MA)* | 3 |
| NUR | 103 | HIV/AIDS | 1 |
| NUTR& | 101 | Nutrition | 5 |
| PSYC& | 100 | General Psychology+ | 5 |
| | | | |

| PSYC& | 200 | Lifespan Psycholog | jy 5 |
|-----------|------|--------------------|----------------------|
| SOC& | 101 | Intro to Sociology | |
| Electives | abov | e 100 level | |
| | | | Total Credits: 90-91 |

Recommended Program Electives may include:

| EDUC& | 115 | Child Development5 | ; |
|-------|-----|--------------------|---|
| | | | |

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 II |
| HED | 123 | The Human Body and Disease III |
| HED | 119 | Medical Terminology5 |
| HED | 239 | Medical Ethics2 |
| MA | 111 | Clinical Procedures I |
| MA | 112 | Clinical Procedures II 4 |
| MA | 113 | Clinical Procedures III 4 |
| MA | 150 | Pharmacology for Medical Assistants 3 |
| MA | 195 | Externship/Practicum 6 |
| MA | 197 | Externship/Practicum Seminar1 |
| MAP | 108 | Applied Mathematics (MA)* |
| NUR | 103 | HIV/Aids Education1 |
| | | Total Credits: 61-65 |

Music

Michael Dubinsky

insky 509.793.2140 email: Music@bigbend.edu

Associate in Arts and Science Transfer Option

The music department offers a two-year college experience for music majors as well as a variety of courses for the non-major music student.

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 | | | Credits |
|---------------------------------------|-----|--------------------|---------|
| MUSC | 100 | Intro to Music | 5 |
| MUSC& | 105 | Music Appreciation | 5 |
| MUSC | 115 | Group Piano I | 2 |

| MUSC | 116 | Group Piano II2 |
|------|-----|------------------|
| | | Group Piano III |
| | | History of Jazz5 |

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 | Beginning 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 Amber Bravo 509.793.2131 General Program Information

The Nursing program provides an environment in which students are encouraged to develop a systematic approach to problem solving and acquire the knowledge and skill to meet the health needs of the individual, the family and the community during health and/or illness. The programs offer a multi-dimensional series of experiences. The student moves from the simple to the complex while continuing to view the client/patient from the life cycle approach of conception to death. As the student progresses to the next level of learning, the same content area is studied in greater depth, complexity, and application.

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 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 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 direct and 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 from March 15-April 15. 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, 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 Healthcare Provider CPR card **
- c. Have a satisfactory criminal background check
- d. Provide evidence of up-to-date immunizations and have initiated the Hepatitis B series
- e. Provide a current Nursing Assistant Certified license from Washington State
- f. Provide evidence of negative drug testing
 BBCC's Nursing Program requires CPR cards to be updated annually

LPN to ADN Admission

Licensed practical nurses may seek advanced placement in the program. In order to be eligible for advanced placement, the LPN must have met the minimum requirements for the program and have completed all of the other required Level I co-requisite courses prior to admission (See application packet). If space becomes available, the LPN must successfully complete the summer quarter (NUR 140 and NUR 141 in order to enter the fall quarter of the Level II ADN year.

Transfer Students

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

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

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

Associate in Applied Science Nursing Program (ADN)

Successful completion of the ADN program prepares the student to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN). Successful completion of the exam 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 the Accreditation Commission for Education in Nursing, 3342 Peachtree Rd NE, Suite 500, Atlanta, GA 30326; tel 404.975.5000

Prerequisites*

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

*Applicants are required to have a current NAC certification from Washington State

Level I ADN Program

Fall

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

Winter

| NUR | 120 | Beginning Nursing Concepts I | 6 |
|-------|-----|-------------------------------|---|
| NUR | 121 | Beginning Nursing Practicum I | 4 |
| NUR | 136 | Nursing Skills Laboratory | 1 |
| NUTR& | 101 | Nutrition* | 5 |

Spring

| NUR | 130 | Beginning Nursing Concepts II6 | |
|-------|-----|---------------------------------|--|
| NUR | 131 | Beginning Nursing Practicum II4 | |
| NUR | 137 | Nursing Skills Laboratory1 | |
| PSYC& | 100 | General Psychology*5 | |
| | | Total Nursing Credits | |
| | | Total Corequisite Credits15 | |

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 | 210 | Advanced Nursing Concepts I 5 |
|-------|-----|-------------------------------|
| NUR | 211 | Advanced Nursing Practicum I5 |
| NUR | 235 | Nursing Skills Laboratory 1 |
| PSYC& | 200 | Lifespan Psychology*5 |

Winter

| CMST& | 220 | Public Speaking *5 | 5 |
|-------|-----|--------------------------------|---|
| NUR | 220 | Advanced Nursing Concepts II 5 | 5 |
| NUR | 221 | Advanced Nursing Practicum II5 | 5 |
| NUR | 236 | Nursing Skills Laboratory 1 | |
| | | | |

Spring

| MATH | 1xx | Math Course greater than 100 ^{+*} | 5 |
|------|-----|--|---|
| NUR | 230 | Advanced Nursing Concepts III | 5 |
| NUR | 231 | Advanced Nursing Practicum III6 | 3 |
| NUR | 240 | Professional Issues 1 | l |
| | | Total Nursing Credits | ŀ |
| | | Total Corequisite Credits15 | 5 |
| * 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.

Certificate of Achievement Practical Nursing Program

Successful completion of the three quarter Level I Associate Degree Nursing (ADN) Program with the PN summer quarter option prepares the student to take the National Council Licensure Examination for Practical Nursing (NCLEX-PN). Successful completion of the exam and subsequent licensure allows the student to enter the workforce as a Licensed Practical Nurse. The Practical Nursing Program is approved by the Washington State Nursing Care Quality Assurance Commission and the Washington State Board of Community and Technical Colleges.

Fall

| 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 |
| BIOL& | 260 | Microbiology* | 5 |
| | | | |

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 II6 |
|-------|-----|---------------------------------|
| NUR | 131 | Beginning Nursing Practicum II4 |
| NUR | 137 | Nursing Skills Laboratory 1 |
| PSYC& | 100 | General Psychology*5 |

Summer

| NUR | 140 | PN Completion/Transition4 | |
|-------|-----|--------------------------------------|--|
| NUR | 141 | PN Completion/Transition Practicum 8 | |
| CMST& | 220 | Public Speaking *5 | |
| | | Total Nursing Credits 46 | |
| | | Total Corequisite Credits | |
| | | | |

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

BBCC Certificate of Accomplishment Nursing Assistant Program (One Quarter)

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

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

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

Recommended Pre-Major Courses Credits 100 Survey of Anthropology5 ANTH& HIST& 116 Western Civilization I.....5 PHIL& 101 Intro to Philosophy5 PHIL& PHIL PHIL PHIL 240 Philosophy of Religion5 PSYC& 100 General Psychology......5 REL

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 |
|-----|---|--|
| 100 | Survey of Biology | 5 |
| or | | |
| 211 | Majors Cellular | 5 |
| 241 | Human A & P 1 | 5 |
| 242 | Human A & P 2 | 5 |
| 101 | Nutrition | 5 |
| 100 | Lifetime Wellness | 3 |
| 102 | Theory of Basketball | 3 |
| 104 | Theory of Women's Basketball | 3 |
| 105 | Theory of Baseball | 3 |
| 107 | Theory of Volleyball | 3 |
| 114 | | |
| 116 | Golf | 1 |
| 119 | Softball | 1 |
| 122 | Volleyball | 1 |
| 153 | Lifeguard Training | 2 |
| 158 | Racquetball | 1 |
| 178 | • | |
| | or 211 241 242 101 100 102 104 105 107 114 116 119 122 153 158 | or 211 Majors Cellular 241 Human A & P 1 242 Human A & P 2 101 Nutrition 100 Lifetime Wellness 102 Theory of Basketball 104 Theory of Women's Basketball 105 Theory of Baseball 105 Theory of Volleyball 107 Theory of Volleyball 114 Basketball 116 Golf 119 Softball 122 Volleyball 122 Volleyball 153 Lifeguard Training 158 Racquetball |

Physics

Jim Hamm

509.793.2147

email: phy@bigbend.edu

Associate in Science Degree

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

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

Associate in Arts and Science Transfer Option

Physics is the study of nature at its most fundamental level. It is the science upon whose principles all other sciences and technologies are based.

Courses offered are designed to introduce the student to each of the major physical theories — Newtonian mechanics, thermodynamics, waves, sound, optics, electricity, and magnetism. There may also be an exposure to special relativity and quantum theory. The student tests the theories in the laboratory, learning some of the standard experimental techniques needed to work with modern apparatus such as computers and various electronic devices.

The curriculum is designed to prepare students transferring to a four-year college or university with majors in the following: chemistry, mathematics, physics, engineering, computer science, and related physics fields.

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

| Recommended Pre-Major Courses | | | Credits |
|-------------------------------|-----|------------------------|---------|
| CHEM& | 161 | General Chem w/Lab I | 5 |
| CHEM& | 162 | General Chem w/Lab II | 5 |
| CHEM& | 163 | General Chem w/Lab III | 5 |
| MATH& | 151 | Calculus I | 5 |
| MATH& | 152 | Calculus II | 5 |
| MATH& | 163 | Calculus 3 | 5 |
| MATH | 220 | Linear Algebra | 5 |

Political Science

Chris Riley

509.793.2184

email: chrisr@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 should prepare their quarterly schedules with the assistance of an advisor knowledgeable in this transfer area.

| Recommended Pre-Major Courses | | | Credits |
|-------------------------------|-----|----------------------------|---------|
| CJ& | 110 | Criminal Law | 5 |
| ENGL& | 101 | English Composition I | 5 |
| HIST& | 136 | US History 1 | 5 |
| HIST& | | US History 2 | |
| MATH& | 146 | Introduction to Statistics | 5 |
| PHIL& | 101 | Intro to Philosophy | 5 |
| PHIL& | 210 | Ethics | 5 |
| POLS& | 202 | American Government | 5 |
| POLS& | 203 | International Relations | 5 |

Psychology

Ryann Leonard

509.793.2183

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.

| Recommended Pre-Major Courses Ci | | | |
|----------------------------------|-----|---------------------------------|----|
| 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 | า5 |
| 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.

| Recommended Pre-Major Courses | | | 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 |

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& SOC& SOC& SOC | | d Pre-Major Courses General Psychology Intro to Sociology Social Problems Marriage and the Family | 5 5 |
|--|---------|---|--------|
| Recomm | 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 | |
| HUM | 214 | Diversity Issues: Race, Class | |
| | | and Gender | 5 |
| MATH& | 146 | Introduction to Statistics | 5 |
| POLS& | 202 | American Government | 5 |
| POLS& | 203 | International Relations | 5 |
| REL | 201 | World Religions | 5 |
| REL | 211 | Religion in America | |
| | | | |

Social Welfare

Associate in Arts and Science Transfer Option

Social welfare is a course of study about our society's response to human need. This program is designed to enhance student awareness and understanding of the fields of social welfare and social work and their response to this human need. Social welfare is a valuable major for those seeking careers in such fields as services to families, health care, mental health, corrections, gerontology, law, drug and alcohol rehabilitation, vocational rehabilitation, the clergy, and industry. Although a two-year degree with emphasis in this area may aid employment in the social welfare system, students should be prepared to continue their education through a bachelor's degree in social work at a four-year institution.

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

Recommended Pre-Major Courses

| CJ& | 101 | Intro Criminal Justice5 |
|-------|-----|-------------------------------|
| PSYC& | 100 | General Psychology5 |
| SOC& | 101 | Intro to Sociology5 |
| SOC& | 201 | Social Problems5 |
| SOC | 220 | Marriage and the Family5 |
| SOCW | 110 | Introduction to Social Work 5 |

Related General Education Courses

| HIST& | 136 | US History 15 |
|-------|-----|----------------------|
| | | US History 25 |
| | | American Government |
| PSYC& | 200 | Lifespan Psychology5 |

Welding

| Clint Gilbert | 509.793.2268 |
|----------------|--------------|
| Shawn McDaniel | 509.793.2262 |

email: wld@bigbend.edu 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) |
| | | |

First Year Fall Quarter

| MAP 1 | 01 | Applied Mathematics (AUT/WLD) ** | 5 |
|-------|----|-----------------------------------|---|
| WLD 1 | 10 | Welding Theory I | 5 |
| WLD 1 | 11 | Welding Process I* | 6 |
| WLD 1 | 12 | Thermal Cutting and Welding* | 3 |
| WLD 1 | 51 | Technical Drawings Interpretation | 3 |

Winter Quarter

| FAD | 150 | Industrial First Aid**2 |
|-----|-----|-------------------------|
| WLD | 120 | Welding Theory II 5 |
| WLD | 121 | Welding Process II 6 |
| WLD | 122 | Gas Metal Arc Welding I |
| WLD | 152 | Welding Layout I 3 |
| | | |

Spring Quarter

| WLD | 130 | Welding Theory III 5 |
|-----|-----|----------------------------------|
| WLD | 131 | Welding Process III |
| WLD | 132 | Gas Tungsten Arc Welding I (TIG) |
| WLD | 153 | Welding Layout II3 |

Second Year

Fall Quarter

Structural Welding Option

| ENGL | 109 | Applied Technical Writing** |
|------|-----|-----------------------------|
| WLD | 205 | Weld Test Methods4 |
| WLD | 212 | Gas Metal Arc Welding II |
| WLD | 241 | Structural Weld Process I |

Production Welding Option

| ENGL | 109 | Applied Technical Writing** |
|------|-----|-----------------------------|
| WLD | 205 | Weld Test Methods4 |
| WLD | 212 | Gas Metal Arc Welding II3 |
| WLD | 261 | Production Weld Process I |

Pipe Welding Option

| ENGL | 109 | Applied Technical Writing** |
|------|-----|-----------------------------|
| WLD | 205 | Weld Test Methods4 |
| WLD | 212 | Gas Metal Arc Welding II3 |
| WLD | 281 | Pipe Welding I6 |

Winter Quarter Structural Welding Option

| CMST | 100 | Human Communications**4 |
|------|-----|-------------------------------|
| WLD | 206 | Welding Codes and Standards 4 |
| WLD | 242 | Structural Welding I |
| WLD | 243 | Structural Weld Process II |

Production Welding Option

| CMST | 100 | Human Communications** |
|------|-----|------------------------------|
| WLD | 206 | Welding Codes and Standards4 |
| WLD | 262 | Production Welding I |
| WLD | | Production Weld Process II |

Pipe Welding Option

| CMST | 100 | Human Communications**4 |
|------|-----|-------------------------------------|
| WLD | 206 | Welding Codes and Standards4 |
| WLD | 282 | Gas Tungsten Arc Welding II (TIG) 3 |
| WLD | 283 | Pipe Welding II |

Spring Quarter Structural Welding Option

| BUS | 120 | Human Relations on the Job**4 |
|-----|-----|-------------------------------|
| WLD | 207 | Welding Metallurgy4 |
| WLD | 244 | Submerged Arc Welding3 |
| WLD | 245 | Structural Weld Process III |

Production Welding Option

| BUS | 120 | Human Relations on the Job**4 |
|-----|-----|-------------------------------|
| WLD | 207 | Welding Metallurgy4 |
| WLD | 264 | Advanced Weld Process |
| WLD | 265 | Production Weld Process III |

Pipe Welding Option

| BUS | 120 | Human Relations on the Job**4 |
|-------|-----|--------------------------------------|
| WLD 2 | 207 | Welding Metallurgy4 |
| WLD 2 | 284 | Gas Tungsten Arc Welding III (TIG) 3 |
| WLD 2 | 285 | Pipe Welding III6 |

Program Elective

Students must meet with their faculty advisor before enrolling in Work-Based Learning

| WLD | 190 | Skills Improvement1-6 | |
|---|-----|-------------------------------|--|
| WLD | 290 | Skills Improvement1-6 | |
| WLD | 295 | Work-Based Learning1-4 | |
| WLD | 297 | Work-Based Learning Seminar 1 | |
| *Tech Prep credit available | | | |
| Note: Skill level improvement classes are not required, but may be needed to achieve desired skill levels. See the program advisor. | | | |

2015-2016 Course Catalog

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** | , |
| FAD | 150 | Industrial First Aid **2 | |
| MAP | 101 | Technical Math (AUT/WLD)**5 | , |
| WLD | 110 | Welding Theory I5 | , |
| WLD | 111 | Welding Process I*6 | |
| WLD | 112 | Thermal Cutting and Welding* 3 | , |
| WLD | 120 | Welding Theory II 5 | , |
| WLD | 121 | Welding Process II6 | |
| WLD | 122 | Gas Metal Arc Welding I3 | , |
| WLD | 132 | Gas Tungsten Arc Welding I (TIG) 3 | , |
| WLD | 151 | Technical Drawings Interpretation | , |
| WLD | 152 | Welding Layout I 3 | , |
| *Tech Prep 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.

