

COURSE
CATALOG
2025-2026



BIG BEND
COMMUNITY
COLLEGE



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General Information

Letter from the President



Welcome to Big Bend Community College (BCC)!

As our vision states, we want to be our community's first choice to dream, learn, and succeed. We take our commitment to student

success seriously. Our mission is to serve as a bridge, stand as a leader, and support for success. In fulfillment of that mission, we have carefully designed academic and workforce education programs as well as other structured support such as financial assistance, counseling, tutoring, and access to food and emergency supplies. Students can also reach out to student services professionals virtually and in-person for guidance and support. Big Bend faculty offer classes virtually, in-person, as well as in a "hybrid" model—a mix of virtual and in-person. In addition to academic and support services. These class offerings allow for students with work, family, and other responsibilities to make progress toward their degree. Big Bend also offers opportunities for students to engage with one another through ASB student programs and events as well as through our athletic programs.

The 2025-26 Course Catalog is a resource designed to familiarize you with Big Bend. Know that we are here for you and our sincerest desire is your success!

All the best in your educational pursuits!

A handwritten signature in black ink, reading "Sara Thompson Tweedy". The signature is fluid and cursive, with a large initial "S" and a stylized "T" for the last name.

Dr. Sara Thompson Tweedy
President of Big Bend Community College

Academic Calendar 2025–2026

(dates subject to change without notice)

	Summer 2025	Fall 2025	Winter 2026	Spring 2026	Summer 2026
Financial Aid Priority Deadline	April 15	July 15	Nov. 15	Feb. 15	April 15
Advising Begins	April 28	April 28	Oct. 13	Jan. 26	April 20
Priority Enrollment	May 19–21	May 19–21	Nov. 17–19	March 2–4	May 26–28
New Student Enrollment	New students will meet with advisors and enroll during New Student Enrollment (NSE) sessions. Complete Online Orientation to reserve your NSE date.				
Open Enrollment	May 27	Sept. 4	Dec. 17	March 16	June 17
Running Start Enrollment Verification Forms Due	June 5	Sept. 4	Dec. 11	March 12	June 4
Tuition Due	June 12	Sept. 11	Dec. 18	March 19	June 11
Instruction Begins	July 1	Sept. 22	Jan. 5	April 1	July 1
Last day to add a class to your schedule (with instructor permission)	July 7	Sept. 25	Jan. 8	April 7	July 6
Last day to drop a class	Aug. 1	Nov. 19	March 3	May 27	Aug. 5
Instruction ends	Aug. 8	Dec. 3	March 17	June 10	Aug. 12
Final exams	Last day of instruction	Dec. 4–9	March 18–23	June 11–16	Last day of instruction
Grades available	Aug. 15	Dec. 17	March 31	June 24	Aug. 19
Graduation Application Due	July 28	Dec. 1	March 9	April 27	July 27
Commencement				June 18	
No classes are held these days:	July 4	November 11 November 26–28	January 19 February 16	May 25	July 3

Revised 03/05/2025



Accreditation

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

Board of Trustees

Mr. Rosendo Alvarado
(Appointed 2024), Moses Lake

Mr. Gary Chandler
(Appointed 2022), Moses Lake

Ms. Anna Franz
(Appointed 2012), Moses Lake

Ms. Bethany Martinez
(Appointed 2022), Mattawa

Ms. Amy Parris
(Appointed 2021), 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

Vision, Mission, and Guiding Principles

Vision

Be our community's first choice to dream, learn and succeed

Mission

Serve as a Bridge
Stand as a Leader
Support for Success

Guiding Principles

Honor our Role as a Hispanic-Serving Institution
Advocate for Equity, Inclusion, & Diversity
Embrace our Workplace Norms
Innovate Proactively
Model Integrity
Educate All

Board Ends Statements

E-1 Student Success

Big Bend Community College provides the entire district with access to learning opportunities, assists students in completion of their educational and workforce development goals, develops skills for continued learning, and maintains high academic standards.

E-2 Community Engagement

Big Bend Community College supports economic development by nurturing community and industry partnerships to enhance access and service to our district.

E-3 Stewardship

Big Bend Community College acts as a responsible steward of resources by promoting accountability, sustainability, ethics, and prudent resource management to provide quality and affordable resources to our district.

E-4 Diversity, Equity, Inclusion

Big Bend Community College fosters inclusiveness for students, employees, and visitors by maintaining a safe learning environment promoting cultural inclusiveness and respect by embracing diversity, access, opportunity, and equity.

Civil Rights Non-Discrimination Statement

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

her child, AIDS/HIV or hepatitis C, genetic information and/or status as a veteran, or any other legally protected status.

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

Big Bend Community College encourages persons with disabilities to participate in its programs and activities. If you anticipate needing any type of accommodation or have questions about the physical access provided, please contact the individuals noted below as soon as possible to allow sufficient time to make arrangements. The following persons have been designated to handle inquiries regarding non-discrimination policies and requests for accommodations:

Kimberly A. Garza, Vice President of Human Resources & Labor
Equal Opportunity Officer/Title IX Coordinator/
Section 504 Coordinator
Building 1400, Second Floor, Room 1449
509.793.2010

Aaron Glenn, Accommodation and Accessibility Services Coordinator
Building 1400, First Floor, Room 1472
509.793.2027 or TDD 509.793.2325

Discrimination

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

with a disability, marital status, pregnancy status or families with children, a mother breastfeeding her child, AIDS/HIV or hepatitis C, genetic information and/or status as a veteran, or any other legally protected status.

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

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

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

Aaron Glenn
Accommodation and Accessibility Services
Coordinator
7662 Chanute Street NE Building 1400, Office 1473
Moses Lake, WA 98837 (509) 793-2027

Affirmative Action and Diversity Statement

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

Big Bend Community College District 18 provides equal opportunity in education and employment and does not discriminate against anyone on the basis of race, sex, sexual orientation, gender identity/expression, religion, age, color, creed,

national or ethnic origin, the presence of any physical, mental, or sensory disability, use of a trained guide dog or service animal by a person with a disability, marital status, pregnancy status or families with children, a mother breastfeeding her child, AIDS/HIV or hepatitis C, genetic information and/or status as a veteran, or any other legally protected status.

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

To receive this information in an alternative format, please contact:

Aaron Glenn
Accommodation and Accessibility Services
Coordinator
7662 Chanute Street NE Building 1400, Office 1473
Moses Lake, WA 98837 (509) 793-2027

Clery Act

The Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act (Clery

Act) is a federal statute codified at 20 U.S.C. § 1092(f), with implementing regulations in the U.S. Code of Federal Regulations at 34C.F.R. 668.46. The Violence Against Women Act of 2013 adds additional requirements under the Campus Sexual Violence Act (SaVE Act) provision, Section 304.

The Clery Act requires all colleges and universities that participate in federal financial aid programs to keep and disclose information about crime on and near their respective campuses. Compliance is monitored by the United States Department of Education, which can impose civil penalties (up to \$62,689 per violation) against institutions for each infraction and can suspend institutions from participating in federal student financial aid programs.

The law is named for Jeanne Clery, a 19-year-old Lehigh (Penn.) University freshman who was raped and murdered in her campus residence hall in 1986. The backlash against unreported crimes on numerous campuses across the country led to the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act. The Clery Act, signed in 1990, was originally known as the Crime Awareness and Campus Security Act.

In compliance with the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act (Clery Act), BBCC's Annual Security and Fire Report contains statistics of Clery Act crimes that are reported and that occurred on campus, in other locations owned or controlled by BBCC, and on public property within or immediately adjacent to and accessible from the campus for the three most recent calendar years.

All students are encouraged to review the report and to report all criminal or fire related incidents promptly to the Campus Safety Department.

BBCC's Annual Security and Fire Safety Report, can be found online <https://www.bigbend.edu/wp-content/uploads/BBCC-ANNUAL-SECURITY->

[AND-FIRE-SAFETY-REPORT.pdf](#): A printed copy of the report may be obtained by contacting Campus Safety at 509-793-2286, or visiting at 7662 Chanute St NE, Moses Lake, Washington.

Disclaimer Statement

This catalog and its components shall not constitute a contract between Big Bend Community College and prospective or enrolled students. The information contained in this catalog reflects the current policies and regulations of the college. However, the college reserves the right to make changes in its policies and regulations at any time. If policies or regulations of the college at any time conflict with information contained in this catalog, the policies and regulations will govern, unless expressly determined otherwise by the Board of Trustees. The college reserves the right to eliminate, cancel, phase out or reduce in size courses and/or programs for financial, curricular or programmatic reasons.

Limitations of Liability

The college's total liability for claims arising from a contractual relationship with the student in any way related to classes or programs shall be limited to the tuition and expenses paid by the student to the college for those classes or programs. In no event shall the college be liable for any special, indirect, incidental or consequential damages, including but not limited to, loss of earnings or profits.

Areas of Interest

Our degrees and certificates largely fall within one of our six focus areas. Each of these areas may include workforce and transfer options

Aviation

- Bachelor of Applied Science - Applied Management (BAS-AM degree program)
- Commercial Pilot/Flight (AVF)

- Aviation Maintenance Technology Powerplant/Airframe (AMT)
- Uncrewed/Unmanned Aircraft/Aerial Systems Commercial Remote Pilot (Drone) (UAS/UMS)

Business

- Accounting (ACCT)
- Agribusiness-Agriculture Programs (AGR)
- Agriculture Mechanics (AGM)
- Bachelor of Applied Science - Applied Management (BAS-AM degree program)
- Business Administration (BUS)
- Business Information Management (BIM)

Healthcare

- Bachelor of Applied Science - Applied Management (BAS-AM degree program)
- Medical Assistant (MA)
- Medical Office and Billing Support Services (BIM)
- Nursing Assistant (NA-C)
- Nursing (NUR)
- Pre-Professional Transfer (Pre-MED)

Industry, Manufacturing & Trades

- Automotive Technology (AUT)
- Aviation Maintenance Technology Powerplant/Airframe (AMT)
- Agriculture (AGR)
- Bachelor of Applied Science - Applied Management (BAS-AM degree program)
- Commercial Driver's License (CDL)
- Computer Science (CS)
- Industrial Systems Technology (IST)
- Manufacturing & Process Technology (MPT)
- Mechatronics (MCT)
- Welding (WLD)

STEM

- Agriculture (AGR)
- Astronomy (ASTR)
- Bachelor of Applied Science - Applied Management (BAS-AM degree program)
- Biology (BIOL)

- Botany (BOT)
- Chemistry (CHEM)
- Computer Science (CS)
- Engineering (ENGR)
- Manufacturing & Process Technology (MPT)
- Mathematics (MATH)
- Mechatronics (MCT)
- Physic (PHYS)

The Arts, Education and Human Services

- Anthropology (ANTH)
- Art (ART)
- Bachelor of Applied Science - Applied Management (BAS-AM degree program)
- Criminal Justice (CJ)
- Early Childhood Education (ECE)
- Economics (ECON)
- Education (EDUC)
- English (ENGL)
- History (HIST)
- Homeland Security and Emergency Management (HSEM)
- Music (MUSC)
- Philosophy (PHIL)
- Physical Education (PEH)
- Political Science (POLS)
- Psychology (PSYC)
- Religious Studies (RELS)
- Sociology (SOC)
- World Languages (Previously Foreign Languages) (FRCH, GERM, SPAN)

Admissions

Prospective students must apply for admission to BBCC. 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/or limited space; therefore, admission to BBCC does not guarantee the availability of all programs. Enrollment priority is given to officially admitted **award-seeking** students.

Admission Checklist

1. Apply for admission online at <https://apply.ctc.edu>. (Email admissions@bigbend.edu or call 509.793.2089 if you need an alternative way to apply.) Once your application is processed, you will receive an acceptance letter from the college with important information via the email address provided on your application. Transfer students: Contact your previous school(s) to order official transcripts and have them mailed to: Admissions/Registration Big Bend Community College, 7662 Chanute Street NE Moses Lake, WA 98837-3299
2. Apply for Financial Aid at www.studentaid.gov and learn about other funding options at <https://www.bigbend.edu/student-center/paying-for-college/>. Important dates and deadlines are located at <https://www.bigbend.edu/academics/datesdeadlines/>. Email faidinfo@bigbend.edu or call 509.793.2088 for assistance.
3. [Submit documentation](#) for math and English placement. Math and English placements are important steps for ensuring you enroll in the appropriate courses in your first quarter. Please visit <https://www.bigbend.edu/student-center/testing-center/> for more information on placement options. Email testingcenter@bigbend.edu for assistance.
5. New students are required to complete [Online Viking Orientation](#) before signing up for a New

Student Enrollment session and enrolling in classes. The online orientation is a resource for you to refer back to at any time. Sign-up for a New Student Enrollment (NSE) session at the end of [Online Viking Orientation](#). NSE sessions occur before fall, winter, and spring quarters. At these sessions, new students will meet with advisors to understand math and English placements, learn how to find important resources at BBCC, choose first-quarter classes, and learn how to enroll in classes.

6. Once enrolled in classes, save your spot by paying tuition or signing up for the Student Tuition Easy Payment Plan (STEPP). Enrollment in classes is not official until tuition and fees are paid! Classes could be dropped if you do not pay or sign up for the payment plan by the due date. Tuition due dates are available on the [Academic Calendar](#). Email businessoffice@bigbend.edu or call 509.793.2018 for assistance with payment or the payment plan.

Resident Classification for Tuition

To be considered a resident for the 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. 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 the establishment of domicile in this state unless the student proves domicile was established for purposes other than educational.

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 both of the following conditions may qualify for resident status: have earned a high school diploma, GED, or diploma equivalent before the first term at the college AND have maintained a primary residence in Washington State for at least 12 consecutive months immediately before the first term at the college. Students who meet these criteria and have applied for admission must submit a signed [WA Higher Education Residency Affidavit](#) to qualify for resident status for tuition purposes.

Once a student has been classified as resident or nonresident and enrolled in classes, 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:

- Permanent full-time or part-time employment in the state of Washington.
- Purchase of property in the state of Washington.
- Registration of all vehicles in the state of Washington.
- Registration to vote in the state of Washington.
- Valid Washington State driver's license.
- Rent receipts from an apartment or home in the state of Washington.
- Establishment of bank accounts in the state of Washington.

To request a form to petition for a change in residency status, email

admissions@bigbend.edu. Detailed instructions are provided on the form. Completed and signed forms and related documentation must be submitted by the 30th calendar day of the quarter if the change is to take effect for that quarter. Residency change requests submitted after this day will be considered for the next quarter.

Placement Testing

New students seeking a BBCC degree or planning to enroll in math or English courses must [submit approved documentation](#) to determine math and English placement. For more information on alternative placement, visit: <https://www.bigbend.edu/student-center/placement-options/>. Placement needs to be established prior to meeting with an advisor and enrolling in classes.

Students living out of the area may take a math placement test at a local college and have their score sent directly to the BBCC Testing Center at testingcenter@bigbend.edu.

Email the BBCC Testing Center at testingcenter@bigbend.edu for questions about testing options and appointments.

Viking Online Orientation (New Student Orientation)

All new students are required to complete [Viking Online Orientation](#) prior to attending a New Student Enrollment (NSE) session. The orientation is self-paced. New students will gain knowledge on general college information, paying for college, connecting to support programs, student life, campus safety, and next steps. The online orientation is a resource students can refer back to any time they have questions.

Dual-Credit Programs

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

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 program of study. Books, supplies, lab fees, and transportation are the responsibility of the student. Students are responsible to pay for any credits above their approved number and for 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 enrollment, school district advising and approval/certification of student programs is required.

To be admitted to BBCC as a Running Start student, students must: be registered as a junior or senior in a Washington state public school, be under 21 years of age, and place into a college-level English or college-level mathematics course. (College-level classes are numbered 100 and above.) Students who will take only professional/technical courses, such as welding,

industrial systems technology, etc., may qualify by placement into the required English and mathematics for that program.

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

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

For additional program information, students may contact their high school counselor, email admissions@bigbend.edu or call 509.793.2089 for assistance.

Career and Technical Education (CTE)

CTE Dual Credit (Formerly Tech Prep)

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

College in the High School

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

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

Advanced Placement (AP)/International Baccalaureate (IB)

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

Entering Transfer Students

Admitted degree-seeking students transferring to BBCC will be given appropriate credit for college level work completed at a regionally accredited institution. Students must submit official transcripts from each institution attended to the Admissions/Registration Office for evaluation. Credit will be awarded on the basis of official college 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). Additional information about the transfer evaluation process is available on the BBCC website.

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, email admissions@bigbend.edu or call 509.793.2089.

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 more information, email admissions@bigbend.edu or call 509.793.2089.

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

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.

Prospective international students will find all application requirements on the BBCC website at <https://www.bigbend.edu/i-am/international-general-information/>.

International Student Admission Requirements, below, must be completed at least 60 days prior to the first day of class. See webpage link, above, for contact information.

- BBCC international student application for admission form (provided to prospective student upon request; see website above for contact information).
- Copy of high school transcripts submitted with official English translation.
- Proof of adequate financial support to cover all expenses for one academic year (September through June) documented on the Declaration and Certification of Finances

form and accompanied by official bank documents or original signed letters that verify funds are available.

- Proof of English proficiency must be documented. One of the following is acceptable:
 - TOEFL internet based test minimum score of 12 on each section.
 - IELTS minimum score of 4 on each band
 - Successful completion of a college level English composition class (approved upon review of your official college transcript). English as a Second Language (ESL) classes may not be substituted.

To accept college-level credit from non-United States institutions, Big Bend Community College (BBCC) requires that students submit transcripts to a NACES certified international transcript evaluation service for a course-by-course evaluation. There are several such companies available, with varied requirements and fees. These companies have the contacts and qualifications to accurately evaluate different educational system credits and provide BBCC with credit equivalencies.

Upon successful completion of the admission requirements above, students who are approved for admission will be issued an I-20. Once the I-20 is issued, the prospective student must then apply for their F-1 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. Visit 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 all 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 have math and English placement prior to enrollment. This requirement may be fulfilled using high school or college transcripts or students may be required to take placement tests. 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.

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 with no more than one online course.
- Maintain satisfactory standards of progress.
- Obtain an official signature on the I-20 ID each time they leave the country.

Enrollment

Advising

Students with fewer than 30 earned credits must meet with their Academic

Advisor **each** quarter **prior** to enrollment. Your advisor will discuss your academic goals and help you identify possible courses for the upcoming quarter. You will have an *Advising Required* hold on your account, which your advisor will remove after you meet.

Students who are on Academic Concern (previously Probation) must also see their advisor prior to enrolling in courses each quarter. Students who are on Academic Concern have an

enrollment hold that can only be removed after meeting with an advisor. An *Advising Required* enrollment hold will remain active each quarter until the student reaches a 2.0 cumulative grade point average.

Dropping a Class

A student may drop classes up to approximately 10 days before the beginning of final exams without written permission from the instructor. The final date to drop is printed in the [Academic Calendar](#). Students may drop classes via their ctCLink Student Homepage under the “Manage Classes” tile. If you need assistance, email admissions@bigbend.edu or call 509.793.2089. Students who are receiving financial aid and wish to withdraw from all classes must inform personnel in the Financial Aid Office. Courses that are dropped during the first 10 days of Fall, Winter, and Spring Quarters (within the first six days for Summer Quarter) are not included on the student’s academic transcript. Courses dropped after the 10th day (6th day for Summer Quarter) will be recorded with a “W” on the transcript.

Refund Policy

Students who stop attending class(es) without officially dropping the class(es) may not be eligible for refunds and may 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(es) 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

*The Summer Quarter refund schedule is different, please email admissions@bigbend.edu for more information

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 the Frequently Asked Questions section at <https://www.bigbend.edu/student-center/financial-aid/>.

Active military personnel or reservists in any branch of the U.S. Armed Forces who withdraw, because they are called to active duty during a quarter, will be eligible for a 100% tuition refund for that quarter. A copy of the military orders must be provided. Students required to withdraw during the first half of a quarter because of the student’s medical condition will be eligible for a 100% tuition refund for the quarter. A healthcare provider’s statement must be provided. Please email admissions@bigbend.edu or call 509.793.2089 for more details about this process.

Enrollment

All students must complete the enrollment process before attending classes at BBCC.

- **New Students:** New Student Enrollment sessions are scheduled before the beginning of each quarter. At the New Student Enrollment sessions, students will meet with an advisor for help with class selection. Staff members are also available to assist with the online enrollment process.
- **Current Students:** If there is an Advising Required hold on your ctCLink account, you will need to meet with an advisor before you can enroll in the next quarter’s classes. You can enroll online via your ctCLink Student Homepage under the “Manage Classes” tile.

A class schedule is published on the BBCC web site approximately six weeks before the beginning of each quarter.

Enrollment Appointment Date and Time

Enrollment appointment times are the date and time when a student may enroll in classes for the upcoming term. Students are responsible for arranging an appointment with their advisor prior to their enrollment appointment time. Big Bend Community College is proud to offer priority enrollment for Veterans and Service Members who are eligible to enroll in classes before other student groups on the first day of priority enrollment. Please see the [Academic Calendar](#) for priority enrollment dates.

Continuously enrolled students are issued priority enrollment appointment times based on the total number of credits earned. Current students may find their enrollment appointment date and time on their ctcLink Student Homepage. Former BBCC students may email admissions@bigbend.edu or call 509.793.2089 for an enrollment appointment time based on the total number of credits earned. All new students (including those with transfer credits) may enroll during or after their new student enrollment session. Non-award seeking students may enroll on or after the open enrollment date posted in the [Academic Calendar](#).

Tuition and Fees

Resident Student Lower Division Tuition

1-10 credits, per credit	\$131.96
11-18 credits, additional per credit	\$65.09
Over 18 credits, additional per credit	\$118.39
Over 18 credits, Prof/Tech per credit	\$10.00

Resident Student Upper Division Tuition

1-10 credits, per credit	\$255.94
11-18 credits, additional per credit	\$13.29
Over 18 credits, additional per credit	\$242.37

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

1-10 credits, per credit	\$150.94
11-18 credits, additional per credit	\$66.10
Over 18 credits, additional per credit	\$118.39
Over 18 credits, Prof/Tech per credit	\$10.00

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

1-10 credits, per credit	\$274.92
11-18 credits, additional per credit	\$14.30
Over 18 credits, additional per credit	\$242.37

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

1-10 credits, per credit	\$339.30
11-18 credits, additional per credit	\$73.57
Over 18 credits, additional per credit	\$325.73
Over 18 credits, Prof/Tech per credit	\$33.00

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

1-10 credits, per credit	\$718.88
11-18 credits, additional per credit	\$14.30
Over 18 credits, additional per credit	\$705.31

Additional Fees

Technology Fee (per credit)	\$ 6.35
Test Proctor Fee (CLEP, TEAS)	\$25.00
General Education Development Test (GED)	\$120.00
Flight Insurance (estimate)	\$140.00
Placement Tests (each)	\$10.00

Audit fees are the same as listed above, depending on the classification of student status. Some courses have special lab fees in addition to normal credit hour charges.

Aviation Flight Fees

Aviation Flight Performance Deposit	\$500.00
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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

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 509.793.2241.

Nursing Fees

Nursing Program Deposit	\$250.00
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Students who are accepted into the Nursing program will be required to submit a deposit. The deposit will be applied to required background checks and testing fees. Should an accepted student decide not to enroll, a refund will be made as follows:

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

Residence Hall Fees

Subsequent years may vary according to the cost of living increase. Meal plans are not included.

Room and Damage Deposit*	\$300.00
Shared Room (per quarter)	\$1,230.00
Single Room (per quarter, if available)	\$1,765.00

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

*The \$300.00 room and damage deposit fee must be received by the BBCC Business Office before a room assignment can be confirmed.

NOTE: Annual increases to tuition are subject to State of Washington Legislation. Please check the

appropriate year's tuition and fee schedule at <https://www.bigbend.edu/student-center/tuition-and-fees/> for the most up-to-date rates.

In accordance with Title 38 US Code 3679 subsection (e), this school adopts the following additional provisions for any students using U.S. Department of Veterans Affairs (VA) Post 9/11 G.I. Bill® (Ch. 33) or Vocational Rehabilitation and Employment (Ch. 31) benefits, while payment to the institution is pending from the VA. This school will not:

- Prevent the student's enrollment;
- Assess a late penalty fee to;
- Require students to secure alternative or additional funding;
- Deny their access to any resources (access to classes, libraries, or other institutional facilities) available to other students who have satisfied their tuition and fee bills to the institution. However, to qualify for this provision, such students may be required to:
- Produce the Certificate of Eligibility by the first day of class;
- Provide a written request to be certified;
- Provide additional information needed to properly certify the enrollment as described in other institutional policies

* **GI Bill**® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government Web site at <https://www.benefits.va.gov/gibill>

The Student Center/Administration Building (1400) houses the Associated Student Body (ASB) Office, Student Activities, Student Success Center, TRiO – Student Support Services, Outreach and Recruitment, Testing Center, Student Administrative Support Services Offices (Admissions/Registration Office, Financial Aid, Student Employment, Veterans' Education Benefits, Counseling Center, the Dean of Student Services), and the Vice President of Learning and Student Success. Also located in this building are

the administrative offices (Business Office, Human Resources, Institutional Research, Public Information Office, and the President's Suite) Student information such as student bulletins, event notices, announcements, etc. are posted in this building.

Student Services

Academic Advising

Academic advisors help you understand degree requirements, select classes, and develop a balanced schedule as you work toward the completion of your educational plans. Advisors also assist you in accessing other departments and resources on campus that could best serve you in successfully reaching your educational and career goals.

Accommodation and Accessibility Services

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

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

Contact Information

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

Obtaining Services/Procedures

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

- To begin the process, students need to contact the Coordinator of Accommodation and Accessibility Services to request services, provide information about prior use of accommodations and services in other settings, and discuss the likely impact of the disability on the student's educational experience at BBCC.
- The student will need to complete and submit an intake Relevant documentation from external sources may also be requested to substantiate the disability and the student's eligibility for requested accommodations and services.
- Once the intake and requested documentation have been received, the student will meet with the Accommodations and Accessibility Coordinator to discuss eligibility for services and accommodation requests. • The Accommodation and Accessibility Coordinator will prepare a Letter of Accommodation (LOA) The LOAs need to be requested by the student each quarter. It is the responsibility of the student to inform the instructor and the

Accommodation and Accessibility Coordinator if there are questions regarding the implementation of the approved accommodations. We will work collaboratively to ensure implementation.

Accessible Parking

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

Disability Related Complaints

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

Bookstore

The BBCC Online Bookstore has closed, please visit our Course Materials page (<https://libguides.bigbend.edu/coursematerials>) for information on textbooks and Day One Access.

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.

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 profile 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 (Building 1300 A & B). Opened in 2004, the BBCC Learning Center Childcare accommodates children from the age of one month through 5 years of age. The center is licensed by the Washington State Department of Children, Youth & Families. Trained staff provides a safe, caring, and healthy environment for the children. Preschool included for children ages 2½ - 5 years. The center is open from 7:30 a.m. until 5:30 p.m. to accommodate students enrolled for day classes. The center is available to the children of BBCC students, staff, and the community. For information regarding fees and availability of space in the BBCC 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 their 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 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.

Drug & Alcohol Abuse Prevention

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

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

Big Bend Community College prohibits the unlawful manufacture, delivery, possession, or use of alcohol, marijuana in any form, other controlled substances, and drug paraphernalia while on college property, while conducting college business, and while participating in any college-sponsored activities whether on campus or not.

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

Sanctions

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

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

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

- **Alcohol** – Alcohol abuse is involved in the majority of violent behavior incidents: sexual assault, sexual misconduct, vandalism, fights, and driving under the influence. Alcohol (and other depressant) abuse results in impaired judgment and coordination, aggressive behavior, impairment in learning & memory, respiratory depression, coma, and possibly death when taken in excess or combined with other depressants.
- **Club Drugs (GHB, Rohypnol & Ecstasy)** – GHB is an illegal depressant (liquid or powder) which is odorless & colorless (therefore it can be easily slipped into drinks undetected). GHB can be used to facilitate rape because it causes impairments in judgment, sleepiness & amnesia. Rohypnol also known as “Roofies” is a strong depressant drug, commonly known as the “Date Rape” drug. When ingested with alcohol or other drugs, effects begin within three (3) minutes and peak within two (2)

hours. MDMA/Ecstasy/XTC is a hallucinogenic mind-altering drug. Adverse effects include confusion, depression, sleep problems, severe anxiety & paranoia, nausea, blurred vision, faintness, and the possibility long-term brain damage.

- **Cannabis**– The effects associated with cannabis use include: increased blood pressure, blood-shot eyes, dry mouth, hunger, impairment of short-term memory and concentration, altered sense of time, decreased coordination and motivation, psychological dependence, lung cancer, and possibly chronic lung disease after long-term use.
- **Methamphetamines/Amphetamines & other Stimulants** – Symptoms of stimulant abuse include: increased heart & respiratory rates, elevated blood pressure, dilated pupils, excessive perspiration, headache, dizziness, sleepiness, anxiety, and loss of appetite, coma, and death may result
- **Ritalin** – A prescription drug used to treat ADHD, ADD and other conditions. It has similar effects to those of cocaine and amphetamines. Ritalin is often abused for appetite suppression and/or to stay awake.
- **Narcotics (Heroin, Morphine, Codeine, Demerol, Percodan)** – Narcotics initially produce a feeling of euphoria followed by drowsiness, nausea, and vomiting. Overdose may cause slow and shallow breathing, clammy skin, convulsions, coma, and possibly death.
- **Hallucinogens (LSD, Mescaline, Cannabis, Magic Mushrooms)** – Hallucinogens or psychedelics are mind-altering drugs which affect the mind’s perceptions, causing bizarre, unpredictable behavior and severe, sensory disturbances that may place users at risk of serious injuries or death. The combination of hallucinogens with other substances, like alcohol or marijuana, can increase the chances of adverse effects and the risk of overdose.

- **Inhalants (glue, paint thinner, gasoline, laughing gas, aerosol sprays)** – Psychoactive substances inhaled as gases. Adverse effects may include nausea, sneezing, coughing, nosebleeds, fatigue, lack of coordination, brain & nervous system damage and possibly death.
- **Cocaine** – Use produces psychological & physical dependence. Adverse effects include elevated blood pressure, heart rate, respiratory rate & body temperature, increased risk of contracting HIV/AIDS (sharing needles), chronic use can result in ulceration and rupture of the mucous membrane.
- **Anabolic Steroids (Anadrol, Oxandrin, Durabolin, Stanozol, Dianabol)** – Man-made substances related to male sex hormones. Steroids are taken to improve physical performance as well as to enlarge muscles and increase strength. Negative effects of steroids include baldness, cysts, shrinking of testicles, oily hair and skin, acne, heart attack, stroke and change in voice. Hostility is also a frequent side effect of anabolic steroids.
- **Tranquilizers (Valium)** – Use of tranquilizers can induce calm and relaxation. Feelings will range from mild euphoria to drowsiness, confusion and light headedness. Hostility, blurred vision, hallucinations, lethargy, memory loss and irritability can also occur.

Information, Education, and Counseling

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

- BCC Counseling Center - 509.793.2035
- Alcoholics Anonymous - 509.664.6469

- Central WA Narcotics Anonymous - 877.664.0398
- Grant County Prevention and Recovery Center - 509.765.5402
- Dean of Student Services - 509.793.2077

Available Counseling, Treatment or Rehabilitation

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

Extra-Curricular Activities

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

Intercollegiate Athletics

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

Wrestling is also available for students. As a member of the National Junior College Athletic Association (NJCAA), the college sponsors men's and women's teams.

Students interested in being involved in intercollegiate athletics may contact one of the coaches or the athletic director at 509.793.2225. 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 much more. 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 spring quarter and every eligible student is encouraged to apply for a position. Executive officers receive a stipend for their services. ASB Executive Officers are as follows:

- President
- Vice President

- Secretary
- Public Relations Officer
- Recreation Coordinator
- Club Liaison

Student Organization & Areas of Involvement

Clubs and Communities are organizations 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 and Communities include Aviation Maintenance Technology Club, Agricultural Club, Welding Club, Aviation Club, Makers & Muses Club, M.E.Ch.A. Club, Criminal Justice Club, Club, Phi Theta Kappa Club, the Rook-ies Chess Club, LDS Student Association (LDSSA) Community, SAGA & Rainbow Connections Community, Earthlings (Environmental) Club, and Mechatronics Club. For information regarding joining or organizing a club or community, please contact the Student Activities Office in Building 1400 or call 509.793.2066.

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 and other donors may provide scholarships for students pursuing the different certificate or degree programs at BBCC.

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. This application determines eligibility for Federal, State, and institutional funding. Complete the FAFSA online at <https://studentaid.gov/h/apply-for-aid/fafsa>.

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 Washington College Grant and institutional funding by completing the WASFA. Complete the WASFA online at: <https://wsac.wa.gov/wasfa>

The financial aid year starts July 1st and ends June 30th. Students need to reapply for financial aid every year. The financial aid applications are available October 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 apply for federal, state, and institutional financial aid through the FAFSA a 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 a high school diploma or GED
- 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

Undocumented, non-citizen, and other students who are unable to complete a FAFSA may be eligible for state and institutional aid by completing the WASFA. The requirements of state aid consist of the following:

- Have a high school diploma or GED

- Have lived in Washington for at least one year prior to beginning college
- Have a signed affidavit (written promise) saying you meet the above requirements – this is included as part of the WASFA.
 - Non-U.S. Citizens must also promise that they will apply to become a permanent U.S. resident as soon as they are eligible.
- Is maintaining satisfactory academic progress

Financial Aid Programs

- *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.
- *Federal Supplemental Educational Opportunity Grant* – This is a federal grant program for the neediest students who are eligible for Pell.
- *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.
- *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.
- *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.