BBCC upon request by application, may issue a Certificate of Accomplishment upon successful completion of the following approved modules with an earned minimum grade of 2.0 for each course. Individual or substitute courses may be certified upon approval by the WLD program advisor.

| WLD | 110 | Welding Theory I | . 5 |
|-----------------------------|-----|-----------------------------------|-----|
| WLD | 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 |
| *Tech Prep credit available | | | |

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.

Quarter Designations

Fall (F) Winter (W) Spring (S) Summer (Su) Courses are offered as indicated by quarter designations. Scheduled offerings by quarters are subject to change.

Associate in Arts and Science Degree Codes

| HU |
|-----|
| HP |
| SS |
| LS |
| MS |
| NS |
| SE |
| AC |
| SQR |
| |

Common Course Numbering

In an effort to ease student transfer between Washington community and technical colleges the colleges, as directed by the presidents, developed a common course numbering system. Courses that are common across the community and technical college system have the same course prefix, number and title. The prefix on common courses includes the "&" at the end, e.g. ENGL&. Please note that because a class does not have the "&" it does not mean that the class does not transfer. Students needing a sequence of science classes for their major, e.g. BIOL& 241 and 242, are advised to complete the entire sequence at Big Bend. Individual classes within a sequence will not always transfer as easily as they do when all are taken at one college.

Accounting

ACCT 105 Introduction to Accounting 5 (55/0) This course provides the student with an introductory level understanding of the fundamentals of bookkeeping and accounting. The student is provided the procedures for completing the accounting cycle for both a service entity and a merchandising entity within a single proprietorship. Tech Prep credit available. (F, W, S) 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 (F, W) SE

ACCT& 202 Prin of Accounting II 5 (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 (W, S) 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 (S, Su) 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 (S)

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 (S)

ACCT 261 Introduction to Peachtree Accounting®

(5.5/11)

This course offers an introduction to Peachtree Accounting®, one of the accounting software packages 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 Peachtree Accounting®. Prerequisite: ACCT& 201 or prior business or accounting experience recommended

ACCT 262 Introduction to QuickBooks®

(11/22)

2 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 006 Preparing for the World of Work

This basic skill level course will prepare individuals to re-enter, transition, or enhance employment. Instruction consists of self-paced basic keyboarding, workplace writing, career exploration, and personnel management activities. This class may be repeated for up to 27 credits.

DVS 011 Adult Basic Skills. Level 1

This basic skills course is for individuals whose skills are at Beginning Literacy/Pre-Beginning level (Washington Learning Standard 1 in reading, writing or arithmetic) determined by CASAS scores 200 and below. Students will focus on highly structured and contextualized activities to improve their writing, reading and arithmetic/ numeracy skills and to obtain the knowledge and skills necessary for work, further education and family selfsufficiency

DVS 012 Adult Basic Skills, Level 2

The main goal of this course is to assist students to improve their reading, writing and math skills in order to advance to the next NRS Educational Functional level as determined by the CASAS Levels and to obtain the knowledge and skills necessary for work, further education and family self-sufficiency.

Prerequisite: This course is designed for students with a CASAS score between 201-210 in reading or math.

DVS 013 Adult Basic Skills, Level 3

The main goal of this course is to assist students to improve their reading, writing and math skills in order to advance to the next NRS Educational Functional level as determined by the CASAS Levels and to obtain the knowledge and skills necessary for work, further education and family self-sufficiency. Prerequisite: This course is designed for students with a CASAS score between 211-220 in reading or math.

DVS 014 Adult Basic Skills, Level 4

The main goal of this course is to assist students to improve their reading, writing and math skills in order to advance to the next NRS Educational Functional level as determined by the CASAS Levels and to obtain the knowledge and skills necessary for work, further education and family self-sufficiency. Prerequisite: This course is designed for students with a CASAS score between 221-235 in reading or math.

DVS 020 Basic GED Preparation, ABE Level 5

The main goal of this course is to assist students to improve their reading, writing and math skills in order to advance to the next NRS Educational Functional level as determined by the CASAS Levels or take the Official GED Test and to obtain the knowledge and skills necessary for work, further education and family selfsufficiency. Students performing at this level are ready to exit the program or continue their education. Prerequisite: This course is designed for students with a CASAS score between 221-235 in reading or math.

021 Advanced GED Preparation, ABE Level 6 DVS The main goal of this course is to assist students to improve their reading, writing and math skills in order to advance to completing GED Testing, transitioning into college, completing the High School Diploma or securing employment. Students performing at this level are ready to exit the program or continue their education. Prerequisite: This course is designed for students with a CASAS score between 246 and above in reading or math.

DVS 026 Preparation for Training

This 12 module course covers stress management and time management, job search strategies, leadership and teamwork, communication and interpersonal skills, money management, effective workplace habits and human relations on the job, building a resume and cover letter that gets noticed, workplace professionalism, business and lifetime etiquette, networking and interviewing, balancing work and family, self-awareness and personal accountability, and service learning and goal setting. It offers practical application of information that strengthens the skills of participants and enhances their employability and effectiveness in the workplace.

DVS 030 English as a Second Language, Level 1 This basic skills level course is for students whose first language is not English. Pre-literate participants study survival speaking, listening, letter and word recognition in preliterate English. Individuals may enroll in the course at any time during the quarter. This course may be repeated for up to 32 credits.

DVS 031 English as a Second Language, Level 2

This basic skills level course is for students whose first language is not English. Beginning level participants study survival speaking, listening, reading, and writing in English to be able to perform basic communicative tasks at work, at home and in their community. Individuals may enroll in the course at any time during the quarter. This course may be repeated for up to 32 credits.

DVS 032 English as a Second Language, Level 3 This basic skills level course is for students whose first language is not English. High-beginning level participants study speaking, listening, reading, and writing to be able to perform routine communicative topics at work, at home and in their community. Individuals may enroll in the course at any time during the quarter. This course may be repeated for up to 32 credits.

DVS 034 English as a Second Language, Level 4

This basic skills level course is for students whose first language is not English. Intermediate level participants study speaking, listening, reading, writing, and arithmetic in English so they may perform a variety of familiar and unfamiliar communicative topics at work at home, and in their community. Individuals may enroll in the course at any time during the quarter. This course may be repeated for up to 32 credits. **DVS** 035 English as a Second Language, Level 5 This basic skills level course focuses on refining communication skills in listening, reading, writing, and speaking to prepare participants for active community and family life as well as increased responsibilities on the job. Learners will increase proficiency in using computers to access relevant information to fulfill roles as workers, citizens, and family members.

DVS 036 English as a Second Language/Citizenship This basic skills level course is for students whose first language is not English, and who are preparing for the United States naturalization examination. Participants study speaking, listening, reading, and writing in English using U.S. history, government and citizenship themes. Individuals may enroll in the course at any time during the quarter. This course may be repeated for up to 32 credits

DVS 037 English as a Second Language, Level 6

This basic skills level course focuses on communications skills necessary to function effectively as family members, workers and citizens. Learners will use analytical thinking skills to assess and evaluate intent, purpose, and bias of oral, written and electronic information. Learners will utilize computers to be able to access information and complete assignments.

DVS 041 American History I

A survey of American history to 1877 (Specifically for high school credit). Prerequisite: Permission of high school or BBCC advisor recommendation

DVS 045 American History II

A survey of American history from 1848 to 1984 (Specifically for high school credit). Prerequisite: Permission of high school or BBCC advisor recommendation

DVS 046 Contemporary World Problems/American Government

This class provides a survey of the origins, structures and powers of federal, state and local government with an emphasis on the way people participate in the decisions of government. (Specifically for high school credit.) Prerequisite: High school permission and high school reading level

DVS 048 Pacific Northwest History

This class is designed to provide a comprehensive treatment of the history, economy, geography and people of the Pacific Northwest. (Specifically for high school credit.)

DVS 049 World History and Cultures

This class provides a comprehensive overview and treatment of world history and cultures. It illustrates and elucidates the variety of factors that influence people and events around the world and throughout history. (Specifically for high school credit.)

- DVS 050 English/Writing/Portfolio
- DVS 051 Basic Skills, Math
- DVS 052 Social Studies
- DVS 053 Science
- DVS 060 Applied Science Curriculum

This course presents a review of earth, life, and physical sciences and the resources available to understand their role in human life. Students participate in the analysis, discussion and application including how to apply scientific facts to daily living.

DVS 080 College Transitions Math

Review and instruction in whole numbers, decimals, fractions, geometry, and integers. Learn strategies to deal with math anxiety and test taking. Students should note this course does not count towards credit total for financial aid eligibility. Prerequisite: Placement exam or instructor permission. (Formerly: MATH 080)

Agriculture

AGR **100** Introduction to Agriculture 5 (55/0) This course is an introductory survey of today's agriculture with special emphasis placed on agriculture in the Columbia Basin. Topics will include agronomy & soils, agri-business, animal science, environmental science, and technology management. Principles related to agricultural safety and leadership will be emphasized in conjunction with all topics. Tech Prep credit available. Offered variable guarters.

AGR 130 Introduction to Global Positioning Systems (GPS) 5 (33/44)

This course introduces students to the application of Global Positioning Systems (GPS) and Geographic Information Systems (GIS) in agriculture and natural resource management. The course will focus on identification and delineation of specific areas emphasizing data collection, analysis, storage/retrieval of site and time-specific data for agriculture and natural resource management monitoring.

AGR 131 Advanced Global Positioning Systems (GPS) 5 (33/44)

This course covers the advanced application of Global Positioning Systems (GPS) and Geographic Information Systems (GIS) in agriculture and natural resource management. The course includes the advanced topics of data dictionaries, differential GPS and linking GPS to Geographic Information Systems. Prerequisite: AGR 130

AGR 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. Prerequisite: ECON& 201 (F)

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. (W)

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. (F)

AGR 263 Soils (44/22) 5 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. (S)

AGR 271 Agriculture Sales and Marketing

(55/0)

5 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. (S)

AGR 272 Sustainable Agriculture and Food Systems (55/0)

Examination of social, economical and ecological consequences of the modern, industrial agriculture paradigm. Topics include history of agriculture, world views, the sustainability concept, alternative agriculture systems, world food systems, agroecology, ecological economics, biotechnology, local food systems and the geography of hunger. (W)

AGR 295 Work-Based Learning 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. May be repeated up to twelve (12) credits. (F,W,S,Su)

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. May be repeated up to six (6) credits. (F,W,S,Su)

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 (8/8) 104 ARFF Officer Development 1 This airport rescue fire fighting officer development course covers strategic and tactical considerations in a hands-on, live-fire ground environment, as well as leadership training. Prerequisite: Current employment in firefighting industry for future or Commissioned Fire Officers.

Anthropology

(55/0)

ANTH& 100 Survey of Anthropology 5 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. (F,W,S,SU) HU

ART 101 Design I

(44/22)

5 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 (F) HP

ART 102 Design II (44/22)5 An introduction to the study of color theory explored through projects. Design I, II, and III can be taken in any order. (W) HP

ART 103 Design III 5

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. (S) HP

(44/22)

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. (F) 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.(W) HP

ART106 Drawing III5(44/22)An introduction to drawing from the figure using a live
model. (S)HP

ART121 Ceramics I2-5 (11-44/22)Experiments and design in clay applied to pottery and
sculpture. Work in various hand construction methods,
glazing and kiln firing. (F,W,S) HP

ART122 Ceramics II2-5 (11-44/22)Ceramics II continues in experiments and design in clay
applied to pottery and sculpture by throwing on the pot-
tery 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

ART198Special Projects1-5(Arr/Arr)Special projects in art - individual projects by special

arrangement with instructor. Prerequisite: instructor permission HP

ART212 American Art5(55/0)Beginning with the era of the colonization of NorthAmerica by European nations and ending with the 20thcentury, this course will trace the development of art inthe United States. HU

ART 216 Western Art: Ancient to Medieval

(55/0)

5

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

ART221Watercolor I1-5(11-44/22)The study of water color painting from still life and nature
with an introduction to the materials and techniques of
watercolor paintingHP

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. Prerequiste: ART 221 or instrucotr's 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

ART231Oil Painting I5(44/22)Introduction to the materials and techniques of oil paint-
ing. Painting from still life and nature using creative
compositions.HP

ART232Oil Painting II5(44/22)Continuation of exploration in oil painting materials and
techniques with an emphasis on developing content
or message in the paintings. Prerequisite: ART 231 or
instructor permission. HP

ART 233 Oil Painting III 5 (44/22)

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 (F,S) NS

ASTR& 101 Intro to Astronomy5(44/22)A survey course intended for the non-science major.Topics studied will include most of the following: histori-
cal 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 (F,S)

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. (Su) SE

Automotive Technology

AUT 069 Chassis Component Repair 2 (11/22) Prerequisite/Corequisite: AUT 115 or instructor permission

A laboratory class providing the opportunity to diagnose and repair various automotive chassis components. A hands-on approach is used to provide training in the repair of various automotive components.

AUT 081 Mechanical Diagnosis and Repair

(11/22)

2

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 use of personal computers using automotive applications. Hardware components, Windows Operating System, keyboarding and word processing will be covered emphasizing hands-on experience. Prerequisite/Corequisite: Concurrent enrollment in automotive program classes (S)

AUT 111 Automotive Engine Service 9 (66/66) This course covers the theory of engine operation and the procedures necessary to perform automobile engine troubleshooting, repair and rebuilding. Topics covered include shop skills, engine operation, engine blocks, engine crankshafts, engine bearings, engine pistons, rings and valve system service. This course is designed to prepare the student for the ASE/NATEF Engine Repair Certification test. Prerequisite/Corequisite: AUT 115 (F)

AUT 115 Automotive Shop Safety and Environmental Issues 1 (11/1)

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. (F, by arrangement in W, S)

AUT 121 Automotive Electrical and Electronic Systems 15 (110/110)

This comprehensive course covers both theory and operation of the electrical systems in today's high-tech vehicles. Topics covered include D.C. electrical theory, D.C. circuitry, Ohms Law, solid state components, batteries, starting circuits, charging circuits, lighting circuits, vehicle wiring and ignition systems. Emphasis will be placed on using modern electrical test equipment and procedures to diagnose and repair complex electrical systems. This course is designed to prepare the student for the ASE/NATEF Electrical Systems Certification test. Prerequisite/Corequisite: AUT 115 (W)

AUT 124 Brake System Service 9 (66/66)

This course covers the theory, operation, diagnosis and repair of both conventional and anti-lock brake systems. Topics covered are hydraulic operating systems, drum brake systems, disc brake systems, emergency/parking brake systems and brake machining operations. This course is designed to prepare the student for the ASE/ NATEF Brakes Certification test. Prerequisite/Corequisite: AUT 115 (S)

AUT 125 Suspension, Steering and Alignment

(66/66)

9

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 (S)

AUT 131 Manual Drive Train and Axles 8 (55/66) This course covers the theory, operation, diagnosis and repair of automotive clutch systems, manual transmissions, manual transaxles, front and rear drive axle operation, various drive shaft configurations and the procedures necessary to perform power train troubleshooting and repair. This course is designed to prepare the student for the ASE/NATEF Manual Drive Train & Axles Certification test. Prerequisite/Corequisite: AUT 115 (F)

AUT 132 Hydraulic Systems 3 (22/22) This course provides a student with the skills and knowledge necessary to maintain and service various hydraulic power transmission systems. Topics covered include hydraulic fundamentals, system operation, pump, valve and actuator service, as well as, seals, lines and hydraulic system components. Prerequisite: AUT 115 (W)

AUT 190, 290 Projects Laboratory 2 (0/44) This course is for full-time automotive students who need extra project laboratory time to update or enhance their skills to meet program or certification requirements. Students will be directed to complete ASE/NATEF tasks not completed in the day classes. (May be repeated for credit up to six credits for each course; graded on pass/ fail basis). Prerequisite: Concurrent enrollment in first or second year automotive program classes (F, W, S)

AUT 211 Automobile Convenience Systems

(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 (S)

AUT 212 Automatic Transmission Repair

9 (66/66) on, service, and

This course covers the theory, operation, service, and repair of various automatic transmission and transaxle assemblies. Classroom and laboratory instruction provide in-depth training using modern test equipment in the diagnosis and repair of these complex systems. This course will prepare students for the ASE/NATEF Automatic Transmission Repair Specialists test. Prerequisite: AUT 115, 121, 131, 132 or instructor permission (W)

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 (W)

AUT 220 Engine Performance 18 (132/132) This comprehensive course covers the theory and operation of various ignition systems, fuel delivery systems, emission controls, computerized engine controls, and the use of diagnostic test equipment. Classroom and laboratory lessons provide in-depth training using modern test equipment to diagnose and repair these complex systems. This course is designed to prepare students for the ASE/NATEF Engine Performance test. Prerequisite: AUT 115, 121, or instructor permission (F)

AUT 223 Automotive Servicing II 6 (0/132) Students, at the direction of the instructor, work on customer vehicles applying skills learned in previous automotive classes. Students will be required to complete ASE/NATEF tasks not completed in other courses. Customer relations, repair order preparation, scheduling, estimating, utilization of shop space and equipment, and hazardous waste management are covered to provide students with an understanding of repair shop operations. Prerequisite: Instructor permission or completion of first year automotive classes

AUT 231 Automotive Heating and Air Conditioning 6 (33/66)

This course covers the diagnosing, servicing and repair of modern vehicle heating and air conditioning systems. Classroom and laboratory lessons provide training and experience using modern refrigeration servicing and recycling equipment necessary to meet environmental regulations. CFC-12 and HFC-134A systems and equipment are utilized and retrofitting following Environmental Protection Agency guidelines is discussed. This course is designed to prepare the student for the ASE/NATEF Heating and Air Conditioning test. Prerequisite: AUT 115, 121, or instructor permission (S)

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 (F)

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. (W) NS

AVF114 Theory of Flight5(55/0)This course covers basic aerodynamic theory of flight,
aircraft instruments, performance, stability, control, air-
frame 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. (S)

AVF 131 Private Pilot Helicopter Stage I 4 (44/0) The student will be instructed in the basic flying procedures and skills necessary for the first solo flight in a helicopter. Prerequisite: Possess a valid student Pilot Certificate and hold a current medial certificate originally issued as a Class I or II.

AVF 132 Private Pilot Helicopter Stage 2 4 (44/0) The student will continue development of flying skills to include solo flight, confined area operations, slope operations, night flying, and cross country navigation in a helicopter. Prerequisite: AVF 131

AVF 133 Private Pilot Helicopter Stage 3 4 (44/0) The student shall gain proficiency and skill in maneuvers and navigation to the level of the Private Pilot Helicopter Practical Test standards, and will complete certification requirements of the Private Pilot Certificate – Helicopter. Prerequisite: AVF 132

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. (F, W)

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 (F, W, S,) 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 (W, S)

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 (F, W, S, Su)

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 (W)

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 (F)

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 (S)

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. (S)

AVF 231 Commercial Pilot- Helicopter Stage 4 4 (44/0)

The student shall gain proficiency and skill in commercial pilot scenarios and build additional cross country flight experience in a helicopter. Prerequisite:(Concurrent enrollment in instrument and commercial course required.)

Students enrolling in this flight course must possess a valid private pilot certificate rotorcraft – helicopter and hold a current medical certificate originally issued as a class I or II.

AVF 232 Commercial Pilot Helicopter Stage 5 4 (44/0)

The student will continue to develop the aeronautical skill and experience necessary to meet the requirements for the Commercial Pilot Certificate with a Rotorcraft category rating. Prerequisite: AVF 231

AVF 234 Turbine Transition Helicopter-Ground 1 (11/0)

This course prepares students for flight in turbine powered helicopters. Use of turbine performance charts, performance limitations; understanding of turbine aircraft specific systems including electrical, hydraulic flight controls, avionics, and powertrain. Understanding of turbine specific emergency operations. Prerequisite: AVF 112, AVF 131

AVF 235 Turbine Transition Helicopter Flight 4 (0/88)

The student will be instructed in the basic flying procedures of a turbine powered helicopter. Special emphasis will be placed on aircraft performance, limitations, and emergency procedures. Prerequisite: AVF 131, AVF 234

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 (F, W, S)

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 (F, W, S)

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 (F, W, S)

AVF254 Night Flying1(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
(F, W, S)

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 (F, W, S)

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. (F, W, S)

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 (F, S) AVF275 Multi-Engine Flight2(22/0)Preparation for the FAA Multi-Engine rating.Prerequisite:Commercial Pilot Certificate and Chief Pilot approval(F, W, S)

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. (F, W, S)

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

AVF292A.T.P.: Multi-Engine1(11/0)Prepares the student for FAA A.T.P. flight check.Prerequisite: Commercial/Instrument. M.E., 1500 hours, ATPknowledge 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

(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)

AMT

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 (F, W)

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 (F, W, S, Su)

152 Airframe Mechanic II AMT 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 (F, W, S, Su)

4-24 AMT 153 Airframe Mechanic III

(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. (F, W, S, Su)

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) 4-14

(22-66/44-176)4-16

AMT 253 Powerplant Mechanics III (22-88/44-176)

252 Powerplant Mechanics II

As required by the Federal Aviation Administration, the powerplant program is a minimum of 750 hr. of instruction with approximately 25% of the instruction in a classroom environment and 75% of the instruction in a lab environment. There is approximately 30 hours of extra time at the end of the powerplant program, which is to be used for make-up time or for further competency enhancement. This course is FAA approved under 14 CFR Part 147.

This course will cover two areas:

- (1) Powerplant theory and maintenance, including the inspection, repair, overhaul, service, troubleshooting, removal, and installation of aircraft reciprocating and turbine engines.
- (2) Powerplant systems and components, including the inspection, repair, overhaul, service, troubleshooting, removal, and installation of aircraft reciprocating and turbine engine instrument, fire protection, electrical, lubrication, ignition, starting, fuel metering, induction, airflow, cooling, exhaust, propellers, unducted fans, and auxiliary power unit systems. Prerequisite: Instructor permission (F, W, S, Su)

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. Prereguisite: AMT 251 and instructor permission (F, W, S, Su)

Biology

BIOL& 100 Survey of Biology 5 (44/22) A study of basic biological principles common to living organisms, this course is intended for non-majors who desire a lab science requirement. Topics of study include: scientific thinking, basic chemistry, cell structure and membrane transport, energy and cell pathways, DNA and gene expression, chromosomes and cell division, genes and inheritance, and evolution and natural selection. Related investigations take place in a required two-hour lab period each week. There will be no required dissections in the laboratory. (F, W, S, Su) 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 (44/22)5 A single quarter of majors cellular biology, this course is intended for students pursuing careers in the allied health fields and satisfies the biology prerequisite for A&P 1 (BIOL& 241) and Microbiology (BIOL& 260). Topics of study include: structure and function of biological molecules, structure and function of prokaryotic and eukaryotic cells, membrane transport, energetics and cell metabolism, cell communication, chromosome structure and replication, gene expression, cell division, classical genetics, and evolution. Math/Science distribution requirement may not include more than 5 credits from BIOL& 211 and BIOL& 222 although graduation credit can be awarded for both. Related investigations take place in a two-hour lab period each week. Prerequisite: Successful completion of either CHEM& 121 or CHEM& 161 with a 2.0 or better, recent high school chemistry with a B or better, or instructor permission. High school biology strongly recommended. Note: A minimum grade of 2.0 in this class is required for entry into BIOL& 241 and BIOL& 260. (F, W, S) LS

BIOL& 221 Majors Ecology/Evolution (38.5/33)5 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. (F) LS

5 BIOL& 222 Majors Cell/Molecular (38.5/33)TThe second quarter in a three-quarter general biology series, this series is designed for life-science majors, for pre-professional students, and for students intending to take advanced courses in the biological sciences. Topics of study include: structure and function of biological molecules, structure and function of prokaryotic and eukaryotic cells, membrane transport, energetics and cell metabolism, cell communication, chromosome structure and replication, gene expression, cell division, classical genetics, and developmental genetics. Math/Science distribution requirement may not include more than 5 credits from BIOL& 211 and BIOL& 222 although graduation credit can be awarded for both. Related investigations take place in a three-hour lab period each week. NOTE: This majors' biology sequence may be taken in the following order: BIOL& 222, 223, and 221, with instructor's permission. Prerequisite: Successful completion of BIOL& 221 with a 2.0 or better and successful completion of either CHEM& 121 or CHEM& 161 with a 2.0 or better, or instructor's permission. NOTE: Students taking only BIOL& 222 as an alternative to BIOL& 211 must have instructor permission and may satisfy the CHEM& 121 prerequisite with recent high school chemistry with a B or better. (W) 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 (S) LS

BIOL& 241 Human A & P 1

(33/44)

BOT

130 Botany

5

An analysis of the structure and function of human skeletal, muscular, nervous and endocrine systems as well as the role of receptor-ligand interactions and introductory histology. Emphasis will be given to the homeostatic relationships between systems. Four hours of lab per week will be devoted to hands-on experience with required cat dissection as well as computer analysis of muscle physiology. Tissue slides, models and skeletons will be utilized. Lab is required for credit. Prerequisite: Students may qualify for BIOL& 241 in any one of the following ways:

- a grade of 2.0 or better in BIOL& 211 or BIOL& 222 and in CHEM& 121 or above, or a transcript from another college for those classes
- a year of high school anatomy & physiology and chemistry within the last 2 years with a grade of B or better
- a score of 3 or better in Advanced Placement Biology and a year of high school chemistry within the last 2 years with a B or better. Instructor permission (F,W) LS

BIOL& 242 Human A & P 2 5 (33/44) The second quarter of a two-quarter sequence. Includes the structure, function and pathology of the 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 human autopsy slides, required hands-on experience with cat and organ dissection, and experimental procedures in cardiovascular function, and computer analysis of renal function. Lab is required for credit. Prerequisite: A minimum grade of 2.0 in BIOL& 241 or equivalent or Instructor permission (W,S) LS

BIOL& 260 Microbiology

(33/44)

5

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 last2 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 (F,S) LS

Botany

(44/22)

5

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. (W) LS

BOT (33/44)140 Field Botany 5 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. (S) 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. (F, W, S) 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 (F, W, S) Tech Prep credit available

BUS 114 Business Ethics 5 (55/0) This course studies and analyzes ethical issues facing the world of business and society today and identifies approaches available when dealing with or resolving complex ethical issues. (F) **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 (F, W, S)

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

(F, W, S)

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 (F, S)

BUS 130 Introduction to Hospitality 5 (55/0) The students will learn the structure and operations of the three key sectors in the hospitality industry (food and beverage, lodging, and travel), the economic impact of the industry, and career options.

BUS 135 Fundamentals of Logistics, Transportion, and Supply Chain Managemnt

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, and outbound logistics with regard to transportation.

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. (W) Tech Prep credit available. BUS 170 Consumer Finance 5

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. (S)

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. (F, W, S) SE

BUS215 Customer Service3(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 reten-
tion, 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 (F, W, S)

BUS 297 Work-Based Learning Seminar

(11/0)

(55/0)

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. (F, W, S)

Business Information Management

(All BIM courses were formerly OFF)

BIM 100 Word Processing for Personal Use 1-3 (0/22-66)

This course gives a brief introduction to Microsoft Word. It is intended for students not majoring in the Business Information Management Program. Tech Prep credit available. (F, W, S) **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. (F,W,S)

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 Tech Prep credit available. (F,W,S)

BIM 103 The Administrative Professional 2 (0/44) 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 (F,W,S)

BIM 106 Advance Keyboarding 1-3 (0/22-66) This course gives emphasis to improving keyboarding speed and accuracy. Prerequisite: BIM 104

BIM 108 Introduction to Microsoft Applications 3 (33/0)

This course is an introduction to the Microsoft Office 2010 Suite. Students will learn the principles and underlying concepts of spreadsheets, databases, word processors, multimedia presentations, and browsers. This course is not intended for Business Information Management majors. (F,W,S,Su)

BIM 109 Internet Communications 1-3 (0/22-66) This course will teach the functions of email communications and the fundamental use and sharing of Web Applications.

BIM 110 Microsoft Office 2010 Essentials 3 (0/66) This course is an introduction to Microsoft Office Suite 2013. This course is not intended for Business Information Management majors. Credit cannot be earned in both BIM110 and BIM108.

BIM 111 Introduction to Computers in the Medical Office 1-3 (0/22-66)

This course covers the general flow of information in a medical office and the role that computers play. Students will learn how to use medical office software for activities such as entering data, billing, filing claims, scheduling, and printing reports. Prerequisite: Basis computer knowledge **BIM 112 Proof & Edit 1-3 (0/22-66)** This course gives students the opportunity to learn different proofreading techniques and then emphasizes practice using those techniques. Prerequisite: BIM 102, BUS 121 (F,W,S)

BIM 114 Medical Office Accounts Receivable I 2 (22/0)

This is a basic class in billing insurance in clinical settings. Coding, specific form requirements, account aging, posting payments and adjustments to patient accounts will be covered. Issues related to overall medical business offices will also be part of the class. Prerequisite: HED 150, 151, or instructor permission (W)

BIM 115 Medical Office Accounts Receivable II 2 (22/0)

This is a basic class in billing medical insurance in hospital settings. Coding, specific form requirements (UB 92), account aging, posting payments and adjustments to patient accounts, and government medical coverage plans will be covered. Issues related to overall medical business offices will also be part of the class. Prerequisite: HED 150, 151, basic computer class or instructor permission (S)

BIM 116 Intro to the Medical Office 2 (22/0) The course will cover receptionist skills, making appointments and referrals, retrieving billing information, collection practices, consumer protection, bankruptcy laws, handling patient concerns and questions, and telephone and collection techniques for medical business office personnel. Prerequisite: HED 150, 151 ; introductory computing class or instructor permission (F)

BIM 124 Introduction to Spreadsheets with Microsoft Excel 3 (33/0) This course is an introduction to spreadsheet applica-

tions using Excel 2013 Students will learn spreadsheet applicaconcepts, functions, graphing, and data management. An emphasis is placed on practical applications for business. This course is not intended for Business Information Management majors. (F,W,S,Su)

BIM130 Filing1-2(0/22-44)This course introduces basic filing rules for alphabetic,
numeric, subject, and geographic filing.(F,W,S)

BIM 173 Word Processing I 1-5 (0/22-110) This course is an in-depth introduction to Microsoft Word 2007. The focus is to learn functions of Word 2007, to apply these functions to business situations, and to begin preparing students for the Microsoft Application Specialist exam. Prerequisite: BIM 102 or instructor permission Tech Prep credit available. (F,W,S)

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 (F, W, S)

BIM 180 Introduction to Microsoft Office

1-5 (0/22-110)

This course is an introduction to the basic functions of Microsoft Office 2013 - Word, Excel, Access, PowerPoint, and Integration. This course is intended for Business Information Management and Accounting students. Prerequisite: BIM102 and successful completion of MATH094 or placement into MATH 098 or higher. (F,W,S)

BIM 181 Introduction to Microsoft Word (0/22-66)1-3

This course provides a brief introduction to Microsoft Word. It is not intended for Business Information Management Program students. (F,W,S)

BIM **182 Introduction to Microsoft Excel** 1-3

(0/22-66)

This course provides a brief introduction to Microsoft Excel. It is intended for students not majoring in the Business Information Management Program. Successful completion of Math 094 or placement into Math 098 or higher. (F,W,S)

BIM **183 Introduction to Microsoft Access** 1-3 (0/22-66)

This course provides an introduction to Microsoft Access. It is not intended for Business Information Management Program students. (F,W,S)

BIM **184 Introduction to Microsoft PowerPoint** 1-3 (0/22-66)

This course gives a brief introduction to Microsoft PowerPoint. It is intended for students not majoring in the Business Information Management Program. (F,W,S)

BIM 185 Introduction to Microsoft Office: Integration

(0/22)

Students will learn the basic functions of Microsoft Integration. Tech Prep credit available. (F,W,S)

BIM 190 Spreadsheets I 1-5 (0/22-110) This course is an in-depth introduction to Microsoft Excel 2013. 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 BUS102-Business Mathematics, placement into MATH099 or higher, or successful completion of MATH098 (F,W,S)

BIM **194 Presentations**

1-5 (0/22-110) This is an in-depth Microsoft PowerPoint 2013 course. The focus of this course is to learn presentation functions, to apply this material to business situations, and to prepare students for the MOS Expert Exam.