- *State Work Study* – This state funded program provides employment opportunities both on and off campus for students who are Washington residents with financial need. When possible, students are placed in positions relating to their major field of study or career goals.
- *Washington College Grant* – This is a state grant program for undergraduate students who meet the program’s income and Washington state residency requirements. It is an entitlement program which means, if the student is eligible, the funds will be available during the school year.
- *Big Bend Community College Grant* – Institutional grant awarded based on a student’s need.

Scholarships

All scholarship information, including application forms, may be obtained from the Financial Aid Office and online at www.bigbend.edu.

BBCC Foundation Scholarship

The BBCC scholarship application is online at <https://bbcc.awardspring.com> and filters applicants based on answers into scholarships whose criteria is met. At Big Bend Community College, we have over 100 scholarships and offer three different types of scholarships: Named Scholarships, Foundation General Scholarships, and Intervention Scholarships

Intervention scholarships can help cover unexpected emergencies that arise which prevent a student from completing their education and are awarded on emergency basis only. The Emergency Funding Application can be found online at www.bigbend.edu.

The BBCC Foundation governs a majority of the BBCC scholarships, and their office is located in the University Center Hallway in the ATEC/1800

building. More information, including the application, can be found online at: <https://www.bigbend.edu/i-am/foundation-scholarships/>.

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 online at <https://www.bigbend.edu/student-center/outside-scholarships/>.

Other Funding Resources

Basic Food Employment and Training

The Basic Food Employment and Training (BFET) program provides assistance with tuition, fees, books, transportation, and other support services to students who receive food benefits from DSHS. Participation in the BFET program will allow a student to keep food benefits while attending college, as well as access child care assistance through Working Connections Child Care. Students must be in a short-term (two-year or less) workforce education program of study in order to qualify.

Early Achievers Grant

The Early Achievers Grant is for students who are working toward a certificate or degree in Early Childhood Education and are employed in a childcare center or family home that is participating in Washington Early Achievers for a minimum of 40 hours per month or 10 hours per week. (See Washington State Department of Children, Youth, & Families: <https://www.dcyf.wa.gov/services/earlylearning-childcare/early-achievers>). The program will cover tuition, fees, books, and other support services for eligible students. Must be a Washington resident in order to qualify.

High School Equivalency Program (HEP)

High school completion or GED preparation for migrant/seasonal farmworkers and their dependents. Students enroll into our Basic Education courses (HS, GED, or ESL) and when eligible, will be enrolled into supplemental services and resources. Individuals must document farmworker or dependent status to qualify. Most classes are open-entry and self-paced. Times and locations can be found in the current quarterly class schedule or by contacting the Basic Skills Office at 509.793.2304 or by email at hepinfo@bigbend.edu or bedainfo@bigbend.edu

Opportunity Grant

The Opportunity Grant is for Washington State residents who meet the income criteria of 200% of poverty level. The program provides 45 credits of tuition and fee assistance, up to \$1000 per year for books and tools, and other support services for students in the following approved workforce programs: Accounting, Automotive Technology, Aviation Maintenance Technology, Business Information Management, Business Medical, CDL, Computer Science, Early Childhood Education, Industrial Electrical Technology, Maintenance Mechanics Technology, Medical Assistant, Nursing, Nursing Assistant-Certified, 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.

WorkFirst

WorkFirst is Washington State's welfare reform program for individuals who receive Temporary Assistance for Needy Families (TANF). DSHS administers TANF, which provides temporary cash for families in need. The WorkFirst program helps participants access education and training in order to find and keep jobs. Enrolling in Adult Education classes, including GED, High School

Diploma, and ESL as well as Workforce Education, qualify as WorkFirst participation. Through Workforce Education Services, participants may receive tuition and textbook assistance as well as advising and mentoring to ensure graduation and completion.

Worker Retraining

The Worker Retraining funding is a program which provides options for unemployed or underemployed workers to access education and training to maintain employment or to re-enter the workforce. The eligibility criteria includes:

- Currently receiving unemployment benefits
- Eligible to receive unemployment benefits
- Exhausted unemployment benefits within the past 48 months
- Displaced homemaker (loss of primary income due to becoming widowed, separated or divorced within the past 48 months)
- Military veteran discharged within the past 48 months. Students may be eligible to receive unemployment benefits while attending school and not participate in job search activities if the training meets the Commissioner Approved Training criteria approved by the Employment Security Department.

Work Study and Student Employment

Work study is a need-based financial aid award that is available to those who have completed a FAFSA for the current year. Work study is not applied directly to your student account. Instead, you are hired on for a job and will receive a paycheck for your hours worked. The Federal and State Work Study programs give you the opportunity to work a flexible job while you are attending college classes.

Some positions are also available to those who do not qualify for Work Study. Those positions will be marked as "Work Study and Non-Work Study

Students May Apply". If you are unsure if you have Work Study, please contact our Financial Aid department at [509-793-2088](tel:509-793-2088).

Current job openings can be found here: <https://www.schooljobs.com/careers/bigbend/promotionaljobs>

Postings are updated throughout the year, as positions are requested by departments. Each department handles their own hiring and interview processes.

Any positions that are located off-campus are marked and will state where the position is located in the description.

Big Bend accepts applications through our online application system (NEOGOV) and for current open positions only.

You will need:

- An email account to register and apply. You may obtain a free email account from various providers.
- A cover letter
- A resume

If you are a person with a disability and require an accommodation, please contact Kim Garza, VP of Human Resources & Labor at [\(509\) 793-2010](tel:509-793-2010) or [TDD \(509\) 793-2325](tel:509-793-2325) as soon as possible to allow sufficient time to make arrangements.

Library

**Building 1800
(509).793.2350**

<https://libguides.bigbend.edu/>

email: librarymail@bigbend.edu

The William C. Bonaudi Library opened its doors Jan. 3, 2005. The facility includes two large multimedia equipped computer labs (rooms 1801 & 1802), lots study space and lounge seating, a number of general access computers in the library commons area, and 10 study rooms each

with large monitors that can be connected to laptops or phones. Most study spaces also offer power and USB plugs to keep your tech charged and BBCC offers free WIFI access campus wide. The eLearning Coordinator, Career Services, and Writing Center share this location as well.

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 communities.

Please check the library's web page or call to confirm days and hours the library will be open.

In addition to standard reference and circulation services during hours the building is open the library has 24/7 chat assistance linked from any of its web pages.

The library has an extensive collection of books including children's books, young adult, graphic novels, current fiction and nonfiction, and standard research materials, but has more than just books.

The library offers a wide and growing array of online resources including eBooks, journal articles, online newspapers, reference materials, basic skills and test preparation training, and more, covering topics ranging from agriculture to philosophy, all available whenever you need them with your BBCC login and password

The library also has a collection of textbooks and laptops that check out for the quarter, as well as other technology including digital microphones, webcams, video cameras, and keyboards.

The library has printers and a scanner/copier/color printer available for use. Need to add funds to your printing account? The library is also the home to the Papercut pay station.

We welcome your use of the library and encourage you to become familiar with the library's services and policies via our webpage.

Online Classes/Distance Education/eLearning

**eLearning Support is located in the Library Building 1800
(509) 793-2350
Email: elarningadmin@bigbend.edu**

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

Students considering taking online courses for the first time are strongly encouraged to visit www.bigbend.edu and click on [Academics](#) to find the Tutorials for Online classes.

In online or hybrid classes, some or all coursework is performed through the college's web-based education system. Students need to have access to a reliable Internet connection. Basic computer and internet skills will also prove helpful. Additional fees are charged to support the cost of online instruction. See the current class schedule for fee details.

Outreach

The Outreach Department connects students, families, schools, and community partners with the resources and opportunities available at BBCC. Through campus visits, presentations, and community engagement, we help prospective students explore educational pathways and take the next step toward achieving their academic and career goals.

We offer a variety of campus visit options tailored to different needs, including:

- Individual or small group scheduled tours
- Drop-in tours

- Large group visits
- Class field trips
- Special events that highlight specific academic departments and programs

In addition to campus visits, our outreach team provides **informative presentations** designed to inspire and educate students at every level. These presentations can be delivered **on campus, at local schools, community centers, or other partner locations** throughout our service area.

Presentation topics include:

- *Elementary School*: "College Planning Starts Now!"
- *Middle School*: "Why Go to College?"
- *High School*: "College 101"
- *General Audiences*:
 - Financial Literacy & Financial Aid
 - Overview of BBCC Programs and Pathways
 - Workforce Program Opportunities

STEM Center

**Building 1200
(509).793.2159**

The Science, Technology, Engineering, and Math (STEM) Center is dedicated to providing access to high-quality tutoring support, updated technology, and instructional services for all levels of math, science, and engineering courses. The STEM Center, located in the Math/Science Building (1200), is a collaborative study area open to all BBCC enrolled students, including GED/DVS. Aside from tutoring services, the STEM Center also provides access to Wi-Fi, computer

workstations, whiteboard tables, printing and scanning, calculators for quarter checkout, laptops and calculators for daily checkout, anatomy and physiology models, a microscope, textbooks, and private study rooms.

Student Housing/ Residence Halls

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

Housing facilities are well maintained, affordable, and offer students spacious rooms. Each room is furnished with twin beds, two desks, two chairs and three large locker type storage closets for clothes and personal items. Each room has high speed internet installed at no extra cost. Each floor has a TV lounge, a VCR, and a microwave oven. Three kitchens are equipped with appliances which 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 to use.

Other conveniences include weekday public bus services, recreational facilities, and free parking. The residence halls are located close to the main campus classrooms, vending machines, 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. If you would like more information or to request a residence hall application, call 509.793.2291.

Disabled Student Access

Philips Hall is accessible to physically challenged students.

Contact: Ruth Stoddard (RuthS@bigbend.edu),
Director of Residence Halls and Residential Life

Hours: Monday to Thursday 9:00 am – 6:00 pm
and Friday 9:00 am – 5:00 pm or by
appointment

Title IX – Sex Discrimination, Sex-based Harassment, and Sexual Violence

Big Bend Community College (BBCC) recognizes its responsibility to investigate, resolve, implement corrective measures, and monitor the educational environment and workplace to stop, remediate, and prevent discrimination on the basis of sex, as required by Title IX of the Educational Amendments of 1972, Title VII of the Civil Rights Act of 1964, the Violence Against Women Reauthorization Act, and Washington State's Law Against Discrimination, and their implementing regulations.

BBCC's is committed to provide equal opportunities in employment and to provide a work and academic environment that is free from conduct or behaviors that constitute sex discrimination, sex-based harassment, sexual violence, domestic violence, dating violence, intimate partner violence, stalking and/or retaliation by or against its employees, students, guests, trustees, visitors and contractors.

BBCC prohibits conduct on the basis of sex, that is determined by a reasonable person to be so severe, pervasive, and objectively offensive that it effectively denies a person equal access to the college's educational programs or activities or BBCC employment.

Sexual assault includes non-consensual sexual intercourse, nonconsensual sexual contact, incest, statutory rape, domestic/dating/intimate partner violence, and stalking. Sex-based harassment may include unwelcome sexual

advances, unwelcome requests for sexual favors or requests for sexual favors in exchange for an aid, benefit, or service, treating an individual differently on the basis of sex, or on the basis of their current, potential, or past pregnancy or related conditions.

The following person has been designated to administer the College's Title IX investigation and grievance procedures.

Kimberly A. Garza, VP of Human Resources & Labor
EO/Section 504/Title IX Coordinator
7662 Chanute Street NE
Building 1400, Office 1449
Moses Lake, WA 98837
509.793.2010 TDD 509.793.2325

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 document 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 on the BBCC website.

Testing Services

BBCC provides placement and testing services to assist students in making both academic and career choices. In addition, Testing Services proctors CLEP exams as well as TEAS testing for applying to local nursing schools.

Questions regarding eligibility and test scheduling should be directed to the BBCC Testing Center at testingcenter@bigbend.edu or 509.793.2064.

Transfer & Career Center

The Transfer & Career Center is a one stop hub for students looking to get assistance with the transfer process or career opportunities. The Center offers transfer and career materials, staff to answer questions, computers, and a quiet space to work. More specifically:

Transfer Resources can help students with:

- College/University Research
- Admission Requirements
- Application Assistance
- Transfer Fairs & Individual appointments with College/University Representatives

Career Services can help students with:

- Resume Creation
- Career Exploration
- Employment Preparation
- Internships

TRIO-Educational Opportunity Center

The TRIO Educational Opportunity Center (EOC) at Big Bend Community College is a federally funded program that empowers adult learners, high school seniors, veterans, and individuals from underrepresented backgrounds to pursue postsecondary education. Serving rural communities across the BBCC district, EOC helps

participants navigate college admissions, financial aid, and career planning through in-person and remote outreach.

Serving Rural Communities

The EOC serves a large, rural region surrounding the BBCC campus, including communities with limited access to higher education, high poverty rates, low educational attainment, and a significant Hispanic farmworker population. By maintaining strong partnerships with local schools, social service agencies, and nonprofit organizations, the EOC meets participants where they are—whether in-person at local service locations or through remote outreach. The program’s home base is the BBCC campus in Moses Lake, with services provided across the college’s entire service district.

Who Is Eligible?

Individuals are evaluated for eligibility on a case-by-case basis. General eligibility includes:

- U.S. citizen, national, or eligible non-citizen
- Veterans
- Age 18 or older (including high school seniors not served by TRIO Talent Search)
- Potential first-generation college student (neither parent has a four-year degree)
- Low-income individual (as defined by federal guidelines)

EOC Services Include:

- **College & Career Advising:**
 - Help with college, vocational, or technical school admissions
 - Assistance with transferring to universities
 - Support in choosing a major or career path
- **Financial Aid Assistance:**

- FAFSA guidance and application support
- Scholarship and grant resources
- Student loan information and application assistance
- Work-Study information

- **Community Referrals:**

- Adult Basic Education and GED enrollment
- Connections to postsecondary and community service partners

The EOC is committed to expanding access to higher education by helping participants overcome barriers and take confident steps toward academic and career success.

TRIO–Student Support Services

TRIO Student Support Services (SSS) is a federally funded Title IV grant program through the U.S. Department of Education. It is designed to support students who are first-generation, low-income, or have a documented disability. The program fosters an institutional climate that supports the success of eligible students and aims to increase their retention, graduation, transfer rates, and financial literacy.

Big Bend Community College has hosted a TRIO SSS Classic grant since 1997 and expanded its support in 2020 by adding a TRIO SSS STEM grant. Each year, the TRIO SSS Program at BBCC serves 310 eligible students—including 120 students through the STEM grant—with a goal of helping them achieve success in college. Services include:

- Academic tutoring
- Academic progress monitoring

- Financial aid assistance (including FAFSA and scholarship applications)
- Success workshops
- Financial and economic literacy education
- Academic, transfer, career, and personal advising

To be eligible, students must:

- Be enrolled or accepted for enrollment at X Community College
- Be a U.S. citizen or national, or meet federal student aid residency requirements
- Be a high school graduate
- Have academic need
- Meet at least one of the following criteria:
 - First-generation college student (neither parent nor primary caregiver has earned a bachelor's degree)
 - Low-income, as defined by federal income guidelines
 - Student with a documented disability, as defined in Section 12102 of the Americans with Disabilities Act and verified by the BBCC Accommodations office

While students from all associate degree programs are welcome, priority is given to those who are first-generation and low-income or have a documented disability and who plan to transfer to a four-year institution.

The TRIO SSS program is 100% federally funded on a five-year grant cycle. Big Bend Community College receives:

- \$335,053 annually for the TRIO SSS Classic grant, serving 190 participants

- \$261,888 annually for the TRIO SSS STEM grant, serving 120 participants

For more information, email

TRIO_SSS@bigbend.edu, visit the first floor of the 1400 Building, or call 509-793-2040.

TRiO-Upward Bound

TRiO Upward Bound is a federally funded grant program through the U.S. Department of Education. It is a pre-college program serving high school students from low-income and/or first-generation backgrounds. The goal of the program is to increase the number of eligible students who graduate from high school, enroll in college, and complete a postsecondary degree. 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.

Every year, 115 students participate in the program from the following four target high schools: Moses Lake, Othello, Royal City, and Warden. The program offers participants academic and personal advising, career planning, SAT/ACT preparation, monthly Saturday enrichment activities, college visits, tutoring, and college admission assistance including financial aid and scholarships. The program offers a six-week residential summer academy where 44 selected students live in the BBCC residence halls and receive academic instruction to build skills and increase knowledge with particular emphasis in math, English, and science. It also gives students a college-like experience and promotes independence and adapting to living away from home. Cultural and recreational activities and field trips enhance the value of this worthwhile experience. During the summer, a Bridge component is offered to assist recent high school graduates in their transition from secondary school to college. Bridge participants attend the summer quarter at BBCC with tuition, books, and room and board paid by

the program. 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 for program services if they are enrolled in one of its (4) target high schools and have completed the 8th grade but have not yet started their senior year. Students need to be first-generation (parents have not earned a bachelor’s degree) and/or their family’s taxable income meets federal income guidelines. Students must be a U.S. citizens or legal residents and be motivated to prepare, enroll, and complete a college degree.

TRiO Upward Bound is funded on a five-year grant cycle and must reapply for funding at the end of each cycle. The program operates on a yearly budget of \$581,576 which covers 100% of its costs.

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 apply 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:

- 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 school certifying official, after registering for classes each quarter, to assure proper certification.

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

The VA pays monthly allowances and book stipend benefits directly to the student for all Post-9/11 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 (monthly allowance and book stipend) benefits directly to the student as long as they are enrolled in at least half-time status. 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 school certifying official, located in the Financial Aid Office/Student Administrative Support Services Department, within Building 1400 or call 509.793.2088.

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 cumulative 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 of benefits. Depending upon enrollment status, the following requirements apply:

If your enrollment status is:	You must complete	You will be on Probation if you complete	Your benefits will be canceled if your cumulative GPA is less than 2.0 or you complete less than
12 or more credits/ Full Time	12 credits	6 - 11 credits	6 credits
11 credits/ Three quarter time	11 credits	6 - 10 credits	6 credits
10 credits/ Three quarter time	10 credits	5 - 9 credits	6 credits

9 credits/ Three quarter time	9 credits	5 - 8 credits	5 credits
8 credits/ Half time	8 credits	4 - 7 credits	4 credits
7 credits/ Half time	7 credits	4 - 6 credits	4 credits
6 credits/ Half time	6 credits	3 - 5 credits	3 credits
1-5 credits/ Less than half time	All funded credits	N/A	All credits

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 in their next quarter of attendance or their VA benefits will be canceled. 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. Please contact the certifying official for re-evaluation.

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 school certifying official.

Writing Center

**Building 1800 in the Library, Room 1832
509.793.2361**

Students can bring writing assignments from any of their classes to be reviewed in the [Writing Center](#). Help is also available with developing essays and doing research papers using MLA, APA, or CMS. For hours of operation, please visit the [Writing Center](#) web page.

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 by emailing admissions@bigbend.edu or calling 509.793.2089.

Auditing a Course

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

Course Numbering System

The following course numbers are used at BBCC:

- **010-049:** Courses in this series do not apply toward graduation from BBCC.
- **050-099:** Courses in this series are below college level. Some of the courses may be applied toward graduation from BBCC under the Associate in General Studies degree only. (DVS prefixed courses DO NOT apply toward graduation.)
- **100-299:** Courses in this series may apply toward graduation in a 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 an attempt to achieve

a higher grade. A course may be repeated twice (enrolled a maximum of three times) and then have the highest grade received count toward the cumulative (graduation) GPA. Students must notify the Admissions/Registration Office in writing after they have repeated a class.

Students should be aware that all enrollment(s) and grade(s) received for the repeated course(s) will remain on the transcript. Only the highest graded enrollment will impact the cumulative GPA. 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 or third time as 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 by 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 approval from the course instructor, advisor, and Admissions/Registration staff. Contact the instructor for the Course Challenge Approval form.
2. After approval, the student pays the required fee at the Business Office.
3. After showing the receipt to the instructor, the student may proceed with the exam. The time of giving the exam is a matter for mutual convenience between the instructor and the student.

4. After completing the exam, the instructor submits the completed form, including the grade awarded, to the Admissions/Registration Office.

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 typical 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

Official grades are posted to the transcript and available to view via ctCLink Student Homepage approximately one week after final exams have been completed. These are the only sources of official grades.

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 more information about credits awarded for CLEP, IB, and College Board Advanced Placement Exams, please visit <https://www.bigbend.edu/student-center/prior-learning/>.

Grading Symbols

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

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

$$\text{Course X } 5 \times 3.1 = 15.5$$

$$\text{Course Y } 4 \times 1.5 = 6.0$$

$$\text{Course Z } 3 \times 2.3 = 6.9$$

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" (incomplete) 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 of the grade earned 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 request is not submitted to the Admissions/Registration Office by the following dates

"I" grade received:	Requirements must be completed by:
Summer Quarter	November 1
Fall Quarter	February 20
Winter Quarter	May 20
Spring Quarter	November 1

“W” Grade

A student may withdraw from classes up to two weeks prior to the last day of instruction for each quarter. The last date to withdraw from class is posted in the Academic Calendar. 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

Academic Standards of Progress are measured in two ways:

- **Grades Standard** – Students must maintain a cumulative grade point average of 2.00 or higher.
- **Credit Completion Standard** – Students who have attempted 30 or more credits must complete at least 67% of enrolled credits each quarter.

Good Academic Standing

A student on Good Academic Standing is meeting both Grades and Credit Completion Standards of Progress.

Academic Concern

A student not meeting Grades and/or Credit Completion Standards of Progress will be placed on Academic Concern. A student in this category must work with an advisor to develop a plan for making measurable and substantial progress towards meeting one or both Standards prior to enrolling in future quarters.

Academic Intervention

A student on Academic Concern with greater than 23 attempted credits who is not meeting academic standards of progress will be placed on Academic Intervention (formerly, academic 1-quarter suspension) and prevented from enrolling in classes for one quarter. If placed on Academic Intervention at the end of spring quarter, the student may not attend summer or fall quarters. 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 Academic Intervention is required to meet with their assigned advisor prior to registering for future quarters and must continue to work toward improving their academic standing.

Academic Improvement Plan – A student who is subject to Academic Intervention and prevented from enrolling in classes for one quarter, may submit an Academic Improvement Plan and request immediate reinstatement. The Academic Improvement plan must reflect the student's intent to make measurable and substantial progress towards improving their grade point average and/or their credit completion rate. The student must notify the Vice President of Learning & Student Success of their intent to present an Academic Improvement Plan by the stated deadline, which will then be presented to the Academic Council. The Academic Council consists of the following: Vice President of Learning & Student Success, one staff member from Student Services, two faculty members, two student representatives (peers), and the Executive Assistant to the Vice President of

Learning & Student Success (recorder). The Vice President will call a meeting of the Academic Council to review the Academic Improvement Plan with the student. The student must meet with the Academic Council to discuss the appeal. The Academic Council may approve the plan as written, recommend changes to the proposed plan, or may uphold the one-quarter time off intervention. The decision of the Academic Council is final.

Academic Restriction

A student on Academic Intervention who does not show improvement toward the Grades and/or Credit Completion Standards of Progress in the following enrolled term will be placed on a one-year Academic Restriction (formerly, academic 1-year suspension). Academic Restriction prevents a student from enrolling in credit-bearing classes for one calendar year. A student who has enrolled in credit-bearing classes for the following quarter will be withdrawn from classes and a full refund will be processed for any tuition and fees paid for that quarter. A student returning after Academic Restriction must meet with an advisor before enrolling for future quarters. There is no option for appeal of the one-year Academic Restriction.

Student Records Confidentiality

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

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 directory information without the student's written consent: student's name, major field of study, participation in officially recognized sports, enrollment status, dates of attendance, honors, degrees or certificates earned, and term degree or certificate awarded.

4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by Big Bend Community College to comply with the requirements of FERPA.

Transcripts

An official transcript is a copy of a student's permanent academic record that is signed by the Registrar and has the college seal imprinted on it. A transcript will be released only upon authorization of the student. Information on obtaining official BBCC transcripts is located online at <https://www.bigbend.edu/i-am/transcript-request/>. Students may view or print an unofficial copy of their BBCC transcript from their ctclink Student Homepage via the "Academic Records" tile.

Religious Accommodations

Reasonable Accommodations for Religion/Conscience: Students who will be absent from

course activities due to reasons of faith or conscience may seek reasonable accommodations so that grades are not impacted. Students seeking accommodation must submit written notice to the instructor(s) within the first two weeks of the quarter and should follow the procedures listed in the Religious Accommodations section of the Student Handbook.

Degrees, Certificates, and Diplomas

BBCC offers the following Degrees, Certificates, and Diplomas:

Degrees

Degrees intended for transfer to a university

- Direct Transfer Agreement (DTA) Associate Degrees
- Direct Transfer Agreement (DTA) Major Related Program (MRP) Degrees
- Associate in Science-Transfer Major Related Program (MRP) Degrees

Degrees intended for direct entry into the workforce or entering a bachelor of applied science program

- Associate in Applied Science - Transfer (AAS-T) Degrees
- Associate in Applied Science (AAS) Degrees
- Associate in General Studies Degree

Certificates

- Certificates of Achievement
- Certificates of Accomplishment

Diploma

- High School Diploma

Resident Credit Requirement

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

General Education What is General Education?

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

Why General Education?

For a job:

- Business leaders and other employers tell BBCC that employees need to be able to work alongside others, 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.

All degrees offered at BBCC incorporate general education. The learning outcomes that describe

our general education goals are designated as Institutional Outcomes because these three outcomes are found within every degree at BBCC. The Institutional

Outcomes are:

- **IO1 Communication**
Students will be able to communicate clearly and effectively.
- **IO2 Quantitative Reasoning**
Students will be able to reason mathematically.
- **IO3 Human Relations/Workplace Skills**
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

Distribution Lists – Associate in Arts & Science DTA

In this catalog, courses commonly used in the [AA&S DTA](#) are identified by their distribution category. The following lists the Distribution Category along with its abbreviation.

- **BS** Basic Requirements/Skills
- **SQR** Symbolic Reasoning
- **HU** Humanities
- **HP** Humanities Performance
- **SS** Social Science
- **NS** Non-lab Science
- **LS** Lab Science
- **MS** Math/Science
- **SE** Specified Elective
- **AC** PE Activity/Health & Wellness Credit
- **D** Course meets BBCC Diversity requirement
- -- General Elective courses carry no abbreviation

Advising Maps

Advising maps are available on the [BBCC Website](#). An advising map is intended to assist faculty, professional advisors, counselors and

career services staff with guiding students through an intended program or to compare multiple programs.

Please note that an Advising Map is only a tool to guide a greater advising conversation. The goal is to be transparent about program requirements and prerequisites, while using the tool to develop an individualized education plan for each student based on their math and English placements, what quarter they first enroll and other factors such as family or work schedules, commute, capacity to take online courses, etc.

Certificate of Accomplishment

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

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

Certificates of Accomplishment are offered through the following programs:

- Accounting Technician
- Automotive Technology
- Aviation (Commercial Pilot)
- Aviation Maintenance Technology
- Business Information Management
- Commercial Driver's License
- Computer Science
- Early Childhood Education
- Manufacturing Process Technology
- Nursing Assistant
- Welding

Refer to the Program of Study section for additional information.

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 general education requirements with 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 general education components.

Certificate of Achievements are offered through the following programs:

- Accounting Technician
- Agriculture
- Aviation (Commercial Pilot)
- Aviation Maintenance Technology
- Business Information Management
- Chemical Laboratory Technology
- Computer Science
- Early Childhood Education
- Manufacturing & Process Technology
- Medical Assistant
- Welding Technology

High School Diploma

The high school diploma is designed to provide recognition for the student who has successfully completed a High School+ program through Big Bend Community College by demonstrating competency/mastery. Most students obtain their diploma within 1–2 years.

Graduation Requirements for the class of 2019 and beyond require a minimum of 24 credits in approved courses, a High School & Beyond Plan and a graduation pathway.

- Reading/Writing/Communication (4 credits)
- 3rd Year Math (Career or Financial Literacy) (1 credit)
- Algebra I (1 credit)
- Geometry (1 credit)
- Lab Science (2 credits)
- Non-Lab Science (1 credit)
- Health and Fitness (0.5 health & 1.5 fitness credits)
- US Constitution and Government (1 credit)
- Civics (0.5 credit)
- WA State Government and History (0.5 credit)
- Contemporary World Problems (1 credit)
- Art (2 credits)
- Occupational Education (1 credit)
- Electives (4 credits)
- World Language or PPR (2 credits)

Classes graduating prior to 2019 may have different credit requirements.

Baccalaureate Opportunities on Campus

email: bas@bigbend.edu

Bachelor of Applied Science in Applied Management (BAS-AM) degree

The Bachelor of Applied Science in Applied Management (BAS-AM) degree builds upon any associate degree (2-year) degree by adding junior and senior year courses focused on applied management. The program provides customized, high-demand management skills courses geared toward the needs of various industry sectors in the local economy. Perfect for working adults who need more flexibility in their schedules and have a job and/or family responsibilities. Classes can be taken 100%

online. Students will gain the knowledge and skills necessary to enter, advance in management or supervisory positions, or start their own business.

The BAS degree includes courses in:

- Accounting
- Project Management
- Human Resources
- Organizational Behavior and Leadership
- Marketing
- Business communication

Students will complete an Applied Management Capstone project in the final year of the program. The project is an opportunity for students to develop a meaningful product as an accumulation of the course work and demonstrate their learning. For admission, registration or program information, contact Melissa Husebye, BAS Coordinator at 509.793.2120 or bas@bigbend.edu.

Students in the BBCC service district also have the opportunity to complete several different baccalaureate degree programs through Central Washington University (CWU). CWU delivers courses at BBCC via two-way interactive television with sites in Ellensburg, Wenatchee and Yakima. Students 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.

Bachelor Applied Science in Behavioral Health (BAS-Behavioral Health) degree

The BAS-Behavioral Health program is delivered in partnership between Big Bend Community College and Wenatchee Valley College. Students are co-enrolled in courses at both colleges, and receive advising, support services, and financial aid from their home college.

The BAS-BH program is designed to accommodate the needs of working and place-

bound students. Courses will be taught in a hybrid format so that students will meet "live" three times a quarter while the remaining coursework will take place online. Faculty will use web-enhanced technology, combined with individualized attention, to focused learning and unique opportunities to partner with underserved and key populations in North Central Washington.

The BAS Behavioral Health degree includes courses in: Human Services, Cultural and Social Issues in Behavioral Healthcare, Case Management, Therapeutic Skills, and Treatment of Mental Health Disorders. In their senior year, students complete a three-quarter field experience with a local behavioral health clinic.

The BAS-Behavioral Health degree builds upon any associate degree by providing junior and senior-level courses focused on behavioral health. Students graduating from associate degree programs in criminal justice, early childhood education, medical assistance, and chemical dependency studies are encouraged to apply.

Departments/ Programs

Accounting

email: business-accounting@bigbend.edu

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. Those choosing to enter the field of accounting should have strong problem solving abilities, excellent oral and written communication skills, and quantitative skills.

Accounting Technician AAS

Degree Type

Associate in Applied Science

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.

Program Learning Outcomes:

- IO1 Communication
Communicate the cumulative effect of business transactions by preparing basic financial statements
- IO2 Quantitative Reasoning
Analyze the financial health of a business by interpreting business data obtained from financial statements
- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork and/or workplace specific skills related to human relations.

- PO4 Record business transactions in traditional accounting journals by using common accounting practices (GAAP- Generally Accepted Accounting Principles)
- PO5 Record, classify, and summarize business transactions by using current accounting software
- PO6 Demonstrate an understanding of concepts and terminology related to operating in a business environment by completing various business-related projects and exams

See a program advisor for scheduling program courses.

Required Program Courses

Course Code	Title	Credits
ACCT 105	Introduction to Accounting	5
ACCT& 201	Prin of Accounting I	5
ACCT& 202	Prin of Accounting II	5
ACCT& 203	Prin of Accounting III	5
ACCT 233	Intro to Payroll Taxes	2
ACCT 260	Computer Accounting	3
ACCT 262	Introduction to QuickBooks®	2
	BIM 101/104	2
BIM 109A	Internet Communications	1
BIM 180A	Introduction to Microsoft Office	2
BIM 180B	Introduction to Microsoft Office	2
BIM 190A	Spreadsheets I	3
BUS& 101	Intro to Business	5
BUS 115	Workplace Skills and Behaviors	4
BUS 122	Business Communications	5
BUS 170	Consumer Finance	5
BUS 161	Business Calculators	2
BUS& 201	Business Law	5
	CMST& 220	5
	ECON& 201 or ECON& 202	5
ENGL& 101	English Composition I	5
FAD 150	Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens	2
MAP 117	Applied Math for Workforce Programs I	1-5
	PSYC& 100 or SOC& 101	5
Students who have had accounting and/or typing in high school and can demonstrate proficiency may replace these courses with other business electives with advisor approval		
Total Credits		90

Accounting One-Year Certificate of Achievement

Degree Type

Certificate

Program Learning Outcomes:

- IO1 Communication
Communicate the cumulative effect of business transactions by preparing basic financial statements
- IO2 Quantitative Reasoning
Analyze the financial health of a business by interpreting business data (obtained from financial statements)
- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork and/or workplace specific skills related to human relations.
- PO5 Record, classify, and summarize business transactions by using current accounting software

Upon completion of the following courses, the student will earn a Certificate of Achievement from BBCC.