BIM **195 Database Management** 1-5 (0/22-110) This course is an introduction to database concepts and to the integration of Access with other data. (F,W,S)

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 (F,W,S)

BIM 210 Internet 1-2 (0/22-44) This course is an introduction to the Internet, web browsers, search engines, and search techniques. (F,W,S)

BIM 220 Desktop Publishing 1-5 (0/22-110) This course is an introduction to designing, creating, and producing documents such as announcements, newsletters, brochures, and fliers using Microsoft Publisher. Prerequisite: BIM 180 (F, W, S)

(33/0)BIM **262 Professional Preparation** 3 This course covers job preparation components in which emphasis is given to job search and interviewing techniques Prerequisite: BUS 200 (S)

BIM 273 Word Processing II 1-5 (0/22-110) This is an in-depth Microsoft Word 2007 course. Students will learn the advanced functions and how to apply this material to business situations. This course will also help prepare students for the MCAS exam. Prerequisite: BIM 173 (F,W,S)

BIM 280 Advanced Microsoft Office 4 (0/22-88)This course is a continuation of BIM 180 and introduces the advanced features and integration capabilities of Microsoft Office 2013. This course consists of five modules--Word, Excel, Access, PowerPoint, and completion of an Integrated Project. Prerequisite: BIM 180 and successful completion of BUS102-Business Mathematics, placement into Math 099 or higher, or successful completion of all Math 098 (F,W,S)

BIM 281 MS Office Integration 1 (0/22)This course is a continuation from BIM280 and introduces the advanced integration capabilities of MS Office 2013. Prerequisite: Successful completion of all BIM280 modules

BIM 290 Spreadsheets II

1-5 (0/22-110)

(55/0)

This is an in-depth Microsoft Excel 2013 course. Students will learn the advanced functions of Excel and will apply this material to business situations. The course will also help prepare students for the MS Excel Expert certification exam.Prerequisite: BIM 190 or instructor permission

Chemistry

CHEM& 105 Chemical Concepts 5

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 (F) 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 (F) LS

CHEM& 121 Intro to Chemistry (44/22)5 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. (F,W,S,SU) LS

CHEM& 131 Intro to Organic/Biochem (38.5/33)5 This course is designed for Allied Health transfer students and for students wanting an introductory organic chemistry course in preparation for a complete organic chemistry sequence at a baccalaureate institution. Topics include an introduction to alkanes, alkenes and alkynes, an exploration of common functional groups, and organic nomenclature. The course also explores the relationship of organic compounds such as carbohydrates, lipids, proteins, and enzymes with the human body. CHEM& 131 includes 25-30 hours of laboratory. Laboratory exercises are designed to reinforce classroom learning as well as providing hands on experience with chemical reactions. Prerequisite: CHEM& 121 with a grade of 2.0 or above or instructor permission (S) 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 prepharmacy 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 (F) 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 (W) 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's permission. (S) 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 College Survival Skills 3 (33/0) CSS 100 helps students become more effective learners and achieve their goals at Big Bend. National studies show that students who take courses like CSS 100 are more likely to stay in college and graduate than students who do not. CSS 100 teaches students skills that research has identified as essential to college success. CSS 100 adds to or builds on the skills students already have as students debate the purpose of college, practice reading and studying techniques, engage in critical thinking, and explore the many resources Big Bend offers to help them succeed

CSS 101 College Transitions 2 (11/22) In this class, students will explore many of the non-academic factors that impact success in college. Students will develop a career and college plan; identify interests; improve skills and abilities; explore values, diversity, and relationships; recognize barriers to success in stress management and time management; identify and utilize an effective note-taking method; develop strategies to deal with test taking and test anxiety; and identify community and college resources.

CSS 102 Focus on Success 3 (33/0) Students will explore many of the non-academic factors that affect success in college. Students will study selfawareness 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 Intro to Healthcare Studies 3 (33/0) This course provides the foundation for understanding the educational responsibilities of choosing a career in the healthcare field. Students will identify the scope of education and practice of various members of the healthcare profession in order to develop an educational and career plan. Additional key topics include test-taking preparation, critical thinking, leadership skills, communication styles, ethical decision making, note-taking and study tactics, and accessing reference sources..

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. The course prepares students for the CDL driving examination and entry level employment. 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& 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. (F,W,S, Su) 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 (S) 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 AMT111,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 AMT111,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 AMT111,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 AMT111,AMT 121, AMT 161, and AMT 201

Computer Science

CS **101 Intro to Computer Science** (33/0) 3 An introduction to computer science concepts and the role of computers in society. Topics include the history of computing, computer hardware, operating systems, the Internet, database management, an overview of programming languages, careers in computer technology, and the ethics of computing. This course is designed for Computer Science majors, and will emphasize principles and underlying computer technology concepts. Note: This course's learner outcomes align to the common IT course, IT 110: Introduction to Information Technology, and is accepted as a transfer course with participating Washington State community and technical colleges. Look for this notation if transferring to another IT program at a Washington State community or technical college. SE

CS 104 Intro to Computer Hardware 3 (33/0) This course covers basic concepts of computing hardware and addresses the impact of hardware design on applications and systems software. Students will learn how computers work and be able to replace parts and upgrade components. Students completing CS 104 and CS 105 will have the knowledge and skills necessary for CompTIA A+ Certification exam preparation.

CS 105 Intro to Computer Operating Systems 3 (33/0)

An introduction to operating systems (O/S) design, structure, and mechanisms. Topics include computer software systems performance, memory, kernel structure, input/output (I/O) devices, file system functions, virtualization, and securing the operating system. Students will install and configure major modern client operating systems Students completing CS 104 and CS 105 will have the knowledge and skills necessary for CompTIA A+ Certification exam preparation

CS 106 Intro to Virtualization 5 (55/0)

This introductory course is an overview and hands-on exploration of virtualization in desktop, server, and cloud environments. Concepts covered include an introduction to virtualization technologies and how to deploy and manage a virtual server environment. Course topics include virtualization concepts and terms, installing and deploying virtual machines using Hyper-V, VM Ware, and XenServer, and implementing a secure virtual environment.Prerequisite CS 105 CS **110 Networking Fundamentals** (33/0) 3 An introduction to the basic concepts of computer networking, including: the OSI model, working with network-related hardware, network configuration with TCP/IP, network operating system basics, fault tolerance issues, and troubleshooting network problems. The course prepares students for the CompTIA Network+ certification exam. Note: This course's learner outcomes align to the common IT course, IT 115: Introduction to Networking, and is accepted as a transfer course with participating Washington State community and technical colleges. Look for this notation if transferring to another IT program at a Washington State community or technical college.

CS 111 Intro to Programing 5 (55/0)

An introductory programming course using the NET language to create event-driven programs with a graphical user interface. Topics include variables, control structures, loops, object-oriented programming techniques, forms, debugging, and an introduction to database programming using ADO.NET and SQL. Prerequisite MATH 098 or concurrent enrollment,.

CS 115 Intro to Database Design & Management 5 (55/0)

This course will examine the theory of database design and management, including how collections of data are organized, stored, and analyzed. Topics include the fundamentals of the relational model, Structured Query Language (SQL), data modeling, database design and administration, and web database processing. Introductory business and financial services applications will be used to illustrate course concepts through lectures and hands-on labs. Note: This course's learner outcomes align to the common IT course, IT 114: Database Design & Implementation, and is accepted as a transfer course with participating Washington State community and technical colleges. Look for this notation if transferring to another IT program at a Washington State community or technical college

CS& 131 Computer Science I: C++ 5 (55/0)An introduction to computer programming design and development with a primary focus on data structures and abstraction using the C++ object-oriented programming language. Topics include logical problem-solving, algorithm development, and programming basics, including an understanding of pointers, dynamic memory allocation, and data structures such as linked lists.Note: This course's learner outcomes align to the common IT course, IT 111&: Programming I, and is accepted as a transfer course with participating Washington State community and technical colleges. Look for this notation if transferring to another IT program at a Washington State community or technical college. Prerequisite: MATH& 141 or concurrent enrollment. SE

CS 132 Advanced Programming with C++ 5

This course expands on the fundamentals covered in CS& 131. Students will develop intermediate C++ programs for both traditional data processing and object-oriented applications. Through the experience of creating these programs and methods the student will learn advanced features of C++ object-oriented programming to solve problems in various domains. Note: This course's learner outcomes align to the common IT course, IT 112&: Programming II, and is accepted as a transfer course with participating Washington State community and technical colleges. Look for this notation if transferring to another IT program at a Washington State community or technical college. Prerequisite: CS& 131 SE

CS 136 Database Programming with SQL

(55/0)

(55/0)

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 (55/0) 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

55/0)

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, singlearea 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 (55/0)

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 1 (11/0)

Students participating in internships share feedback and discussion to integrate work-based learning experiences with classroom instruction. Students are expected to participate in class discussions and develop a computer science career-based employment resume. Prerequisite: Concurrent enrollment in CS 195

CS 205 Windows Server Administration

(55/0)

This course focuses on Windows Server Administration. Topics include the communication, design and implementation of the Active Directory, DNS, Group Policy Objects, disaster recovery, configuring the web server, security, and working knowledge of Microsoft Exchange. Prerequisites: CS 105 and CS 110, or instructor permission

CS **206 Linux Server Administration**

(55/0)

5

IIn this course students will customize the BASH environment, build shell scripts in the Korn shell, control the Linux system, manage user accounts, manage system software in Linux, and manage file systems in Linux. Students will also troubleshoot the system, configure the client/server environment, apply security practices to Linux systems, and improve system performance. Prerequisite CS 105, CS 205 recommended (Formerly UNIX/Linus Server Administration)

CS 207 Introduction to Security Administration (55/0) 5

This course builds on prior course work in computer hardware, operating systems, and networks. Students will acquire the specific skills required to implement basic security services on any type of computer network and be prepared to take the CompTIA Security+ exam. Prerequisite: CS 105 and CS 110, or instructor permission

CS 235 Data Structures and Algorithms

(55/0)

5 Basic data structures such as stacks, queues, linked lists, and trees are studied and applied to problems in data storage and manipulation. Applications include basic searching and sorting algorithms. Design, analysis and implementation techniques are discussed to illustrate and apply the concepts of the course. Note: This course's learner outcomes align to the common IT course, IT 113: Data Structures, and is accepted as a transfer course with participating Washington State community and technical colleges. Look for this notation if transferring to another IT program at a Washington State community or technical college. Prerequisites: CS 132 or CS 142, or instructor permission

CS 251 Programming with C# 5 (55/0) 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 (55/0) 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

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

(55/0)

CS 265 Web Applications Design & Development (55/0)5

This course provides students the knowledge and skills to design and develop dynamic web applications. Using ASP.NET and Ajax, students design, create, and test web pages, create a web interface to a database, and build applications for the web and mobile devices. Prerequisite: CS 111 or CS 251 and CS 161

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

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 (55/0)5 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 (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. (F,W,S) 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 (W) SE

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

(55/0)

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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 (S) SE

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. The student is also exposed to Automated Field Reporting (AFR) – the use of "in car" computers to electronically complete and submit reports. Prerequisite: ENGL& 235

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) 1-5(0/0/55-275) 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 12 credits. Credits will be directly related to number of hours worked. Prerequisite: Instructor permission

Early Childhood Education

ECED& 100 Child Care Basics 3 (33/0) Designed to meet licensing requirements for early learning lead teachers and family home child care providers, STARS 30 hour basics course recognized in the MERIT system. Topics: child growth/development, cultural competency, community resources, guidance, health/safety/ nutrition and professional practice.

ECED& 105 Intro Early Child Ed 5 (55/0) Overview of the foundations of early childhood education. Examine theories defining the field, issues and trends, best practices, and program models. Observe children, professionals, and programs in action. SE (Formerly ECE 100)

ECED& 107 Health/Safety/Nutrition 5 (55/0) Develop knowledge and skills to ensure good health, nutrition, and safety of children in group care and education programs. Recognize the signs of abuse and neglect, responsibilities for mandated reporting, and available community resources. (Formerly ECE 105)

ECED& 120 Practicum-Nurturing Rel 2 (11/0/33) This course will provide students an opportunity to apply best practice for engaging in nurturing relationships with children in an early learning setting. Focus on keeping children healthy and safe while promoting growth and development. Prerequisite:ECED& 105 and instructor permission.

(Prior to registering for this course, students must be cleared through the National Sex Offender Registry system, provide results of a negative Tuberculin skin test within the last year and obtain WEA liability insurance. Upon placement, students must pass a background check with their hosting agency).

ECED& 132 Infants/Toddlers Care 3 (33/0)

Examine the unique developmental needs of infants and toddlers. Study the role of the caregiver, relationships with families, developmentally appropriate practices, nurturing environments for infants and toddlers, and culturally relevant care. (Formerly ECE 108)

ECED& 139 Admin of Early Lrng 3 (33/0) Develop administrative skills required to develop, open, operate, manage, and assess early childhood education and care programs. Explore techniques and resources available for Washington State licensing and NAEYC standard compliance. (Formerly ECE 160)

ECED& 160 Curriculum Development 5 (55/0) Investigate learning theory, program planning, and tools for curriculum development promoting language, fine/ gross motor, social-emotional, cognitive and creative skills and growth in young children (birth-age 8).Corequisite: ECED& 190 (Formerly ECE 230) ECED& 170 Environments-Young Child 3 (33/0) Design, evaluate, and improve indoor and outdoor environments which ensure quality learning, nurturing experiences, and optimize the development of young children. (Formerly ECE 135)

ECED& 180 Lang/Literacy Development 3 (33/0) Develop teaching strategies for language acquisition and literacy skill development at each developmental stage (birth-age 8) through the four interrelated areas of speaking, listening, writing, and reading. (Formerly ECE 250)

ECED& 190 Observation /Assessment 3 (11//66) Collect and record observation of and assessment data on young children in order to plan for and support the child, the family, the group and the community. Practice reflection techniques, summarizing conclusions and communicating findings. Corequisite: ECED& 160

ECED 214 Math & Science for Young Children 3

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)

(33/0)

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. (F,W) SS

ECON& 201 Micro Economics5(55/0)Study of the micro economy of an individual firm or
industry. Output and price of a specific product, num-
bers 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.(F,W,S)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. (F,W,S) 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. SE

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.

EDUC133 Tutor Training I1-2(13/0/25)This course provides an overview of tutoring adults.

EDUC 134 Tutor Training II 1-2 (13/0/25) This course provides additional techniques and methods for tutoring adults. Prerequisite: EDUC 130

EDUC& 150 Child/Family/Community 3 (33/0) Integrate the family and community contexts in which a child develops. Explore cultures and demographics of families in society, community resources, strategies for involving families in the education of their child, and tools for effective communication. (formerly EDUC 150)

EDUC 190 Classroom Experience 3 (0/99) This course will provide students with the opportunity to gain practical, hands-on experience working with children infancy to age eight in a variety of educational settings and to reflect on the experiences. Students will be required to assist a classroom teacher for six hours per week throughout the quarter. Can be repeated up to nine credits. Prerequisites:ECED& 120 or EDUC& 201 or instructor permission

Prior to registering for this course, students must be cleared through the National Sex Offender Registry system, pass Washington State Patrol background check, provide results of a negative Tuberculin skin test within the last year and obtain WEA liability insurance. Upon placement, students must also pass a background check with their hosting agency.

EDUC 198, 298 Special Topics 0-5 (2-55/0) Current issues in the education field. Content will vary from course to course. Prerequisite: Instructor permission Tech Prep credit available.

EDUC& 201 Intro to Education 3 (33/0) Teaching as a career and essential features of preparation for it. Includes a study of the teacher's role and function in the school; preparation for professional competencies and certification; the American public school system; and the responsibilities of schools in a democratic society. Prerequisite: Successful completion of ENGL 99 or placement in ENGL& 101 SE

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. This software is used by engineers to communicate proposed designs and new ideas. (AutoCAD) (Formerly ENGR 160) SE

ENGR& 112 Engineering Graphics II 5 (33/44) This course uses computer software to draft parametric models in three dimensions. This course covers file management methods, rapid prototyping, and 2D drawing development techniques. (SOLIDWORKS) (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 5 (55/0)** ENGR 202 introduces students to methods, skills and theoretical knowledge needed to design, simulate, and build combinational logic circuits and basic sequential 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 circuits. Upon completion, students will apply the same tools prevalent in industry and their transferrable skills to many applications today. Prerequisite: MATH& 151 with grades of 2.0 or higher and one of the following: CS 111 or CS& 131 or CS&141, or instructor permission

ENGR& 204 Electrical Circuits 5 (55/0)

Introduction to basic circuits and systems concepts. Development of mathematical models of components including resistors, sources, capacitors, inductors and operational amplifiers. Solutions of first and second order linear differential equations associated with basic circuit forms. Steady state sinusoidal excitation and phasors. Prerequisite: PHYS& 223, MATH& 152, and one of the following: CS 111 or CS& 131 or CS&141; or instructor permission.

ENGR205Electric Circuits Lab1(0/22)Laboratory applications of electrical circuit principles
and instrumentation. Measurement of transient and
steady-state responses of electrical circuits. Corequisite:ENGR& 204

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

(55/0)

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Dynamics is the study of the accelerated motion of particles and rigid bodies. The study of the motion in this course will deal with kinematics (the mathematical description of the motion) and kinetics (the analysis of the forces causing the motion). Vector notation and operations will be used extensively in this course, and calculus will be used regularly. Prerequisite:ENGR& 214, PHYS& 221, and MATH& 152 with grades of 2.0 or higher. (Formerly EGR 212) NS

ENGR& 224 Thermodynamics

(55/0)

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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 (55/0) 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

ENGL010English Lab0Allows 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. (F,W,S,SU)

ENGL 087 Reading Improvement 3 (11/44) Reading improvement for adults with emphasis on increasing vocabulary and comprehension to college level. Prerequisite: Placement exam (F,W,S)

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 inproofreading, punctuation and using correct grammar to develop paragraphs. Prerequisite: Placement exam (F,W,S, SU)

ENGL 095 Writing Improvement 3 (11/44)

Through individual writing experiences and the practice of assigned exercises, the student will develop a procedure for writing and revising papers using word processing. Students may submit papers written during the quarter to portfolio assessment of preparedness for ENGL& 101. Prerequisite: ENGL 093 or placement (F,W,S)

ENGL 098 Basic English Skills 5 (55/0) This course covers techniques for improving basic writing skills at the sentence, paragraph and essay level. Additional work will be done on improving reading comprehension, enriching vocabulary, and refining computer skills. Prerequisite: Placement exam (F,W,S)

ENGL 099 English Skills 5 (55/0) This class is a composition course designed to prepare students for college reading and writing using word processing. Students write personal and academic essays and prepare a writing portfolio. The course includes the study of sentence sense and mechanics, grammar, punctuation, paragraph and essay structure as well as activities that improve reading and vocabulary. Prerequisite: ENGL 098 or placement exam (F,W,S,SU)

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 passing grade in English 99 (F,W,S,SU)

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: Passing score in ENGL&101. (F,W,S,SU)

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 (F,S)

ENGL 201 Advanced Academic Research Writing 5 (55)

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. Specified Elective (SE)*if not used as part of the English composition requirement (F,W, S)

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, screenplays, and creative nonfiction. Prerequisite: ENGL&101 or instructor permission 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 Film Study 3 (33/0) This class aims to create an appreciation of the art of film by examining a series of films that explore a single theme. On an introductory level, we will examine some of the tools in the filmmakers' arsenal and consider how they relate to the film's central ideas. Exposure to a variety of films—ranging from independent and foreign to big studio blockbusters, and everything in between—is also at the core of this class. Because the theme and the films for this class change each quarter, students are allowed to take it twice for credit. (F,W,S) 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 (F) 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 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 developing a definition of science fiction that helps to identify it as a unique literary type that is comprehensive enough in its concerns to be considered a legitimate and valuable type of literature. HU

ENGL 239 The Mystery Story as Literature

(55/0)

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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

ENGL240 World Literature5(55/0)A course of world literature from the ancient worldthrough the twentieth century. Prerequisite: ENGL& 101with a grade of 2.0 or aboveHU

ENGL243 The American Novel5(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.

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. HU **ENGL& 245 American Literature II 5 (55/0)** An introduction to American Literature from 1860 to the 1960's. Explore the religious views, politics, and ideologies of late nineteenth century to the late twentieth century of America through its literature. This course studies American authors, poets, and playwrights beginning with realism through naturalism, continuing with the political themes of early twentieth century, through the writers of the Great Depression, post World-War II, up to the 1960's HU

ENGL& 246 American Literature III 5 (55/0) This class explores American literature published in the decades since 1960. Themes studied may include terrorism and cold war anxiety, technology, gender roles, multiculturalism, alienation, rebellion, popular psychology, or others relevant to the literature of the time. Students will read contemporary novels, stories, and poems that reflect American trends and culture during this period. Students do NOT need to have taken American Literature I or American Literature II to do well in this course. HU

ENGL 261 Women's Literature (55/0)5 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…pulppaper nightmares" certain to turn young readers into juvenile delinquents, comics have forever been on the cutting edge of counterculture and alternative movements. Only in recent years have comics and their book-length counterparts, graphic novels, started receiving serious attention from adult audiences in the U.S. This course traces the comic tradition from comic book superheroes to Japanese manga to poignant autobiographies, examining the literary merit and legitimacy of the graphic novel along the way. HU

Environmental Science

ENVS& 100 Survey of Env Science 5 (55/0) An introduction to the fundamental principles of environmental science, topics of study include: environmental, science, and information literacy, human population growth, environmental economics, ecosystems, population and community ecology, biodiversity, evolution and extinction, forests and grasslands, marine ecosystems, fisheries and aquaculture, freshwater resources and water pollution, solid waste, agriculture, coal and petroleum, air pollution and climate change, nuclear power, alternative energy sources, biofuels, urbanization, and sustainable communities. NS

First Aid/EMT

FAD 150 Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens 2 (19/5)

An advanced industrial first aid course and bloodborne pathogen course designed to meet the Department of Labor and Industry, OSHA and WISHA requirements. Intended for supervisory personnel, employees, prenursing, Pre-Emergency Medical Technicians, and those interested in having first aid and C.P.R. training. This course is recognized in the U.S. and several foreign countries by federal and state agencies and company employers.

(F,W, S, Su)

FAD 151 Industrial First Aid (Refresher)

(11/0)

A National Safety Council and industrial first aid course and bloodborne pathogen course designed to meet the Department of Labor and Industry, OSHA and WISHA equirements. Intended for supervisory personnel, employees, pre-nursing, pre-emergency medical technicians and those interested in having first aid and C.P.R. training. This course is recognized in the U.S. and several foreign countries by federal and state agencies and company employers.

FAD152 Advanced First Aid2(22/0)

A first aid course designed to meet the 18 hour Department of Labor and Industry requirements. Intended for supervisory personnel, employees, and those interested in having first aid and CPR training. This will give a three-year certificate.

Foreign Languages

ASL& 121 Am Sign Language I 5 (55/0) Basic manual communication skills, including the American manual alphabet—approximately 550 basic signs developing minimum vocabulary and skills for communicating with severely hearing impaired individuals who are dependent of this form of communication; incorporation of body language and facial expression into the use of the sign language; and development of an understanding of the conceptual aspects of the language. This course is not meant to prepare students as interpreters for the deaf. HU

ASL& 122 Am Sign Language II 5 (55/0) Conversational manual communication and implementation of basic vocabulary, introduction of broader vocabulary and development of conversational skills; vocabulary is presented and practice given. This course is not meant to prepare students as interpreters for the deaf. Prerequisite: ASL& 121 or demonstrated competency HU

ASL& 123 Am Sign Language III 5 (55/0) Introduction to meta-and para-language areas of manual communication to more esoteric ideographic signs reflecting usage among different regional dialects. Difficulties of communication with more severely languagedeprived 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 Frenchspeaking world. HU

FRCH& 122 French II 5 (55/0) Beginning French language and culture taught using a communicative approach. Through the use of drama and themes, this course focuses on listening, speaking, reading and writing skills and the culture of the Frenchspeaking world.Prerequisite: FRCH& 121 HU

FRCH& 123French III5(55/0)Beginning French language and culture taught using
a communicative approach. Through the use of drama
and themes, this course focuses on listening, speaking,
reading and writing skills and the culture of the French-
speaking world. Prerequisite: FRCH& 122 HU

Big Bend Community College

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

(55/0)

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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

(55/0)

Beginning Spanish language and culture taught using a communicative approach. Through the use of drama and themes, this course focuses on listening, speaking, reading and writing skills and the culture of the Spanishspeaking world. HU

SPAN& 122 Spanish II 5 (55/0)

Beginning Spanish language and culture taught using a communicative approach. Through the use of drama and themes, this course focuses on listening, speaking, reading and writing skills and the culture of the Spanishspeaking world. Prerequiste: SPAN& 121 HU

SPAN& 123 Spanish III

(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. Prerequiste: SPAN& 122 HU

SPAN 211, 212, 213 Spanish for Spanish Speakers I, II, III 5

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

GGR101 Physical Geography5(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 (33/44) This course provides a study of the structure and composition of the earth's crust. Emphasis is placed on weathering, erosional and depositional processes, mountain building forces, rocks and minerals, and structural change. Upon completion, students should be able to explain the structure, composition, and formation of the earth's crust. Prerequisite: Math 099 or above. LS

Health Education

HED119Medical Terninology5(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 5 (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 5 (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 150 Medical Terminology I 3 (33/0) This course is a two-quarter presentation of medical terms and their uses. It is a comprehensive development of a medical vocabulary presented in order of body systems. (F,W,S)

HED151Medical Terminology II3(33/0)Prerequisite:HED150

This course is a continuation of HED $\,$ 150 in which medical terms and their uses are presented. (F,W,S)

HED239 Medical Ethics2(22/0)This course introduces ethical and legal issues facing
medical professionals. (F,W,S)

High School 21 Completion

(Credits awarded are High School *NOT* College)

HSC 010 Reading/Writing/Communictaiton

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 and have taken the CASAS pre-test

HSC 015 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 and have taken the CASAS pre-test

HSC 020 Gerneral 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 and have taken the CASAS pre-test.

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 and have taken the CASAS pre-test

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 and have taken the CASAS pre-test.

HSC 030 United State Consitution 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 and have taken the CASAS pre-test

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 and have taken the CASAS pre-test

HSC 032 Contemporary World History

This survey course provides a brief overview of world history after 1900 and the relationship to current events. High School completion credit only. Prerequisite: Students must be enrolled in a Basic Skills class and have taken the CASAS pre-test

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 and have taken the CASAS pre-test

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 and have taken the CASAS pre-test

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 and have taken the CASAS pre-test

History

HIST **110 The American Experience** (55/0) 5 A brief history of the United States, this course combines a chronological and thematic approach to answer a few essential questions-the most important of which being, what does it mean to be an American? Critical periods in American History are examined with an eye toward their lasting impact upon American culture and politics. These periods include the colonial and revolutionary era, the age of reform (1830s/40s), the Civil War and Reconstruction, the Age of Industrialization, and world wars, and the Cold War. Essential questions will examine such things as democracy, opportunity, justice and equality. Please note: This course includes information also covered in greater detail in HIST&136 and HIST&137. SS

HIST& 116 Western Civilization I 5 (55/0) From the origins of civilization to the dawn of the modern world in the 1500's, this course surveys the classical world of Greece and Rome, Western Christendom, Byzantium and Islam, the Middle Ages, and the early Renaissance. SS

HIST& 117 Western Civilization II 5 (55/0) From early modern Europe to the Napoleonic Wars in the nineteenth century, this course examines Western civilization in transition: The Renaissance and Reformation, commercial expansion into the Americas, Africa and Asia, absolutism, science, the enlightenment, and French Revolution. SS

HIST& 118 Western Civilization III 5 (55/0) This course stresses the international transition from European dominance to the rise of superpowers and third world nations. World Wars, depression, Democracy, Nazism, Communism, and the European Community are major themes. (1800 - 1990). SS

HIST 121 History of Mexico 5 (55/0) This course will explore the social, cultural and otherwise varied history of Mexico from prehistoric times to the present. Lectures, discussion and readings will provide additional insights into the ethnic, economic and political realities of Mexico in our time. SS

HIST& 136 US History 1 5 (55/0) From the Reformation in Europe to the end of the Civil War, this course includes colonization, the introduction of slavery, the Revolutionary and Early National Period, the development of political parties, nationalism and sectionalism, and the Civil War. Prerequisites: Placement in ENGL&101 or completion of ENGL 099 SS

HIST& 137 US History 2

(55/0)

5

From the end of the Civil War to present day, this course examines Reconstruction, the Gilded Age, America's rise to a world power, World War I, the triumph of Modernism, the Depression and New Deal, World War II, the Cold War, the turbulent 1960s, disillusioned '70s and the Reagan Revolution. More recent events are examined as ongoing and current events. Prerequisite: Placement in ENGL&101 or completion of ENGL 099 SS

HIST 201 American History to 1840 5 (55/0) This course explores the diversity of Native American cultures from the period before European contact, into the era of conquest and colonization through the creation of the United States and the challenges that followed for these groups SS

HIST 210 Tudor England (55/0)5 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 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

(55/0)

This course is a survey of Roman history from the founding of the city in the 8th century BC to the collapse of the Empire in the west in the 5th century AD. The content is organized chronologically, but we will also take time to look at Roman culture including literature, art, architecture and drama. SS

Homeland Security

HSEM 102 Introduction to Emergency Management 5 (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

2 (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).

HSEM 120 All Hazards Emergency Planning

(33/0)

This course is designed to introduce students to developing an effective emergency planning system. This course offers training in the fundamentals of the emergency planning process, including the rationale behind planning. Emphasis will be placed on hazard/risk analysis and planning team development. Other topics, such as Continuity of Operations (COOP), Emergency Support Functions, National Response Plan, Washington State Comprehensive Emergency Management Plan and contingency planning for areas such as Special Needs (Vulnerable Populations) or Animal Sheltering are included. Prerequisite: HSEM 102

HSEM 130 Technology in Emergency Management 3 (33/0)

This class provides a detailed overview of the technology used, and also clearly explains how the technology is applied in the field of emergency management. Students will learn how to utilize technology in emergency planning, response, recovery and mitigation efforts and they'll uncover the key elements that must be in place for technology to enhance the emergency management process. Course overviews include: Web Emergency Operations Center (EOC), using technology with training and exercises, reverse 911 notification systems, video conferencing/downlinks and Geographic Information System (GIS)/ Global Positioning System (GPS) capabilities. Prerequisite: HSEM 102 Introduction to Emergency Management

HSEM 157 Public Information Officer 2 (22/0) The course is designed to train participants for coordinating and disseminating information released during emergency operations and for assisting in the scheduling and coordination of news conferences and similar media events. After completing this course the student will have met the sections required for Public Information Officer as outlined by NFPA 1035

HSEM 160 Emergency Response Awareness to Terrorism 3 (33/0)

Provides current and relevant information about terrorism, terrorist behavior, homeland security policies and dilemmas, and how to deal effectively with threats and the consequences of attacks. Student will gain insight into the key players involved in emergency management, local and state issues, particularly as they need to interact and work with FEMA and other federal agencies. Course components include identifying terrorism, causes of terrorism, preventing terrorist attacks, responding to terrorism attacks and avoidance in communication and leadership collapse. Prerequisite: HSEM 102-Intro to Emergency Management

HSEM 180 Public Administration 3 (33/0)

This course provides an overview in the structure and issues of public service. Course participants will examine the context of public administration: the political system, the role of federalism, bureaucratic politics and power, and the various theories of administration that guide public managers today. Course components include public administration, personnel, budgeting, 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.

HSEM 200 Emergency Operations Center 2

(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

HSEM 220 Developing and Managing Volunteer Resources 2 (22/0)

This course will focus on methods and procedures for involving private-sector organizations and volunteers in emergency management programs in ways which benefit both parties. The focus of the course is on maximizing the effectiveness of volunteer resources by implementing a people-oriented system that addresses defining volunteer roles, designing a plan of action, recruiting volunteers, training individuals who volunteer and motivation and maintenance of a successful program. Participants will acquire skills and knowledge to make appropriate volunteer assignments that enhance the effectiveness of an integrated emergency management system. Prerequisite: HSM 102-Intro to Homeland Security & Emergency Management.

HSEM 230 Disaster Recovery and Response 2

(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.