Required Courses:

Course Code	Title	Credits
ACCT 105	Introduction to Accounting	5
ACCT& 201	Prin of Accounting I	5
ACCT& 202	Prin of Accounting II	5
ACCT& 203	Prin of Accounting III	5
ACCT 262	Introduction to QuickBooks®	2
BIM 180A	Introduction to Microsoft Office	2
BIM 180B	Introduction to Microsoft Office	2
BIM 190A	Spreadsheets I	3
CMST& 220	Public Speaking	5
BUS 161	Business Calculators	2
ENGL& 101	English Composition I	5
FAD 150	Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens	2
MAP 117	Applied Math for Workforce Programs I	1-5
	PSYC& 100 or SOC& 101	5
	Total Credits	52

Accounting Principles Proficiency Certificate of Accomplishment

Degree Type

Certificate

Program Learning Outcomes:

- IO1 Communication
Communicate the cumulative effect of business transactions by preparing basic financial statements
- PO4 Record business transactions in traditional accounting journals by using common accounting practices (GAAP- Generally Accepted Accounting Principles)

Required Courses

Course Code	Title	Credits
ACCT 105	Introduction to Accounting	5
ACCT& 201	Prin of Accounting I	5
ACCT& 202	Prin of Accounting II	5
ACCT& 203	Prin of Accounting III	5
	Total Credits	20

Basic Office Computing Certificate of Accomplishment

Degree Type

Certificate

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.

Required Courses

Course Code	Title	Credits
	BIM 101/104	2
BIM 180A	Introduction to Microsoft Office	2
BIM 180B	Introduction to Microsoft Office	2
BIM 190A	Spreadsheets I	3
BUS 161	Business Calculators	2
	Total Credits	11

Business Communications Certificate of Accomplishment

Degree Type

Certificate

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.

Program Learning Outcomes

IO3 Human Relations/Workplace Skills: Create professional documents that would be used in an office environment

Required Courses

Course Code	Title	Credits
BUS 115	Workplace Skills and Behaviors	4
BUS 122	Business Communications	5
CMST& 220	Public Speaking	5
Total Credits		14

Computerized Accounting Applications Certificate of Accomplishment

Degree Type

Certificate

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.

Program Learning Outcomes:

IO3 Human Relations/Workplace Skills: Create professional documents that would be used in an office environment

Required Courses

Course Code	Title	Credits
ACCT 260	Computer Accounting	3
ACCT 262	Introduction to QuickBooks®	2
Total Credits		5

Accounting Course Descriptions

ACCT& 201 : Prin of Accounting I

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.

Distribution

Specified Elective

Credits 5

Lecture Hours 55

Prerequisites

[ACCT 105](#) recommended

Quarters Offered

Fall, Winter

ACCT& 202 : Prin of Accounting II

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.

Distribution

Specified Elective

Credits 5

Lecture Hours 55

Prerequisites

ACCT& 201: Prin of Accounting I

Quarters Offered

Winter, Spring

ACCT& 203 : Prin of Accounting III

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.

Distribution

Specified Elective

Credits 5

Lecture Hours 55

Prerequisites

ACCT& 202: Prin of Accounting II

Quarters Offered

Summer, Spring

ACCT 105 : Introduction to Accounting

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.

Credits 5

Lecture Hours 55

Quarters Offered

Fall, Winter, Spring

ACCT 233 : Intro to Payroll Taxes

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.

Credits 2

Lecture Hours 22

Prerequisites

Complete ACCT& 201 OR have prior experience in business or accounting.

Quarters Offered

Spring

ACCT 260 : Computer Accounting

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.

Credits 3

Lecture Hours 11

Lab Hours 44

Prerequisites

ACCT& 202: Prin of Accounting II

Quarters Offered

Spring

ACCT 262 : Introduction to QuickBooks®

This course offers an introduction to QuickBooks®, the nations 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®.

Credits 2

Lecture Hours 11

Lab Hours 22

Prerequisites

To enhance the learning experience, it is recommended that the student complete ACCT&201 OR have prior experience in business or accounting.

Quarters Offered

Fall

Agricultural Mechanics

agriculture@bigbend.edu

Mechanics is the science of things in motion. Agricultural mechanics is concerned with these principles as they apply to the repair and maintenance of cultivation machines. Through offering a one-year Certificate of Achievement and a two-year Associate of Applied Science degree (AAS), this program will equip students with in-depth knowledge and skills related to hydraulic, braking, drivetrain, diesel, electrical, and mechanical systems. Successful graduates of this program will also be able to proficiently weld and fabricate.

Agricultural Mechanics Technology AAS (116+ Credits)

Degree Type

Associate in Applied Science

Mechanics is the science of things in motion. Agricultural mechanics is concerned with these principles as they apply to the repair and

maintenance of cultivation machines. Through offering a one-year Certificate of Achievement and a two-year Associate of Applied Science degree (AAS), this program will equip students with in-depth knowledge and skills related to hydraulic, braking, drivetrain, diesel, electrical, and mechanical systems. Successful graduates of this program will also be able to proficiently weld and fabricate.

Agricultural Mechanics Technology AAS (116+ credits)

The AAS in Agriculture Mechanics Technology provides a deep dive into the field of agricultural mechanics. Courses are designed to teach students the intersectional competencies required of the modern mechanical technician. Students will gain mechanical, welding, hydraulic and electrical skills taught to industry technical and safety standards. Students will graduate with deep knowledge of drivetrain and diesel systems and will have hours of experience diagnosing and repairing agricultural equipment. Mentoring under field-tested experts, students will gain experience operating agriculture equipment and earn a Forklift Operator Certificate. Upon completion of the program, students will have proven their ability to think critically, solve complex mechanical issues, lead as a team member, and thrive working individually.

Program and Degree Learning Outcomes:

- IO1 Communication
Students will be able to communicate clearly and effectively within a workplace context.
- IO2 Quantitative Reasoning
Students will be able to reason mathematically using methods appropriate to agricultural mechanics.
- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate

teamwork, ethics, safety awareness, and/or workplace specific skills related to agricultural mechanics.

- PO4 Students will demonstrate knowledge of scientific principles when applied to the diagnoses and/or repair of agricultural equipment systems.
- PO5 Students will demonstrate critical-thinking and problem-solving skills in the diagnoses of agricultural equipment.
- PO6 Students will diagnose and perform repairs within industry standards.
- PO7 Students will demonstrate workplace safety when operating, repairing and servicing equipment.

The following schedule of courses is the recommended program for completing the AAS degree. See a program advisor for substitute courses.

Required Program Courses

Required Program Courses

Course Code	Title	Credits
AGM 102	Agricultural Mechanics Workplace Safety	1
AGM 103	Agricultural Equipment Operation	3
AGM 109	Shop Skills I	3
AGM 129	Brakes	5
AGM 141	Hydraulics I	6
AGM 151	Drivetrains I	6
AGM 161	Diesel I	5
AGM 221	Electrical II	6
AGM 241	Hydraulics II	5
AGM 251	Drivetrains II	5
AGM 261	Diesel II	6
AGM 291	Diagnostics	8
AGR 295	Work-Based Learning- Internship	1-20
AGR 297	Work-Based Learning Seminar	1
AUT 111	Automotive Engine Service	9
AUT 121	Automotive Electrical and Electronic Systems	15
AUT 231	Automotive Heating and Air Conditioning	6
	CMST& 220 or CMST& 210	5
	ENGL 109 or ENGL& 101	3
FAD 150	Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens	2
	MAP 117	5
	PSYC& 100 or SOC& 101	5
WLD 146	Industrial Welding	4
	Total Credits	116

Agriculture Mechanic Technology Certificate of Achievement (64 Credits)

Degree Type
Certificate

Agriculture Mechanic Technology Certificate of Achievement (64 credits)

The Certificate of Achievement is designed to recognize students who do not plan to complete an AAS degree program. A student who completes the following option will earn a certificate of achievement from BBCC.

The Agriculture Mechanics Technology program introduces students to the field of agricultural mechanics. Courses are designed to teach students the intersectional competencies required of the modern mechanical technician. Students be exposed to mechanical, welding, hydraulic and electrical skills taught to industry technical and safety standards. Students will gain experience operating agriculture equipment and earn a Forklift Operator Certificate. Upon completion of the certificate, students will have proven their ability to think critically, solve complex mechanical issues, lead as a team member, and thrive working individually.

Program and Degree Learning Outcomes:

- IO1 Communication
Students will be able to communicate clearly and effectively within a workplace context.
- IO2 Quantitative Reasoning
Students will be able to reason mathematically using methods appropriate to agricultural mechanics.
- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, ethics, safety awareness, and/or workplace specific skills related to agricultural mechanics.
- PO4 Students will demonstrate knowledge of scientific principles when applied to the diagnoses and/or repair of agricultural equipment systems.
- PO5 Students will demonstrate critical-thinking and problem-solving skills in the diagnosis of agricultural equipment.

- PO6 Students will diagnose and perform repairs within industry standards.
- PO7 Students will demonstrate workplace safety when operating, repairing and servicing equipment.

Required Program Courses

Certificate Required Courses

Course Code	Title	Credits
AGM 102	Agricultural Mechanics Workplace Safety	1
AGM 109	Shop Skills I	3
AGM 151	Drivetrains I	6
	MAP 117	5
	CMST& 220 or CMST& 210	5
AGM 141	Hydraulics I	6
AGM 103	Agricultural Equipment Operation	3
AUT 111	Automotive Engine Service	9
	ENGL 109 or ENGL& 101	3
	PSYC& 100 or SOC& 101	5
	Total Credits	64

Agricultural Mechanics Course Descriptions

AGM 102 : Agricultural Mechanics Workplace Safety

In this course, students will learn to identify and mitigate potential hazards relating to the field of agricultural mechanics. Students will learn workplace and shop safety best practices.

Credits 1

Lecture Hours 11

AGM 103 : Agricultural Equipment Operation

In this course, students will learn how to safely operate and maintain agricultural equipment. Students will understand the role that routine maintenance and thorough inspections play in operator and bystander safety. Students will perform fluid, filter and lubrication services. Additionally, students will conduct minor repairs

as they pertain to routine maintenance such as, tightening/replacing belts, repairing minor leaks and universal joints. Students will be tasked with using operator manuals to locate, identify, and utilize safety, operational, and maintenance information for various purposes as they relate to agricultural mechanics. Students will demonstrate their ability to safely operate agriculture equipment including obtaining a forklift operator certification.

Credits 3

Lecture Hours 11

Lab Hours 44

Prerequisites

AGM 102: Agricultural Mechanics Workplace Safety

AGM 109 : Shop Skills I

This course will introduce students to measuring devices commonly used in agricultural mechanics. Students will demonstrate proper tool usage techniques as well as the ability to accurately read measuring devices such as calipers, beakers, micrometers, dial indicators.

test change

additional change

Credits 3

Lab Hours 44

AGM 129 : Brakes

This course is an overview of brake systems. Students will gain an understanding of manual brakes and various types of power assist brakes as they apply to basic automotive, heavy truck, and agricultural braking systems. Students will learn basic airbrake function, operation, and repair. Students will study hydraulic brake systems that apply to the automotive and agriculture industry and gain experience in bleeding, serving, and diagnosing.

Credits 5

Lecture Hours 22

Lab Hours 66

Prerequisites

[AGM 102](#) Agricultural Equipment and Workplace Safety (required) [AGM 109](#) Shop Skills I (recommended).

AGM 141 : Hydraulics I

This course introduces students to hydraulic fundamentals and hydraulic safety. Students will learn how hydraulic flow and pressure is created and how it is harnessed to produce mechanical motion in open-center and closed-center systems. Upon successful completion of the course, students will be able to understand hydraulic system components and be able to articulate how they synergize to form a system. Additionally, students will be able to decipher basic hydraulic schematics.

Credits 6

Lecture Hours 44

Lab Hours 44

Prerequisites

[AGM 102](#) Agricultural Equipment and Workplace Safety (required), [AGM 109](#) Shop Skills I (recommended).

AGM 151 : Drivetrains I

In this course students will learn how power is transferred from engine to ground and PTO in various agricultural drive systems. Additionally, students will learn how torque is amplified, and how power transfer is adjusted. These principles will be first taught in the classroom and then demonstrated in a lab providing students with a both theoretical, and hands-on, learning experience in the safe operation of drivetrain systems.

Credits 6

Lecture Hours 44

Lab Hours 44

Prerequisites

[AGM 102](#) Agricultural Equipment and Workplace Safety (required) [AGM 109](#) Shop Skills I (recommended).

AGM 161 : Diesel I

This course is an introduction to diesel engine safety and operation. Topics such as mechanical injection, valve adjustments, injector adjustments, injector timing, turbochargers,

aftercoolers, and fuel delivery are covered.

Students will also gain practical experience with basic diesel engine troubleshooting, repair, and maintenance.

Credits 5

Lecture Hours 33

Lab Hours 44

Prerequisites

[AGM 102](#) Agricultural Equipment and Workplace Safety (required) [AGM 109](#) Shop Skills I (recommended).

AGM 221 : Electrical II

This course takes an in-depth look at electrical systems, electrical components and best practices in component testing and troubleshooting. Students will be familiarized with CAN bus, ISOBUS, and controller communication, configuration, and programming. Students will gain hands-on experience testing and diagnosing components, locating electrical faults, and reading schematics. Students will apply these skills to various sensors and actuators used on agricultural equipment commonly found in the Columbia Basin.

Credits 6

Lecture Hours 44

Lab Hours 44

Prerequisites

[AUT 121](#) Automotive Electrical and Electronic Systems (required).

AGM 241 : Hydraulics II

This course, a continuation of Hydraulics I, is a deeper dive into hydraulic technologies. Topics such as charge pumps, PEC pumps, hydrostats, pilot-operated valves, and load-sensing systems will be covered. Students will practice safely operating, testing, and adjusting these systems. Students will also use hydraulic schematics to test and troubleshoot various hydraulic systems and components.

Credits 5

Lecture Hours 33

Lab Hours 44

Prerequisites

AGM 141: Hydraulics I

[AGM 141](#) Hydraulics I (required).

AGM 251 : Drivetrains II

A continuation of Drivetrains I, this course covers the safe servicing practices of hydraulically lubed axles, semi and full powershift transmissions, service and park brakes, and differential locks. Other topics include hydraulic clutches, lube circuits, and hydraulic brakes. Students will practice operating, calibrating, and configuring both electronically and non-electronically controlled systems.

Credits 5

Lecture Hours 33

Lab Hours 44

Prerequisites

[AGM 151](#) Drivetrains I (required).

AGM 261 : Diesel II

A continuation of Diesel I, this course is a deep dive into electronic diesel engines. Course topics include testing and diagnosing engine sensors and switches, engine performance, electronically controlled diesel injection systems, and industry standard safety protocols. Students will also gain hands-on experience following troubleshooting manuals to test components and repair engine faults.

Credits 6

Lecture Hours 33

Lab Hours 66

Prerequisites

[AGM 161](#) Diesel I (required).

AGM 291 : Diagnostics

This course is the capstone for the Agricultural Mechanics Technology program. Students will employ skills developed in previous classes to test and diagnose hydraulic, electrical, and mechanic issues in agricultural equipment. Lab time will closely simulate real-world agricultural mechanic work. Successful completion of this course will require adept troubleshooting, communication, time-management, record-keeping skills. This course will put the student critical-thinking and problem-solving capacities to the test.

Credits 8

Lecture Hours 11

Lab Hours 154

Prerequisites

Students are only eligible to take this class in his or her final quarter of Agricultural Mechanics coursework.

Agriculture

agriculture@bigbend.edu

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

Ag Technology & Management (non-transfer) AAS (95+ Credits)

Degree Type

Associate in Applied Science

BBCC provides students interested in Agricultural Technology and Management a comprehensive Associate in Applied Science (AAS) degree with two customized pathways intended to provide graduates with the skills needed to independently operate or support local, regional, and national agriculture industries. The degree plan specifically outlines pathways for students interested in specializing in Agricultural Business or Agronomy.

Program and Degree Learning Outcomes:

IO1 Communication: Students will be able to communicate clearly and effectively within a workplace context

IO2 Quantitative Reasoning: Students will be able to reason mathematically using methods appropriate to the profession

IO3 Human Relations/Workplace Skills:
Students will be able to demonstrate teamwork and/or workplace specific skills related to human relations

PO4 Students will demonstrate critical-thinking and problem-solving skills as they make decisions in agricultural related situations

PO5 Students will determine the appropriate tools and/or software related to the agricultural system

PO6 Students will collect and evaluate data from various technologies and make appropriate decisions from the data collected

Total Credits 95

Ag Technology & Management AAS – Agricultural Business Emphasis

Degree Type

Associate in Applied Science

The following schedule of courses is the recommended program for completing the AAS degree with the Agricultural Business specialization. See a program advisor for substitute courses.

Required courses for the AAS with the Agricultural Business Emphasis

Course Code	Title	Credits
ACCT 105	Introduction to Accounting	5
ACCT 262	Introduction to QuickBooks®	2
AGR 101	Orientation to Agricultural Industries & Careers	2
AGR 120	Intro to Precision Agriculture	5
AGR 212	Ag Safety and Pesticides	5
AGR 241	Farm and Ranch Management	5
AGR 261	Plant Science	5
AGR 263	Soils	5
AGR 271	Agriculture Sales and Marketing	5
AGR 272	Food Sustainability and Safety	5
AGR 295	Work-Based Learning-Internship	1-20
	AGR 297 or CDL 100	1-17
BIM 110	Microsoft Office Essentials	3
BUS& 101	Intro to Business	5
BUS 170	Consumer Finance	5
BUS 200	Supervision	5
	CMST& 220 or CMST& 210	5
ECON& 201	Micro Economics	5
	ENGL 109 or ENGL& 101	3
FAD 150	Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens	2
MAP 117	Applied Math for Workforce Programs I	1-5
	PSYC& 100 or SOC& 101	5
	Advisor Approved Additional Credits	
	Total Credits	95-111

Ag Technology & Management – Agronomy Emphasis (95+ cr)

Degree Type

Associate in Applied Science

Agronomy is the science of soil management and crop production. Soil and crop production are the base of the agriculture industry. The following schedule of courses is the recommended program for completing the AAS degree with the Agronomy specialization. See a program advisor for substitute courses.

Required Courses

Required Agronomy Emphasis Courses

Course Code	Title	Credits
AGR 101	Orientation to Agricultural Industries & Careers	2
AGR 110	Water Management in Agriculture	3
AGR 120	Intro to Precision Agriculture	5
AGR 211	Agriculture Weeds Identification and Control	5
AGR 212	Ag Safety and Pesticides	5
AGR 241	Farm and Ranch Management	5
AGR 251	Integrated Pest Management	5
AGR 261	Plant Science	5
AGR 263	Soils	5
AGR 265	Crop Production	5
AGR 271	Agriculture Sales and Marketing	5
AGR 272	Food Sustainability and Safety	5
AGR 295	Work-Based Learning- Internship	1-20
	AGR 297 or CDL 100	1-17
BIM 110	Microsoft Office Essentials	3
BUS 200	Supervision	5
CHEM& 105	Chemical Concepts	5
	CMST& 220 or CMST& 210	5
ECON& 201	Micro Economics	5
	ENGL 109 or ENGL& 101	3
FAD 150	Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens	2
MAP 117	Applied Math for Workforce Programs I	1-5
	PSYC& 100 or SOC& 101	5
	Total Credits	95-111

Agriculture Transfer AAS-T

Degree Type

Associate in Applied Science–Transfer

This AAS–T degree program is designed to give students a strong foundation in the agricultural fields and aligns with the specific WSU majors within the Integrated Plant Sciences and Agricultural Food Systems degrees. Students completing this degree will be prepared to begin upper division work in agriculture at WSU.

Customized Articulation Agreements are intended to eliminate duplication of coursework and better integrate programs to ensure a more efficient pathway to graduation. The agreements provide Big Bend Community College students with a more efficient transfer pathway to Washington State University (WSU). The current Custom Articulation Agreement options include the following:

- *Field Crop Management*
- *Agricultural and Food Business Economics*
- *Agricultural Technology and Production Management*

Students should work with a BBCC Agriculture Program Advisor to develop a schedule of courses to meet WSU program and transfer requirements.

Program Learning Outcomes:

- IO1 Communication
Students will be able to communicate clearly and effectively within a workplace context.
- IO2 Quantitative Reasoning
Students will be able to reason mathematically using methods appropriate to the profession.
- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork and/or workplace specific skills related to human relations.
- PO4 Students will demonstrate critical-thinking and problem-solving skills as they make decisions in agricultural management situations

- PO5 Students will demonstrate knowledge of scientific principles when applied to a variety of crop production systems

See a program advisor for substitute courses.

Required Courses

Course Code	Title	Credits
AGR 101	Orientation to Agricultural Industries & Careers	2
AGR 261	Plant Science	5
AGR 263	Soils	5
ANTH& 100	Survey of Anthropology	5
ART& 100	Art Appreciation	5
BOT 130	Botany	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
CMST& 220	Public Speaking	5
ECON& 201	Micro Economics	5
ENGL& 101	English Composition I	5
	HIST& 116 or HIST& 118	5
MATH& 146	Introduction to Statistics	5
	PSYC& 100 or SOC& 101	5
	Advisor Approved Electives (15 credits)	15
FAD 150	Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens	2

Approved AGR Electives:

Course Code	Title	Credits
AGR 212	Ag Safety and Pesticides	5
AGR 241	Farm and Ranch Management	5
AGR 251	Integrated Pest Management	5
AGR 271	Agriculture Sales and Marketing	5
AGR 272	Food Sustainability and Safety	5
AGR 295	Work-Based Learning- Internship	1-20
AGR 297	Work-Based Learning Seminar	1
Total Credits		94

Agricultural Agronomy Certificate of Achievement (55+ Credits)

Degree Type

Certificate

This certificate will provide students the foundational knowledge and skills to work in or support crop production. Upon completion of the following courses, the student will earn a Certificate of Achievement. See a program advisor for substitute courses.

Program and Degree Learning Outcomes:

IO1 **Communication:** Students will be able to communicate clearly and effectively within a workplace context

IO2 **Quantitative Reasoning:** Students will be able to reason mathematically using methods appropriate to the profession

IO3 **Human Relations/Workplace Skills:** Students will be able to demonstrate teamwork and/or workplace specific skills related to human relations

PO4 Students will demonstrate critical-thinking and problem-solving skills as they make decisions in agricultural related situations

PO5 Students will determine the appropriate tools and/or software related to the agricultural system

PO6 Students will collect and evaluate data from various technologies and make appropriate decisions from the data collected

Required Courses

Course Code	Title	Credits
AGR 101	Orientation to Agricultural Industries & Careers	2
AGR 110	Water Management in Agriculture	3
AGR 211	Agriculture Weeds Identification and Control	5
AGR 251	Integrated Pest Management	5
AGR 261	Plant Science	5
AGR 263	Soils	5
AGR 265	Crop Production	5
CHEM& 105	Chemical Concepts	5
	CMST& 220 or CMST& 210	5
	ENGL 109 or ENGL& 101	3
FAD 150	Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens	2
MAP 117	Applied Math for Workforce Programs I	1-5
	SOC& 101 or PSYC& 100	5
Total Credits		55

Agriculture Business Certificate of Achievement (47+ Credits)

Degree Type

Certificate

Agricultural business is a large sector of the agriculture industry. This certificate will provide

students the foundational knowledge and skills to work in or operate an agricultural business. Upon completion of the following courses, the student will earn a Certificate of Achievement. See a program advisor for substitute courses

Program and Degree Learning Outcomes:

IO1 **Communication:** Students will be able to communicate clearly and effectively within a workplace context

IO2 **Quantitative Reasoning:** Students will be able to reason mathematically using methods appropriate to the profession

IO3 **Human Relations/Workplace Skills:** Students will be able to demonstrate teamwork and/or workplace specific skills related to human relations

PO4 Students will demonstrate critical-thinking and problem-solving skills as they make decisions in agricultural related situations

PO5 Students will determine the appropriate tools and/or software related to the agricultural system

PO6 Students will collect and evaluate data from various technologies and make appropriate decisions from the data collected

Required Courses

Course Code	Title	Credits
ACCT 105	Introduction to Accounting	5
AGR 101	Orientation to Agricultural Industries & Careers	2
AGR 241	Farm and Ranch Management	5
AGR 271	Agriculture Sales and Marketing	5
BUS& 101	Intro to Business	5
BUS 170	Consumer Finance	5
	CMST& 220 or CMST& 210	5
	ENGL 109 or ENGL& 101	3
FAD 150	Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens	2
MAP 117	Applied Math for Workforce Programs I	1-5
	SOC& 101 or PSYC& 100	5
	Total Credits	47

Agriculture Course Descriptions

AGR 101 : Orientation to Agricultural Industries & Careers

This course will explore the Columbia Basins agricultural industries along with the career opportunities available within the industries. This course includes industry tours, career research & planning, personal & professional development, and networking.

Credits 2

Lecture Hours 22

Quarters Offered

Fall

AGR 110 : Water Management in Agriculture

This course will provide students the opportunity to study water and its management for agronomic purposes. A broad range of topics will be covered including the Columbia Basin Irrigation project, hydrology, basic irrigation

principles, water relationships, efficiency, and water quality & supply. Course topics and concepts will be reinforced with hands-on labs and activities

Credits 3

Lecture Hours 22

Lab Hours 22

Prerequisites

[AGR 263](#) Soils recommended.

Quarters Offered

Winter

AGR 120 : Intro to Precision Agriculture

This course provides an overview of the fundamentals of precision agriculture. Specifically covering Global Positioning Systems (GPS), Geographic Information Systems (GIS), remote sensing, data analysis, mapping, and variable rate agriculture technologies. Course concepts will be applied and reinforced through laboratory instruction.

Credits 5

Lecture Hours 33

Lab Hours 44

Quarters Offered

Fall

AGR 211 : Agriculture Weeds Identification and Control

This course covers the classification, identification and control of weeds that economically affect agriculture in the Columbia Basin and surrounding areas.

Credits 5

Lecture Hours 55

Quarters Offered

Spring

AGR 212 : Ag Safety and Pesticides

This course is an overview of safety in the agricultural industry by identifying safety hazards, applying procedures, analyzing safety rules and regulations. Emphasis will be placed on the relation to agricultural operations, technological changes, workplace violence, ethics, diversity, and personal/organizational responsibilities. This course will also focus on agricultural chemical applications, proper

pesticide and fertilizer use. Upon completion of this course, students will be prepared for their Washington State Commercial Applicator License Exams.

Credits 5

Lecture Hours 55

Quarters Offered

Spring

AGR 241 : Farm and Ranch Management

In this course, students will study the management principles for profitable farming operations, ranches, and other agribusiness firms. Topics include economic concept application and analysis, record keeping, creating and evaluating financial statements, budgeting, taxes, and risk management. Course concepts will be reinforced through laboratory instruction.

Credits 5

Lecture Hours 44

Lab Hours 22

Quarters Offered

Fall

AGR 251 : Integrated Pest Management

In this course, students will learn ecologically based pest management strategies for controlling weeds, insects, pathogens, nematodes, and vertebrate pests as well as how to set up sampling and monitoring programs in the field. The course will cover the biological nature of pests, focusing on how their population dynamics and ecological interactions with other species and how their environments contribute to their detrimental impacts on agriculture and human resources. (Previous Course Title Ecologically Based Pest Management)

Credits 5

Lecture Hours 55

Quarters Offered

Spring

AGR 261 : Plant Science

This course introduces principles of plant science as it relates to the production and management of crops. Topics will include plant classification,

form and function, growth, processes, genetics, and reproduction. Course concepts will be applied through laboratory instruction.

Distribution

Natural Science

Credits 5

Lecture Hours 44

Lab Hours 22

Quarters Offered

Fall

AGR 263 : Soils

This course is an 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, soil minerals, soil chemistry, soil fertility, soil microorganisms, soil ecology, fertilizers, plant, and soil and water relationships.

Distribution

Math/Science Laboratory

Credits 5

Lecture Hours 44

Lab Hours 22

Quarters Offered

Winter

AGR 265 : Crop Production

This course takes an in depth look at the science and processes of crop production. Students will build on their knowledge of plant and soils sciences and apply it to crop production from the beginning stages of soil and seed to the final harvested product. Students are encouraged to take [AGR 261](#) Plant Science and [AGR 263](#) Soils prior to this course

Credits 5

Lecture Hours 55

Quarters Offered

Fall

AGR 271 : Agriculture Sales and Marketing

This course will provide students the opportunity to study the marketing system for agricultural commodities. Students learn to analyze topics related to market structure, supply, demand, price, price analysis, trade, spatial relationships,

market price variation through time, institutional arrangements, and public policy as they relate to agricultural marketing. Additionally, the concept of futures markets is introduced as a tool for price risk management. Theoretical economic frameworks covered in this class are applied to the commodities relevant to the Columbia Basin.

Credits 5

Lecture Hours 55

Prerequisites

ECON& 201 Micro Economics.

Quarters Offered

Spring

AGR 272 : Food Sustainability and Safety

Students will study the challenges and importance of sustainable and safe food production. Topics include history of agriculture, geography of hunger, the sustainability concept, agricultural systems, agroecology, biotechnology, and food safety.

Credits 5

Lecture Hours 55

Quarters Offered

Winter

AGR 295 : Work-Based Learning-Internship

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. The course may be repeated up to 20 credits. Students must be enrolled in both AGR 295 and AGR 297 in the same quarter.

Credits 1

-20

Clinical Hours 33

-660

Corequisites

AGR 297: Work-Based Learning Seminar

Quarters Offered

Summer

AGR 297 : Work-Based Learning Seminar

This seminar course covers topics related to professional employment in Agriculture. Students will share feedback and discussion to integrate work-based learning experiences with classroom instruction. Students must be enrolled in both AGR 295 and AGR 297 in the same quarter.

Credits 1

Lecture Hours 11

Corequisites

AGR 295: Work-Based Learning-Internship

Quarters Offered

Summer

Aircraft Rescue & Fire Fighting

Aircraft Rescue & Fire Fighting Course Descriptions

FIR 101 : Aircraft Rescue and Fire Fighting 40 Hour Basic

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.

Credits 3

Lecture Hours 24

Lab Hours 16

FIR 102 : Aircraft Rescue and Fire Fighting Truck Operations

This course is providing training and experience for students to properly operate a crash truck during a crash truck during an aircraft fire.

Credits 2

Lecture Hours 6

Lab Hours 20

FIR 103 : Aircraft Rescue and Fire Fighting Recurrent – Live Fire Training

This course offers firefighters the opportunity to meet live fire requirements as specified in FAR 139.319, the FAA requirement that all rescue and firefighting personnel participate in at least one live fire drill every 12 months.

Credits 1

Lecture Hours 2

Lab Hours 6

Prerequisites

Completion of Big Bend Community Colleges 40 Hour Basic ARFF School OR meet all three equivalent training/experience criteria listed below:

FIR 104 : ARFF Officer Development

This airport, rescue firefighting officer development course covers strategic and tactical considerations in a hands-on, live-fire ground environment, as well as leadership training.

Credits 1

Lecture Hours 8

Lab Hours 8

Prerequisites

Current employment in firefighting industry for future or Commissioned Fire Officers

Anthropology

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Suzanne Reilly

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Anthropology courses may be taken as part of the Associate in Arts and Science DTA degree. These courses may be used toward the Social Science Breadth requirement or for Specified or General Elective credit. Students seeking Associate in Arts and Science DTA degree should refer to the catalog section “Degrees & Certificates” for a detailed description of the degree, its program outcomes, and courses that will satisfy degree requirements.

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. Students should prepare their quarterly schedules with the assistance of an advisor knowledgeable in this transfer area.

Anthropology Course Descriptions

ANTH& 100 : Survey of Anthropology

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. There are no prerequisites. Strongly recommended completion of MATH 094/M AP 117 or a higher placement and completion of ENGL 098 or a higher placement.

Distribution

Social Science

Credits 5

Lecture Hours 55

Quarters Offered

Fall, Winter, Spring

Art

Dustin Regul

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Art courses may be taken as part of the Associate in Arts and Science DTA degree. These courses may be used toward the Humanities Breadth requirement or for Specified or General Elective credit. Students seeking Associate in Arts and Science DTA degree should refer to the catalog section “Degrees & Certificates” for a detailed description of the degree, its program outcomes, and courses that will satisfy degree requirements.

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

and time periods the students may make connections to human expressions throughout the world community.

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

A variety of art courses are offered for the student and the community. The art student may select from such fields as art education, two and three-dimensional design, drawing, painting or ceramic art. Some possible career options for art and art history majors are: artist, art educator, museum curator, art critic, graphic designer, photographer, web designer, industrial design, and many others. The study of the arts and art history may help other majors in problem solving techniques, creative thinking, and working with others.

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

Recommended Pre-Major Courses Credits

ART 101 2D Foundations

ART 102 Color Theory

ART 103 3D Foundations

ART 104 Drawing I

ART 105 Drawing II.

ART 106 Drawing III

ART 140 Introduction to Digital Art.

ART 216 Prehistoric–Medieval Art History..

ART 217 Renaissance –Mid-nineteenth Century..

ART 218 Western Art: Impressionism to Art after 1945.

Recommended Art Electives (12 credits)

ART 121 Ceramics I

ART 122 Ceramics II

ART 123 Ceramics III

ART 221 Watercolor I.

ART 222 Watercolor II

ART 223 Watercolor III

ART 231 Oil Painting I

ART 232 Oil Painting II

ART 233 Oil Painting III

ART 230 Painting/Drawing Workshop

Art Course Descriptions

ART& 100 : Art Appreciation

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.

Distribution

Humanities Lecture, Diversity

Credits 5

Lecture Hours 55

Quarters Offered

Fall, Winter, Spring, Summer

ART 101 : 2D Foundations

2D Foundations 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.**

Distribution

Humanities Performance/Skill

Credits 5

Lecture Hours 44

Lab Hours 22

Quarters Offered

Fall

ART 102 : Color Theory

The study of water color painting from still life and nature with an introduction to the materials and techniques of watercolor painting.

Distribution

Humanities Performance/Skill

Credits 5

Lecture Hours 44

Lab Hours 22

Quarters Offered

Winter

ART 103 : 3D Foundations

An introduction to the study of three-dimensional design explored through text and various media in sculpture.