HSEM 240 Homeland Security Emergency Management Work-based Learning 5 (5

5 (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

Humanities

HUM110 Greek Mythology5(55/00)Greek Mythology is the basis for understanding Westernliterature, art, history and even some symbolism onU.S. currency. More than just entertainment, the ancientmyths discuss our relationship to the divine, the natureof power, and the importance of heroics. This course willcover the pantheon of Greek gods and the literary stylesof the epic, tragedy, and comedy. HU

HUM 214 Diversity Issues: Race, Class and Gender 5 (55/0)

This cultural diversity studies course examines and investigates culture, behavior, values, identity, stereotypes, person and societal perceptions, and the cultural construction of reality using a literature-based and experientially based cognitive curriculum. This class will explore multicultural society with a mind toward improving students' understanding of their own cultures and the cultures that surround them. Prerequisite: ENGL& 101 or instructor permission HU

Industrial Systems Technology

IST 100 Introduction to Industrial Safety and Health 3 (33/0)

Introduction to basic industrial safety and health incorporating OSHA/WISHA rules and regulations, personal protective equipment, chemical safety, tool safety, material handling safety, machine safety, electrical safety, fire protection, health protection and safe working practices. {formerly MMT 100}

IST 102 Technical Drawing Interpretation

(22/22)

Fundamental technical drawing, reading and sketching principles, concepts and standards as applied to industry. Tech Prep credit available. {formerly MMT 102}

IST 105 Basic Electricity – DC Circuit Analysis 5 (33/44)

Fundamentals of DC electricity as applied to series, parallel, and series-parallel circuits. Use of test equipment and troubleshooting simple circuits. Prerequisite: MAP 103 (may be taken concurrently) or instructor permission {formerly ELC 101}

IST 106 Basic Electricity – AC Circuit Analysis 5 (33/44)

Teaches alternating current theory, waveform quantities and characteristics, including network analysis with reactive components. Proper use of test equipment and troubleshooting simple circuits. Prerequisite: IST 101, MAP 103, or instructor permission {formerly ELC 102}

IST 107 Industrial Electricity I 5 (33/44)

Electrical theory and application, electrical blueprints, power sources, panels, control devices, motors, etc. Use of test equipment and troubleshooting. Note: For Maintenance Mechanics Prerequisite: IST 102, 106, MAP 103 or instructor permission {formerly ELC 105}

IST 110 Inroduction to the National Electric Code 2 (22/0)

Introduction to Washington State electrical law and the National Electric Code as they pertain to the working electrical technician. Prerequisite: IST 107 or instructor permission {formerly ELC 107}

IST 111 National Electric Code II 2 (22/0) Application of the Washington State electrical laws (WAC codes) and the National Electric Code as they pertain to the working electrical technician. Prerequisite: IST 110 or instructor permission {formerly ELC 108}

IST 112 National Electric Code III 2 (22/0) Washington State electrical laws (WAC Codes 296-46, RCW 19.28) and National Electrical Code (NFPA 70) are applied to the working electrician. Prerequisite: IST 111 or instructor permission {formerly ELC 109}

IST 113 Industrial Electrial

Installation Techniques 5 (33/44) Fundamentals of raceway, wire and utilization equipment installations for plant safety, efficiency and long economic life. Prerequisite: IST 107 or instructor permission {formerly ELC 110}

IST 120 Introduction to Preventive/Predictive Maintenance 3 (22/22) Theory and practice of preventive and predictive mainte-

Theory and practice of preventive and predictive maintenance concepts. Performing routine preventative maintenance and scheduling predictive maintenance outages. Prerequisite: IST 102, MAP 103, or instructor permission {formerly MMT 220}

IST 130 Introduction to Refrigeration and Air Conditioning 5 (33/44)

Fundamental physical, chemical, engineering, and mechanical aspects of the refrigeration process. IST 100, 102, 106, MAP 103, or instructor permission {formerly MMT 120}

IST 136 Intro to Industrial Boiler Technology

5 (33/44) This course involves the fundamental principles of steam generation, boiler designs, components, operation, water treatment, safety procedures and related steam generation equipment. Prerequisite: IST 107 or instructor permission

IST 140 Mechanized Irrigation Applications I 10 (55/165)

This class will introduce the history and development of mechanized irrigation. It will distinguish the basic irrigation systems: pivot, wing arm corner, and lateral move systems. It will focus on technical service and operation as the industry changes. This class will include the application of industrial electrical components and controls in the lab environment. Prerequisite: IST 105 and IST 106

IST 141 Intro to Mechanized Irrigation Applications I 5 (27/55)

his class will introduce the history and development of mechanized irrigation. It will distinguish the basic irrigation systems: pivot, swing arm corner, and lateral move systems. Course work will examine the various propulsion systems, electrical/electronic/digital logic controls and irrigation hydraulic principles. It will focus on technical service and operation aspects in a "real-life" lab environment under actual conditions. Prerequisites: IST 101 and IST 102

IST 142 Mechanized Irrigation Applications II 5 (27/55)

This class will reinforce the concepts of mechanized irrigation systems acquired from the intro class. Course work will provide an in-depth and practical view of the various propulsion systems, electrical/electronic/digital logic controls and irrigation hydraulic principles. It will focus on technical service and operation aspects irrigation service technicians experience in the field. Instruction using "real-life" lab equipment under authentic conditions provides "hands on" experience similar to actual field work. Prerequisites: IST 141; Intro to Mechanized Irrigation Applications I

IST 150 Introduction to Programmable Logic Controllers 5 (33/44)

Introduction to programmable logic controller principles, hardware, and operation. Includes ladder logic, instruction, maintenance and troubleshooting. Prerequisite: IST 107, MAP 103, or instructor permission {formerly ELC 150}

IST 152 Programmable Automation Control

5 (33/44)

Programmable Logic Controllers have become the backbone of modern industrial automation. This course explores PLC principles, networking, hardware and operation, with emphasis on ladder logic instruction sets, maintenance and troubleshooting using the Allen-Bradley Compact Logix[™] platform and Control Logix[™] programming software. Prerequisite: IST 150 or instructor permission. (formerly IST 250)

IST 170 Introduction to Instrumentation

(33/44)

5

Fundamentals of process control as it applies to process variables, measurement dynamics, & automatic corrective measures in the industrial environment. Prerequisite: IST 107 or instructor permission {formerly ELC 170}

IST 180 Machining I 5 (33/44)

Layout and fabrication techniques with the use of semiprecision and precision measurement tools. Introduction to drill press, engine lathe and vertical mill operations. Prerequisite: IST 102, MAP 103, or instructor permission {formerly MMT 110}

IST 182 Machining II 5 (33/44)

Fundamentals of machining processes on lathes and vertical mills. Precision measurement with micrometers, vernier calipers, and dial indicators. Prerequisite: IST 180 or instructor permission {formerly MMT 111}

IST 184 Machining-Skill Enhancement

(11/66)

Extra hands on time and instruction to supplement the students machining skill level using fundamental machining processes on lathes, vertical milling machines and other machine shop equipment. Prerequisite: IST 182 or instructor permission {formerly MMT 115}

IST 207 Industrial Electricity II 5 (33/44) Electrical theory and function as it applies to various control schemes with a practical understanding of the logic and safety considerations required for efficient control of stand alone machinery and or a complex system. Prerequisite: IST 107 or instructor permission {formerly ELC 205}

IST 208 Industrial Electricity III 5 (33/44) Electrical theory, operation and set-up of variable frequency drives (VFD's), soft start devices, 4-20 ma. control loops and grounding issues associated with electronic devices. Prerequisite: IST 207 or instructor permission {formerly ELC 215}

IST 221 Electronics I (Principles) 5 (33/44) Introduction to principles and applications of analog and digital electronic devices, circuits, and systems. Prerequisite: IST 106 or instructor permission {formerly ELC 223}

IST 222 Electronics II (Applications) 5 (33/44) Construct and analyze operation of analog and digital electronic devices, circuits, and systems using schematic diagrams, test equipment, and logical trouble shooting procedures. Prerequisite: IST 221 or instructor permission {formerly ELC 224} **IST** 223 Electronics III (Industrial) 5 (33/44) Instruction and training in troubleshooting, testing and repairing industrial control devices. Electrical motor drives, instrumentation, and programmable controllers will be covered. Prerequisite: IST 222 or instructor permission {formerly ELC 225}

IST 224 Electronic Communications I 5 (33/44) Provides instruction covering the basic concepts of electronic communication equipment and systems. Emphasis is on radio frequency and other high speed data applications that are being applied in new configurations within the industrial community. Prerequisite: IST or instructor permission.

IST 225 Electronic Communications II 5 (33/44) Continuing instruction on the concepts of electronic communication equipment and systems. With emphasis on cellular, and other wireless applications, that are being applied in new configurations within the industrial community. Prerequisite: IST 224 or Instructor permission

IST 226 Introduction to Fiber Optics: Theory, Systems, and Applications 5 (3

5 (33/44) Introduction to fiber optics equipment and systems. Fiber perspective as a communications medium, with emphasis on the advantages of fiber compared to copper or radio linked systems. Review of the importance of electronics communications with explanations of basic concepts such as bits and bytes, analog and digital, and light. Prerequisite: IST 225 or Instructor permission

IST 270 Instrumentation II & Control Actuators 5 (33/44)

Maintenance procedures and troubleshooting techniques for control/measurement loops in the industrial environment along with fundamentals of control valves, actuators, their applications, techniques of safe trouble shooting, testing, repairing, and calibrating final control elements. Prerequisite: IST 170, 223, or instructor permission {formerly ELC 271}

IST 280 Mechanical Power Transmission 5

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(33/44)
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Fundamentals of industrial mechanical power transmission. Includes lubrication, bearings, speed reducers, gears, couplings, drive components, brakes, clutches, and adjustable speed drives. Prerequisite: IST 100, 102, MAP 103, or instructor permission {formerly MMT 210}

IST 282 Fluid Power Transmission 5 (33/44) Fundamentals of industrial hydraulic, pneumatic, and vacuum systems. Includes pumps, piping, compressors, check valves, cylinders, motors, control valves and flow controls. Prerequisite: IST 100, 102, MAP 103, or instructor permission {formerly MMT 211}

IST 284 Pumping Hydraulics & Mechanics 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

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: IST 295

Journalism

JOU 140 Digital Photojournalism 3 (22/22) For persons interested in using digital cameras and computer techniques to produce images for newspapers, magazines, and other print media, and for Internet transmission and web sites. Students will be required to produce images showing specific examples of photojournalism. HP

Math (Applied)

All students, regardless of background, must take a math placement assessment before enrolling in any math course.

MAP 100 Applied Mathematics (AMT) Approved by FAA. 2 (22/0)

Must be enrolled in the Aviation Maintenance Technology Program. This course will cover aircraft technical mathematics and is designed for the Aviation Maintenance Technology student. It will cover the fundamental mathematical principles required for successful completion of the Aviation Maintenance Technology program. This course is FAA approved under 14 CFR Part 147. Prerequisite: DVS 080 or placement in MATH 094 or above. Must be enrolled in the Aviation Maintenance Technology program.

MAP 101 Applied Mathematics (AUT/WLD) 3-5 (33-55/0)

This class provides review and instruction in whole numbers, decimals, fractions, measurement, ration proportion, percents, introduction to algebra, and introduction to geometry. This basic instruction and review is followed by vocational program specific mathematics instruction. Students will study mathematics for welding or automotive repair. The emphasis is on providing work in relevant work-specific problems and situations. Prerequisite: DVS 080 or placement in MATH 094 or above.

MAP **103 Applied Mathematics (IST)** 5 (55/0) This class provides review and instruction in whole numbers, decimals, fractions, measurement, ratio, proportion, percents, introduction to algebra, and introduction to geometry. This basic instruction and review is followed by vocational program specific mathematics instruction. Students will study mathematics for electricity/electronics. The emphasis is on providing a solid mathematics base to facilitate assimilation of more complex mathematics as well as providing course work in relevant workspecific problems and situations. Collaborative learning is encouraged and built into the course to give students practice in a key skill used in the workplace. Prerequisite: DVS 080 or placement in Math 094 or above.

MAP 104 Applied Mathematics (AVF) 3 (33/0) This course will cover aviation technical mathematics and is designed for the Commercial Pilot Program flight student. It will cover the fundamental mathematical principles required for the successful completion of the Commercial Pilot Program. Prerequisite: DVS 080 or placement in MATH 094 or above.

MAP 108 Applied Mathematics (MA) 3 (33/0) This class provides review and instruction in whole numbers, fractions, ratios, decimals, proportions, percents, measurement and metrics, word problems (fractions, decimals, percentages) tables and graphs as they relate to employment as a Medical Assistant. Prerequisite: DVS 080 or placement in MATH 094 or above.

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 094 Introduction to Algebra 5 (55/0) This course includes the study of basic arithmetic and algebraic including operations with integers, fractions, decimals and percents; order of operations, measurement, the metric system, algebraic expressions, formulas and simple linear equations(formerly MPC 090, Math 090) Prerequisite: DVS 080 or appropriate placement on the BBCC math placement exam

MATH 097 Elementary Algebra II 5 (55/0) This course includes the study of basic and intermediate algebraic operations and concepts, and the structure and use of algebra. This includes factoring algebraic expressions, working with rational expressions, systems of equations and applications Prerequisite:one of the following: BBCC math placement exam or successful completion of at least five units in MATH 098. (will start after Proficiency Exam #2)

MATH 098 Intermediate Algebra I 5 (55/0) This course includes the study of intermediate algebraic operations and concepts, and the structure and use of algebra. This includes solving, graphing, and solving applications of linear equations and systems of equations; simplifying, factoring, and solving quadratic functions, introduction to functions and models; and exponential and logarithmic functions along with applications. (formerly Math 095, 096) Prerequisite: MATH 094 or placement.

MATH 099 Intermediate Algebra II 5 (55/0) This course is designed to prepare students for precalculus and finite math. It includes the study of inequalities, applications of systems, rational expressions, functions, radicals, rational exponents, radical equations, complex numbers, quadratic equations and their application.(formerly Math 098) Prerequisite: Math 098 or placement

MATH& 107 Math in Society5(55/0)This course will introduce the non-math/science major to
mathematical applications in a variety of disciplines. Pre-
requisite: Appropriate scores in the BBCC Mathematics
Assessment or successful completion of MATH 098 or
placement into MATH 099/107/146. (F,W,S)SQRMS

MATH& 141 Precalculus I5(55/0)This course will present the following concepts: college
level algebra, introduction to functions and graphing,
the graphs and properties of polynomial, rational, radi-
cal, exponential and logarithmic functions. Prerequisite:
MATH 099 (F,W,S) 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 (S) 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. (F,W,S,SU) 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) Introductory Calculus for business and economics students. Includes an introduction to rates of change, differentiation, integration, areas, and appropriate calculus techniques. Includes applications to marginal analysis in economics, optimization, and other relevant applications. Prerequisite: MATH& 141, placement in the class or instructor permission. (S) 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 (F) 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 (W) 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 (S) 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

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 on and advances the skills learned in Clinical Procedures I. It explores in detail the topics of patient history, patient interviews and documentation, asepsis, infection and disease control, basic physical exams, principles of medical equipment use, emergencies and first aid, and principles of universal precautions for blood and bodily fluids. Prerequisite: MA 111 with a grade of 2.0 or higher MA113 Clinical Procedures III4(22/44)This course builds on and advances the skills learnedin Clinical Procedures I and II. It develops the studentsskills in proper use of medical equipment and proceduresincluding casting and splinting, medication delivery,sample collection, venipuncture and basic radiology.Prerequisite: MA 112 with a grade of 2.0 or higher

MA 150 Pharmacology for Medical Assistants 3 (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 Medical Assisting. Prerequisite: MAP 108

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: MA 113 and 150 with grades of 2.0 or higher; Corequisite: 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

Music

MUSC 100 Introduction to Music **5** (55/0) A survey course for non-majors. Introduction to the materials of music and world music literature, with a special emphasis on the literature, composers and history of the Western European Art Music tradition. HU

MUSC& 105 Music Appreciation 5 (55/0) Music Appreciation is a course designed for students who have not had formal study in music or who wish to supplement performance experience with formal study in structure and history. Emphasis is placed on repeated listening experiences to acquire a thorough knowledge of selected works of music literature. HU

MUSC110Chorus1(0/22)A community mixed chorus open to all students and
community residents. Music of different styles and vari-
ous historical periods is prepared for a quarterly perfor-
mance. HP

MUSC114 Mariachi Workshop3(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 Instruction I 2 (22/11) This course presents the basic concepts and skills to develop performing proficiency at the piano. Musical activities and projects will build growth in technical skills such as major and minor scale patterns; musical skills such as sight reading and improvisation; theoretical concepts such as notation, rhythm patterns, melodic shapes and forms; and creative skills such as completing melodic phrases and inventing melodic variations. Repertoire will reflect the development of increasingly advanced solo and ensemble pieces. HP

MUSC 116 Group Piano Instruction II 2 (22/11) This course presents the basic concepts and skills to develop performing proficiency at the piano. Musical activities and projects will build growth in technical skills such as major and minor scale patterns; musical skills such as sight reading and improvisation; theoretical concepts such as notation, rhythm patterns, melodic shapes and forms; and creative skills such as completing melodic phrases and inventing melodic variations. Repertoire will reflect the development of increasingly advanced solo and ensemble pieces. Prerequisite: MUSC 115 HP

MUSC 117 Group Piano Instruction III 2 (22/11) This course presents the basic concepts and skills to develop performing proficiency at the piano. Musical activities and projects will build growth in technical skills such as major and minor scale patterns; musical skills such as sight reading and improvisation; theoretical concepts such as notation, rhythm patterns, melodic shapes and forms; and creative skills such as completing melodic phrases and inventing melodic variations. Repertoire will reflect the development of increasingly advanced solo and ensemble pieces. MUSC 116. HP

MUSC124, 224Orchestra I, II2(11/22)A community and college orchestra that plays for community musicals and graduation as well as other functions throughout the year. May be repeated for credit.

Prerequisite: Performance ability on an orchestral instrument HP

MUSC134 Group Guitar2(11/22)This course provides a group approach to progressive
instruction, for beginning, advanced beginning and inter-
mediate level guitarists. This course may be repeated
for credit up to three times. HP

MUSC 170 History of Jazz 5 (55/0) A survey course for non-majors and music majors covering the history of the origin of the American music Jazz and it's stylistic development up through the 1990's. The various periods of pre-jazz and jazz are related to social, political and economic forces during the nineteenth and twentieth centuries. Included are the sources of African-American musical forms such as spirituals, work songs, ragtime and blues. Recommended as a humanities elective, as part of African-American cultural history education or as general music education. HU

MUSC 215 Group Piano Instruction IV 2 (0/44) 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. Prerequisite: MUSC 117. HP

MUSC 216 Group Piano Instruction V 2(0/44) 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. Prerequisite: MUSC 215. HP

MUSC 217 Group Piano Instruction VI 2 (0/44) 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. Prerequisite: MUSC 216. HP

Nursing

NUR 100 Nursing Assistant

(44/110)

9

This course prepares students to take the Nursing Assistant examination as outlined by federal and state guidelines. Training will include classroom, skills lab, and clinical experience. Prerequisite: Read, write, speak and understand English at the level necessary for performing duties of the nursing assistant. (Placement in ENGL 099 or above) Tech Prep credit available.

NUR 101 Survival Skills for the Nursing Student 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

NUR103 HIV/AIDS Education1(4/14)An HIV/AIDS education course designed to meet theWe alwateVersion to a set of the set of th

Washington State mandatory requirements for healthcare 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

(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: High school algebra with a grade of 2.0 or higher, or Math 099 with a grade of 2.0 or above and NUR 110 or instructor permission.

NUR 115 Beginning Pharmacology Concepts I

(11/0)

1

This course offers specific in-depth pharmacology information as it relates to common diseases discussed in the Beginning Nursing Concepts Course (NUR 120) Prerequisite: NUR 114

NUR 120 Beginning Nursing Concepts I

(66/0)

Focus is on nursing theory as it relates to the adult patient with commonly occurring health conditions, and includes an introduction to the care of the patient in the perioperative and maternal/newborn setting. Professional roles and progression are incorporated in this course. Prerequisite: Admission into the nursing program and BIOL& 260 with a grade of 2.0 G.P.A or above.

NUR 121 Beginning Nursing Practicum I

(0/88)

Practical application in the clinical setting of nursing theory and skills taught in previous nursing courses and introduced in NUR 120 and NUR 136. Practicum focuses on nursing care to a variety of patients in the medical/ surgical, perioperative, and maternal newborn setting. Prerequisite: BIOL& 260 with a 2.0 G.P.A or above.

NUR 130 Beginning Nursing Concepts II

6 (66/0) This course continues to focus on nursing theory as it relates to basic needs throughout the lifespan, including care of the pediatric patient. Bioethical dilemmas and ethical decision making processes are incorporated. Prerequisite: Admission into the nursing program and NUTR& 101 with a 2.0 G.P.A or above

NUR 131 Beginning Nursing Practicum II

4 (0/88) Practical application in the clinical setting of nursing theory and skills taught in previous nursing courses and introduced in NUR 130 and NUR 137. Practicum focuses on nursing care to a variety patients across the lifespan. Prerequisite: NUTR& 101 with 2.0 G.P.A or above.

NUR 135 Nursing Skills Laboratory 1 (0/22) This course provides for the practice of nursing skills in a controlled setting in order to gain proficiency for delivery of nursing care in the clinical setting (NUR 111). The content is based on theoretical nursing knowledge taught in NUR 110. Prerequisite: Admission into the Level I ADN Program

NUR 136 Nursing Skills Laboratory 1 (0/22) This course provides for the practice of nursing skills in a controlled setting in order to gain proficiency for delivery of nursing care in the clinical setting (NUR 121). The content is based on theoretical nursing knowledge taught in NUR 120. Prerequisite: BIOI&260 with a 2.0 G.P.A or above

NUR 137 Nursing Skills Laboratory 1 (0/22) This course provides for the practice of nursing skills in a controlled setting in order to gain proficiency for delivery of nursing care in the clinical setting (NUR 131). The content is based on theoretical nursing knowledge taught in NUR 130. Prerequisite: NUTR&101 with a 2.0 G.P.A or above

NUR 140 PN Completion/Transition 4 (44/0)

Theoretical nursing knowledge focuses on selected health conditions pertinent to medical and surgical patients. Includes legal and professional considerations and is the completion course for students transitioning into the Practical Nurse Setting. Transition course for Licensed PNs entering the ADN program and is optional for other ADN students. Prerequisite: Admission into the nursing program and PSYC& 100 with a grade of 2.0 or higher or current LPN licensure and permission of program director Corequisite: NUR 141

NUR 141 PN Completion/Transition Practicum

(0/176)

Practical application in the clinical setting of nursing theory and skills taught in previous nursing courses and introduced in NUR 140. Practicum focuses on nursing care to a variety of medical, surgical, and psychiatric patients. Prerequisite: PSYC&100 with a 2.0 G.P.A or current LPN licensure and permission of program director.COREQUISITES: NUR 140

NUR 189 Writing for Nursing Education

(11/0)

This course is designed to help students gain skills in the practical application of written communication specific to nursing education. Practical application and use of APA format and application of various clinical charting formats will be emphasized. Prerequisite: Admission into the nursing program

NUR 195 Work-Based Learning Practicum 1-3 (0/33-99)

A supervised work experience in the allied healthcare field designed to enhance the application of learned nursing theory and lab skills. Prerequisite: Instructor permission; Corequisite: NUR 197

NUR 197 Work-Based Learning Seminar

(11/0)

A small group seminar setting in which students can discuss their Work-Based Learning Practicum (NUR 195) experience with a nursing instructor and other students. Prerequisite: Instructor permission; Corequisite: NUR 195

NUR 210 Advanced Nursing Concepts I

(55/0)

Focus is on advanced nursing theory as it relates to complicated health deviations in patients throughout the lifespan. Current professional issues and role development are incorporated in this course. Prerequisite: Admission into the Level II ADN program

NUR 211 Advanced Nursing Practicum I 5

(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 5

(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)

(55/0)

Clinical focus is on application of principles and skills taught in previous nursing courses and introduced NUR 220 and NUR 236. Practicum focuses on advanced nursing care to less stable patients in a variety of setting throughout the lifespan. Prerequisite: PSYC& 200 with a minimum 2.0 G.P.A or above

NUR 230 Advanced Nursing Concepts III 5

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

(0/132)

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 G.P.A or above

NUR 232 EKG Interpretation I 1 (0/22)This course gives the student fundamental skills in interpreting basic EKG rhythms. A systematic approach to EKG waveform analysis will be used to identify the most common Sinus, Atrial, Junctional, and Ventricular rhythms. This approach will also be used to identify Atrioventricular Blocks, Paced rhythms and artifact. Prerequisite: Instructor permission

NUR 235 Nursing Skills Laboratory 1 (0/22)This course provides for the practice of nursing skills in a controlled setting in order to gain proficiency for delivery of nursing care in the clinical setting (NUR 211). The content is based on theoretical nursing knowledge taught in NUR 210. Prerequisite: Admission into the Level II ADN Program

NUR 236 Nursing Skills Laboratory (0/22)1 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 237 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 231). The content is based on theoretical nursing knowledge taught in NUR 230. Prerequisite: Admission into the nursing program

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; Corequisite: NUR 297

NUR 297 Work-Based Learning Seminar

(11/0)

A small group seminar setting in which students can discuss their Work-Based Learning Practicum (NUR 295) experience with a nursing instructor and other students. Prerequisite: Instructor permission; Corequisite: NUR 295

Nutrition

NUTR& 101 Nutrition

(55/0)

5 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 (F,W,S,SU) NS

Philosophy

PHIL& 101 Intro to Philosophy (55/0) 5 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. (F, W) HU

| PHIL& 120 Symbolic Logic5(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 | PEH105 Theory of Baseball3(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. SEPEH106 Theory of Fast Pitch Softball 3(22/22) |
|---|--|
| PHIL210 Ethics5(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 | A practical course relating to the coaching aspect of soft- ball. Emphasis is placed on teaching/coaching strate- gies, the body mechanics of the athlete, evaluation meth- ods, and the organization of a softball program. SE PEH 107 Theory of Volleyball 3 (22/22) |
| PHIL 211 Ethics for Criminal Justice 5 (55/0) A study of the principal ethical theories and their applica- tion to individual and social morality tied to the field of Criminal Justice. Prerequisite: CJ& 101 HU | A practical course relating to the coaching aspect of volleyball. Emphasis is placed on teaching/coachi ng strategies, the body mechanics of the athlete, evaluation methods, and the organizat ion of a softball program. SE |
| PHIL 230 East Indian Philosophy 5 (55/0) This course will provide an introduction to the classi- cal 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 | PEH114 Basketball1(0/22)Basketball is designed to improve the student's basket- ball 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 |
| 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 | PEH119Fast Pitch1(0/22)Fast Pitch is designed to improve the student's softballskills/knowledge so to participate successfully and enjoy- ably in the team activity of softball. May be repeated for up to three (3) credits. |
| 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 | PEH122 Volleyball1(0/22)Volleyball is designed to improve the student's volleyballskills/knowledge so to participate successfully and enjoy- ably in the team activity of volleyball. Emphasis will be on executing proper fundamentals of the game. May be |
| PHIL250 Asian Philosophy5(55/0)This course introduces to students the major intellectual | repeated for up to three (3) credits. AC |
| 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 | PEH125 Conditioning1(0/22)Conditioning is designed to introduce the student to the basic principles and training methods for body condi- tioning so they can establish an exercise program to |
| Physical Education and Health | enhance overall wellbeing. May be repeated for up to three (3) credits. AC |

PEH100 Lifetime Wellness3(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

PEH102 Theory of Basketball3(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

PEH131 Circuit Weight Training1(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

PEH132 Fitness1(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) creditsAC

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

PEH149 Jogging for Health1(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
- 2.. 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.
- 3. Tread water for 2 minutes using only the legs. Candidates should place their hands under the armpits.
- 4. 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

(0/22)

(0/22)

1

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

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

PEH160 Baseball Skills1(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 an three-quarter algebra-based sequence for students pursuing degrees in biology, pre-dentistry, pre-medicine, pre-veterinary medicine, engineering technology, zoology, and other fields. Students should check with the requirements of their intended baccalaureate institution when considering this sequence. A balance of conceptual understanding and problem-solving ability is emphasized; laboratory and lecture are integrated in the sequence. This first course will begin with an introduction to units and unit conversion, scalars and vectors, and using right-angle trigonometry for analyzing two-dimensional motion, then continue to the study of mechanics: describing motion, with speed, velocity, and acceleration; application of Newton's laws in one and two dimensions; impulse and momentum conservation; work and energy conservation; rotational motion and torgue. Biological applications of physics will be studied whenever possible. Prerequisites: Completion of MATH 099 with 2.0 or higher, or instructor permission; concurrent enrollment in SCI 104 recommended. LS

PHYS& 115 General Physics II with Lab 5 (44/22) The second course in an three-quarter algebra-based sequence. A balance of conceptual understanding and problem-solving ability is emphasized; laboratory and lecture are integrated in the sequence. In this second quarter the topics studied will include fluids, oscillations, waves and sound, thermodynamics, geometric and physical optics. Biological applications of physics will be studied whenever possible. Prerequisites: Completion of PHYS& 114 with 2.0 or higher. LS

PHYS& 116 General Physics III with Lab 5 (44/22) The third course in an three-quarter algebra-based sequence. A balance of conceptual understanding and problem-solving ability is emphasized; laboratory and lecture are integrated in the sequence. In this third quarter the topics studied will include electricity, magnetism, electromagnetic induction and waves, quantum physics, atomic physics, and nuclear physics. Biological applications of physics will be studied whenever possible. Prerequisites: Completion of PHYS& 115 with 2.0 or higher. LS

PHYS& 221 Engineering Physics I w/Lab 5 (44/22) The course is an introductory physics course intended for students majoring in science or engineering. This course is the first of a three-quarter sequence. Course content includes the laws of motion, energy, momentum, and static equilibrium. Prerequisite: Calculus I (Math&151) or concurrent enrollment (F) LS

PHYS& 222 Engineering Physics II w/Lab 5 (44/22) The second in a three-quarter calculus-based sequence in introductory physics intended for students majoring in science or engineering. Course content includes thermodynamics, waves, and optics. Prerequisite: Successful completion of Engineering Physics I (PHYS&221) (W) 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 (S) LS

Political Science

POLS& 202 American Government5(55/0)From the constitutional convention in Philadelphia (1788)to the most recent presidential elections, this courseexplores American politics and governmental functions.The focus is on the interaction and structure of the exec-utive, legislative, and judicial branches of the national

government, and a survey of the philosophic foundations for the American governmental system. SS

POLS& 203 International Relations5(55/0)An introduction to American foreign policy and global
relations, including historical backgrounds, current
struggles, and move toward globalization in Post Cold
War world. 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. (F,W,S) 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 (F,S) SS

PSYC 225 Psychology and the Legal System 5 (55/0)

As the study of human behavior, psychology must also include the study of law, which is a primary instrument used by society to control human behavior. Psychology and law is a vibrant area of research interest within the discipline of psychology. This course is a survey of the major topics represented in the field of psychology and law. This course focuses on how psychological research (across sub-disciplines such as clinical, social, cognitive, and community psychology) can contribute to a better understanding of issues related to law or legal process, how the legal system can be informated by the results of psychological research, and how psychological research can be more reactive to legal issues. Prerequisite/corequisite: PSYC& 100 or CJ& 101 SS

Religious Studies

REL201 World Religions5(55/0)A survey of the origin, development, and present beliefs
and practices of the world's major religions: Hinduism,
Buddhism, Confucianism, Taoism, Judaism, Christianity,
and Islam. HU

REL211 Religion in America5(55/0)A study of American religious groups, principally Christian denominations, including selected sects and cults.Various beliefs and practices will be examined in light of
historical and social influences.

Science

5 (55/0)

SCI 101 Survey of Science 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

(55/0)

ogy program

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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 0098 or higher and placement in English 099 of higher (F,W,S,SU) SS

SOC& 201 Social Problems (55/0) 5 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 (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.

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

WLD 102 ARC/GMAW Welding for Automotive (11/22)Technicians 2 This course covers the fundamentals of the GMAW

guarter. Prerequisite: Enrollment in automotive technol-

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 guarter. This course is FAA approved under 14 CFR Part 147.

Prerequisite(s): Enrollment in AMT 151 or AMT 152

WLD 110 Welding Theory I (55/0)5 General introduction to industrial welding and cutting. Safety rules of oxy-fuel, electric welding processes, principles, and electrodes.

WLD 111 Welding Process I* 3-6 (0/66-132) IAn introduction to the Shielded Metal Arc Welding process. Students will perform beads, fillets and Plate tests in all position with E6010 and E7018 Electrodes. Students must complete all 6 credits of WLD 111 prior to enrolling in WLD 121.

WLD 112 Thermal Cutting and Welding*

(0/66)

Various techniques of steel cutting with oxy-fuel, air carbon arc, plasma arc processes and oxy-acetylene welding and brazing with various metals.