Distribution

Humanities Performance/Skill

Credits 5

Lecture Hours 44

Lab Hours 22

Quarters Offered

Spring

ART 104 : Drawing I

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.

Distribution

Humanities Performance/Skill

Credits 5

Lecture Hours 44

Lab Hours 22

Quarters Offered

Fall, Spring

ART 105 : Drawing II

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.

Distribution

Humanities Performance/Skill

Credits 5

Lecture Hours 44

Lab Hours 22

Quarters Offered

Winter

ART 106 : Drawing III

Working from a live model, the student explores a range of drawing approaches including gestural drawings, sustained renderings, structural drawings and expressive treatment of the figure. Exercises are performed which emphasize anatomical structure and focus on fragments, such as hand studies and portraiture. The development of a personal approach to drawing the figure and an examination of how the figure

can be handled in art is explored through such means as critiques, slide presentations and demonstrations. Drawing I or II recommended

Distribution

Humanities Performance/Skill

Credits 5

Lecture Hours 44

Lab Hours 22

ART 121 : Ceramics I

Experiments and design in clay applied to pottery and sculpture. Work in various hand construction methods, glazing and kiln firing.

Distribution

Humanities Performance/Skill

Credits 5

Lecture Hours 44

Lab Hours 22

Quarters Offered

Fall, Winter, Spring

ART 122 : Ceramics II

Ceramics II continues in experiments and design in clay applied to pottery and sculpture by throwing on the pottery wheel, glazing and kiln firing.

Distribution

Humanities Performance/Skill

Credits 5

Lecture Hours 44

Lab Hours 22

Prerequisites

[ART 121](#) or instructor permission.

Quarters Offered

Fall, Winter, Spring

ART 123 : Ceramics III

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.

Distribution

Humanities Performance/Skill

Credits 5

Lecture Hours 44

Lab Hours 22

Prerequisites

[ART 121](#), [ART 122](#) or instructor permission.

Quarters Offered

Fall, Winter, Spring

ART 140 : Introduction to Digital Art

This course is an introduction to digital art wherein students will use technology for creative expression and the sharing of ideas and artwork.

Distribution

Humanities Performance/Skill

Credits 5

Lecture Hours 44

Lab Hours 22

Quarters Offered

Winter, Spring

ART 198 : Special Projects

Special projects in art – individual projects by special arrangement with instructor.

Distribution

Humanities Performance/Skill

Credits 1

-5

Clinical Hours 55

-275

Prerequisites

instructor permission

ART 212 : American Art

Beginning with the era of the colonization of North America by European nations and ending with the 20th century, this course will trace the development of art in the United States.

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

ART 216 : Western Art: Ancient to Medieval

A survey of the history of western art and architecture from ancient times to the medieval age.

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

Quarters Offered

Spring

ART 217 : Western Art: Renaissance to Mid Nineteenth Century

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 da Vinci and Michelangelo to the beginnings of photography in the mid nineteenth century

Distribution

Humanities Lecture

Credits 5**Lecture Hours** 55**Quarters Offered**

Winter

ART 218 : Western Art: Impressionism to Art After 1945

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.

Distribution

Humanities Lecture

Credits 5**Lecture Hours** 55**Quarters Offered**

Fall

ART 221 : Watercolor Painting I

The study of water color painting from still life and nature with an introduction to the materials and techniques of watercolor painting.

Distribution

Humanities Performance/Skill

Credits 5**Lecture Hours** 44**Lab Hours** 22**Quarters Offered**

Spring, Summer

ART 222 : Watercolor Painting II

A continuation of the study of water color painting from still life and nature with the materials and techniques of water color painting.

Distribution

Humanities Performance/Skill

Credits 5**Lecture Hours** 44**Lab Hours** 22**Prerequisites**

[ART 221](#) or instructor permission

Quarters Offered

Spring, Summer

ART 223 : Watercolor Painting III

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.

Distribution

Humanities Performance/Skill

Credits 5**Lecture Hours** 44**Lab Hours** 22**Prerequisites**

[ART 221](#) and [ART 222](#) or instructor permission.

Quarters Offered

Spring, Summer

ART 230 : Painting/Drawing Workshop

A workshop class designed to allow experimentation with 2D media such as pencil, charcoal, pastels, watercolor, acrylic paint.

Distribution

Humanities Performance/Skill

Credits 5**Lecture Hours** 44

-44

Lab Hours 22**Prerequisites**

None but studio class such as drawing or painting recommended

ART 231 : Oil Painting I

Introduction to the materials and techniques of oil painting. Painting from still life and nature using creative compositions.

Distribution

Humanities Performance/Skill

Credits 5**Lecture Hours** 44**Lab Hours** 22

Quarters Offered

Fall, Winter, Spring

ART 232 : Oil Painting II

Continuation of exploration in oil painting materials and techniques with an emphasis on developing content or message in the paintings.

Distribution

Humanities Performance/Skill

Credits 5

Lecture Hours 44

Lab Hours 22

Prerequisites

[ART 231](#) or instructor permission.

Quarters Offered

Fall, Winter, Spring

ART 233 : Oil Painting III

Advanced oil painting is an emphasis upon the students artistic growth and the development of his or her own style and voice using oil painting techniques and materials.

Distribution

Humanities Performance/Skill

Credits 5

Lecture Hours 44

Lab Hours 22

Prerequisites

[ART 231](#) and 232 or instructor permission.

Quarters Offered

Fall, Winter, Spring

ART 298 : Special Projects

Special projects in art - individual projects by special arrangement with instructor.

Distribution

Humanities Performance/Skill

Credits 1

-5

Clinical Hours 55

-275

Prerequisites

instructor permission

Astronomy

Tyler Wallace, Division Chair

509.793.2150

astronomy@bigbend.edu

Astronomy courses may be taken as part of the Associate in Arts and Science DTA degree. These courses may be used toward the Natural Science Breadth requirement or for Specified or General Elective credit. Students seeking Associate in Arts and Science DTA degree should refer to the catalog section "Degrees & Certificates" for a detailed description of the degree, its program outcomes, and courses that will satisfy degree requirements.

Astronomy is the study of the entire universe, ranging from descriptions of and explanations for the daily, seasonal, and annual motions we observe with our eyes to trying to understand the origin and evolution of the universe itself. Between those extremes astronomy includes the study of the increasing number of known solar systems, the stars and other matter that make up galaxies, and the way galaxies and clusters of galaxies interact in the warped fabric of space and time. A course in astronomy introduces a learner to a wide range of material in the area, but also looks at how we know what we know, incorporating material from other fields such as chemistry, geology, and physics.

Most professional astronomers work in academia, combining research with teaching. Some work in business or private industry, some in planetariums or science museums, some in purely teaching positions in high schools or community colleges. The large number of science and mathematics courses necessary for a degree in astronomy are applicable in many different employment fields.

Since programs differ at each college, students should consult program outlines published by the college or university to which they intend to

transfer. Students should prepare their quarterly schedules with the assistance of an advisor knowledgeable in this transfer area.

Astronomy Course Descriptions

ASTR& 100 : Survey of Astronomy

A survey course intended for the non-science major. Topics studied will include most of the following: historical astronomy, electromagnetic radiation, telescopes, the Earth-Moon system, the solar system, the sun, stars, stellar evolution, galaxies, quasars, and cosmology. This is a non-lab science course. Credit not granted for both ASTR& 100 and ASTR& 101.

Distribution

Natural Science

Credits 5

Lecture Hours 55

Prerequisites

Completion of [MATH 099](#)/[MAP 121](#) or a higher placement

ASTR& 101 : Intro to Astronomy

A survey course intended for the non-science major. Topics studied will include most of the following: historical astronomy, electromagnetic radiation, telescopes, the Earth-Moon system, the solar system, the sun, stars, stellar evolution, galaxies, quasars and cosmology. 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.

Distribution

Lab Science

Credits 5

Lecture Hours 44

Lab Hours 22

Prerequisites

Math 099 or higher placement

Quarters Offered

Fall, Spring

ASTR 105 : Observational Astronomy

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 premajor.

Distribution

Specified Elective

Credits 3

Lecture Hours 28

Lab Hours 12

Automotive Technology

email: automotive@bigbend.edu

A student in the BBCC Automotive Technician program receives training in all eight ASE Certification areas. Modern repair and diagnostic test equipment are 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 Section 609 Refrigerant Certification, basic welding skills, and 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. 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.

Automotive Technology AAS

Degree Type

Associate in Applied Science

Program Learning Outcomes:

- IO1 Communication
Students will be able to communicate clearly and effectively within a workplace context.
- IO2 Quantitative Reasoning
Students will be able to reason mathematically using methods appropriate to the profession.
- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork and/or workplace specific skills related to human relations
- PO4 Graduates will demonstrate proper shop safety procedures and hazardous waste handling while performing repairs and diagnostics in the lab
- PO5 Graduates will use proper tools during repair and diagnostic work in the lab
- PO6 Graduates demonstrate the ability to retrieve service information from manuals and on-line sources
- PO7 By program completion, graduates are prepared to take the ASE Student Exams including engine repair, automatic transmissions, manual transmissions, steering and suspension, brakes, electrical/electronics, HVAC, and engine performance

Degree Courses

Required Courses

Course Code	Title	Credits
AUT 105	Automotive Personal Computer Applications	2
AUT 111	Automotive Engine Service	9
AUT 115	Automotive Shop Safety and 1 Environmental Issues	
AUT 121	Automotive Electrical and Electronic Systems	15
AUT 124	Brake System Service	9
AUT 125	Suspension, Steering and Alignment	9
AUT 131	Manual Drive Train and Axles	8
AUT 132	Hydraulic Systems	3
AUT 190	Skills Laboratory I	2
AUT 211	Automobile Convenience Systems	2
AUT 212	Automatic Transmission Repair	9
AUT 213	Automotive Servicing I	6
AUT 220	Engine Performance	18
AUT 223	Automotive Servicing II	6
AUT 231	Automotive Heating and Air Conditioning	6
AUT 290	Skills Laboratory II	2
	CMST& 220 or CMST& 210	5
	ENGL 109 or ENGL& 101	3
FAD 150	Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens	2
	MAP 117	5
	PSYC& 100 or SOC& 101	5
WLD 146	Industrial Welding	4
	Total Credits	137

Automatic Transmission & Transaxle Repair Certificate of Accomplishment

Degree Type

Certificate

Students not desiring a degree but who are interested in training and instruction in specialized areas may be awarded 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 workforce 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.

Automotive Technology Certificates of Accomplishment correspond with the eight ASE/NATEF certification areas.

IO3 **Human Relations/Workplace Skills**

Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

Required Courses

Course Code	Title	Credits
AUT 115	Automotive Shop Safety and 1 Environmental Issues	
AUT 212	Automatic Transmission Repair	9

*All certificates require the completion of AUT 115 Automotive Shop Safety and Environmental Issues. Students seeking to earn multiple certificates only need to complete AUT 115 once regardless of number of certificates intended.

Total Credits	10
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Automotive Brake Repair Certificate of Accomplishment

Degree Type
Certificate

Students not desiring a degree but who are interested in training and instruction in

specialized areas may be awarded 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 workforce 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.

Automotive Technology Certificates of Accomplishment correspond with the eight ASE/NATEF certification areas and are available as follows:

Required Courses

Course Code	Title	Credits
AUT 115	Automotive Shop Safety and 1 Environmental Issues	
AUT 124	Brake System Service	9
Total Credits		10

*All certificates require the completion of AUT 115 Automotive Shop Safety and Environmental Issues. Students seeking to earn multiple certificates only need to complete AUT 115 once regardless of number of certificates intended.

Automotive Electrical/Electronic Systems Certificate of Accomplishment

Degree Type
Certificate

Students not desiring a degree but who are interested in training and instruction in specialized areas may be awarded 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 workforce 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.

Automotive Technology Certificates of Accomplishment correspond with the eight ASE/NATEF certification areas.

IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

Required Courses

Course Code	Title	Credits
AUT 115	Automotive Shop Safety and 1 Environmental Issues	
AUT 121	Automotive Electrical and Electronic Systems	15
Total Credits		16

Automotive Engine Performance Certificate of Accomplishment

Degree Type
Certificate

Students not desiring a degree but who are interested in training and instruction in specialized areas may be awarded 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 workforce 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.

Automotive Technology Certificates of Accomplishment correspond with the eight ASE/NATEF certification areas.

IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

Required Courses

Course Code	Title	Credits
AUT 115	Automotive Shop Safety and 1 Environmental Issues	
AUT 220	Engine Performance	18
Total Credits		19

*All certificates require the completion of AUT 115 Automotive Shop Safety and Environmental Issues. Students seeking to earn multiple certificates only need to complete AUT 115 once regardless of number of certificates intended.

Automotive Engine Repair Certificate of Accomplishment

Degree Type
Certificate

Students not desiring a degree but who are interested in training and instruction in specialized areas may be awarded 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 workforce 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.

Automotive Technology Certificates of Accomplishment correspond with the eight ASE/NATEF certification areas.

IO3 Human Relations/Workplace Skills

Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

Required Courses

Course Code	Title	Credits
AUT 115	Automotive Shop Safety and 1 Environmental Issues	
AUT 111	Automotive Engine Service	9
*All certificates require the completion of AUT 115 Automotive Shop Safety and Environmental Issues. Students seeking to earn multiple certificates only need to complete AUT 115 once regardless of number of certificates intended.		
Total Credits		10

Automotive Heating and Air Conditioning Certificate of Accomplishment

Degree Type
Certificate

Students not desiring a degree but who are interested in training and instruction in specialized areas may be awarded 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 workforce 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.

Automotive Technology Certificates of Accomplishment correspond with the eight ASE/NATEF certification areas.

IO3 Human Relations/Workplace Skills

Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

Required Courses

Course Code	Title	Credits
AUT 115	Automotive Shop Safety and 1 Environmental Issues	
AUT 231	Automotive Heating and Air 6 Conditioning	
*All certificates require the completion of AUT 115 Automotive Shop Safety and Environmental Issues. Students seeking to earn multiple certificates only need to complete AUT 115 once regardless of number of certificates intended.		
Total Credits		7

Automotive Manual Drive Train and Axle Certificate of Accomplishment

Degree Type
Certificate

Students not desiring a degree but who are interested in training and instruction in specialized areas may be awarded 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 workforce 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.

Automotive Technology Certificates of Accomplishment correspond with the eight ASE/NATEF certification areas.

IO3 Human Relations/Workplace Skills

Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

Required Courses

Course Code	Title	Credits
AUT 115	Automotive Shop Safety and 1 Environmental Issues	
AUT 131	Manual Drive Train and Axles 8	
*All certificates require the completion of AUT 115 Automotive Shop Safety and Environmental Issues. Students seeking to earn multiple certificates only need to complete AUT 115 once regardless of number of certificates intended.		
Total Credits		9

Automotive Suspension and Steering Certificate of Accomplishment

Degree Type
Certificate

Students not desiring a degree but who are interested in training and instruction in specialized areas may be awarded 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 workforce 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.

Automotive Technology Certificates of Accomplishment correspond with the eight ASE/NATEF certification areas and are available as follows:

Required Courses

Course Code	Title	Credits
AUT 115	Automotive Shop Safety and 1 Environmental Issues	
AUT 125	Suspension, Steering and Alignment	9
*All certificates require the completion of AUT 115 Automotive Shop Safety and Environmental Issues. Students seeking to earn multiple certificates only need to complete AUT 115 once regardless of number of certificates intended.		
Total Credits		10

Automotive Technology Course Descriptions

AUT 105 : Automotive Personal Computer Applications

An introductory course covering the operation of personal computers using automotive applications. Hardware components, Windows Operating System, word processing, spreadsheets, and student created presentations will be covered emphasizing "hands-on" experience.

Credits 2

Lecture Hours 11

Lab Hours 22

Prerequisite or Corequisite

Concurrent enrollment in automotive program classes.

Quarters Offered

Spring

AUT 111 : Automotive Engine Service

This course covers the theory of engine operation and the procedures necessary to perform

automobile engine troubleshooting, repair and rebuilding. Topics covered include shop skills, engine operation, engine blocks, engine crankshafts, engine bearings, engine pistons, rings and valve system service. This course is designed to prepare the student for the ASE/NATEF Engine Repair Certification test, while instilling interpersonal and employability skills. There will be a heavy focus on customer service and quality control.

Credits 9

Lecture Hours 66

Lab Hours 66

Prerequisites

[AUT 115](#) Automotive Shop Safety and Environmental Issues

Corequisites

[AUT 190](#) Automotive Lab.

Quarters Offered

Spring

AUT 115 : Automotive Shop Safety and Environmental Issues

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.

Credits 1

Lecture Hours 10

Lab Hours 2

Quarters Offered

Fall, Winter, Spring

AUT 121 : Automotive Electrical and Electronic Systems

This comprehensive course covers both theory and operation of the electrical systems in today's high-tech vehicles. Topics covered include D.C. electrical theory, D.C. circuitry, Ohms Law, solid state components, batteries, starting circuits, charging circuits, lighting circuits, vehicle wiring and ignition systems. Emphasis will be placed on

using modern electrical test equipment and procedures to diagnose and repair complex electrical systems. This course is designed to prepare the student for the ASE/NATEF Electrical Systems Certification test, while instilling interpersonal and employability skills. There will be a heavy focus on customer service and quality control.

Credits 15

Lecture Hours 110

Lab Hours 110

Prerequisites

[AUT 115](#): Automotive Shop Safety and Environmental Issues

Corequisites

[AUT 190](#).

Quarters Offered

Winter

AUT 124 : Brake System Service

This course covers the theory, operation, diagnosis and repair of both conventional and anti-lock brake systems. Topics covered are hydraulic operating systems, drum brake systems, disc brake systems, emergency/parking brake systems and brake machining operations. This course is designed to prepare the student for the ASE/NATEF Brakes Certification test, while instilling interpersonal and employability skills. There will be a heavy focus on customer service and quality control.

Credits 9

Lecture Hours 66

Lab Hours 66

Prerequisites

[AUT 115](#)-Automotive Shop Safety and Environmental Issues

Corequisites

[AUT 190](#) Automotive Lab.

Quarters Offered

Fall

AUT 125 : Suspension, Steering and Alignment

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.

Credits 9

Lecture Hours 66

Lab Hours 66

Prerequisites

[AUT 115](#) Automotive Shop Safety and Environmental Issues.

Corequisites

[AUT 190](#) Automotive Lab.

Quarters Offered

Fall

AUT 131 : Manual Drive Train and Axles

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

Credits 8

Lecture Hours 55

Lab Hours 66

Prerequisites

[AUT 115](#) Automotive Shop Safety and Environmental Issues.

Corequisites

[AUT 190](#) Automotive Lab.

Quarters Offered

Spring

AUT 132 : Hydraulic Systems

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.

Credits 3

Lecture Hours 22

Lab Hours 22

Prerequisites

[AUT 115](#) Automotive Shop Safety and Environmental Issues.

Corequisites

[AUT 190](#) Automotive Lab.

Quarters Offered

Winter

AUT 190 : Skills Laboratory I

This course is for full-time automotive students who need extra project laboratory time to update or enhance their skills to meet program certification requirements. Students will be directed to complete ASE/NATEF tasks not completed in the day classes. (May be repeated for credit up to six credits for each course; graded on pass/fail basis).

Credits 2

Lab Hours 44

Prerequisites

Concurrent enrollment in first year automotive program classes.

Quarters Offered

Fall, Winter, Spring

AUT 211 : Automobile Convenience Systems

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.

Credits 2

Lecture Hours 11

Lab Hours 22

Prerequisites

[AUT 121](#) – All First Year Certificate Auto Courses.

Quarters Offered

Spring

AUT 212 : Automatic Transmission Repair

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.

Credits 9

Lecture Hours 66

Lab Hours 66

Prerequisites

All First Year Certificate Auto Courses plus [AUT 132](#).

Quarters Offered

Winter

AUT 213 : Automotive Servicing I

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.

Credits 6

Lab Hours 132

Prerequisites

Instructor permission or completion of first year automotive classes.

Quarters Offered

Winter

AUT 220 : Engine Performance

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.

Credits 18

Lecture Hours 132

Lab Hours 132

Prerequisites

All First Year Certificate Auto Courses.

Quarters Offered

Fall

AUT 223 : Automotive Servicing II

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.

Credits 6

Lab Hours 132

Prerequisites

Instructor permission or completion of first year automotive classes.

Quarters Offered

Spring

AUT 231 : Automotive Heating and Air Conditioning

This course covers the diagnosis, 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.

Credits 6

Lecture Hours 33

Lab Hours 66

Prerequisites

All First Year Certificate Auto Courses or Instructor Approval.

Quarters Offered

Spring

AUT 290 : Skills Laboratory II

This course is for full-time automotive students who need extra project laboratory time to update or enhance their skills to meet program certification requirements. Students will be directed to complete ASE/NATEF tasks not completed in the day classes. (May be repeated for credit up to six credits for each course; graded on pass/fail basis).

Credits 2

Lab Hours 44

Prerequisites

Concurrent enrollment in second year automotive program classes

Quarters Offered

Fall, Winter, Spring

AUT 295 : Workbased Learning

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.

Credits 1

-6

Lecture Hours 33

-198

Prerequisites

AUT instructor permission required.

Corequisites

Concurrent enrollment in [AUT 297](#)

AUT 297 : Workbased Learning Seminar

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.

Credits 1

Lecture Hours 11

Prerequisites

FIR 101: Aircraft Rescue and Fire Fighting 40 Hour Basic

Corequisites

Concurrent enrollment in [AUT 295](#).

Aviation (Commercial Pilot/Flight)

email: aviation@bigbend.edu

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. 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 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.

Commercial Pilot AAS

Degree Type

Associate in Applied Science

BBCC offers a two-year Workforce 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.

The following schedule of courses is the recommended program for completing this degree. See a program advisor for substitute courses.

Program Learning Outcomes:

- IO1 Communication
Students will be able to communicate clearly and effectively.
- IO2 Quantitative Reasoning
Students will be able to reason mathematically.
- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.
- PO4 Students will be able to recognize or articulate personal/interpersonal aspects of, or connections between, diverse cultural, social, or political contexts
- PO5 Students will be able to solve problems by gathering, interpreting, combining and/or applying information from multiple sources.
- PO6 The students will be able to demonstrate the technical aspects of aircraft control and operation of related systems at the FAA commercially certificated and instrument rated pilot level
- PO7 The students will be able to interpret regulatory and legal issues which impact the industry at the FAA commercially certificated pilot level.

- PO8 The student will be able to evaluate effective aeronautical decision making skills at the FAA commercially certificated pilot level

Required Program Courses
Required Program Courses

Course Code	Title	Credits
AVF 111	Pre-Flight Ground School	1
AVF 112	Private Pilot Ground School	5
AVF 113	Meteorology	5
AVF 114	Theory of Flight	5
AVF 117	Aviation Emergency Preparedness & Response	1
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 School	5
AVF 251	Commercial Pilot Flight (Stage 4)	4
AVF 252	Commercial Pilot Flight (Stage 5)	4
AVF 253	Commercial Pilot Flight (Stage 7)	4
AVF 254	Night Flying	1
AVF 261	Instrument Flight (Stage 6)	4
	CMST& 220 or CMST& 210	5
ENGL& 101	English Composition I	5
FAD 150	Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens	2
	MAP 117	5
	PSYC& 100 or SOC& 101	5
	Advisor Approved Electives/ Transfer Courses	
Total Credits		90

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

ATP: Multi-Engine Certificate of Accomplishment

Degree Type

Certificate

Students who are interested in training in specialized areas of flight will be awarded Certificates of Accomplishment from BBCC.

Program Learning Outcomes:

IO3 Human Relations/Workplace Skills: Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

Required Courses

Course Code	Title	Credits
AVF 292	A.T.P.: Multi-Engine	1
Total Credits		1

Aircraft Solo Certificate of Accomplishment

Degree Type

Certificate

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

Program Learning Outcomes:

IO3 Human Relations/Workplace Skills: Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

Required Courses

Course Code	Title	Credits
AVF 111	Pre-Flight Ground School	1
AVF 141	Private Pilot Flight (Stage 1)	4
Total Credits		5

Commercial Pilot Certificate of Accomplishment

Degree Type

Certificate

Students who are interested in training in specialized areas of flight will be awarded Certificates of Accomplishment from BBCC.

Program Learning Outcomes:

IO3 Human Relations/Workplace Skills: Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

Required Courses

Course Code	Title	Credits
AVF 114	Theory of Flight	5
AVF 221	Commercial Pilot Ground School	5
AVF 251	Commercial Pilot Flight (Stage 4)	4
AVF 252	Commercial Pilot Flight (Stage 5)	4
AVF 253	Commercial Pilot Flight (Stage 7)	4
AVF 254	Night Flying	1
Total Credits		23

Commercial Pilot Certificate of Achievement

Degree Type

Certificate

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.

Program Learning Outcomes:

- IO1 Communication
Students will be able to communicate clearly and effectively.

- IO2 Quantitative Reasoning
Students will be able to reason mathematically.
- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.
- PO4 Students will be able to recognize or articulate personal/interpersonal aspects of, or connections between, diverse cultural, social, or political contexts
- PO5 Students will be able to solve problems by gathering, interpreting, combining and/or applying information from multiple sources.

Required Courses

Course Code	Title	Credits
AVF 111	Pre-Flight Ground School	1
AVF 261	Instrument Flight (Stage 6)	4
	PSYC& 100 or SOC& 101	5
	CMST& 220 or AVF 225	5
ENGL& 101	English Composition I	5
MAP 117	Applied Math for Workforce Programs I	1-5
FAD 150	Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens	2
Total Credits		23-27

Flight Instructor (CFI) Certificate of Accomplishment

Degree Type
Certificate

Students who are interested in training in specialized areas of flight will be awarded Certificates of Accomplishment from BBCC.

Program Learning Outcomes:

IO3 Human Relations/Workplace Skills: Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

Required Courses

Course Code	Title	Credits
AVF 225	Effective Communication in Flight Instruction	5
AVF 270	Flight Instructor	4
Total Credits		9

Flight Instructor Instrument (CFII) Certificate of Accomplishment

Degree Type
Certificate

Students who are interested in training in specialized areas of flight will be awarded Certificates of Accomplishment from BBCC.

Program Learning Outcomes:

IO3 Human Relations/Workplace Skills: Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

Required Courses

Course Code	Title	Credits
AVF 271	Flight Instructor Instrument- Airplane	2
Total Credits		2

Instrument Pilot Certificate of Accomplishment

Degree Type
Certificate

Students who are interested in training in specialized areas of flight will be awarded Certificates of Accomplishment from BBCC.

Program Learning Outcomes:

IO3 Human Relations/Workplace Skills: Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

Required Courses

(2 quarters)

Course Code	Title	Credits
AVF 223	Instrument Ground School	5
AVF 261	Instrument Flight (Stage 6)	4
AVF 223	Instrument Ground School	5
AVF 261	Instrument Flight (Stage 6)	4
Total Credits		18

Multi-Engine Certificate of Accomplishment

Degree Type

Certificate

Students who are interested in training in specialized areas of flight will be awarded Certificates of Accomplishment from BBCC.

Program Learning Outcomes:

IO3 Human Relations/Workplace Skills: Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

Required Courses

Course Code	Title	Credits
AVF 275	Multi-Engine Flight	2
Total Credits		2

Multi-Engine Instructor (MEI) Certificate of Accomplishment

Degree Type

Certificate

Students who are interested in training in specialized areas of flight will be awarded Certificates of Accomplishment from BBCC.

Program Learning Outcomes:

IO3 Human Relations/Workplace Skills: Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

Required Courses

Course Code	Title	Credits
AVF 291	Multi-Engine Instructor	2
Total Credits		2

Private Pilot Certificate of Accomplishment

Degree Type

Certificate

Students who are interested in training in specialized areas of flight will be awarded Certificates of Accomplishment from BBCC .

Program Learning Outcomes:

IO3 Human Relations/Workplace Skills: Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

Required Courses

Course Code	Title	Credits
AVF 112	Private Pilot Ground School	5
AVF 113	Meteorology	5
AVF 142	Private Pilot Flight (Stage 2)	4
AVF 143	Private Pilot Flight (Stage 3)	4
Total Credits		18

Sea Plane Certificate of Accomplishment

Degree Type

Certificate

Students who are interested in training in specialized areas of flight will be awarded Certificates of Accomplishment from BBCC

Program Learning Outcomes:

IO3 Human Relations/Workplace Skills: Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

Required Courses

Course Code	Title	Credits
AVF 272	Seaplane Flight	2
Total Credits		2

Simulator Training Certificate of Accomplishment

Degree Type

Certificate

Students who are interested in training in specialized areas of flight will be awarded Certificates of Accomplishment from BBCC.

Program Learning Outcomes:

IO3 Human Relations/Workplace Skills: Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

Required Courses

Course Code	Title	Credits
AVF 276	Simulator Training/ Instrument Training	1-1
Total Credits		0.5-1

Aviation (Commercial Pilot/Flight) Course Descriptions

AVF 111 : Pre-Flight Ground School

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.

Credits 1

Lecture Hours 11

Prerequisites

Accepted flight student status.

Quarters Offered

Fall

AVF 112 : Private Pilot Ground School

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.

Credits 5

Lecture Hours 55

Prerequisites

[AVF 111](#) or Chief Pilot approval.

Quarters Offered

Fall

AVF 113 : Meteorology

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.

Distribution

Natural Science

Credits 5

Lecture Hours 55

Prerequisites

[AVF 112](#) or Chief Pilot approval.

Quarters Offered

Winter

AVF 114 : Theory of Flight

This course covers basic aerodynamic theory of flight, aircraft instruments, performance, stability, control, airframe stress, structural limits, constant speed propellers, and turbo charging.

Credits 5

Lecture Hours 55

Prerequisites

AVF 112: Private Pilot Ground School

Quarters Offered

Spring

AVF 117 : Aviation Emergency Preparedness & Response

Aviation Emergency Preparedness and Response is intended for Private and Commercial pilots; introduces emergency preparedness, survival, and rescue procedures common to general aviation.

Credits 1

Lecture Hours 11

Quarters Offered

Winter

AVF 141 : Private Pilot Flight (Stage 1)

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.

Credits 4

Lecture Hours 44

Quarters Offered

Fall

AVF 142 : Private Pilot Flight (Stage 2)

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.

Credits 4

Lecture Hours 44

Prerequisites

AVF 141: Private Pilot Flight (Stage 1)

Quarters Offered

Winter

AVF 143 : Private Pilot Flight (Stage 3)

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.

Credits 4

Lecture Hours 44

Prerequisites

AVF 142: Private Pilot Flight (Stage 2)

Quarters Offered

Spring

AVF 190 : Flight (Alternate)

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.

Credits 1

-4

Prerequisites

AVF 141: Private Pilot Flight (Stage 1)

[AVF 141](#).

Quarters Offered

Fall, Winter, Spring, Summer

AVF 213 : Advanced Meteorology

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.

Distribution

Natural Science

Credits 5

Lecture Hours 55

Prerequisites

[AVF 113](#) or Chief Pilot approval

AVF 221 : Commercial Pilot Ground School

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.

Credits 5

Lecture Hours 55

Prerequisites

[AVF 113](#) & 114

Quarters Offered

Winter

AVF 223 : Instrument Ground School

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.

Credits 5

Lecture Hours 55

Prerequisites

[AVF 113](#) and 114.

Quarters Offered

Fall

AVF 225 : Effective Communication in Flight Instruction

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.

Credits 5

Lecture Hours 55

Prerequisites

[AVF 221](#), 223 & 252, or Chief pilot approval.

Quarters Offered

Spring

AVF 227 : Aircraft Systems for Pilots

Introduces the systems of complex aircraft: fuel, hydraulic, brake, control, ignition, and electrical systems; covers nomenclature, preventive maintenance, engines, propellers, and related publications.

Credits 5

Lecture Hours 55

AVF 251 : Commercial Pilot Flight (Stage 4)

Scheduled flight time, ground critique, discussion and observation time, dual, solo, cross-country, and instrument, and complex aircraft time. Includes simulator time.

Credits 4

Lecture Hours 44

Prerequisites

[AVF 143](#).

Quarters Offered

Fall

AVF 252 : Commercial Pilot Flight (Stage 5)

Scheduled flight time, ground critique, discussion and observation time; dual, solo, cross-country, instrument, and complex aircraft time. Includes simulator time.

Credits 4

Lecture Hours 44

Prerequisites

[AVF 251.](#)

Quarters Offered

Winter

AVF 253 : Commercial Pilot Flight (Stage 7)

Scheduled flight time, ground critique, discussion and observation time; dual, solo, and cross-country time. Includes 28 hours simulator time upon program completion.

Credits 4

Lecture Hours 44

Prerequisites

[AVF 261.](#)

Quarters Offered

Spring

AVF 254 : Night Flying

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.

Credits 1

Lab Hours 60

Prerequisites

[AVF 142.](#)

Quarters Offered

Fall, Winter, Spring

AVF 261 : Instrument Flight (Stage 6)

Provides training in instrument flight procedures in preparation for the airplane instrument rating; includes simulator training.

Credits 4

Lecture Hours 44

Prerequisites

[AVF 252.](#)

Quarters Offered

Spring

AVF 270 : Flight Instructor

Preparation for the Certified Flight Instructor rating; includes flight time and critique.

Credits 4

Lecture Hours 44

Prerequisites

Commercial license and instrument rating and Chief Pilot approval.

Quarters Offered

Summer

AVF 271 : Flight Instructor Instrument-Airplane

Provides the Flight Instructor applicant with the knowledge, skill and experience necessary to become an Instrument Instructor; includes flight time and critique.

Credits 2

Lecture Hours 22

Prerequisites

Commercial/instrument license, CFI single engine license and 10 hours as CFI with FII written passed and Chief Pilot approval.