WLD120 Welding Theory II5(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

WLD121 Welding Process II*3-6 (0/66-132)An introduction to welding open root joints.Students useE6010 to complete open root corner joints out of positionand open root plate tests out of position.and open root plate tests out of position.Students mustcomplete all 6 credits of WLD 121 prior to enrolling inWLD 131.Prerequisite: 6 credits of WLD 111

WLD122 Gas Metal Arc Welding I3(0/66)Students will learn to apply the Gas Metal Arc Welding(MIG) process on steel in all positions using the shortcircuit transfer mode and the spray transfer mode in theflat and horizontal positions. Prerequisite: WLD 112

WLD130Welding Theory III5(55/0)Basic welding blueprint reading and interpretations of
conventional drafting, symbology, and specialized weld-
ing symbols: basic lines and views, dimensions, welding
symbols, abbreviations, pipe welding symbols, NDT
symbols and ISO welding symbols. Prerequisite: WLD
120 or Instructors permission

WLD131 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 per-
formance certification tests. Students must complete all
6 credits of WLD 131 prior to enrolling in more advanced
welding classes. Prerequisite: 6 credits of WLD 121

WLD 132 Gas Tungsten Arc Welding I (T.I.G.)* 3 (0/66)

Students will learn to apply the Gas Tungstenl Arc Welding (TIG) process on steel and aluminum. short circuit transfer mode . Prerequisite: WLD 122

WLD 151 Technical Drawings Interpretation

(22/22)

Basic technical drawings interpretation skills for welding engineering to develop abilities in reading and understanding technical drawings; emphasis on visualization and sketching of multi-view, isometric, schematic, and pictorial drawings. Tech Prep credit available. Prerequisite: MAP 101 or instructors permission. WLD 152 Welding Layout I 3 (22/22) Specialized weldment drafting techniques; intersections and developments, patterns for geometric shapes used in cardboard, sheet metal and structural shapes: fabrication and model construction. Prerequisite: WLD 151 or instructors permission.

WLD153 Welding Layout II3(22/22)Basic technical pipe drawing interpretations and developments.Patterns for geometric shape used in pipecomponent 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

(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.

WLD207Welding Metallurgy4(33/22)An introduction to metallurgy.Ferrous and nonferrousmetals, alloys and their groupings will be covered.Pre-requisite:WLD 206 or instructors permission

WLD212 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.Prereq-
uisite: 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

WLD242Structural Welding I3(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

WLD244 Submerged Arc Welding3(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 deposi-
tion 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 153, 243, or instructor permission

WLD 261 Production Weld Process I 6 (0/132) An introductory course focusing on student learning of production welding techniques by applying the Gas Metal Arc, Flux Cored Arc, and Gas Tungsten Arc Welding processes. Prerequisite: WLD 131 or instructor permission

WLD262Production Weldinng I3(0/66)This course focuses on student learning of production
welding within a shop setting. Prerequisite:WLD 212 orinstructors permission

WLD 263 Production Weld II 6 (0/132) An intermediate course that focuses on student learning of production welding techniques by applying the Gas Metal Arc, Flux Cored Arc, and Gas Tungsten Arc Welding processes on large parts in accordance with drawings. Prerequisite: WLD 261 or instructor permission

WLD 264 Advanced Weld Process 3 (0/66) An advanced course focusing on student learning of welding processes such as pulsed gas metal arc, pulsed gas tungsten arc, and welding on advanced materials i.e., titanium and inconel. Prerequisite: WLD 262 or instructors permission.

WLD 265 Production Welding Process III 6

(0/132)

An advanced production welding course focusing on application of Gas Metal Arc, Flux Cored Arc, and Gas Tungsten Arc Welding processes on small parts in accordance with drawings. Parts will be welded in student manufactured fixtures. Prerequisite: WLD 263 or instructor permission

WLD281 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 withschedule 60, 80, 100, 120 and various size pipes. Maybe repeated for credit up to six credits. Prerequisite:WLD 131

WLD 282 Gas Tungsten Arc Welding II (TIG)* 3 (0/66)

TThis 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.

WLD283 Pipe Welding II3-6 (0/33-132)Students will enhance carbon steel pipe welding in 1G,2G, 5G, and 6G positions using E-6010 and E-7018electrodes with schedule 60, 80, 100 and 120 pipes andvarious other sizes of pipes. May be repeated for creditup to six credits. Prerequisite: WLD 281

WLD 284 Gas Tungsten Arc Welding III (T.I.G.)* 3 (0/66)

Students will gain advanced skills on carbon steel pipe in the 2G, 5G, 6G positions, carbon steel pipe with stainless steel rods, and stainless steel pipe in the 2G, 5G, and 6G positions. Prerequisite: WLD 282 or instructors permission.

WLD285 Pipe Welding III3-6(0/33-132)This course focuses on pipe welding 1G, 2G, 5G, and
6G positions using E-6010 and E-7018 rods and a combi-
nation 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

WLD 297 Work Based Learning Seminar

(11/0)

Feedback and discussion to integrate and relate Work Based Learning and classroom based instruction. Work ethic, leadership, safety and occupational health, environmental issues, and other student generated topics are examined. May be repeated up to six (6) credits. Corequisite: WLD 295

WABO TESTING

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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)Mathematics B.S., M.S., Western Washington University | Jennifer de |
|--|--|
| LoraLyn Allen (2008)Coordinator of Disability | B.A., B.Ed. |
| Services/Student Advisor B.A., Washington State University | Kathleen Du B.S., Unive |
| Luis Alvarez (2011)TRiO Student Support Services | |
| Senior Academic Advisor A.A.S., Big Bend Community College; B.A., B.S., Washington State University | Andrea Ellio B.A., Unive |
| William Autry (1995) Industrial Systems Technology A.A.A., Wenatchee Valley College; WA State Certified (07) Industrial Electrician; CIMM (Certified Industrial Maintenance Mechanic-ISA); CIRO (Certified Industrial Refrigeration Operator-RETA) | Sonia Farag B.S., Ain Sł Kyle Forema |
| James Ayers, Jr. (2013)Industrial Electrical Maintenance WA State Certified (01) Master Electrician | FEMA Eme Certificate; Certified Ind |
| Daneen Berry-Guerin (2005)Dean of Professional Technical Education B.A., Eastern Washington University; M.B.A., American Intercontinental University | System Ins Tim Fuhrma A.A.S., Big University; |
| Erik Borg (2000)Aviation Maintenance Technology A.A.S., Big Bend Community College; B.S., Central Washington University; FAA certificates include Commercial Pilot, Airplane Single and Multi-Engine Land, A&P Mechanic, Inspection Authorization, Designated Maintenance Examiner | Kara Garrett B.A., Weste Internationa Gephart, He |
| Jody Bortz (2009)Workforce Training Instructor B.A., B.A.Ed., Central Washington University | Guillermo G Class A CD Certificatior |
| Jennifer Brooks (2006)Nursing B.S.N., University of South Australia; M.C.E., Flinders University | Kim Garza (|
| John Carpenter (1994) English B.A., M.A., University of Idaho | B.A., Easte |
| Katherine Christian (2004)Director of Health Education Programs B.A., University of Southern California; B.S.N., University of New York; M.S.N./Ed, University of Phoenix | A.A., A.A.S University; Land, Airpla Airplane/Go Instrument/ |
| Steve Close (2004)English A.A., Contra Costa Community College; B.A., San Francisco State University; M.A., Ph.D., University of Oregon | Lindsay Gro B.A, B.A., N |
| Caren Courtright (2007) Director of Bookstore | Mercedes G B.S.N., Uni |
| Kent Dannenberg (2012) Aviation Maintenance Technology | André Guzm |
| Airframe and Powerplant Training Technical Certificate, San Bernardino Valley College; FAA certificates include Airframe and | A.A., Big Be University; |
| Powerplant; Private Pilot with Instrument Rating Todd Davis (2008) Director of Facilities and Operations | James Ham B.S., Easte |
| Michael De Hoog (2001) Activity Center Coordinator | 2.3., 20010 |
| Anita De Leon (1999)Director for TRiO Upward Bound | David Hamn B.A., Brigha |
| B.A., M.S.W., University of Washington | |

| Jennifer de Leon (2007)Online Student Services Developer |
|---|
| B.A., B.Ed., Central Washington University |
| Kathleen Duvall (2005)Biological Sciences B.S., University of California at Davis; M.S., Brigham Young University |
| Andrea Elliott (2008)Online Instructional Designer for the Nursing Program |
| B.A., University of Puget Sound |
| Sonia Farag (2007)Mathematics B.S., Ain Shams University; M.S., Central Washington University |
| Kyle Foreman (2012) Director of Campus Safety & Security |
| FEMA Emergency Management Professional Development Certificate; FEMA All Hazards Public Information Officer; WA State Certified Incident Command System/National Incident Management System Instructor |
| Tim Fuhrman (1998)Dean of Information Resources A.A.S., Big Bend Community College; B.A., Central Washington University; M.A., University of Arizona |
| Kara Garrett (1987) Dean of Arts & Sciences B.A., Western Washington University; M.A., TESOL School for International Training |
| Gephart, Heidi (2014)Counselor |
| |
| Guillermo Garza (2007) Commercial Driver's License Class A CDL License; Endorsements P1, T, N; Instructor Certifications |
| Class A CDL License; Endorsements P1, T, N; Instructor Certifications Kim Garza (2012)Vice President of Human Resources & Labor |
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| Class A CDL License; Endorsements P1, T, N; Instructor Certifications Kim Garza (2012)Vice President of Human Resources & Labor |
| Class A CDL License; Endorsements P1, T, N; Instructor Certifications Kim Garza (2012)Vice President of Human Resources & Labor B.A., Eastern Washington University John Gillespie (1995) Aviation/Flight A.A., A.A.S., Big Bend Community College; B.A., Gonzaga University; FAA certificates include Airplane Single and Multi-Engine Land, Airplane Single Engine Sea; Commercial Privileges, Instrument Airplane/Gold Seal Flight Instructor, Airplane Single and Multi-Engine |
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David Holliway (2011).....Psychology/Sociology B.A., M.A., University of New Mexico; Ph.D., University of Washington

- Jeremy Iverson (2005)....Assistant Director of Financial Aid B.S., Eastern Oregon University
- Kim Jackson (2000).....Director of Student Programs B.A., Brigham Young University; M.Ed., Heritage University

Barbara Jacobs (1972) Biology B.S., M.S., Washington State University; M.T., American Society of Clinical Pathologists

Terry Kinzel (1999).....Director of Cooperative and Institutional Title V Grants A.A., Big Bend Community College; B.A., Western Washington University; M.Ed., Heritage University

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Dennis Knepp (2000).....Philosophy B.A., Wichita State University; M.A., Ph.D., Washington University

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Stephen Lane (1987)......Mathematics B.S., M.S., Northern Arizona University; B.A., Central Washington University; M.A., University of California, Dominquez Hills

Jameson Lange (2013)Assistant Activity Center Coordinator/Assistant Baseball Coach

Beth Laszlo (2012)..... Coordinator for the Center for Business and Industry Services B.A., Central Washington University

Terrence Leas (2012) President B.S., Ph.D., Florida State University; M.Ed., Valdosta State College

Angela Leavitt (2001).....Foreign Language A.A., Big Bend Community College; B.S., Brigham Young University; B.A., M.A., Washington State University

Ryann Leonard (2005)..... Psychology/Criminal Justice B.A., Western Washington University; M.S., Ph.D., Florida International University

John Martin (2014).....Automotive Technology ASE Master Automobile Technician, Service Consultant, Advanced Level Specialist; Toyota Certifications

Shawn McDaniel (2004)...... Welding Technology A.A.S., Electronic Engineering; American Welding Society: CWI (Certified Welding Inspector) 01110781, CWE (Certified Welding Educator) 0111009E

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Jenny Nighswonger (2004).......Early Childhood Education Specialist/Curriculum Development Specialist B.A., Eastern Washington University; M.A., Grand Canyon University

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Mark Poth (1987) Communications/Men's Basketball Coach B.S., Brigham Young University; M.A., University of Hawaii

Christopher Riley (2001)History/Political Science B.A., Pacific University; M.A., Pepperdine University

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Hugh Scholte (2005).....Director of Residence Halls Scottish Certificate of Education; Diploma of Higher Education, University of Paisley

Kenneth Schrage (2014)......Operations Coordinator for the Japanese Agricultural Training Program

- Jeremy Seda (2013)......Web & Multimedia Specialist B.B.A., Gonzaga University
- Kate Shuttleworth (1999) English Lab Coordinator B.A., San Francisco State University
- Douglas Sly (1985).....Director of Public Information B.A., Eastern Washington University

Elizabeth Sullivan (2004).....Librarian B.S., Skidmore College; M.L.I.S., Simmons College

| Matthew Sullivan (2003) English B.A., University of San Francisco; M.F.A., University of Idaho |
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| Heidi Summers (2009) Director of WorkFirst Educational Services |
| B.S., Oregon State University; M.A.Ed., Virginia Tech |
| John Marc Swedburg II (2010) Aviation/Flight A.A.S., Big Bend Community College; B.S., Embry-Riddle Aeronautical University; FAA Certificates: Single and Multi-Engine Airline Transport Pilot; Single and Multi-Engine Flight Instructor; Instrument Instructor |
| Custodio Valencia (2005) Director of Student Support |
| Services A.A., Big Bend Community College; B.A., Eastern Washington University ; M.Ed., Washington State University |
| Diana Villafana (2003 Student Success Center |
| Coordinator A.A.S., Big Bend Community College; B.A., Heritage University |
| Rafael Villalobos, Jr. (2012)STEM Support Specialist B.A., Central Washington University; M.Ed., Heritage University |
| Valerie Wade (1978) Developmental Education/ Basic Skills |
| B.S., Western Oregon State College; M.Ed., Heritage University |
| Tyler Wallace (2008)Director of Basic Skills A.S., Blue Mountain Community College; B.A., B.S., M.A.T., George Fox University; M.A., University of Houston Deena Westerman (2008)Event & Conference Representative A.A.S., Big Bend Community College; B.A., University of Washington |
| Zach Welhouse (2013)eLearning Coordinator |
| B.A., Cornell College; M.A., Kansas State University; M.L.I.S., University of Washington |
| Barbara Whitney (1990)Mathematics A.A., Keystone Junior College; B.S., Bloomsburg University; M.Ed., University of Delaware |
| Preston Wilks (1996) Accounting and Business/ Head Women's Basketball Coach/Athletic Director A.A.S., Big Bend Community College; B.S., M.S., Brigham Young University; Certified Public Accountant |
| Tom Willingham (2004)B.I.M. Lab Coordinator |
| Sue Workman (2000) Academic Coordinator for |
| TRIO Upward Bound A.A., Lower Columbia College; B.A., Washington State University |
| Richard Wynder (2009)Automotive Technology Automotive Service Technology Diploma, Southern Alberta Institute of Technology; Block Competency, Central Washington University; Washington Career/Technical Teaching Certificate; Alberta Journeyman; Canada Inter-Provincial Journeyman; ASE Master Technician |
| MariaAnita Zavala-Lopez (2000)Counselor B.A., University of Washington; Ed.M., Washington State University |
| |

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) Instructor Emeritus |
|---|
| Dr. Peter D. DeVries (1978-1987) President Emeritus |
| Dr. Robert Mason (1962-1991)Dean Emeritus |
| Leroy Ledeboer (1965-1991) Professor Emeritus |
| Dr. Leroy Johnson (1980-1990) Professor Emeritus |
| Ron Graff (1967-1993) Professor Emeritus |
| Don Wright (1966-1988) Professor Emeritus |
| Fred Huston (1964-1984)Dean Emeritus |
| Larry Petersen (1968-1993) Professor Emeritus |
| Wayne Freeman (1973-1992) Professor Emeritus |
| Stephen Tse (1966-1996) Professor Emeritus |
| Rex Wilks (1966-1995) Professor Emeritus |
| Dr. Robert J. Wallenstien (1966-1977) |

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Inquiries may be made to:

Kim Garza, Vice President of Human Resources and Labor, Title IX Coordinator, 509.793.2010

Loralyn Allen, Coordinator of Disability Services/ Student Advisor, 509.793.2027

Big Bend Community College 7662 Chanute Street NE Moses Lake, WA 98837

If you are a person with a disability and require an accommodation, please contact 509.793.2010 (or TDD 762.6335) as soon as possible to allow sufficient time to make arrangements.

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