Quarters Offered

Fall, Winter, Spring, Summer

AVF 272 : Seaplane Flight

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.

Credits 2

Lecture Hours 22

Prerequisites

Commercial Pilot Certificate or Chief Pilot approval.

Quarters Offered

Fall, Spring, Summer

AVF 275 : Multi-Engine Flight

Preparation for the FAA Multi-Engine rating.

Credits 2

Lecture Hours 22

Prerequisites

Commercial Pilot Certificate and Chief Pilot approval.

Quarters Offered

Fall, Winter, Spring, Summer

AVF 276 : Simulator Training/Instrument Training

Designed to fit the individual and particular needs of each pilot in instrument training, refresher or FAA currency requirements.

Credits 1

-1

Lecture Hours 5

-11

Prerequisites

Instructor approval.

Quarters Offered

Fall, Winter, Spring, Summer

AVF 290 : Flight (Alternate)

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.

Credits 1

-4

Prerequisites

AVF 141: Private Pilot Flight (Stage 1)

[AVF 141](#).

Quarters Offered

Fall, Winter, Spring, Summer

AVF 291 : Multi-Engine Instructor

Preparation for the FAA Multi-Engine Flight Instructor rating.

Credits 2

Lecture Hours 22

Prerequisites

Commercial Airplane with instrument rating, multi-engine land ratings, flight instructor single engine.

Quarters Offered

Fall, Winter, Spring, Summer

AVF 292 : A.T.P.: Multi-Engine

Prepares the student for FAA A.T.P. flight check.

Credits 1

Lecture Hours 11

Prerequisites

Commercial/Instrument. M.E., 1500 hours, ATP knowledge test passed.

Quarters Offered

Fall, Winter, Spring, Summer

AVF 295 : Work-Based Learning

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.

Credits 1

-6

Clinical Hours 33

-198

Prerequisites

[AVF 297](#), Work-Based Learning Seminar. Aviation program permission and any requirements of the contractual agreement, between BBCC and the employer.

Quarters Offered

Fall, Winter, Spring, Summer

AVF 297 : Work-Based Learning Seminar

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.

Credits 1

Lecture Hours 11

Prerequisites

[AVF 295](#) (Work-Based Learning)

Quarters Offered

Fall, Winter, Spring, Summer

Aviation Maintenance Technology

email: amt@bigbend.edu

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.

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

Note: All aviation maintenance 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.

Aviation Maintenance Technology AAS

Degree Type

Associate in Applied Science

Program and Degree Learning Outcomes:

- IO1 Communication
Students will be able to identify and explain a variety of airframe and/or powerplant systems and components as evaluated by the completion of the FAA written, oral and practical exams.
- IO2 Quantitative Reasoning
Students will be able to reason mathematically using methods appropriate to the profession.
- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, ethics, and appropriate safety awareness and/or workplace specific skills through instructor observation.
- PO4 Students will be able to asses a variety of airframe and/or powerplant systems and components and be able to troubleshoot various systems components as evaluated by the completion of the FAA written, oral and practical exams.
- PO5 Students will show knowledge of Federal Aviation rules and regulations components as evaluated by the completion of the FAA written and oral & practical exams.

Required Courses

Course Code	Title	Credits
AMT 148	AMT General Electricity/ Physics'	7
AMT 149	AMT Airframe Electricity	3
AMT 150	AMT General	4-16
AMT 151	Airframe Mechanic I	4-22
AMT 152	Airframe Mechanic II	4-21
AMT 249	AMT Motors, Generators, and 2 Alternators	
AMT 251	Powerplant Mechanics I	4-16
AMT 252	Powerplant Mechanics II	4-14
AMT 253	Powerplant Mechanics III	4-16
	ENGL 109 or ENGL& 101	3
FAD 150	Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens	2
MAP 100	Applied Mathematics (AMT) 2 Approved by FAA.	
	PSYC& 100 or SOC& 101	5
Note: All AMT courses are approved by FAA		
Total Credits		126

Airframe Maintenance Technician Certificate of Achievement

Degree Type

Certificate

The Certificate of Achievement is designed to provide recognition for the student who does not plan to complete an AAS degree program.

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.

Program and Certificate Learning Outcomes:

- IO1 Communication
Students will be able to communicate clearly and effectively.

- IO2 Quantitative Reasoning
Students will be able to reason mathematically.
- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.
- PO4 Students will be able to solve problems by gathering, interpreting, combining and/or applying information from multiple sources.
- PO5 Students will be able to recognize or articulate personal/interpersonal aspects of, or connections between, diverse cultural, social, or political contexts.

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

Required Courses

Course Code	Title	Credits
AMT 149	AMT Airframe Electricity	3
AMT 151	Airframe Mechanic I	4-22
AMT 152	Airframe Mechanic II	4-21
	PSYC& 100 or SOC& 101	5
	CMST& 220 or CMST& 210	5
	ENGL 109 or ENGL& 101	3
FAD 150	Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens	2
MAP 100	Applied Mathematics (AMT) 2 Approved by FAA.	2
*Approved by FAA		
Total Credits		61

Airframe Mechanic I Certificate of Accomplishment

Degree Type
Certificate

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.

Program and Certificate Learning Outcomes:

- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

Required Courses

Course Code	Title	Credits
AMT 149	AMT Airframe Electricity	3
AMT 151	Airframe Mechanic I	4-22
Total Credits		25

Airframe Mechanic II Certificate of Accomplishment

Degree Type
Certificate

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.

Program and Certificate Learning Outcomes:

- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

Required Courses

Course Code	Title	Credits
AMT 152	Airframe Mechanic II	4-21
Total Credits		21

Aviation Maintenance – General Certificate of Accomplishment

Degree Type

Certificate

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.

Program and Certificate Learning Outcomes:

- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

Required Courses

Course Code	Title	Credits
AMT 148	AMT General Electricity/Physics'	7
AMT 150	AMT General	4-16
MAP 100	Applied Mathematics (AMT) Approved by FAA.	2
Total Credits		25

Composite Technician Certificate of Accomplishment

Degree Type

Certificate

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.

Program and Certificate Learning Outcomes:

- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

*Required Courses

*total credits will be completed in 2 quarters

Course Code	Title	Credits
AMT 150	AMT General	4-16
MAP 100	Applied Mathematics (AMT) Approved by FAA.	2

Powerplant Maintenance Technician Certificate of Achievement

Degree Type

Certificate

The Certificate of Achievement is designed to provide recognition for the student who does not plan to complete an AAS degree program.

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.

Program and Certificate Learning Outcomes:

- IO1 Communication
Students will be able to communicate clearly and effectively.
- IO2 Quantitative Reasoning
Students will be able to reason mathematically.
- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.
- PO4 Students will be able to solve problems by gathering, interpreting, combining and/or applying information from multiple sources.
- PO5 Students will be able to recognize or articulate personal/interpersonal aspects of, or connections between, diverse cultural, social, or political contexts.

Required Courses

Course Code	Title	Credits
AMT 249	AMT Motors, Generators, and 2 Alternators	
AMT 251	Powerplant Mechanics I	4-16
AMT 252	Powerplant Mechanics II	4-14
AMT 253	Powerplant Mechanics III	4-16
	PSYC& 100 or SOC& 101	5
	CMST& 220 or CMST& 210	5
	ENGL 109 or ENGL& 101	3
FAD 150	Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens	2
MAP 100	Applied Mathematics (AMT) 2 Approved by FAA.	
*Approved by FAA		
Total Credits		63

Powerplant Mechanic I Certificate of Accomplishment

Degree Type

Certificate

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.

BBCB 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.

Program and Certificate Learning Outcomes:

- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

Required Courses

Course Code	Title	Credits
AMT 251	Powerplant Mechanics I	4-16
Total Credits		16

Powerplant Mechanic II Certificate of Accomplishment

Degree Type

Certificate

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.

BBCB 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.

Program and Certificate Learning Outcomes:

- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

Required Courses

Course Code	Title	Credits
AMT 249	AMT Motors, Generators, and 2 Alternators	
AMT 252	Powerplant Mechanics II	4-14
Total Credits		16

Powerplant Mechanic III Certificate of Accomplishment

Degree Type

Certificate

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.

BBCB 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.

Program and Certificate Learning Outcomes:

- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

Required Courses

Course Code	Title	Credits
AMT 253	Powerplant Mechanics III	4-16
Total Credits		16

Aviation Maintenance Technology Course Descriptions

AMT 148 : AMT General Electricity/Physics'

This course covers the theory of basic electricity and applied Physics. This course is FAA approved under 14 CFR Part 147.

Credits 7

Lecture Hours 44

Lab Hours 66

Quarters Offered

Fall, Winter

AMT 149 : AMT Airframe Electricity

Student will perform operation of AC and DC electrical systems used on large and small aircraft, generating and starting systems, AC and DC electric motors, wiring, controls, switches, indicators, and protective devices, and constant speed and integrated drive generators

Credits 3

Lecture Hours 33

Prerequisites

Instructor approval.

Quarters Offered

Fall, Winter, Spring

AMT 150 : AMT General

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.

Credits 4

-16

Lecture Hours 22

-90

Lab Hours 44

-182

Quarters Offered

Fall, Winter

AMT 151 : Airframe Mechanic I

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.

Credits 4

-22

Lecture Hours 77

-352

Lab Hours 33

-132

Prerequisites

Instructor approval.

Quarters Offered

Fall, Winter, Spring, Summer

AMT 152 : Airframe Mechanic II

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.

Credits 4

-21

Lecture Hours 2

-119

Lab Hours 44

-264

Prerequisites

Instructor approval.

Quarters Offered

Fall, Winter, Spring, Summer

AMT 153 : Airframe Mechanic III

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.

Credits 4

-24

Lecture Hours 22

-132

Lab Hours 44

-264

Prerequisites

[AMT 150](#),151,152, [MAP 100](#) and instructor approval.

Quarters Offered

Fall, Winter, Spring, Summer

AMT 154 : Introduction to AMT General I

This course will cover the use of aviation maintenance forms and publications in the aviation industry, Privileges and Limitations, Human Factors, and the use, care, and function of various hand tools and measuring devices. The projects for the class include the use of various tools to ensure proper use and safety. This course is approved under FAA Part 147.

Credits 5**Lecture Hours 33****Lab Hours 44****Quarters Offered**

Fall, Winter, Spring

AMT 155 : Introduction to AMT General II

This course will cover aviation application of aircraft drawing, identification and application of aircraft structure materials, Hardware and processes, and the use of Non-destructive testing methods in the aviation industry. This course is approved under FAA Part 147.

Credits 5**Lecture Hours 33****Lab Hours 44****Quarters Offered**

Fall, Winter, Spring

AMT 156 : Introduction to AMT General III

This course will cover aviation applied physics, function of weight and balance control, corrosion control and cleaning of aircraft, operation of aircraft for ground handling, and Fluid lines and fittings.

Credits 5**Lecture Hours 33****Lab Hours 44****Quarters Offered**

Fall, Winter, Spring

AMT 201 : Aircraft Flight Controls and Metallic Structures

This course is designed to provide the students with an understanding of metallic aircraft structures, flight control surfaces, and flight control systems. This course is also designed to provide the students with an understanding of the inspection, repair, and maintenance practices of those structures, surfaces, and systems.

Credits 10**Lecture Hours 44****Lab Hours 132****Prerequisites**

AMT 154: Introduction to AMT General I

Prior to enrolling in any Airframe courses, students must be complete with (or on track to complete) the General curriculum of Big Bend Community College Aviation Maintenance Technology, or otherwise complete with the requirements necessary to take the FAA written, oral, and practical exams for General as verified by the instructors of BBCC AMT.

Quarters Offered

Fall, Winter, Spring, Summer

AMT 202 : Non-Metallic Structures and Rotorcraft

This course is designed to provide the students with an understanding of non-metallic aircraft structures, such as wood, fabrics, fiberglass, carbon fiber, and other composite materials, along with various types of plastics found on aircraft such as windshields and windows. This course is also designed to introduce students to the basics aircraft finishing and of rotorcraft design, theory, and maintenance.

Credits 10**Lecture Hours 44****Lab Hours 132****Prerequisites**

AMT 154: Introduction to AMT General I

Prior to enrolling in any Airframe courses, students must be complete with (or on track to complete) the General curriculum of Big Bend Community College Aviation Maintenance Technology, or otherwise complete with the

requirements necessary to take the FAA written, oral, and practical exams for General as verified by the instructors of BBCC AMT.

Quarters Offered

Fall, Winter, Spring, Summer

AMT 203 : Aircraft Electrical Systems

This course is designed to provide the students with an understanding of the design, inspection, maintenance, and alteration of aircraft electrical power generating and storage systems.

Credits 5

Lecture Hours 22

Lab Hours 66

Prerequisites

AMT 154: Introduction to AMT General I

Prior to enrolling in any Airframe courses, students must be complete with (or on track to complete) the General curriculum of Big Bend Community College Aviation Maintenance Technology, or otherwise complete with the requirements necessary to take the FAA written, oral, and practical exams for General as verified by the instructors of BBCC AMT

Quarters Offered

Fall, Winter, Spring, Summer

AMT 204 : Aircraft Instrumentation and Avionics Systems

This course is designed to provide the students with an understanding of the design, inspection, maintenance, and alteration of aircraft instrumentation and avionics systems

Credits 6

Lecture Hours 33

Lab Hours 66

Prerequisites

AMT 154: Introduction to AMT General I

Prior to enrolling in any Airframe courses, students must be complete with (or on track to complete) the General curriculum of Big Bend Community College Aviation Maintenance Technology, or otherwise complete with the requirements necessary to take the FAA written, oral, and practical exams for General as verified by the instructors of BBCC AMT.

Quarters Offered

Fall, Winter, Spring, Summer

AMT 205 : Aircraft Hydraulic/Pneumatic and Landing Gear Systems

This course is designed to provide the students with an understanding of aircraft hydraulic system design, components, and maintenance. This course is also designed to provide students with an understanding of aircraft landing gear systems, including fixed vs. retractable designs, position indicating systems, wheels/tires, and brake systems.

Credits 8

Lecture Hours 33

Lab Hours 110

Prerequisites

AMT 154: Introduction to AMT General I

Prior to enrolling in any Airframe courses, students must be complete with (or on track to complete) the General curriculum of Big Bend Community College Aviation Maintenance Technology, or otherwise complete with the requirements necessary to take the FAA written, oral, and practical exams for General as verified by the instructors of BBCC AMT.

Quarters Offered

Fall, Winter, Spring, Summer

AMT 206 : Aircraft Fuel Systems

This course is designed to provide the students with an understanding of the various parts of aircraft fuel systems, to include fuel storage, fuel feed, and fuel quantity indicating systems.

Credits 2

Lecture Hours 11

Lab Hours 22

Prerequisites

AMT 154: Introduction to AMT General I

Prior to enrolling in any Airframe courses, students must be complete with (or on track to complete) the General curriculum of Big Bend Community College Aviation Maintenance Technology, or otherwise complete with the requirements necessary to take the FAA written, oral, and practical exams for General as verified by the instructors of BBCC AMT.

Quarters Offered

Fall, Winter, Spring, Summer

AMT 207 : Aircraft Ice/Rain Control and Cabin Environmental Control Systems

This course is designed to provide the students with an understanding of aircraft ice and rain control systems and the maintenance requirements and practices of those systems. This course is also designed to provide students with an understanding of the design and maintenance of aircraft cabin environmental control systems.

Credits 4

Lecture Hours 22

Lab Hours 44

Prerequisites

AMT 154: Introduction to AMT General I
Prior to enrolling in any Airframe courses, students must be complete with (or on track to complete) the General curriculum of Big Bend Community College Aviation Maintenance Technology, or otherwise complete with the requirements necessary to take the FAA written, oral, and practical exams for General as verified by the instructors of BBCC AMT.

Quarters Offered

Fall, Winter, Spring, Summer

AMT 208 : Aircraft Water/Waste Systems and Airframe Inspections

This course is designed to provide the students with an understanding of aircraft water and waste systems. This course is also designed to provide the students with an understanding of the principles of various airframe inspections.

Credits 5

Lecture Hours 22

Lab Hours 66

Prerequisites

AMT 154: Introduction to AMT General I
Prior to enrolling in any Airframe courses, students must be complete with (or on track to complete) the General curriculum of Big Bend Community College Aviation Maintenance Technology, or otherwise complete with the requirements necessary to take the FAA written, oral, and practical exams for General as verified by the instructors of BBCC AMT.

Quarters Offered

Fall, Winter, Spring, Summer

AMT 211 : Reciprocating Engines 1

This course introduces students to reciprocating (piston) aircraft engines. During this class they will learn about the history of the internal combustion reciprocating engine, theory, nomenclature, and how it applies to the aviation field. Once the students are familiar with the basics of the reciprocating engine they will proceed to the lab to disassemble an engine.

NOTE: General portion of the ACS completed or FAA Form 8610-2 has been signed

Credits 4

Lecture Hours 22

Lab Hours 44

Prerequisites

AMT 154: Introduction to AMT General I

Quarters Offered

Fall, Winter, Spring

AMT 212 : Reciprocating Engines 2

This course continues the instruction of reciprocating (piston) aircraft engines. Lecture will include reciprocating engine lubrication and types of lubricating oils, while LAB will consist of continuation of their assigned engine from AMT 211- inspect, reassemble, install it onto a runstand, and configuring the engine monitoring systems.

Credits 7

Lecture Hours 11

Lab Hours 132

Prerequisites

AMT 154: Introduction to AMT General I

Quarters Offered

Fall, Winter, Spring

AMT 213 : Reciprocating Engine Induction, Cooling, and Exhaust

This course explains reciprocating (piston) aircraft engine Induction, Exhaust, and Cooling systems. During this class they will learn about different types of each system including how they function, inspected, and maintained.

Credits 3

Lecture Hours 11

Lab Hours 44

Prerequisites

AMT 154: Introduction to AMT General I

Quarters Offered

Fall, Winter, Spring

AMT 214 : Reciprocating Engine Fuel Systems

This course contains reciprocating (piston) aircraft engine fuel systems. During this class they will learn about the different ways a reciprocating engine meters fuel and air mixtures and why it is important. Lecture will include theories of operation for carburetors, pressure carbs, and fuel injection systems. Lab will include full carburetor overhauls with functional checks and fuel injection system inspections, maintenance, and operation.

Credits 4

Lecture Hours 11

Lab Hours 66

Prerequisites

AMT 154: Introduction to AMT General I

Quarters Offered

Fall, Winter, Spring

AMT 215 : Reciprocating Engine Ignition Systems

This course contains reciprocating (piston) aircraft engine ignition systems. During this class they will learn about how timed internal combustion is obtained. Lecture will include theory, operation, and maintenance of magnetos and modern electronic ignition systems. Building on previous courses this will also include overall reciprocating engine troubleshooting. LAB will require students to perform magneto maintenance and install on an engine. They will continue to operate the engine to troubleshoot and repair any discrepancies encountered.

Credits 4

Lecture Hours 11

Lab Hours 66

Prerequisites

AMT 154: Introduction to AMT General I

Quarters Offered

Fall, Winter, Spring

AMT 216 : Aircraft Propellers

This course introduces aircraft propellers. During this class they will learn about the history of the propeller and how it was improved over time including additional components. LAB will include inspection, maintenance, and repairs of various propeller types.

Credits 4

Lecture Hours 22

Lab Hours 44

Prerequisites

AMT 154: Introduction to AMT General I

Quarters Offered

Fall, Winter, Spring

AMT 217 : Turbine Engines

This course introduces students to Gas-Turbine aircraft engines. During this class they will learn about the history of the gas-turbine engine, theory, nomenclature, and how it applies to the aviation field. Once the students are familiar with the basics of the gas-turbine engine they will learn about the modern variations and applications of the turbine engine. LAB will include identifying various turbine engine components and explaining the functions of each

Credits 4

Lecture Hours 22

Lab Hours 44

Prerequisites

AMT 154: Introduction to AMT General I

Quarters Offered

Fall, Winter, Spring

AMT 218 : Turbine Engine Airflow

This course explains how a turbine engine can direct airflow internally and externally. During this class students will learn about bleed air and ways it can operate other systems on the aircraft including APU engines. This course also discusses internal airflow used for engine cooling and oil seals. Lab will consist of turbine ice and rain protection, thrust reversers, and a hot section inspection.

Credits 2

Lecture Hours 11

Lab Hours 22

Prerequisites

AMT 154: Introduction to AMT General I

Quarters Offered

Fall, Winter, Spring

AMT 219 : Turbine Fuel Metering

This course explains how to regulate a turbine engine fuel system. During this course students will learn different types of fuel metering systems from hydromechanical, hydropneumatic, and electronic computing systems. LAB will include the removal, inspection, installation, and rigging / trimming of a fuel control unit. Students will also perform maintenance on other turbine specific related fuel system components.

Credits 2

Lecture Hours 11

Lab Hours 22

Prerequisites

AMT 154: Introduction to AMT General I

Quarters Offered

Fall, Winter, Spring

AMT 220 : Turbine Ignition, Starting, and Lubrication Systems

This course explains the operation of the turbine engine ignition and starting systems that allow an engine to obtain self-sufficient combustion. Students will learn how the ignition system functions and understand the dangers involved. They will also learn about different types of starting systems including electric and pneumatic. Turbine engine lubrication systems and oil types will also be discussed. Lab will consist of removing, inspecting, and installing a turbine engine starter along with a turbine engine 100 hour inspection.

Credits 4

Lecture Hours 11

Lab Hours 66

Prerequisites

AMT 154: Introduction to AMT General I

Quarters Offered

Fall, Winter, Spring

AMT 249 : AMT Motors, Generators, and Alternators

This course contains FAA curriculum Knowledge and Risk Assessment requirements from the Mechanics ACS for both Airframe (AM.II) and Powerplant (AM.III) Certificate of Completion. Students will develop an understanding of the operation of generators, alternators, DC motors, and AC motors, and their repair and overhaul.

Credits 2

Lecture Hours 22

Prerequisites

Instructor approval.

Quarters Offered

Fall, Winter, Spring

AMT 250 : AMT Fire Systems

This course contains all the FAA Fire Protection ACS elements required for both Airframe (AM.II.M) and Powerplant (AM.III.E) certification.

Credits 2

Lecture Hours 11

Lab Hours 22

Prerequisites

AMT 154: Introduction to AMT General I

Quarters Offered

Spring

AMT 251 : Powerplant Mechanics I

Credits 4

-16

Lecture Hours 22

-88

Lab Hours 44

-176

AMT 252 : Powerplant Mechanics II

Credits 4

-14

Lecture Hours 22

-66

Lab Hours 44

-176

AMT 253 : Powerplant Mechanics III

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 class

room 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.

Credits 4

-16

Lecture Hours 22

-88

Lab Hours 44

-176

Prerequisites

Instructor approval.

Quarters Offered

Fall, Winter, Spring, Summer

AMT 254 : Powerplant Mechanic IV

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.

Credits 4

-16

Lecture Hours 22

-88

Lab Hours 44

-176

Prerequisites

AAMT 251, 252, 253 and Instructor approval.

Quarters Offered

Fall, Winter, Spring, Summer

Avionics

Avionics Course Descriptions

AVIO& 102 : Aircraft Electronic Fundamentals

Fundamentals, troubleshooting, and experiments with fundamental aircraft electronics; diodes; power supplies; rectifiers; voltage regulators; transistors; amplifiers; oscillators and multivibrator circuits; latches and flip-flops; transmitters; synchro systems; gyroscopes.

Credits 8

Lecture Hours 55

Lab Hours 66

Prerequisites

[AMT 149](#)

AVIO& 103 : Aircraft Wiring Systems

Fundamentals, troubleshooting, and repair of aircraft wiring, including acceptable standards for visual, electrical, and mechanical quality.

Credits 2

Lecture Hours 11

Lab Hours 22

Prerequisites

[AMT 149](#)

Bachelor of Applied Science – Applied Management

email: bas@bigbend.edu

The Bachelor of Applied Science in Applied Management (BAS-AM) degree builds upon any associate degree (2-year) by adding junior and senior-year courses focused on applied management. The program provides customized, high-demand management courses geared toward the needs of various industry sectors in the local economy. Students will gain the knowledge and skills necessary to enter and advance in management or supervisory positions or start their own business. Potential positions include management, accounting, project management, or entrepreneurial. Obtaining advanced academic degrees may lead to administrative positions in business administration, education, and management. The demand for managers should remain strong over the next decade.

Students must apply, and be admitted, to participate in the BAS-AM program. Please visit the BAS-AM website to learn more about the program's: entry requirements, online application and instructions, costs, and additional information at <https://www.bigbend.edu/academics/bas-in-applied-management/>.

BAS-AM students must earn

- 180 college-level credits: 90 credits from previous coursework + 90 credits earned in BAS-AM program***
- a cumulative grade point average (GPA) of 2.0 or above
- a minimum 2.0 GPA in all BAS-AM program core and upper-division courses
- a minimum 1.0 GPA in all other college-level courses applied in the BAS-AM degree
- No more than 3 PEH AC credits may be used in the degree.

Applied Management BAS

Degree Type

Bachelor in Applied Science

Program and Degree Learning Outcomes:

- IO1 Communication
Communicate effectively with internal and external stakeholders using an appropriate channel for the situation.
- IO2 Computation
Analyze the health of an organization by interpreting business data.
- IO3 Human Relations/Workplace Skills

Demonstrate effective leadership, critical thinking, teamwork, and technical/information literacy competencies needed to make business-critical decisions to resolve interpersonal and organizational challenges that most often occur in the modern workplace

- PO 4 Students will apply and analyze strategies to facilitate equitable inclusion of diverse individuals and perspectives to achieve organizational goals through ethical behavior and socially responsible decision-making.

The following schedule of courses is the recommended junior and senior year program for completing the BAS-AM degree (90 credits).

Required Program Courses

Course Code	Title	Credits
BUS& 101	Intro to Business	5
CHEM& 110	Chemical Concepts w/Lab	5
CMST 330	Organizational Communication	5
ECON& 201	Micro Economics	5
ENGL& 235	Technical Writing	5
ENVS& 100	Survey of Env Science	5
PHIL& 120	Symbolic Logic	5
PHIL 340	Professional Ethics	5
SOC 320	Organizational Behavior	5
MGMT 305	Business Management	5
MGMT 310	Accounting for Managers	5
MGMT 350	Marketing for Managers	5
MGMT 370	Organizational Leadership	5
MGMT 380	Human Resource Management	5
MGMT 410	Financial Management	5
MGMT 430	Project Mangement	5
MGMT 440	Operations Management	5
MGMT 460	Applied Management Capstone	5
	Diversity (DIV) Course	5
	Approved General Elective (if needed**)	1-5
	Total Credits	90-100

Bachelor of Applied Science – Applied Management Course Descriptions

MGMT 305 : Business Management

This course explores organizational theory that introduces the principles and concepts of effective management. It includes organizational structure and control systems, managing organizational technology and innovation, information processing and decision making, and applications in today's management and

leadership. Students will learn the management functions of planning, organizing, leading, and controlling.

Credits 5

Lecture Hours 55

Lab Hours 0

Prerequisites

[BUS&101](#) or [BUS&201](#) Bachelor of Applied Science – Applied Management program admission.

MGMT 310 : Accounting for Managers

This course covers the basic principles of financial and managerial accounting, including analyzing balance sheets, income statements, cash flow statements, financial analysis, and budgetary control systems. This course reviews accounting practices and how they are used to help managers make sound business decisions.

Credits 5

Lecture Hours 55

Lab Hours 0

Prerequisites

Bachelor of Applied Science – Applied Management program admission.

MGMT 350 : Marketing for Managers

The course is an introduction to marketing with an emphasis on developing marketing strategies to communicate and create value for the organization. The course focuses on the development of marketing techniques, management of the marketing mix, and digital and social media marketing.

Credits 5

Lecture Hours 55

Lab Hours 0

Prerequisites

Acceptance into the Bachelor of Applied Science in Applied Management program.

MGMT 370 : Organizational Leadership

This course reviews the role of leadership in an organization. Students will explore leadership theories and strategies to enhance collaboration, manage conflict, and lead with integrity and respect in order to meet organizational goals.

Students will complete self-assessments to identify and analyze their leadership style for application in the workplace.

Credits 5

Lecture Hours 55

Lab Hours 0

Prerequisites

MGMT 305. Acceptance into the Bachelor of Applied Science in Applied Management program.

MGMT 380 : Human Resource Management

This course examines the major trends in human resources development and management. Students will examine the role of the human resource department as well as the development of a skilled and diverse workforce by applying effective strategies for recruiting, selecting, and retaining personnel. Using interactive exercises, case studies and group discussions, you will explore the intersection between the legal, ethical and practical implications of managing human resources within the dynamic shifts occurring in our economic realities, demographics, community expectations and social change.

Credits 5

Lecture Hours 55

Lab Hours 0

Prerequisites

Acceptance into the Bachelor of Applied Science in Applied Management program

MGMT 410 : Financial Management

This course covers financial management principles with a focus on the concepts associated with allocation of resources. Students will learn how to meet financial objectives and make decisions through topics such as analysis of financial statements, forecasting, cash and capital budgeting, risk and return, capital structure, value of money, and financing. Case studies are used to examine financial management problems and solutions.

Credits 5

Lecture Hours 55

Lab Hours 0

Prerequisites

Acceptance into the Bachelor of Applied Science in Applied Management program.

MGMT 430 : Project Management

This course examines the role of project management and introduces students to project management frameworks and processes. Student will learn to apply knowledge and skills for effective project management in order to plan, execute, and complete projects that achieve organizational goals.

Credits 5

Lecture Hours 55

Lab Hours 0

Prerequisites

Acceptance into the Bachelor of Applied Science in Applied Management program.

MGMT 440 : Operations Management

This course examines the concepts for designing, planning, and improving service through application of operations management. Students will learn to evaluate the operational decision-making management techniques used to improve processes and productivity in organizations. Topics include quality control, forecasting, workflow processes and lean manufacturing, and inventory management.

Credits 5

Lecture Hours 55

Lab Hours 0

Prerequisites

Acceptance into the Bachelor of Applied Science in Applied Management program.

MGMT 460 : Applied Management Capstone

The Applied Management Capstone course is the culminating project of the BAS-AM program. Students demonstrate comprehensive learning and proficiency of BAS-AM core content through the practical application of business principles in their research and analysis of a current, real-world business issue and the development of a recommendation.

Credits 5

Lecture Hours 55

Prerequisite or Corequisite

[MGMT 440](#)

Prerequisites

Admissions into the Bachelor of Applied Science in Applied Management (BAS-AM) program. .

Bachelor of Applied Science – Behavioral Health

email: bas@bigbend.edu

The Bachelor of Applied Science in Behavioral Health (BAS-BH) degree builds upon any associate degree (2-year) degree by adding junior and senior year courses focused on behavioral health. Graduates could expect to serve a variety of populations including young adults, older adults, people experiencing homelessness, people in recovery from addictions, victims of emotional, physical and sexual abuse, victims of domestic violence, veterans, and tribal members. Students graduating from associate degree programs in criminal justice, early childhood education, and medical assistance studies are encouraged to apply.

Students must apply, and be admitted, to participate in the BAS-BH program. Please visit the BAS-BH website to learn more about the program's: entry requirements, online application and instructions, costs, and additional information at <https://www.bigbend.edu/academics/bas-in-behavioral-health/>.

BAS-BH students must earn

- 180 college-level credits: 90 credits from previous coursework + 90 credits earned in BAS-BH program
- a cumulative grade point average (GPA) of 2.0 or above
- a minimum 2.0 GPA in all BAS-BH program core and upper-division courses

- a minimum 1.0 GPA in all other college-level courses applied in the BAS-BH degree
- No more than 3 PEH AC credits may be used in the degree.

Applied Science – Behavioral Health

Degree Type

Bachelor in Applied Science

Total Credits

90-100

Bachelor of Applied Science – Behavioral Health Course

Descriptions

ADS 100 : Survey of Addictions

This course provides an in-depth exploration of substance use disorders, examining both historical perspectives and contemporary implications of addiction in American society, including considerations under the Americans with Disabilities Act. Students will study the basic pharmacology of alcohol and other drugs while analyzing addiction within broader social, cultural, political, and economic frameworks. The course will emphasize assessment criteria, evidence-based treatment methodologies, and recovery strategies.

Distribution

Specified Elective

Credits 5

Lecture Hours 55

Lab Hours 0

Clinical Hours 0

Quarters Offered

Fall

BH& 320 : Social and Cultural Diversity in Behavioral Health

This course examines how cultural, biological, and social diversity affect behavioral health and healthcare. It presents current theories and practices for working with diverse populations in the behavioral health field and fosters the

understanding and application of cultural diversity, cultural humility, self-awareness, social justice, and advocacy.

Distribution

Social Science

Credits 5

Lecture Hours 55

Prerequisites

Admission to [BAS Behavioral Health program](#).

Quarters Offered

Winter

BH& 330 : Ethics in Behavioral Healthcare

This course provides an overview of ethics, legal standards, and professional responsibilities in behavioral healthcare. Students will explore behavioral health professionals' obligations to clients, colleagues, society and themselves. The course emphasizes ethical standards, ethical decision-making, professional boundaries, confidentiality, and the application of federal and state laws to specific situations and populations in behavioral healthcare.

Credits 5

Lecture Hours 55

Prerequisites

Admission to [BAS Behavioral Health program](#)

Quarters Offered

Winter

BH& 340 : Professional Development

This course prepares students for practicum and employment. Activities include identifying professional goals, identifying relevant positions, self-assessment, application preparation, and preparation for supervision and consultation. Special attention will be given to wellness and self-care to promote health and longevity personally and professionally.

Credits 5

Lecture Hours 55

Prerequisites

Admission to [BAS Behavioral Health program](#)

Quarters Offered

Spring

BH& 350 : Behavioral Neuroscience

This course introduces the structures and [processes](#) of the human brain. Designed for non-science majors, the course emphasizes the relationships among biology, emotions, thoughts, and behavior.

Distribution

Specified Elective

Credits 5

Lecture Hours 55

Lab Hours 0

Prerequisite or Corequisite

Admission to BAS Behavioral Health Program

Quarters Offered

Spring

BH& 400 : Case Management

This course provides an overview of case management within healthcare and human services. Students will develop skills in observation, problem-solving, documentation, and relationship-building through the exploration of the case management process, which includes client engagement and assessment, care planning, resource acquisition, and care coordination.

Credits 5

Lecture Hours 55

Prerequisites

Admission to [Bachelor of Applied Science- Behavioral Health program](#).

Quarters Offered

Spring

BH& 420 : Assessment of Mental Health Disorders

This course introduces the skills necessary to screen clients for service eligibility, complete intake processes, conduct comprehensive assessments, and collaborate with clients to develop effective plans for achieving client-identified goals. Students are prepared to serve as effective helpers, carefully exploring their clients' situation to develop insight before taking action.

Credits 5

Lecture Hours 55

Prerequisites

Admission to the [BAS Behavioral Health program](#)

Quarters Offered

Spring

BH& 450 : Advanced Counseling Techniques

This course provides a comprehensive survey of the major contemporary theories of counseling, as well as their implications for practice. Core topics such as historical background, key concepts, the counseling process, counseling techniques and procedures, multicultural perspectives, and evaluation are examined for each theory. Students are given the opportunity to conceptualize selected case studies, decide on appropriate counseling interventions, and practice a variety of techniques that are commonly used in counseling practice.

Distribution

Specified Elective

Credits 5

Lecture Hours 55

Lab Hours 0

Prerequisites

Admission to BAS Behavioral Health Program

Quarters Offered

Fall

BH& 491 : Practicum I

Through supervised clinical experience, students begin hands-on training in a behavioral health/human service field. Skills focused upon may include intake interviewing, case management, assessment of client/consumer needs, intervention strategies to meet those needs, individual and group counseling, outreach activities, documentation, use of community referral and networking resources, collaboration with colleagues, inter-agency communication, and professional growth. Ninety hours of recorded clinical experience are required each quarter.

Distribution

Specified Elective

Credits 5

Lecture Hours 22

Clinical Hours 99

Prerequisites

Admission to BAS Behavioral Health Program and [BH& 400](#) and 25 credits of completed upper-division program credits or instructor permission

Quarters Offered

Fall

BH 300 : Introduction to Behavioral Healthcare

Students will be introduced to behavioral and social services, including history, philosophy, and current delivery systems to a diverse client population.

Credits 5

Lecture Hours 55

Lab Hours 0

Prerequisites

Admission to [BAS Behavioral Health program](#)

Quarters Offered

Fall

BH 360 : Treatment of Behavioral Health Disorders

This course investigates the variety of ways [we](#) can reduce the impacts of common mental health disorders. Reviewing evidence-based research, students survey the range of effective, promising, and ineffective treatments for common mental health disorders such as psychosis, bipolar disorder, depression, anxiety, personality disorders, and PTSD. Topics include biological, psychological, and social treatments, including professional services and self-help options.

Distribution

Specified Elective

Credits 5

Lecture Hours 55

Prerequisites

Admission to BAS Behavioral Health Program

Quarters Offered

Fall

BH 410 : Group Counseling

Students will learn to enhance the effectiveness of groups by examining a variety of roles,

models, and norms of group work. Students will develop therapeutic group leadership skills through facilitation of simulated group sessions.

Distribution

Specified Elective

Credits 5

Lecture Hours 55

Lab Hours 0

Prerequisites

Admission to BAS Behavioral Health Program

Quarters Offered

Winter

BH 492 : Practicum II

This course is a continuation of supervised clinical experience, building on the skills and experience gained in Practicum I. Students will develop skills in the areas of: intake interviewing, case management, assessment of client/consumer needs, and intervention strategies. Emphasis will be placed on individual and group counseling, outreach activities, documentation, use of community referral and networking resources, collaboration with colleagues, inter-agency communication, and professional growth. Ninety hours of recorded clinical experience are required.

Distribution

Specified Elective

Credits 5

Lecture Hours 22

Clinical Hours 99

Prerequisites

Admission to BAS Behavioral Health Program and [BH& 491](#) or instructor permission

Quarters Offered

Winter

BH 493 : Practicum III

This course is a continuation of supervised clinical experience, building on the skills and experience gained in Practicum II. Skills students will focus on include: intake interviewing, case management, assessment of client/consumer needs, and intervention strategies to meet those needs. Additional focus areas include individual and group counseling, outreach activities,

documentation, use of community referral and networking resources, collaboration with colleagues, inter-agency communication, and professional growth. Ninety hours of recorded clinical experience are required.

Distribution

Specified Elective

Credits 5

Lecture Hours 22

Clinical Hours 99

Prerequisites

Admission to BAS Behavioral Health Program and [BH 492](#) or instructor permission

Quarters Offered

Spring

Basic Education for Adults (BEaA)

General Information

509.793.2304

BEaInfo@bigbend.edu

The BEaA program serves individuals seeking high school diploma, obtaining their GED, improving basic reading, writing, and speaking skills for non-English speakers and/or improve basic mathematics to prepare and transition to college-level courses. Most classes are open-entry and self-paced. Times and locations can be found in the current quarterly class schedule or by contacting the Basic Skills Office at 509.793.2304 or by email at bedainfo@bigbend.edu.

English Language Acquisition

English Language Acquisition (ELA) classes provide instruction in beginning and intermediate English language skills to adults whose first language is not English. Classes emphasize listening, speaking, reading, and writing skills. Students may earn high school credit and/or prepare for their GED

simultaneously. Most classes are open-entry and self-paced. Times and locations can be found in the current quarterly class schedule or by contacting the Basic Skills Office at 509.793.2304 or by email at bedainfo@bigbend.edu.

GED Preparation

Individuals may study and prepare for the computerized GED exam by attending BEdA classes. All instruction is provided in English, but the test may be taken in English, Spanish, or French. Disability Accommodations may be provided if approved. Students aged 16–19 will need a High School release to test. Most classes are open-entry and self-paced. Times and locations can be found in the current quarterly class schedule or by contacting the Basic Skills Office at 509.793.2304 or by email at bedainfo@bigbend.edu.

Basic Education for Adults (BEdA) Course Descriptions

DVS 011 : Basic Skills Review

The main goal of this course is to assist students to improve their reading/writing, math, listening/speaking and employability skills in order to earn a high school diploma or pass the official GED tests. To enroll in the Basic Skills Program, students must be at least 16 years old. For the HS21 program, students must be 21 years old or older. (Formerly: DVS 011, 012, 013, 014, 020, 021)

Prerequisites

This course is designed for students with a CASAS score below 235 in reading and/or math.

DVS 012 : Adult Secondary Education I

The main goal of this course is to assist students to improve their reading/writing, math, listening and employability skills in order to earn a high school diploma or to pass the Official GED tests (to enroll in the Basic Skills Program, students must be at least 16 years old). For HS21 students,

this course is designed for students studying for the second half of their HS21 diploma. (Formerly: [DVS 011](#), 012, 013, 014, 020, 021)

Prerequisites

This course is designed for students who, at intake, have credits placing them at 11th or 12th grade (earned more than half their credits for graduation) and/or for second language students score 236–245 on CASAS Reading and Math tests.

DVS 013 : Adult Secondary Education II

The main goal of this course is to assist students to improve their reading/writing, math, listening and employability skills in order to earn a high school diploma or to pass the Official GED tests (to enroll in the Basic Skills Program, students must be at least 16 years old). For HS21 students, this course is designed for students studying for the second half of their HS21 diploma. (Formerly: [DVS 011](#), 012, 013, 014, 020, 021)

Prerequisites

This course is designed for students who, at intake, have credits placing them at 11th or 12th grade (earned more than half their credits for graduation) and/or for second language students score 246–255 on CASAS Reading and Math tests.

DVS 014 : Adult Basic Skills

The main goal of this course is to assist students to improve their reading, writing, listening, employability skills, and math skills in order to advance to the next NRS Educational Functional level as determined by the CASAS Levels and to obtain knowledge and skills necessary for college and career readiness (Formerly: [DVS 011](#), 012, 013, 014, 020, 021)

Prerequisites

This course is designed for students with a CASAS score below 246 in reading and/or math.

DVS 015 : Accelerated Learning Support

DVS 015 is designed to provide additional instruction and support for basic skills students in I-BEST or other collegelevel accelerated math and English classes. The course provides a review of core concepts and vocabulary

introduced in the related college-level math and/or English courses and students engage in activities to help strengthen basic math and/ or English skills.

Prerequisites

Students must be concurrently enrolled in I-BEST or other college-level accelerated math and/ or English classes

DVS 017 : Accelerated Learning Support: Math

DVS 017 is designed to provide additional instruction and support for basic skills students in I-BEST or other collegelevel accelerated Math classes. The course provides a review of core concepts and vocabulary introduced in the related college-level Math courses and students engage in activities to help strengthen basic Math skills.

Prerequisites

Placement in pre-college Math; students must be concurrently enrolled in I-BEST or other college-level accelerated Math classes.

DVS 031 : Beginning English Language Acquisition

This basic skills level course is for students whose first language is not English. Participants study speaking, listening, reading, writing, employability skills, and mathematics in English, so they may perform a variety of basic tasks requiring communication at work, at home, and in their community. Students must be at least sixteen years old to enroll in the Basic Skills Program or 21 years old or older to enroll in the HS21 program. (Formerly DVS 030,031,032,034,035,037)

Prerequisites

This course is designed for students with a CASAS score below 190 in reading and/or below 189 in listening

DVS 032 : Intermediate English Language Acquisition

This basic skills level course is for students whose first language is not English. Participants study speaking, listening, reading, writing, employability skills, and mathematics in English, so they may perform a variety of basic tasks

requiring communication at work, at home, and in their community. Students must be at least sixteen years old to enroll in the Basic Skills Program or 21 years old or older to enroll in the HS21 program. (Formerly DVS 030,031,032,034,035,037)

Prerequisites

This course is designed for students with a CASAS score between 191-210 in reading and/or between 190-209 listening

DVS 033 : Advanced English Language Acquisition

This basic skills level course is for students whose first language is not English. Participants study speaking, listening, reading, writing, employability skills, and mathematics in English, so they may perform a variety of basic tasks requiring communication at work, at home, and in their community. Students must be at least sixteen years old to enroll in the Basic Skills Program or 21 years old or older to enroll in the HS21 program. (Formerly DVS 030,031,032,034,035,037)

Prerequisites

This course is designed for students with a CASAS score between 211-235 in reading and/or between 210-227 in listening

DVS 036 : English Language Acquisition/ Citizenship

This basic skills level course is if for students whose first language is not English and who are preparing for the United States naturalization examination. Participants study speaking, listening, reading, writing and arithmetic in English using U. S. History, government and citizenship themes. Individuals may enroll in the course at any time during the quarter.

DVS 080 : College Transitions Math

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

Prerequisites

Placement exam or instructor permission.

DVS 090 : Transition to College

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

Prerequisites

CASAS Reading Level 230 and above.

DVS 091 : BEdA Orientation Course (OPD/HS+/ELA)

The main goal of this course is to assist students as they enter any BEdA program (high school completion or English language acquisition) by giving them the tools they will need to succeed while enrolled in BEdA.

Prerequisites

To enroll in the Open Doors program, students must be at least 16 years old. For the High Schools or ELA program, students must be 18 years old or older.

Biological Sciences

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Biology courses may be taken as part of the Associate in Arts and Science DTA degree or as part of the Associate in Science–Transfer Track 1 degree. Within the Associate in Arts and Science

DTA degree, these courses may be used toward the Natural Science Breadth requirement or for Specified or General Elective credit.

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 prepare students for most baccalaureate institutions. Students should prepare their quarterly schedules with the assistance of an advisor knowledgeable in this transfer area.

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

Associate in Biology DTA/MRP

Degree Type

Direct Transfer Agreement/Major Related Program

This pathway is applicable to students planning to prepare for upper division Bachelor's degree majors in Biology. 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 baccalaureate institutions.

Program Learning Outcomes:

- IO1 Communication
Students will be able to communicate clearly and effectively.

- IO2 Quantitative Reasoning
Students will be able to reason mathematically.
- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.
- PO4 Cultural, Social, Political Aspects
Students will be able to recognize or articulate personal/interpersonal aspects of, or connections between, diverse cultural, social, or political contexts.
- PO5 Problem Solving
Students will be able to solve problems by gathering, interpreting, combining and/or applying information from multiple sources.

Degree Requirements

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

- Complete their degree within three years from the quarter of entry based on the catalog in use at time of entering BBCC. After that date, students must meet any changes in graduation.
- Complete at least 90 transferable credits in courses numbered 100 or above with a grade point average (GPA) of 2.0 or higher.
- Earn a grade of at least a 1.0 in each college level course used in the degree.
- Complete and submit an application for graduation to the Student Administrative Support Services Office before a degree with be awarded.

Note: No course may be used more than once for meeting degree requirements. Courses being used for the basic or breadth requirements in the Associate in Arts & Science (DTA) degree may not be taken pass/fail.

The 90 transferable credits must include the following:

Basic Requirements

Communication Skills

[ENGL& 101](#) and: [ENGL& 102](#), or [ENGL& 235](#)

Course Code	Title	Credits
Communications - BS		

Quantitative Skills

Symbolic or Quantitative Reasoning

Mathematics (MATH) - [Math& 151](#)

Note: A minimum grade of 2.0 or higher in Intermediate Algebra or higher placement score is required for entrance into all SQR courses. Enrollment into any BBCC math course requires placement at the appropriate entrance level.)

Course Code	Title	Credits
Quantitative Skills - SQR		

Distribution Requirements

Humanities

Select from at least two of the disciplines listed on the Humanities distribution list. No more than 5 credits from 100-level World Languages. No more than 5 credits in humanities performance/skill credits (HP) may apply to this requirement.

Course Code	Title	Credits
Humanities - HU		
Humanities - HP		

Social Science

Select from at least two of the disciplines listed on the Social Science distribution list with no more than 10 credits from any one discipline. Cross listed courses may be used to meet credit requirements in only one distribution area.

Course Code	Title	Credits
Social Science - SS		

Natural Science

Select 30 credits from the Natural Science distribution list (limit 5 in math):

[BIOL& 221](#), [BIOL& 222](#), [BIOL& 22](#)

[CHEM& 161](#), [CHEM& 162](#), [CHEM& 163](#)

- At least one must be a Lab Science (LS)
- Select from at least two different disciplines (maximum 10 credits from any one discipline)

[Cross listed courses may be used to meet credit requirements in only one distribution area.](#)

Course Code	Title	Credits
	Natural Science - Lab Science LS	
	Lab science, Non-lab science, or Mathematics	

Additional Electives

To include additional courses to prepare for the biology major based on college selection: organic chemistry sequence for majors, physics for science majors, pre-calculus or above or statistics.

MATH or PHYS - select with Advisor

Advising Maps

An advising map for the Biology Transfer DTA/ MRP degree is available on the BBCC Website including a suggested schedule; use the Academics dropdown and choose the Programs & Degrees link below the Explore heading. The [advising map](#) is helpful to prepare for advising and registration each quarter. Students should maintain an accurate record of courses completed and bring their advising map with them for advising appointments.

Total Credits	90
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Biological Sciences Course Descriptions

BIOL& 100 : Survey of Biology

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.

Distribution

Lab Science

Credits 5

Lecture Hours 44

Lab Hours 22

Quarters Offered

Fall, Winter, Spring, Summer

BIOL& 160 : General Biology with Lab

This course is intended for students pursuing careers in Nursing or other Allied Health fields and satisfies the biology prerequisite for A&P 1 (BIOL& 241). Course content includes the following topics: 1) cellular order and organization including cell chemistry, biological molecules, and cell structure and physiology; 2) energetics including enzymes and carbohydrate metabolism; 3) reproduction, growth and development including DNA replication, cell cycle and control, and cell division; 4) cellular regulation including membranes, transport, protein synthesis, gene regulation, cell signaling, and buffer systems. This course does not satisfy the prerequisite for BIOL& 222 or 223. Related investigations take place in a three-hour lab period each week.

Distribution

Lab Science

Credits 5

Lecture Hours 38

Lab Hours 33

Prerequisites

A 2.0 or better in [CHEM& 121](#) or [CHEM& 161](#) on a college transcript within the last 3 years, or concurrent enrollment in CHEM& 121 or instructor permission. Prior introductory biology experience such as high school biology or BIOL&100 recommended.

Quarters Offered

Fall, Winter, Spring

BIOL& 170 : Human Biology

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.

Distribution

Natural Science

Credits 5

Lecture Hours 55

Lab Hours 0

Quarters Offered

Fall, Winter, Spring

BIOL& 221 : Majors Ecology/Evolution

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, macro evolution, 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.

Distribution

Lab Science

Credits 5

Lecture Hours 38

Lab Hours 33

Prerequisites

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.

Quarters Offered

Fall

BIOL& 222 : Majors Cell/Molecular

The second quarter in a three-quarter general biology series, this series is designed for life-science majors, for pre-professional students, and for students intending to take advanced courses in the biological sciences. Topics of study include: cell chemistry and biological molecules, prokaryotic and eukaryotic cells, membrane transport, energetics and cell metabolism, cell communication, DNA replication, gene expression, and gene regulation, cell division, genetics, and developmental genetics. 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.

Distribution

Lab Science

Credits 5

Lecture Hours 38

Lab Hours 33

Prerequisites

Successful completion of BIOL& 221 with a 2.0 or better or instructor's permission

Quarters Offered

Winter

BIOL& 223 : Majors Organismal Phys

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.

Distribution

Lab Science

Credits 5

Lecture Hours 38

Lab Hours 33

Prerequisites

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

Quarters Offered

Spring

BIOL& 241 : Human Anatomy and Physiology I

An analysis of the structure and function of human skeletal, muscular, and nervous 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 exploring these systems. Lab participation is required for credit.

Distribution

Lab Science

Credits 5

Lecture Hours 33

Lab Hours 44

Prerequisites

A grade of 2.0 or better in BIOL& 160, BIOL& 211, or BIOL& 222, and in CHEM& 121 or above, or on a college transcript within the last 5 years, or instructor permission.

Quarters Offered

Fall, Winter

BIOL& 242 : Human Anatomy and Physiology

The second quarter of a two-quarter sequence which includes the structure, function and pathology of the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary and reproductive systems. Emphasis will be given to the homeostatic relationships between systems.

Four hours of lab per week will be devoted to exploring these systems. Lab participation is required for credit.

Distribution

Lab Science

Credits 5

Lecture Hours 33

Lab Hours 44

Prerequisites

A minimum grade of 2.0 in [BIOL& 241](#) or equivalent.

Quarters Offered

Spring, Winter, Fall

BIOL& 260 : Microbiology

An introduction to microbes and their activities. Emphasis will be given to the areas of bacteriology, immunology, virology and epidemiology. Four hours of lab per week is required for credit. Labs will deal with the culture and identification of organisms, as well as genetic transformation.

Distribution

Lab Science

Credits 5

Lecture Hours 33

Lab Hours 44

Prerequisites

A grade of 2.0 or better in [BIOL& 241](#), or on a college transcript within the last 5 years, or instructor permission.

Quarters Offered

Fall, Spring

BIOL 104 : Core Concepts in Biology

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, macromolecules, cell structure, membrane transport, energy and metabolism, DNA replication, gene expression, cell division, and genetics.

Distribution

Specified Elective

Credits 2

Lecture Hours 22

Prerequisites

Any prior biology course, high school or college-level, is highly recommended.

Botany

botany@bigbend.edu

Botany Course Descriptions

BOT 130 : Botany

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.

Distribution

Lab Science

Credits 5

Lecture Hours 44

Lab Hours 22

Quarters Offered

Winter

BOT 140 : Field Botany

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.

Distribution

Lab Science

Credits 5

Lecture Hours 33

Lab Hours 44

Quarters Offered

Spring

Business

email: business-accounting@bigbend.edu

Business Transfer (DTA/ MRP) (90+ credits)

Students intending to transfer to a baccalaureate institution and major in Business Administration have two degree options-The Business DTA or the Associate in 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 catalog for more information concerning the Associate in Business-DTA and the specific required class 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. Please see the catalog for general education requirements for the Associate in Arts and Science Degree.

Program Learning Outcomes:

- IO1 Communication
Students will be able to communicate clearly and effectively.
- IO2 Quantitative Reasoning
Students will be able to reason mathematically
- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills
- PO4 Students will be able to recognize or articulate personal/interpersonal aspects of, or connections between, diverse cultural, social, or political contexts.
- PO5 Students will be able to solve problems by gathering, interpreting, combining and/or applying information from multiple sources

Business DTA

Degree Type

Direct Transfer Agreement/Major Related Program

To earn the Associate in Business DTA MRP degree, a student must:

- Complete their degree within three years from the quarter of entry based on the catalog in use at time of entering BBCC. After that date, students must meet any changes in graduation.
- Complete at least 90 transferable credits in designated courses numbered 100 or above with a grade point average (GPA) of 2.0 or higher.
- Earn a grade of at least a 1.0 in each college level course used in the degree.
- Complete and submit an application for graduation to the Student Administrative Support Services Office before a degree will be awarded.

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

The 90 transferable credits must include the following:

Basic Requirements

Communication Skills

Course Code	Title	Credits
ENGL& 101	English Composition I	5
	ENGL& 102 or ENGL& 235 or ENGL& 201	5

Quantitative Skills

Symbolic or Quantitative Reasoning

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

Course Code	Title	Credits
MATH& 141	Precalculus I	5
MATH& 148	Business Calculus	5

Breadth Requirements

Humanities

Select from at least two of the disciplines listed on the Humanities distribution list with no more than 10 credits from any one discipline. No more than 5 credits in foreign language at the 100 level may apply to this category. No more than 5 credits in humanities performance/skill credits (HP) may apply to this requirement.

Course Code	Title	Credits
CMST& 220	Public Speaking	5
	Student Choice for Remaining Credits in this Category (10 credits)	10

Social Science

Select from at least two of the disciplines listed on the Social Science distribution list (ANTH, CJ, ECON, HIST, POLS, PSYC, SOC)

Course Code	Title	Credits
ECON& 201	Micro Economics	5
ECON& 202	Macro Economics	5
	Student choice for remaining 5 credits in this category	5

Natural Science

Select from at least two of the disciplines listed on the Natural Science distribution list

Course Code	Title	Credits
MATH& 146	Introduction to Statistics	5
	Lab Science (5 credits)	5
	Non-lab Science or Lab Science (5 credits)	5

Business Core Requirements

Course Code	Title	Credits
ACCT& 201	Prin of Accounting I	5
ACCT& 202	Prin of Accounting II	5
ACCT& 203	Prin of Accounting III	5
BUS& 201	Business Law	5

Physical Education/Health & Wellness

Complete one of the following:

No more than 3 PEH AC credits may be used in the degree.

Course Code	Title	Credits
	Three PEH Activity [AC] Credits	3
PEH 100	Lifetime Wellness	3
PEH 178	Principles of Fitness	3

General Electives

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

Many courses in this degree are designated. Refer to the Distribution lists to help you choose a class within the distribution categories that meets your educational goals and interests. Refer to the Departments and Programs of Study pages for a full listing of courses in each discipline and which quarter each course will be taught; ask your advisor to help you.

The following schedule of courses is the recommended program for completing this degree. See a program advisor for substitute courses.

First Year

Fall Quarter

Course Code	Title	Credits
	ACCT 105 or BUS& 101	5
ENGL& 101	English Composition I	5
	As needed per English/Math 5 placement or Elective (5 credits)	

Winter Quarter

Course Code	Title	Credits
	ECON& 201 or 202	5
MATH& 141	Precalculus I	5
	Humanities or Social Science5 (5 credits)	

Spring Quarter

Course Code	Title	Credits
	ECON& 201 or 202	5
MATH& 148	Business Calculus	5
	Lab or Natural Science (5 credits)	5

Summer Quarter

Course Code	Title	Credits
	As needed per English/Math placement or Elective (5 credits)	5

Second Year

Fall Quarter

Course Code	Title	Credits
ACCT& 201	Prin of Accounting I	5
	Lab or Natural Science (5 credits)	5

MATH& 146	Introduction to Statistics	5
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Winter Quarter

Course Code	Title	Credits
ACCT& 202	Prin of Accounting II	5
BUS& 201	Business Law	5
	Humanities or Social Science (5 credits)	5

Spring Quarter

Course Code	Title	Credits
ACCT& 203	Prin of Accounting III	5
CMST& 220	Public Speaking	5
	ENGL& 102 or 201	5

Summer Quarter

Course Code	Title	Credits
	As needed per English/Math placement or Elective (5 credits)	5
	Humanities or Social Science (5 credits)	5
	Physical Education/Health & Wellness (PEH) (3 credits)	3
	Advisor Approved Electives/Transfer Courses	

Breadth Requirement Options

Humanities (10 credits)

Art, Communications, Diversity, English, Foreign Languages, Music, Philosophy, Religious Studies

Social Sciences (5 credits)

Anthropology, Criminal Justice, History, Political Science, Psychology, Sociology

Natural Sciences and Lab Sciences (10 credits)

Lab Sciences: ASTR& 101, BIOL& 100, BOT 130 or 140, GEOL& 101 CHEM& 121, PHYS& 110

Natural Sciences and Non-lab Sciences: ASTR& 100, BIOL& 170, CHEM& 105, ENV& 100, NUTR& 101

Total Credits	90
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Business Course Descriptions

BUS& 101 : Intro to Business

This course provides an overview of business, focusing on the world of business today within the context of a global society. Basic principles and concepts include; business models, entrepreneurship, functional areas of business, management, organizational structure, human resources, marketing, information systems, finance, ethics and social responsibility as well as emerging business topics.

Distribution

Specified Elective

Credits 5

Lecture Hours 55

Quarters Offered

Fall, Winter, Spring, Summer

BUS& 201 : Business Law

This course provides an introduction to the nature and sources of law and overview of law typically relating to the operation of businesses

from the point of view of owners, managers, employees, customers, and suppliers with an emphasis on contracts and sales.

Distribution

Specified Elective

Credits 5

Lecture Hours 55

Quarters Offered

Fall, Winter, Spring

BUS 114 : Business Ethics

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.

Credits 5

Lecture Hours 55

Quarters Offered

Spring

BUS 115 : Workplace Skills and Behaviors

Practical application-oriented study of interpersonal skills and behaviors for the workplace. Topics included are communication, ethics at work, decision making, teamwork, conflict resolution, diversity, etiquette, adapting to change, and work life balance

Credits 4

Lecture Hours 44

BUS 119 : Business Grammar and Edit

This course is designed to prepare students for today's offices where clear and concise writing and editing is based on a sound understanding of grammar and is considered to be an essential job skill. Topics will include the parts of speech, punctuation, capitalization, and numbers. Students will walk away with a solid foundation of good grammar mechanics and the ability to skillfully edit their own work.

Credits 5

Lecture Hours 55

Prerequisites

English placement of [ENGL 99](#) or higher.

BUS 122 : Business Communications

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

Credits 5

Lecture Hours 55

Prerequisites

[BUS 121](#) or ENGL& 101.

Quarters Offered

Fall, Spring

BUS 135 : Fundamentals of Logistics, Transportation, and Supply Chain Management

This introductory course provides an overview of the fundamentals of commercial transportation, logistics, and supply chain management; an overview of the various operations and processes involved in efficient movement of cargo and impacts to the financial performance of business; and provides students with practical industry knowledge. Topics will include logistics and supply chain management, the physical side of materials management, inbound logistics and purchasing, physical distribution management, outbound logistics with regard to transportation, information technology systems, finance in logistics and supply chain management, and logistics and the supply chain in the global environment.

Credits 1

-3

Lecture Hours 11

-33

BUS 161 : Business Calculators

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.

Credits 2

Lab Hours 44

Prerequisites

Completion of [MATH 094/MAP 117](#) or a higher placement.

BUS 170 : Consumer Finance

This course offers an 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.

Credits 5

Lecture Hours 55

Quarters Offered

Spring

BUS 200 : Supervision

The student will look at management in organizations and the information, tools, qualities, and skills needed to successfully manage others while fostering a positive work environment and contributing to organizational success.

Credits 5

Lecture Hours 55

Prerequisites

[BUS 120](#), or SOC&101, or PSYC&100 or Instructor Permission.

Quarters Offered

Winter

BUS 215 : Customer Service

This course will provide the student with strategies and skills to effectively meet the needs of customers. The student will be introduced to internal and external customers, to customer satisfaction, to customer retention, and to customer service trends.

Credits 3

Lecture Hours 33

Prerequisites

Basic computer skills strongly recommended.

Quarters Offered

Fall, Summer

BUS 289 : Project Management

This course focuses on exploring and exercising principles that are common to project management across multiple industries and disciplines. Students develop skills in project integration, scope, time, cost, quality, human resource, communications, risk, procurement,

and stakeholder management. Students and instructors will select a final project that will allow them to focus on their area of specialization and learn about the perspectives of other industries while working as a team to accomplish common project goals. Students who have earned 45 or more college-level credits may register for this class. This class is intended for students in the second year of their degree program. Credit cannot be earned in both BUS 289 and CS 289. (Formerly: CS 289)

Credits 5

Lecture Hours 55

Prerequisites

45 or more college-level credits.

BUS 295 : Work-Based Learning

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.

Credits 1

-6

Clinical Hours 33

-198

Prerequisites

BUS department advisor permission.

Corequisites

[BUS 297](#)

BUS 297 : Work-Based Learning Seminar

A discussion/conference oriented course covering various topics related to business. The topic discussed during a particular quarter will be influenced by the needs and interests of the students. May be repeated up to six (6) credits.

Credits 1

Lecture Hours 11

Prerequisites

BUS department advisor permission

Business Information Management

email: bim@bigbend.edu

The Business Information Management (BIM) 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 program will earn one of two AAS degrees. Each of the BIM AAS degrees is transferable toward the online Bachelor of Applied Science Applied Management (BAS-AM) at Big Bend Community College or a Bachelor of Applied Science (BAS) Administrative Management at Central Washington University.

Our classes prepare you for the world of work and apply to nearly every sector of the economy. All organizations need administrative professionals. Each program offers a job readiness component preparing you to write winning resumes, have successful interviews and job performance.

Electives provide students with flexibility while pursuing their degrees and the opportunity to focus study on interest or need. Electives include business management, law, accounting, Spanish, and various office/financial management applications at both introductory and advanced levels.

Administrative Professional Services AAS

Degree Type

Associate in Applied Science

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. Prerequisite and requisite courses must be completed with a minimum grade of 2.0.

Program Learning Outcomes:

- **IO1 Communication**
Students will write, speak, and present

information effectively by creating professional documents that would be used in an office or medical office environment.

- **IO2 Quantitative Reasoning**
Students will be able to reason mathematically using methods appropriate to the profession
- **IO3 Human Relations/Workplace Skills**
Students will be able to demonstrate teamwork, professionalism, and/or workplace specific skills.
- **PO4** Students will identify the interpersonal and ethical attributes needed for success in the profession by developing a professional portfolio and/or successfully completing a mock Interview with industry professionals.
- **PO5** Students will develop proficient Microsoft Office techniques by creating professional business documents while meeting an 85% competency level.

Depending on a student's English or Math placement and keyboarding skills, additional courses may be required. Some electives are not available every quarter or year. Ask about other classes in which you may be interested.

Degree Courses Required Courses

Course Code	Title	Credits
BIM 104	Intermediate Keyboarding	3
BIM 109A	Internet Communications	1
BIM 180A	Introduction to Microsoft Office	2
BIM 180B	Introduction to Microsoft Office	2
BIM 180C	Introduction to Microsoft Office	1
BIM 262	Professional Preparation	3
BIM 280A	Advanced Microsoft Office	2
BIM 285	Microsoft Office Specialist Prep and Certification	1-5
BUS 114	Business Ethics	5
BUS 115	Workplace Skills and Behaviors	4
BUS 122	Business Communications	5
BUS 200	Supervision	5
BUS 215	Customer Service	3
BUS& 101	Intro to Business	5
CMST& 220	Public Speaking	5
	CSS 102 or CSS 100	3
ENGL& 101	English Composition I	5
FAD 150	Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens	2
	PSYC& 100 or SOC& 101	5
MAP 117	Applied Math for Workforce Programs I	1-5
ACCT 105	Introduction to Accounting	5
	Advisor Approved Electives/ Transfer Courses	

Administrative Professional Services AAS Electives

Course Code	Title	Credits
BIM 106	Advance Keyboarding	3
BIM 109B	Internet Communications	1
BIM 173A	Word Processing I	3
BIM 173B	Word Processing I	2
BIM 186	Microsoft Publisher	3
BIM 187	Adobe Acrobat	3
BIM 190A	Spreadsheets I	3
BIM 190B	Spreadsheets I	2
BIM 210	Internet	2
BIM 280B	Advanced Microsoft Office	2
BIM 285	Microsoft Office Specialist Prep and Certification	1-5
BUS 161	Business Calculators	2
BUS& 201	Business Law	5
CJ& 101	Intro Criminal Justice	5
BIM 280C	Advanced Microsoft Office	1
	Total Credits	90

Medical Office and Billing Support Services AAS

Degree Type

Associate in Applied Science

This option is designed for students who are interested in specializing in medical office administration and billing. This degree consists of a combination of medical knowledge, accounting and business skills, and computer applications. Prerequisite and requisite courses must be completed with a minimum grade of 2.0.

Program Learning Outcomes:

- **101 Communication**

Students will write, speak, and present information effectively by creating professional documents that would be used in an office or medical office environment.

- **IO2 Quantitative Reasoning**
Students will be able to reason mathematically using methods appropriate to the profession
- **IO3 Human Relations/Workplace Skills**
Students will be able to demonstrate teamwork, professionalism, and/or workplace specific skills.
- **PO4** Students will identify the interpersonal and ethical attributes needed for success in the profession by developing a professional portfolio and/or successfully completing a mock Interview with industry professionals.
- **PO5** Students will develop proficient Microsoft Office techniques by creating professional business documents while meeting an 85% competency level.

The following schedule of courses is the recommended program for completing this degree. Depending on a student's English or Math placement, and keyboarding skills, additional courses may be required.

Substitutions must be approved by a BIM advisor. Some electives are not available every quarter or year. Ask about other classes in which you may be interested.

Required Courses

Course Code	Title	Credits
ACCT 105	Introduction to Accounting	5
BIM 104	Intermediate Keyboarding	3
BIM 109A	Internet Communications	1
BIM 109B	Internet Communications	1
BIM 113	The Medical Office	5
BIM 117	Medical Office Accounts Receivable	4
BIM 180A	Introduction to Microsoft Office	2
BIM 180B	Introduction to Microsoft Office	2
BIM 180C	Introduction to Microsoft Office	1
BIM 262	Professional Preparation	3
BIM 280A	Advanced Microsoft Office	2
BIM 285	Microsoft Office Specialist Prep and Certification	1-5
BUS 115	Workplace Skills and Behaviors	4
BUS 122	Business Communications	5
BUS 161	Business Calculators	2
BUS 200	Supervision	5
BUS 215	Customer Service	3
CMST& 220	Public Speaking	5
ENGL& 101	English Composition I	5
FAD 150	Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens	2
HED 119	Medical Terminology	5
HED 239	Medical Ethics	2
MAP 117	Applied Math for Workforce Programs I	1-5
PSYC& 100	General Psychology	5
	CSS 102 or CSS 100	3
	Advisor Approved Electives/ Transfer Courses	

Approved BIM Program Electives

Course Code	Title	Credits
BIM 106	Advance Keyboarding	3
BIM 173A	Word Processing I	3
BIM 173B	Word Processing I	2
BIM 186	Microsoft Publisher	3
BIM 187	Adobe Acrobat	3
BIM 190A	Spreadsheets I	3
BIM 190B	Spreadsheets I	2
BIM 210	Internet	2
BIM 280B	Advanced Microsoft Office	2
BIM 280C	Advanced Microsoft Office	1
BIM 285	Microsoft Office Specialist Prep and Certification	1-5
BUS& 201	Business Law	5
CJ& 101	Intro Criminal Justice	5
CMST& 230	Small Group Communication	5
Total Credits		90

Administrative Assistant Certificate of Achievement

Degree Type

Certificate

The Certificate of Achievement is designed to provide recognition for the student who does not plan to complete an AAS degree program. Upon completion of the following options, the student will earn a Certificate of Achievement from BBCC.

Program Learning Outcomes:

- **IO1 Communication**
Students will write, speak, and present information effectively by creating professional documents that would be used in an office or medical office environment.
- **IO2 Quantitative Reasoning**
Students will be able to reason mathematically using methods appropriate to the profession

- **IO3 Human Relations/Workplace Skills**

Students will be able to demonstrate teamwork, professionalism, and/or workplace specific skills.

- **PO4** Students will identify the interpersonal and ethical attributes needed for success in the profession by developing a professional portfolio and/or successfully completing a mock Interview with industry professionals.
- **PO5** Students will develop proficient Microsoft Office techniques by creating professional business documents while meeting an 85% competency level.

Required Courses

Course Code	Title	Credits
	Customer Service Associate Certificate	51
BIM 280A	Advanced Microsoft Office	2
BUS 114	Business Ethics	5
ACCT 105	Introduction to Accounting	5
Total Credits		63

Customer Service Associate Certificate of Achievement

Degree Type

Certificate

The Certificate of Achievement is designed to provide recognition for the student who does not plan to complete an AAS degree program. Upon completion of the following options, the student will earn a Certificate of Achievement from BBCC.

Program Learning Outcomes:

- **IO1 Communication**
Students will write, speak, and present information effectively by creating professional documents that would be used in an office or medical office environment.

- **IO2 Quantitative Reasoning**
Students will be able to reason mathematically using methods appropriate to the profession
- **IO3 Human Relations/Workplace Skills**
Students will be able to demonstrate teamwork, professionalism, and/or workplace specific skills.
- **PO4** Students will identify the interpersonal and ethical attributes needed for success in the profession by developing a professional portfolio and/or successfully completing a mock Interview with industry professionals.
- **PO5** Students will develop proficient Microsoft Office techniques by creating professional business documents while meeting an 85% competency level.

Required Courses

Course Code	Title	Credits
	Office Assistant Certificate	29
BUS 122	Business Communications	5
BUS& 101	Intro to Business	5
CMST& 220	Public Speaking	5
FAD 150	Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens	2
PSYC& 100	General Psychology	5
	Total Credits	51

Medical Office Receptionist Certificate of Accomplishment

Degree Type

Certificate

Upon completion of each of the following options, the student will earn a Certificate of Accomplishment from BBCC.

Program Learning Outcomes:

- **PO5** Students will develop proficient Microsoft Office techniques by creating professional business documents

Required Certificate Courses

Course Code	Title	Credits
BIM 104	Intermediate Keyboarding	3
BIM 109A	Internet Communications	1
BIM 109B	Internet Communications	1
BIM 113	The Medical Office	5
BUS 115	Workplace Skills and Behaviors	4
BUS 215	Customer Service	3
ENGL& 101	English Composition I	5
HED 119	Medical Terminology	5
HED 239	Medical Ethics	2
MAP 117	Applied Math for Workforce Programs I	1-5
	Total Credits	34

Medical Office Technician Certificate of Achievement

Degree Type

Certificate

The Certificate of Achievement is designed to provide recognition for the student who does not plan to complete an AAS degree program. Upon completion of the following options, the student will earn a Certificate of Achievement from BBCC.

Program Learning Outcomes:

- **IO1 Communication**
Students will write, speak, and present information effectively by creating professional documents that would be used in an office or medical office environment.
- **IO2 Quantitative Reasoning**
Students will be able to reason mathematically using methods appropriate to the profession

- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, professionalism, and/or workplace specific skills.
- PO4 Students will identify the interpersonal and ethical attributes needed for success in the profession by developing a professional portfolio and/or successfully completing a mock Interview with industry professionals.
- PO5 Students will develop proficient Microsoft Office techniques by creating professional business documents while meeting an 85% competency level.

Required Courses

Course Code	Title	Credits
	Medical Office Receptionist Certificate	34
BIM 180A	Introduction to Microsoft Office	2
BIM 180B	Introduction to Microsoft Office	2
BIM 180C	Introduction to Microsoft Office	1
BUS 161	Business Calculators	2
CMST& 220	Public Speaking	5
CSS 100	Charting Your Course: College Essentials	3
FAD 150	Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens	2
PSYC& 100	General Psychology	5
	Total Credits	56

Office Assistant Certificate of Accomplishment

Degree Type
Certificate

Upon completion of each of the following options, the student will earn a Certificate of Accomplishment from BBCC.

Program Learning Outcomes:

- **PO5** Students will develop proficient Microsoft Office techniques by creating professional business documents

Required Courses

Course Code	Title	Credits
	Office Clerk Certificate	14
BIM 180A	Introduction to Microsoft Office	2
BIM 180B	Introduction to Microsoft Office	2
BIM 180C	Introduction to Microsoft Office	1
ENGL& 101	English Composition I	5
MAP 117	Applied Math for Workforce Programs I	1-5
	Total Credits	29

Office Clerk Certificate of Accomplishment

Degree Type
Certificate

Upon completion of each of the following courses, the student will earn a Certificate of Accomplishment from BBCC.

Program Learning Outcomes:

- **PO5** Students will develop proficient Microsoft Office techniques by creating professional business documents.

Required Courses

Course Code	Title	Credits
BIM 104	Intermediate Keyboarding	3
BIM 109A	Internet Communications	1
BUS 115	Workplace Skills and Behaviors	4
BUS 215	Customer Service	3
CSS 100	Charting Your Course: College Essentials	3
Total Credits		14

Office Format Design Specialist Certificate of Accomplishment

Degree Type

Certificate

Program Learning Outcomes:

PO5 Students will develop proficient Microsoft Office techniques by creating professional business documents.

Required Courses

Course Code	Title	Credits
BIM 109A	Internet Communications	1
BIM 109B	Internet Communications	1
BIM 180A	Introduction to Microsoft Office	2
BIM 180B	Introduction to Microsoft Office	2
BIM 180C	Introduction to Microsoft Office	1
BIM 186	Microsoft Publisher	3
BIM 187	Adobe Acrobat	3
BUS 115	Workplace Skills and Behaviors	4
BUS 215	Customer Service	3
FAD 150	Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens	2
MAP 117	Applied Math for Workforce Programs I	1-5
Total Credits		27

Business Information Management Course Descriptions

BIM 101 : Basic Keyboarding

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.

Credits 2

Lab Hours 44

Quarters Offered

Fall, Winter, Spring, Summer

BIM 102 : Document Formatting

This course gives primary emphasis to the formatting of business documents using Microsoft Word 2021

Credits 1

-4

Lab Hours 22

-88

Prerequisites

[BIM 101](#) or Basic Keyboarding Skills

Quarters Offered

Fall, Winter, Spring, Summer

BIM 103 : The Administrative Professional

This course is an introduction to the administrative professional career.

Credits 2**Lecture Hours 22****Quarters Offered**

Fall, Winter

BIM 104 : Intermediate Keyboarding

This course gives emphasis to improving keyboarding speed and accuracy.

Credits 3**Lab Hours 66****Prerequisites**

[BIM 10](#) /Basic Keyboarding Skills.

Quarters Offered

Fall, Winter, Spring, Summer

BIM 106 : Advance Keyboarding

This course gives emphasis to improving keyboarding speed and accuracy.

Credits 3**Lab Hours 66****Prerequisites**

BIM 104: Intermediate Keyboarding

Quarters Offered

Fall, Winter, Spring, Summer

BIM 109 : Internet Communications

This course will introduce the functions of Outlook 2021 and other online communications and the fundamental use and sharing of online documents and data.

Credits 1

-2

Lab Hours 22

-44

Quarters Offered

Fall, Winter, Spring, Summer

BIM 109A : Internet Communications

This course will introduce the functions of Outlook teaching students how to manage email messages, and manage calendars using Outlook. This class teaches to and requires the most current version of Microsoft Office for Windows.

Credits 1**Lab Hours 22****Quarters Offered**

Fall, Winter, Spring

BIM 109B : Internet Communications

This course is a continuation from BIM 109A and will introduce the functions of Outlook teaching students how to manage and update contacts and creating and managing tasks using Outlook. This class teaches to and requires the most current version of Microsoft Office for Windows.

Credits 1**Lab Hours 22****Prerequisite or Corequisite**

Successful completion of BIM 109A or BIM 109 or corequisite in BIM 109A

Quarters Offered

Fall, Winter, Spring

BIM 110 : Microsoft Office Essentials

This course is an introduction to Microsoft Office Suite. This class teaches to and requires the most current version of Microsoft Office for Windows. This course is not intended for Business Information Management majors. Credit cannot be earned in both BIM 110 and BIM 108.

Credits 3**Lab Hours 66****Quarters Offered**

Fall, Winter, Spring, Summer

BIM 112 : Proof & Edit

This course gives students the opportunity to learn different proofreading techniques and then emphasizes practice using those techniques.

Credits 1

-3

Lab Hours 22

-66

Prerequisites

[BIM 102](#), [BUS 121](#).

Quarters Offered

Fall, Winter, Spring

BIM 113 : The Medical Office

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

Credits 5

Lecture Hours 44

Lab Hours 22

Prerequisites

[HED 119](#) or instructor permission and basic computer knowledge.

Quarters Offered

Fall, Winter, Spring

BIM 117 : Medical Office Accounts Receivable

This is a basic class in managing the information required for billing medical insurance in clinic and hospital settings. This class will cover coding, specific form requirements, account aging, posting payments and adjustments to patient accounts, and medical coverage plans, including government plans. Issues related to overall medical business offices will also be part of the class, including correct patient billing and collection procedures. (Formerly: BIM 107 & BIM 111).

Credits 4

Lecture Hours 44

Prerequisites

BIM 113: The Medical Office

Quarters Offered

Spring

BIM 130 : Filing

This course introduces basic filing rules for alphabetic, numeric, subject, and geographic filing.

Credits 1

-2

Lab Hours 22

-44

Quarters Offered

Fall, Winter, Spring

BIM 131 : Records Management

Every business needs to manage its records and information efficiently. This course covers the necessary skills to understand the basics of records management and focuses on managing physical documents and electronic documents using different filing methods.

Credits 3

Lab Hours 66

BIM 173 : Word Processing I

This course is an in-depth introduction to Microsoft Word. The focus is to learn functions of Word 2021, to apply these functions to business situations, and begin preparing students for the (MOS) Microsoft Office Specialist exam.

Credits 1

-5

Lab Hours 22

-110

Prerequisites

[BIM 102](#) or instructor permission.

Quarters Offered

Fall, Winter, Spring

BIM 173A : Word Processing 1

This course is an in-depth introduction to Microsoft Word. The focus is to learn functions of Word to apply these functions to business situations, and begin preparing students for the (MOS) Microsoft Office Specialist exam. This class teaches to and requires the most current version of Microsoft Office for Windows.

Credits 3

Lab Hours 66

Quarters Offered

Fall

BIM 173B : Word Processing 1

This course is an in-depth introduction to Microsoft Word. The focus is to learn functions of Word to apply these functions to business situations, and begin preparing students for the (MOS) Microsoft Office Specialist exam. This class teaches to and requires the most current version of Microsoft Office for Windows.

Credits 2

Lab Hours 44

Prerequisite or Corequisite

Completion of [BIM 173A](#)

Quarters Offered

Winter

BIM 177 : Business Information Management Lab

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.

Credits 1

-6

Lab Hours 22

-132

Prerequisites

Instructor permission.

BIM 180 : Introduction to Microsoft Office

This course is an introduction to the basic functions of Microsoft Office 2021- Word, Excel, Access, PowerPoint, and Integration. This course is intended for Business Information Management and Accounting students.

Credits 1

-5

Lab Hours 22

-110

Prerequisites

Successful completion of [MATH 094](#)/[MAP 117](#) or a higher placement.

Quarters Offered

Fall, Winter, Spring, Summer

BIM 180A : Introduction to Microsoft Office

This course is an introduction to the basic functions of Microsoft Office focusing on Word

and Excel. This class teaches to and requires the most current version of Microsoft Office for Windows.

Credits 2

Lab Hours 44

Quarters Offered

Fall, Winter, Spring

BIM 180B : Introduction to Microsoft Office

This course is an introduction to the basic functions of Microsoft Office focusing on PowerPoint and Access. This class teaches to and requires the most current version of Microsoft Office for Windows.

Credits 2

Lab Hours 44

Prerequisite or Corequisite

Successful completion of [BIM 180A](#) or Corequisite of [BIM 180A](#)

Quarters Offered

Fall, Winter, Spring

BIM 180C : Introduction to Microsoft Office

This course is an introduction to the basic functions of Microsoft Office focusing on Integration. This class teaches to and requires the most current version of Microsoft Office for Windows.

Credits 1

Lab Hours 22

Prerequisite or Corequisite

Successful completion of [BIM 180B](#) or Corequisite of [BIM 180B](#).

Quarters Offered

Fall, Winter, Spring

BIM 181 : Introduction to Microsoft Word

This course provides an introduction to Microsoft Word 2021. It is not intended for Business Information Management Program students.

Credits 1

-3

Lab Hours 22

-66

Quarters Offered

Fall, Winter, Spring, Summer

BIM 182 : Introduction to Microsoft Excel

This course provides an introduction to Microsoft Excel 2021. It is not intended for Business Information Management Program students.

Credits 1

-3

Lab Hours 22

-66

Prerequisites

Completion of [MATH 094](#)/[MAP 117](#) or a higher placement.

Quarters Offered

Fall, Winter, Spring, Summer

BIM 183 : Introduction to Microsoft Access

This course provides an introduction to Microsoft Access 2021. It is not intended for Business Information Management Program students.

Credits 1

-3

Lab Hours 22

-66

Quarters Offered

Fall, Winter, Spring

BIM 184 : Introduction to Microsoft PowerPoint

This course provides an introduction to Microsoft PowerPoint 2021. It is not intended for Business Information Management Program students

Credits 1

-3

Lab Hours 22

-66

Quarters Offered

Fall, Winter, Spring

BIM 186 : Microsoft Publisher

This course is an in-depth introduction to Microsoft Publisher. This class uses the most current version of Microsoft Office for Windows. Students will learn to create professional publications and marketing materials such as creating a flyer, publishing a trifold brochure, and designing a newsletter.

Credits 3**Lab Hours** 66**Prerequisites**

Completion of [BIM 110](#) Microsoft Essentials, [BIM 180](#) Introduction to Microsoft Office, or [BIM 181](#) Introduction to Microsoft Word

BIM 187 : Adobe Acrobat

This course is an in-depth introduction to Adobe Acrobat. Students will learn to create, edit, share, and sign PDF documents and forms.

Credits 3**Lab Hours** 66**Prerequisites**

Completion of [BIM 110](#) Microsoft Essentials, [BIM 180](#) Introduction to Microsoft Office, or [BIM 181](#) Introduction to Microsoft Word.

BIM 190 : Spreadsheets I

This course is an in-depth introduction to Microsoft Excel 2021. The focus is to learn functions of Excel, to apply this knowledge to business situations, and to begin preparing students for the MOS (Microsoft Office Specialist) Expert certification exam.

Credits 1

-5

Lab Hours 22

-110

Prerequisites

Successful completion of BUS102-Business Mathematics, or successful completion of [MATH 094](#) or [MAP 117](#) or BBCC Placement Exam into [MATH 098](#) or higher.

Quarters Offered

Fall, Winter, Spring

BIM 190A : Spreadsheets I

This course is an in-depth introduction to Microsoft Excel. The focus is to learn functions of Excel, to apply this knowledge to business situations, and to begin preparing students for the MOS (Microsoft Office Specialist) Expert certification exam. This class teaches to and requires the most current version of Microsoft Office for Windows.

Credits 3**Lab Hours** 66**Prerequisites**

Successful completion of [MATH 094](#) or [MAP 117](#) or BBCC Placement Exam into [MATH 098](#) or higher.

Quarters Offered

Winter, Spring

BIM 190B : Spreadsheets I

This course is an in-depth introduction to Microsoft Excel. The focus is to learn functions of Excel, to apply this knowledge to business situations, and to begin preparing students for the MOS (Microsoft Office Specialist) Expert certification exam. This class teaches to and requires the most current version of Microsoft Office for Windows.

Credits 2

Lab Hours 44

Prerequisites

Successful completion of [MATH 094](#) or [MAP 117](#) or BCC Placement Exam into [MATH 098](#) or higher and successful completion of [BIM 190A](#)

Quarters Offered

Spring

BIM 198 : Special Topics

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.

Credits 1

-5

Lab Hours 22

-110

Prerequisites

Instructor permission

BIM 210 : Internet

This course is an introduction to the Internet, web browsers, search engines, and search techniques.

Credits 2

Lab Hours 44

Quarters Offered

Fall, Winter, Spring, Summer

BIM 262 : Professional Preparation

This course covers job preparation components in which emphasis is given to job search and interviewing techniques

Credits 3

Lecture Hours 33

Prerequisites

BUS 200: Supervision

Quarters Offered

Spring

BIM 280 : Advanced Microsoft Office

This course is a continuation from BIM180 and introduces the advanced features and integration capabilities of Microsoft Office 2021. This course consists of five modules—Word, Excel, PowerPoint, Access, and Integration.

Credits 1

-5

Lab Hours 22

-110

Prerequisites

BIM180 and BUS102

Quarters Offered

Fall, Winter, Spring, Summer

BIM 280A : Advanced Microsoft Office

This course is a continuation from BIM180 and introduces the advanced features and integration capabilities of Microsoft Office. This course consists of two modules—Word, and Excel. This class teaches to and requires the most current version of Microsoft Office for Windows.

Credits 2

Lab Hours 44

Prerequisites

[BIM 180](#). Successful completion of [BIM 180C](#)

Quarters Offered

Fall, Winter, Spring

BIM 280B : Advanced Microsoft Office

This course is a continuation from BIM 280A and introduces the advanced features and integration capabilities of Microsoft Office. This course consists of two modules—PowerPoint, and Access. This class teaches to and requires the most current version of Microsoft Office for Windows.

Credits 2

Lab Hours 44

Prerequisites

Successful completion of [BIM 280A](#) or Corequisite of [BIM 280A](#)

Quarters Offered

Fall, Winter, Spring

BIM 280C : Advanced Microsoft Office

This course is a continuation from BIM 280B and introduces the advanced features and integration capabilities of Microsoft Office. This course consists of one module—Integration. This class teaches to and requires the most current version of Microsoft Office for Windows.

Credits 1

Lab Hours 22

Prerequisite or Corequisite

Successful completion of [BIM 280B](#) or corequisite [BIM 280B](#)

Quarters Offered

Fall, Winter, Spring

BIM 285 : Microsoft Office Specialist Prep and Certification

This course is intended for students taking the MOS (Microsoft Office Specialist) certification exams. This course consists of five modules—Word, Excel, PowerPoint, Access, and Outlook. Students will review Microsoft Office features and complete a certified MOS exam at the end of each module. This class teaches to and requires the most current version of Microsoft Office for Windows.

Credits 1

-5

Lab Hours 22

-110

Prerequisites

Successful completion of [BIM 280A](#) or corequisite [BIM 280A](#), or instructor permission.

Quarters Offered

Fall, Winter, Spring, Summer

Chemistry

Sarah Bauer

Lindsay Groce

Aaron Mahoney

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Chemistry courses may be taken as part of the Associate in Arts and Science DTA degree or as part of the Associate in Science-Transfer (AS-T 1) degree. Within the Associate in Arts and Science DTA degree, these courses may be used toward the Natural Science Breadth requirement or for Specified or General Elective credit.

Chemistry is known as the central science because it is the study of the structure and behavior of all materials. This includes everything from the most infinitesimal particles to the vastness of the cosmos. A major in chemistry prepares students for career fields such as medicine, pharmacology, environmental science, engineering, education, ecology, or public service, and forensic science. The chemistry program provides courses to meet a variety of student needs.

For science and engineering majors, up to one year of college transfer course work is available (General Chemistry). The following recommended courses prepare students for most baccalaureate institutions, but students should still consult the program outlines published by the college or university to which they intend to transfer to make sure the courses taken here are in alignment with the specific transfer program. Students should prepare their quarterly schedules with the assistance of an advisor knowledgeable in this transfer area.

Degree Requirements:

To earn the Associate in Science-Transfer degree, a student must:

- Complete their degree within three years from the quarter of entry based on the catalog in use at time of entering BBCC. After that date, students must meet any changes in graduation.
- Complete at least 90 transferable credits in courses numbered 100 or above with a grade point average (GPA) of 2.0 or higher.
- Earn a grade of at least a 1.0 in each college level course used in the degree.

- Complete and submit an application for graduation to the Student Administrative Support Services Office before a degree with be awarded.

Note: No course may be used more than once for meeting degree requirements. Courses being used for the basic or breadth requirements in the Associate in Science–Transfer degree may not be taken pass/fail.

Chemistry Course Descriptions

CHEM& 105 : Chemical Concepts

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. This course is distinct from CHEM& 110 in both content and practice.

Distribution

Natural Science

Credits 5

Lecture Hours 55

Prerequisites

Completion of [MATH 094](#)/[MAP 117](#) or a higher placement

Quarters Offered

Fall, Winter, Spring, Summer

CHEM& 110 : Chemical Concepts w/Lab

This course is intended for non–science majors. It will provide a basic introduction to chemical principles as they apply to the structure and behavior of matter with an emphasis in examples and application from everyday life. This course can prepare students with limited chemistry background who are planning to pursue further chemistry courses. The course

does not meet the chemistry requirement for pre–nursing or nursing degrees. This course is distinct in content and practice from [CHEM& 105](#).

Distribution

Lab Science

Credits 5

Lecture Hours 44

Lab Hours 22

Prerequisites

Completion of [MATH 094](#)/[MAP 117](#) or a higher placement

Quarters Offered

Fall, Winter, Spring

CHEM& 121 : Intro to Chemistry

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.

Distribution

Lab Science

Credits 5

Lecture Hours 44

Lab Hours 22

Prerequisites

Completion of [MATH 098](#)/[MAP 119](#) or a higher placement. A passing grade in high school chemistry or completion of CHEM& 105 is recommended.

Quarters Offered

Fall, Winter, Spring, Summer

CHEM& 131 : Intro to Organic/Biochem

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.

Distribution

Lab Science

Credits 5**Lecture Hours** 38**Lab Hours** 33**Prerequisites**

[CHEM& 121](#) with a grade of 2.0 or above or instructor permission

Quarters Offered

Winter, Spring

CHEM& 161 : General Chem w/Lab I

The first in a three-quarter series examining the principles of General Chemistry with the primary emphasis on inorganic chemistry. This series is designed for physical science majors, pre-medical, pre-veterinary and pre-pharmacy students, and for students who are required to take one or more quarters of majors-level chemistry. Topics include: matter and measurements, atoms, molecules and ions, chemical formulas, chemical reactions and equations, electronic structure of atoms and periodic properties of elements.

Distribution

Lab Science

Credits 5**Lecture Hours** 38**Lab Hours** 33**Prerequisites**

Placement in [MATH& 141](#) or completion of [MATH 099](#). A passing grade in high school chemistry or completion of CHEM& 121 recommended

Quarters Offered

Fall

CHEM& 162 : General Chem w/Lab II

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.

Distribution

Lab Science

Credits 5**Lecture Hours** 38**Lab Hours** 33**Prerequisites**

Successful completion of CHEM& 161 or instructors permission

Quarters Offered

Winter

CHEM& 163 : General Chem w/Lab III

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..

Distribution

Lab Science

Credits 5**Lecture Hours** 38**Lab Hours** 33**Prerequisites**

Successful completion of CHEM& 162 or instructor permission.

Quarters Offered

Spring

College Success Skills

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CSS courses helps students become more effective learners and achieve their goals at Big Bend Community College. National studies show that students who take CSS courses are more likely to stay in college and graduate than students who do not. CSS courses teach students skills that research has identified as essential to college success. CSS courses add to or build 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 Community College offers to help them succeed.

Library 101 is designed to prepare students with academic level research skills necessary to create search strategies, locate resources, identify formats, evaluate search results, understand APA and other citation styles, and avoid plagiarism. Prerequisite: Placement into ENGL 099 or successful completion of ENGL 098 with a 2.0 or higher All course work for this class will be completed online through Canvas.

College Success Skills Course Descriptions

CSS 100 : Charting Your Course: College Essentials

This course helps students become more effective learners and achieve their goals at Big

Bend and beyond. Students will learn skills that benefit them in college, life, and the workplace such as time management, strategies to overcome procrastination, professional communication, goal-setting, analyzing college systems, and self-advocacy. Students will apply these skills to concepts such as studying for classes, researching and developing an educational plan, and exploring a career pathway.

Credits 3

Lecture Hours 33

Quarters Offered

Summer, Fall, Winter, Spring

CSS 102 : Focus on Success

Students will explore many of the non-academic factors that affect success in college. Students will study self-awareness and the practical application of research to the following areas: career and college course choices; relationships; diversity; values; stress management; substance use; sexual decisions; financial literacy, and diet and exercise. In addition, students will develop basic computer literacy as they explore the nonacademic factors through computer use, word processing operations, email, and use of the Internet

Credits 3

Lecture Hours 33

CSS 103 : First Year Student Success

Students will explore diverse resources Big Bend offers to help them succeed. College Success Skills courses help students become effective learners and achieve their goals. Through course content students will explore careers and pathways, identify next steps after Big Bend, and financial literacy topics such as FAFSA completion, understanding credit scores, and balancing budgets.

Credits 1

-3

Lecture Hours 11

-33

CSS 105 : Introduction to Healthcare Studies

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.

Credits 3

Lecture Hours 33

CSS 106 : College Reading Strategies

College Reading Strategies emphasizes the development of the critical reading and thinking skills (analysis, synthesis, and evaluation) needed for courses in the humanities, social sciences, and sciences. Presents active reading strategies, study reading techniques, and vocabulary building skills.

Credits 2

-3

Lecture Hours 22

-33

CSS 107 : Freshman Pathways

This course will help students build a strong foundation for success. Students will develop essential skills in time management, goal-setting, self-care, and academic strategies while exploring how college fits into their personal and professional aspirations. Through engaging activities and discussions, students will learn to navigate college systems, manage challenges, and make informed decisions about your education and future. By the end of the course, students will have a clear plan for thriving in college and beyond.

May be repeated for up to two (2) credits.

Student cannot apply this course and CSS 100 to their degree.

Credits 1

Lecture Hours 11

Quarters Offered

Summer, Fall, Winter, Spring

Commercial Driver's License

Program Info – Julia Gamboa

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commercialdriverslicense@bigbend.edu

Faculty – Guillermo Garza

509.793.2221

commercialdriverslicense@bigbend.edu

Contact Workforce Education Services (WES) for eligibility for tuition and fee assistance (509.793.2310). A shortage of long-haul drivers prompted the creation of Big Bend Community College's Commercial Truck Driving Program. The course provides classroom study and behind-the-wheel driving and experience. The program covers a variety of professional topics and prepare students for entry-level job opportunities. Class includes defensive driving techniques, brake adjustment, equipment inspection, hazardous material transportation, DOT log books, trip planning, and other job-related topics. Class space is limited and early registration is strongly recommended. Dorms are available.

This 4-6 week course provides classroom study and 160 hours of driving instruction experience. Class includes 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
5. Copy of the completed Department of Transportation (DOT) physical form and card.
6. Pay all tuition and fees at the time of registration.
7. Student must have CDL permit before the start of class
8. A pre-enrollment controlled substances test is mandatory. The test will be taken at the start of the program no later than the 3rd day of class. If the controlled substances test results are positive, the applicant will be expelled.

Commercial Driver's License Certificate of Accomplishment

Degree Type

Certificate

The Certificate of Accomplishment is designed to provide recognition of completion of an approved course offered through a particular program. Upon completion of the following option, the student will earn a Certificate of Accomplishment from BBCC.

Program Learning Outcomes:

- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork and/or workplace specific skills

Required Course

Course Code	Title	Credits
CDL 100	Commercial Driver's License (CDL)	17
Total Credits		17

Commercial Driver's License Course Descriptions

CDL 090 : CDL Skill Improvement

Extra driving time and instruction to enhance students 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.

Credits 1

-10

Lecture Hours 22

Lab Hours 220

Prerequisites

Instructor permission

CDL 100 : Commercial Driver's License (CDL)

This course provides classroom study, driving instruction, and experience to prepare students for the State of Washington Commercial Drivers License (CDL) Class A exam and entry-level employment as a truck driver with no airbrake restrictions and endorsements for doubles and triples, tankers and hazardous material.

Credits 17

Lecture Hours 93

Lab Hours 187

Prerequisites

Completed Commercial Drivers License (CDL) Program Application with supporting documents.

Quarters Offered

Fall, Winter, Spring, Summer

Communication Studies

Mitch Poth

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communicationstudies@bigbend.edu

Communication studies courses may be taken as part of the Associate in Arts and Science DTA degree. These courses may be used toward the Basic Requirement, the Humanities Breadth requirement, or for Specified or General Elective credit. Students seeking Associate in Arts and Science DTA degree should refer to the catalog section "Degrees & Certificates" for a detailed description of the degree, its program outcomes, and courses that will satisfy degree requirements.

Communication Studies is the study of the creation, delivery, and reception of verbal and nonverbal communication. Students will learn to prepare and give effective and ethically grounded speeches, improve interpersonal communication, develop critical thinking and research skills, and analyze the production and content of media messages. Communication Studies is committed to a hands-on approach that brings together theory and real-world communication practices. The department approaches communication as a social and cultural process that is both about upholding individual identity as well as collective action as a way to find solutions for pressing social and political problems. Some of the possible career possibilities in Communication Studies are: politics, education, journalism, activism, research, mediation, podcasting, event planning, social media management, and broadcasting.

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

CMST& 102 Introduction to Mass Communications CWU, EWU

CMST& 210 Interpersonal Communications CWU, EWU

CMST& 220 Public Speaking CWU, EWU*

CMST 229 Advanced Public Speaking CWU, EWU*

CMST 230 Small Group Discussion CWU, EWU

* CMST& 220 AND CMST 229 transfer as same EWU course.

Communication Studies Course Descriptions

CMST& 101 : Introduction to Communication

This course is an overview of the field of Communication Studies and introduces students to the ways public and private human communication shape our world. Combining a social scientific and humanistic perspective, students will use communication theories to explore a range of topics to explain, critique, and problem-solve interpersonal, group, cultural, and organizational issues related to communication.

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

CMST& 102 : Introduction to Mass Communications

Intro to Mass Communication is a survey course that examines the history, institutions, and social impact of mass media communication and emerging technologies. Study focuses on critical analysis of the channels of mass media, as well as the media messages produced in advertising, news, and pop culture. The course includes discussion of major theories in the field, including theories on media literacy, agenda setting, media effects, and the role of representation in

understanding gender and cultural diversity. Special attention is given to the impact of mass media on individuals and society.

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

Quarters Offered

Fall, Winter, Spring

CMST& 210 : Interpersonal Communication

This course is a study of effective interpersonal skill development with the goal of improving personal and work relationships. Emphasis is placed on the personal, situational, and cultural influences of interaction. Topics include human perception, interpersonal dynamics, listening, conflict management, communication as shared meaning through the use of verbal and nonverbal symbol systems. The course is intended for students who communicate in one-on-one situations, including social work, healthcare, public service and business majors. This course is intended for students who are interested in improving interpersonal skills in work, volunteer, and personal environments.

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

Quarters Offered

Fall, Winter, Spring, Summer

CMST& 220 : Public Speaking

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.

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

Quarters Offered

Fall, Winter, Spring, Summer

CMST& 230 : Small Group Communication

This course is a study of the concepts and theories related to group formation and development, and basic group communication dynamics. Students lead and participate in various forms of group discussion and activities. This course is designed for Communication Studies majors, business majors, nursing majors, and community activists, as well as for anyone interested in working effectively in small group settings. (Formerly: SPH 210/CMST 234)

Distribution

Specified Elective

Credits 5

Lecture Hours 55

Quarters Offered

Winter, Summer

CMST 100 : Human Communications

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.

Credits 4

Lecture Hours 44

Quarters Offered

Fall, Winter

CMST 225 : Intercultural Communication

Intro to Intercultural Communication is a survey course that focuses on the importance of culture in our everyday lives, and the ways in which culture affects communication skills and processes. In an era of rapid globalization being able to communicate across cultures is imperative to our ability to function in a diverse workplace, city, and world. This class will introduce the student to foundational and contemporary concepts, practices, and processes of intercultural communication, methods of critical intercultural analysis, and the scholarly field of Intercultural Communication.

Through the study of intercultural communication theories, and reflection on contexts (social, cultural and historical) in which we live and communicate, students will develop sensitivity to the role culture plays in communication.

Distribution

Humanities Lecture, Diversity

Credits 5

Lecture Hours 55

Prerequisites

CMST& 210 Interpersonal Communication or CMST& 220 Public Speaking

CMST 229 : Advanced Public Speaking

This course is a mastery course that moves beyond the fundamentals of public speaking. In this class public speaking is understood as a primary means of motivating change, of developing critical thinking and self-reflection, and of creating connections across difference. The student will be introduced to rhetorical theory and will have the opportunity to apply their creativity to a range of assignments from storytelling to crisis speech making..

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

Prerequisites

CMST& 220 (Public Speaking) or instructor permission

CMST 330 : Organizational Communication

This course explores organizational communication principles. Students will learn techniques for improving organizational communication through exploration of various communication topics including public relations and marketing, leadership functions, dispute resolution, coaching and mentoring, motivation and influence, perception, goal setting, emotional intelligence, growth mindset, diversity, and global perspectives. It is vital to recognize the ways in which communication choices shape organizational structures, goals, cultures, policies, problems, membership, ethics, and employee

behavior. In this course, you will learn effective communication needed in professional and volunteer groups. You will engage in interactive exercises and practical application of theory, practicing skills you will need to improve organizations, and the lives of its members and stakeholders.

Credits 5

Lecture Hours 55

Lab Hours 0

Prerequisites

CMST & 210 Interpersonal Communication or CMST & 220 Public Speaking. Bachelor of Applied Science -Applied Management program admission.

Computer Science

email: computerscience@bigbend.edu

The Computer Science program offers industry-recognized training for high-demand careers in various sectors of information technology at Big Bend Community College. Students can earn associate degrees, short-term certificates, or take courses for transfer to a four-year college or University.

Current Department of Labor statistics indicate that 8 of the 9 fastest growing occupations will be in the area of Information Technology. According to Money Magazine, 23 of the top 100 best jobs in America are in the Information Technology sector in fields such as Network Administrator, IT Specialist, Software Developer, Software Tester, Information Systems Security, IT Manager, Web Master, and Programmer.

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 include an Associate in

Computer Science DTA/MRP and a Systems Administration, Associate in Applied Science degree.

Certificate options include Cisco Networking Certificate of Achievement and Certificate of Accomplishment, Computer Support Specialist Certificate of Accomplishment, a Network Support Specialist Certificate of Accomplishment, and a Systems Administration Certificate of Achievement.

Big Bend Community College's CS Department is a Microsoft Data Center Academy, a CompTIA Academic Partner, a Cisco Networking Academy, and an active member of the National Cybersecurity Training & Education Center (NCyTE). We work with these and other organizations worldwide to ensure that our program is relevant to and meeting industry needs.

Systems Administration, AAS

Degree Type

Associate in Applied Science

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, trouble shoot systems and network problems, and manage system security.

Students are trained in technical support of PC systems and in administration of Windows Server and Linux server based operating systems. All types of industries and businesses including data centers, hospitals, school districts, corporations and governments that use networked computers, servers, and online tools require systems administration skills.

Students develop skills to:

- Install, upgrade, and repair stand-alone computers

- Install, wire, configure, administer, maintain, and troubleshoot Local Area Networks
- Setup and configure network protocols
- Install, configure, maintain and troubleshoot routers and switches
- Maintain and troubleshoot systems and network security (cybersecurity) protocols
- The program prepares students to take industry certification exams in CompTIA A+, Network+, Microsoft Technology Associate (MTA), Microsoft Certified Solutions Associate (MCSA), Cisco Certified Network Associate (CCENT and CCNA) and others

Program Learning Outcomes:

- IO1 Communication
Communicate clearly and effectively within a workplace context.
- IO2 Quantitative Reasoning
Analyze and solve computational problems using a modern program language.
- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.
- PO4 Demonstrate the ability to build, upgrade, and repair computer hardware
- PO5 Configure, troubleshoot, and administer computer networks and networking hardware
- PO6 Deploy and manage server hardware and software to support organizational operations and goals
- PO7 Identify basic components of databases, virtualization, security, and project management

The following schedule of courses is the recommended program for completing this degree. See a program advisor for substitute courses.

First Year

Fall Quarter

Course Code	Title	Credits
CS 104	Intro to Computer Hardware	3
CS 105	Intro to Computer Operating Systems	3
CS 110	Networking Fundamentals	4
	ENGL 109 or ENGL& 101	3
WKED 101	Professional Preparation - Occupation Specific I	1

Winter Quarter

Course Code	Title	Credits
CS 120	A+ Prep & Certification	1-2
CS 205	Windows Server Administration	5
MATH& 141	Precalculus I	5
	PSYC& 100 or SOC& 101	5
WKED 102	Professional Preparation - Occupation Specific II	1

Spring Quarter

Course Code	Title	Credits
CS 121	Network+ Prep & Certification	1
CS 171	Cisco Networking: Intro to Networks	6
CS 206	Linux Server Administration	5
	CMST& 220 or CMST& 210	5
FAD 150	Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens	2
WKED 103	Professional Preparation - Occupation Specific III	1-3

Second Year

Fall Quarter

Course Code	Title	Credits
CS 106	Intro to Virtualization	5
CS 111	Intro to Programming	5
	Approved Elective (5 credits)	5

Winter Quarter

Course Code	Title	Credits
CS 115	Intro to Database Design & Management	5
CS 172	Cisco Networking: Routing, Switching, & Wireless Essentials	6
CS 207	Introduction to Security Administration	5

Spring Quarter

Course Code	Title	Credits
	CS& 131 or CS& 141	5
CS 173	Cisco Networking: Enterprise Networking, Security, and Automation	6
Total Credits		93-96

Cisco Networking Academy Certificate of Accomplishment

Degree Type

Certificate

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.

Program Learning Outcomes:

- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills

Required Courses

Course Code	Title	Credits
CS 171	Cisco Networking: Intro to Networks	6
CS 172	Cisco Networking: Routing, Switching, & Wireless Essentials	6
CS 173	Cisco Networking: Enterprise 6 Networking, Security, and Automation	6
Total Credits		18

Cisco Networking Certificate of Achievement

Degree Type

Certificate

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 general education requirements and, if desired, can continue training and apply all earned certificate of achievement credits to the Associate in Applied Science degree.

Program Learning Outcomes:

- IO1 Communication
Communicate clearly and effectively within a workplace context
- IO2 Quantitative Reasoning
Analyze and solve computational problems using a modern program language
- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills

- PO4 Demonstrate the ability to build, upgrade, and repair computer hardware
- PO5 Configure, troubleshoot, and administer computer networks and networking hardware
- PO8 Configure WAN technologies and network services required by converged applications in a complex network
- PO9 Troubleshoot routers & switches; resolve common VLAN routing issues in both IPv4 & IPv6 networks

Required Courses

Course Code	Title	Credits
CS 104	Intro to Computer Hardware	3
CS 105	Intro to Computer Operating Systems	3
CS 110	Networking Fundamentals	4
CS 121	Network+ Prep & Certification	1
CS 171	Cisco Networking: Intro to Networks	6
CS 172	Cisco Networking: Routing, Switching, & Wireless Essentials	6
CS 173	Cisco Networking: Enterprise 6 Networking, Security, and Automation	6
	CMST& 220 or CMST& 210	5
ENGL 109	Applied Technical Writing	3
FAD 150	Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens	2
	MATH& 141 or MAP 117	5
	PSYC& 100 or SOC& 101	5
Total Credits		49

Desktop Support Specialist Certificate of Accomplishment

Degree Type

Certificate

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.

Program Learning Outcomes:

- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills

Required Courses

Course Code	Title	Credits
CS 103	Intro to Computer Hardware & Operating Systems	6
CS 116	Networks & Network Security I	3
CS 117	Networks & Network Security II	3
CS 120	A+ Prep & Certification	1-2
CS 171	Cisco Networking: Intro to Networks	6
CS 205	Windows Server Administration	5
CS 206	Linux Server Administration	5
Total Credits		30

Systems Administration Certificate of Achievement

Degree Type

Certificate

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 gain the necessary skills to prepare for and take industry recognized computer certification exams in CompTIA A+, Microsoft MTA, and Cisco CCENT.

Students take general education requirements in math, English, and communication and, if desired, can continue training and apply all earned credits to the Associate in Applied Science degree.

Program Learning Outcomes:

- IO1 Communication
Communicate clearly and effectively within a workplace context.
- IO2 Quantitative Reasoning
Reason mathematically using methods appropriate to the profession
- IO3 Human Relations/Workplace Skills?
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.
- PO4 Demonstrate the ability to build, upgrade, and repair computer hardware
- PO5 Configure, troubleshoot, and administer computer networks and networking hardware
- PO6 Deploy and manage server hardware and software to support organizational operations and goals

Required Courses

Course Code	Title	Credits
	CMST& 220 or CMST& 210	5
CS 104	Intro to Computer Hardware	3
CS 105	Intro to Computer Operating Systems	3
CS 110	Networking Fundamentals	4
CS 120	A+ Prep & Certification	1-2
CS 121	Network+ Prep & Certification	1
CS 171	Cisco Networking: Intro to Networks	6
CS 205	Windows Server Administration	5
	Approved CS Elective (5 credits)	5
	ENGL 109 or ENGL& 101	3
FAD 150	Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens	2
MATH& 141	Precalculus I	5
	MATH& 141 or MAP 117	5
	PSYC& 100 or SOC& 101	5
	Total Credits	45

Computer Science Transfer Associate in Computer Science DTA/MRP

Degree Type

Direct Transfer Agreement/Major Related Program

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

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

Program prerequisites:

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

Associate in Computer Science DTA/MRP (95 credits^)

Program Learning Outcomes:

- IO1 Communication
Students will be able to communicate clearly and effectively.
- IO2 Quantitative Reasoning
Students will be able to reason mathematically.
- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.
- PO4 Students will be able to recognize or articulate personal/interpersonal aspects of, or connections between, diverse cultural, social, or political contexts.
- PO5 Students will be able to solve problems by gathering, interpreting, combining and/or applying information from multiple sources.

Degree Requirements:

To earn the Associate in Computer Science DTA MRP degree, a student must:

- Complete their degree within three years from the quarter of entry based on the catalog in use at time of entering BBCC. After that date, students must meet any changes in graduation.
- Complete at least 90 transferable credits in designated courses numbered 100 or above with a grade point average (GPA) of 2.0 or higher.
- Earn a grade of at least a 1.0 in each college level course used in the degree.
- Complete and submit an application for graduation to the Student Administrative Support Services Office before a degree with be awarded.

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

The 90 transferable credits must include the following:

Basic Requirements Communication Skills

Course Code	Title	Credits
ENGL& 101	English Composition I	5
	ENGL& 235 or ENGL& 102	5

Quantitative Skills

Symbolic or Quantitative Reasoning

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

Course Code	Title	Credits
MATH& 151	Calculus I	5

Breadth Requirements

Humanities

Select from at least two of the disciplines listed on the Humanities distribution list with no more than 10 credits from any one discipline. No more than 5 credits in foreign language at the 100 level may apply to this category. No more than 5 credits in humanities performance/skill credits (HP) may apply to this requirement.

Recommended:

Course Code	Title	Credits
PHIL 210	Ethics	5
PHIL& 120	Symbolic Logic	5
	Student choice for remaining 5 credits in this category	5

Social Science

Select from at least two of the disciplines listed on the Social Science distribution list

Course Code	Title	Credits
	ECON& 201 or 202	5
	Student Choice for Remaining Credits in this Category (10 credits)	10

Natural Science

Select from at least two of the disciplines listed on the Natural Science distribution list

Course Code	Title	Credits
PHYS& 221	Engineering Physics I w/Lab	5
PHYS& 222	Engineering Physics II w/Lab	5
MATH& 152	Calculus II	5

Major Core Requirements

Course Code	Title	Credits
	CS& 131 or CS& 141	5
	CS 132 or 142	5
CS 111	Intro to Programing	5
CS 235	Data Structures and Algorithms with C++	5
MATH& 153	Calculus III	5
MATH& 254	Calculus IV	5

University Specific Requirements

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

Course Code	Title	Credits
PHYS& 223	Engineering Physics III w/Lab	5
MATH 220	Linear Algebra	5
MATH 230	Differential Equations	5
ENGR 202	Design of Logic Circuits	6

Physical Education/Health & Wellness

No more than 3 PEH AC credits may be used in the degree.

Course Code	Title	Credits
	Three PEH Activity [AC] Credits	3
PEH 100	Lifetime Wellness	3
PEH 178	Principles of Fitness	3

General Electives

Some recommendations:

Course Code	Title	Credits
MATH& 146	Introduction to Statistics	5
MATH& 141	Precalculus I	5
MATH& 142	Precalculus II	5

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

* Some universities may require more classes to meet prerequisites.

Program Major Requirements:

This is a complicated DTA degree with many university-specific requirements. Students must see their advisor for these university-specific requirement. Any course without an "&" requires approval. Other classes may be accepted or substituted. Refer to the Humanities and Social Science Distribution lists to help you choose classes within the distribution categories that meets your educational goals and interests. Refer to the Departments and Programs of Study pages for a full listing of courses in each discipline and which quarter each course will be taught; ask your advisor to help you.

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

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

First Year

Fall Quarter

Course Code	Title	Credits
CS 111	Intro to Programing	5
ENGL& 101	English Composition I	5
MATH& 141	Precalculus I	5

Winter Quarter

Course Code	Title	Credits
	CS& 131 or CS& 141	5
	ENGL& 235 or ENGL& 102	5
MATH& 142	Precalculus II	5

Spring Quarter

Course Code	Title	Credits
	CS 132 or 142	5
	Humanities or Social Science (5 credits)	5
MATH& 151	Calculus I	5

Second Year

Fall Quarter

Course Code	Title	Credits
	Humanities or Social Science (5 credits)	5
MATH& 152	Calculus II	5
PHYS& 221	Engineering Physics I w/Lab	5
MATH& 146	Introduction to Statistics	5

Winter Quarter

Course Code	Title	Credits
	Humanities or Social Science (5 credits)	5
	MATH& 153 and MATH& 254	5-10
MATH 220	Linear Algebra	5
PHYS& 222	Engineering Physics II w/Lab	5

Spring Quarter

Course Code	Title	Credits
	Humanities or Social Science (5 credits)	5
	Humanities or Social Science (5 credits)	5
PHYS& 223	Engineering Physics III w/Lab	5

^Some universities may require more classes to meet prerequisites.

*Math and English Requirements

- Any course without an & requires approval
- See advisor for university-specific requirements
- Gonzaga, Heritage, and WSU require a Discreet Math (Structures) prerequisite that is not currently offered at Big Bend Community College.
- MATH 230 Differential Equations (Gonzaga)
- MATH& 254 Calculus IV (Gonzaga, WSU)
- CS 235 Data Structures & Algorithms (WSU)
- ENGR 202 Design of Logic Circuits (EWU)
- Other classes may be accepted or substituted with approvals

**Humanities and Social Science Requirements

- Social Sciences: Must include courses from three different disciplines (15 credits)
- Humanities: At least two disciplines. No more than 5 credits in 100 level foreign language. Maximum of 5 humanities performance/skill credits may be applied to breadth (15 credits)
- Any course without an & requires approval
- See advisor for university-specific requirements
 - CMST& 210 Interpersonal Communications
 - PHIL& 120 Symbolic Logic (Gonzaga, WSU)
 - PHIL 120 Ethics (EWU)
 - ECON& 201 Micro Economics (WSU-Vancouver)
 - ECON& 202 Macro Economics (WSU-Vancouver)
 - PSYC& 100 General Psychology
 - SOC& 101 Intro to Sociology
- Other classes may be accepted or substituted with approval

Total Credits

90

Computer Science Course Descriptions

CS& 131 : Computer Science I: C++

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.

Distribution

Specified Elective

Credits 5

Lecture Hours 22

Lab Hours 66

Prerequisites

MATH& 141 or concurrent enrollment.

Quarters Offered

Winter

CS& 141 : Computer Science I: Java

An introduction to computer programming using the Java programming language. Students learn algorithm development and computational problem solving while writing Java programs. Language features that are studied include keywords, variables, data types, control structures, arrays, methods, classes, and objects.

Distribution

Specified Elective

Credits 5

Lecture Hours 22

Lab Hours 66

Prerequisites

MATH& 141 or concurrent enrollment.

CS 101 : Intro to Computer Science

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.

Distribution

Specified Elective

Credits 3

Lecture Hours 33

Quarters Offered

Spring

CS 103 : Intro to Computer Hardware & Operating Systems

This course covers basic concepts of computing hardware and operating systems (O/S) design structure, and mechanisms. Coursework will address the impact of hardware design on applications and systems software including computer software systems performance, memory, kernel structure, input/output (I/O) devices, file system functions, virtualization, and securing the operating system. Students will learn how computers work, how to replace parts and upgrade components, and how to install and configure major modern client operating systems. Students completing CS 103 have the knowledge and skills necessary for CompTIA A+ Certification exam preparation.

Credits 6

Lecture Hours 44

Lab Hours 44

Prerequisites

CS 104 : Intro to Computer Hardware

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.

Credits 3

Lecture Hours 22

Lab Hours 22

Quarters Offered

Fall, Winter

CS 105 : Intro to Computer Operating Systems

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.

Credits 3

Lecture Hours 33

Quarters Offered

Fall, Winter

CS 106 : Intro to Virtualization

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.

Credits 5

Lecture Hours 44

Lab Hours 22

Prerequisites

[CS 103](#) or [CS 105](#)

Quarters Offered

Fall

CS 110 : Networking Fundamentals

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.

Credits 4

Lecture Hours 33

Lab Hours 22

Quarters Offered

Fall, Winter

CS 111 : Intro to Programming

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

Credits 5

Lecture Hours 22

Lab Hours 66

Prerequisites

Completion of [MATH 098](#)/[MAP 119](#) or concurrent enrollment or a higher placement.

Quarters Offered

Fall, Spring

CS 115 : Intro to Database Design & Management

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.

Credits 5

Lecture Hours 22

Lab Hours 66

Quarters Offered

Winter

CS 116 : Networks & Network Security I

An introduction to computer and device networking is required by anyone becoming involved in any technical field. Today's personal computers, microcontrollers and PLCs no longer work in isolation. They constantly exchange a variety of information through wired and wireless networks. This course will provide a basic understanding of the Theory of Operation, security, technical design, and architecture of network and Internet communication. The course is designed for all audiences, including those with absolutely no prior technical experience or math skills. The Internet is amazingly designed and should be understood by all who use it.

Credits 3

Lecture Hours 22

Lab Hours 22

CS 117 : Networks & Network Security II

This course will provide the operational commands, knowledge, skills, and abilities needed to use, debug, explore, maintain, modify, troubleshoot and defend networks based on the Theory of Operation. The student will learn requisite Command Line Interface (CLI) and Graphical User Interface (GUI) skills and utilities for Windows and Linux networking utilities. These skills are required to successfully support personal and organizational networks, data centers, and internet connectivity. The course will build on network security and add internet, WiFi, industrial and organizational security including firewalls, Industry 4.0, Industrial Internet of Things (IIoT), Internet of Things (IoT), Long Range (LoRa). Learning experiences will be augmented by learning to setting up several small, functional desktop networks at home or in the lab. Student ownership of a small home lab equipment setup will be covered by class lab fees.

Credits 3

Lecture Hours 22

Lab Hours 22

Prerequisites

CS 116: Networks & Network Security I

CS 120 : A+ Prep & Certification

This course is intended for students taking the CompTIA A+ certification exam. Content from the prerequisite courses will prepare the students for the exams. Instructors for this course will provide materials, support, and practice exams to facilitate student preparation

Credits 1

-2

Lab Hours 22

-44

Prerequisites

[CS 103](#) or [CS 104](#) and [CS 105](#) or instructor permission.

Quarters Offered

Fall, Winter, Spring, Summer

CS 121 : Network+ Prep & Certification

This course is intended for students taking the CompTIA Network+ certification exam. Students will have materials, support, and practice exams provided to facilitate their preparation.

Credits 1

Lab Hours 22

Prerequisites

[CS 110](#) or [CS 116](#) & [CS 117](#)

Quarters Offered

Fall, Winter, Spring, Summer

CS 122 : Server+ Prep & Certification

This course is intended for students taking the CompTIA Server+ certification exam. Students will have materials, support, and practice exams provided to facilitate their preparation.

Credits 1

Lab Hours 22

Prerequisites

[CS 205](#) and [CS 206](#) or instructor permission.

CS 123 : Security+ Prep & Certification

This course is intended for students taking the CompTIA Security+ certification exam. Students will have materials, support, and practice exams provided to facilitate their preparation.

Credits 1

Lab Hours 22

Prerequisites

[CS 207](#) or instructor permission

CS 124 : Cloud+ Prep & Certification

This course is intended for students taking the CompTIA Cloud+ certification exam. Students will have materials, support, and practice exams provided to facilitate their preparation.

Credits 1

Lab Hours 22

Prerequisites

Instructor permission.

CS 132 : Advanced Programming with C++

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.

Distribution

Specified Elective

Credits 5

Lecture Hours 22

Lab Hours 66

Prerequisites

CS& 131: Computer Science I: C++

Quarters Offered

Fall, Winter, Spring

CS 142 : Advanced Programming with Java

This course expands on the programming fundamentals covered in [CS& 141](#). Students learn to develop advanced object-oriented Java programs of increasing complexity using advanced design and data abstraction techniques. Language concepts explored include recursion, inheritance, polymorphism, exception handling, interfaces, file processing and graphical programs.

Distribution

Specified Elective

Credits 5

Lecture Hours 22

Lab Hours 66

Prerequisites

CS& 141: Computer Science I: Java

Quarters Offered

Fall

CS 151 : Introduction to Digital Forensics

This course is an introduction to the methods used to properly conduct a computer forensics investigation. Topics covered include an overview of computer forensics as a profession; how computer crime affects forensics, forensic methods, and labs; branches of digital forensics; email forensics, mobile forensics, data acquisition and analysis; and, a review of computer forensics tools.

Credits 5

Lecture Hours 33

Lab Hours 44

Prerequisites

[CS 103](#) or [CS 105](#) and either [CS 110](#) or [CS 116](#)

CS 152 : Ethical Hacking

This course is an introduction to Cybersecurity. There is an exponential growth in the Information Technology sector for trained security specialists with in-depth knowledge and experience analyzing data and securing networks, computers and mobile devices. Learning techniques of threat management is mission critical to prevent data breaches. This course prepares students for an entry level IT position focused on cybersecurity which is required for many Information System Technician, Network Administration, and other IT Specialist positions.

Credits 5

--1

Lecture Hours 31

Lab Hours 44

Prerequisites

[CS 103](#) or [CS 105](#) and either [CS 110](#) or [CS 116](#)

CS 171 : Cisco Networking: Intro to Networks

This course introduces the architectures, models, protocols, and networking elements that connect users, devices, applications and data through the Internet and across modern computer networks – including IP addressing and Ethernet fundamentals. This is the first of three courses

comprising the Cisco CCNAV7 curricula and covers the technical knowledge and skills required to take the Cisco CCNA exam.

Credits 6

Lecture Hours 44

Lab Hours 44

Prerequisites

[CS 103](#) or [CS 104](#) and [CS 105](#)

CS 172 : Cisco Networking: Routing, Switching, & Wireless Essentials

This course focuses on switching technologies and router operations that support small-to-medium business networks and includes wireless local area networks (WLANs) and security concepts. Students learn key switching and routing concepts. By the end of this course, students will be able to perform basic network configuration and troubleshooting, identify and mitigate LAN security threats, and configure and secure a basic WLAN. This is the second of three courses comprising the Cisco CCNAV7 curricula and covers the technical knowledge and skills required to take the Cisco CCNA exam.

Credits 6

Lecture Hours 44

Lab Hours 44

Prerequisites

CS 171: Cisco Networking: Intro to Networks

CS 173 : Cisco Networking: Enterprise Networking, Security, and Automation

This course helps students develop workforce readiness skills and build a foundation for success in networking-related careers and degree programs. Students learn, apply, and practice CCNA knowledge and skills through a series of in-depth hands-on experiences and simulated activities including comprehensive networking concepts and skills, from network applications to the protocols and services provided to those applications. Upon completion of [CS 171](#), CS172, and CS 173, learners will be prepared to take the Cisco CCNA Unified certification exam.

Credits 6

Lecture Hours 44

Lab Hours 44

Prerequisites

CS 172: Cisco Networking: Routing, Switching, & Wireless Essentials

CS 195 : Internship: Work Based Learning

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.

Credits 1

-4

Clinical Hours 33

-132

Prerequisites

Enrollment in Computer Science program, instructor permission, and concurrent enrollment in [CS 197](#).

CS 197 : Internship: Work Based Learning Seminar

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

Credits 1

Lecture Hours 11

Prerequisites

Concurrent enrollment in [CS 195](#)

CS 205 : Windows Server Administration

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.

Credits 5

Lecture Hours 44

Lab Hours 22

Prerequisites

[CS 103](#) or [CS 105](#) and either [CS 110](#) or [CS 116](#)

Quarters Offered

Winter, Spring

CS 206 : Linux Server Administration

In 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. (Formerly UNIX/Linus Server Administration)

Credits 5**Lecture Hours** 44**Lab Hours** 22**Prerequisites**

[CS 103](#) or [CS 105](#), [CS 205](#) recommended

Quarters Offered

Spring, Summer

CS 207 : Introduction to Security Administration

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.

Credits 5**Lecture Hours** 55**Prerequisite or Corequisite**

[CS 103](#) or [CS 105](#) and either [CS 110](#) or [CS 116](#)

Prerequisites

[CS 105](#) and [CS 110](#), or instructor permission.

Quarters Offered

Winter

CS 211 : Intro to Scripting

An introductory scripting course. Students will explore the fundamental principles of scripting and learn to write and debug simple scripting language to add functionality to programs. Topics for study include input/output, operations, pipes, shell variables, control structures, file input and output, regular expressions, and navigation within a file system

Distribution

Specified Elective

Credits 3**Lecture Hours** 11**Lab Hours** 44**Prerequisites**

Recommend [CS 111](#), Linux experience, or instructor permission

CS 221 : Intro to Web Development

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 and HTML5, Cascading Style Sheets (CSS), and Javascript 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. 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, and debug and troubleshoot JavaScript.

Credits 5**Lecture Hours** 22**Lab Hours** 66**Prerequisites**

Completion of [CS 111](#) or CS 141 or concurrent enrollment.

Quarters Offered

Winter

CS 222 : Full-Stack Web Development

This course covers the technical knowledge and skills needed to publish and manage a web application. Students will use a web development stack to create a front-end web page, create a server to manage the web application using CRUD requests, and design back-end programs that bridge communication between the front-end and server. Basic user experience and user interface topics will be studied.

Credits 5**Lecture Hours** 22**Lab Hours** 66**Prerequisites**

Completion of [CS 221](#) and [CS 115](#).

Quarters Offered

Spring

CS 235 : Data Structures and Algorithms with C++

The 3rd course in a yearlong study of the foundations of Computer Science. In this course a variety of data structures and their associated algorithms are implemented and utilized. Basic data structures such as arrays, linked lists, stacks, queues, sets, and trees are studied and applied to problems in data storage and manipulation. Basic sorting algorithms are studied. Design, analysis and implementation techniques are discussed to illustrate and apply the concepts of the course.

Credits 5

Lecture Hours 22

Lab Hours 66

Prerequisites

[CS 132](#) or Instructor Permission.

Quarters Offered

Fall, Winter, Spring

CS 245 : Data Structures and Algorithms with Java

The 3rd course in a yearlong study of the foundations of Computer Science. In this course a variety of data structures and their associated algorithms are implemented and utilized. Basic data structures such as arrays, linked lists, stacks, queues, sets, and trees are studied and applied to problems in data storage and manipulation. Basic sorting algorithms are studied. Design, analysis, and implementation techniques are discussed to illustrate and apply the concepts of the course.

Credits 5

Lecture Hours 22

Lab Hours 66

Prerequisites

[CS 142](#) or Instructor permission

CS 260 : Computer Programming Topics

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.

Credits 5

Lecture Hours 22

Lab Hours 66

Prerequisites

[CS 111](#) or instructor permission.

CS 295 : Internship: Work Based Learning II

Students will participate in an advanced internship with regional computer and information technology employers. Course may be repeated up to 4 credits.

Credits 1

-4

Clinical Hours 33

-132

Prerequisites

[CS 195](#), [CS 197](#), and instructor permission

CS 297 : Internship: Work Based Learning Seminar II

Continuation of internship work based learning seminar. Students will provide feedback and discussion to integrate and relate internship/ work-based learning experience and classroom instruction.

Credits 1

Lecture Hours 11

Prerequisites

[CS 197](#) and instructor permission

Criminal Justice

email: criminaljustice@bigbend.edu

Criminal Justice involves the scientific study of crime. This program is designed to broaden students' awareness of how our society deals with criminals using law enforcement, the courts, and correctional institutions. This area of study is intended for individuals already working within,

or want to work within, the criminal justice system or those who will eventually transfer to four-year college or university.

The world of Criminal Justice is growing in popularity based on scientific advances and the interest that current media has generated. We now understand more about the benefits of science in solving crimes and how certain techniques used in the Criminal Justice System impact its outcomes. If you want to learn more about law enforcement, the courts, or the corrections system, please contact me.

I can give you information about job possibilities in the field. No longer does a criminal justice degree mean that you are becoming only a law enforcement officer. You can now become a forensic scientist, legal psychologist, corrections officer, lawyer, and much, much, more. I would love to chat with you if you are interested in anything related to the justice system and reducing crime.

We have two-degree options that can be tailored to your specific career and academic goals. One degree option will prepare you to go straight into work and the other will prepare you to transfer to a university. Contact me using the information on this page so we can find the program and courses that are right for you. As your advisor, I will sit with you every quarter and help you plan your courses. We will take into account your specific career goals, your current time or financial constraints, and your enthusiasm for particular topics. Email is the best way to reach me; contact me today!

Criminal Justice AAS-T

Degree Type

Associate in Applied Science-Transfer

The Criminal Justice Workforce Program is designed to develop the proficiencies and skills

necessary to obtain entry-level employment in Criminal Justice related career paths. Job possibilities after completing this degree include but are not limited to entry-level police officer, corrections officer in a prison or jail, or other criminal justice job that requires a 2-year degree or less.

This program assists the development of skills that employers are looking for and was specifically designed not to teach specific police or corrections tactics but to give a well-rounded foundation to any criminal justice related career.

Program Learning Outcomes:

- IO1 Communication
Execute effective oral and written communication skills related to their discipline (e.g., report writing)
- IO2 Quantitative Reasoning
Execute mathematical reasoning using methods appropriate to the profession
- IO3 Human Relations/Workplace Skills
Explain ethical decision making and know why high personal ethics is vital in criminal justice
- PO4 Identify what is required to enter various Criminal Justice careers including knowledge, skills, abilities, physical fitness and agency specific standards
- PO5 Demonstrate an understanding of the role and structure of leadership in Criminal Justice and how to employ leadership techniques

The following recommended courses will prepare students for most entry-level positions. Students should prepare their quarterly schedules with the assistance of an advisor knowledgeable in their area of study so that any needed substitutions can be made. The recommended courses prepare students for most baccalaureate institutions. Degree Requirements will vary with each college.

Required Program Courses

Course Code	Title	Credits
CJ 217	Advanced Report Writing	3
CJ& 101	Intro Criminal Justice	5
CJ& 105	Introduction to Corrections	5
CJ& 106	Juvenile Justice	5
CJ& 110	Criminal Law	5
CJ 210	Introduction to American Policing	5
	CMST& 220 or CMST& 210	5
ENGL& 101	English Composition I	5
ENGL& 235	Technical Writing	5
FAD 150	Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens	2
	MATH& 107 or MATH& 146	5
	Three PEH Activity [AC] Credits	3
PSYC& 100	General Psychology	5

Criminal Justice Program Approved Electives

Degree requires 32 approved elective credits.

Course Code	Title	Credits
BIOL& 100	Survey of Biology	5
CHEM& 105	Chemical Concepts	5
CHEM& 121	Intro to Chemistry	5
CJ 198	Special Topics	1-2
CJ 203	Police Administration and Leadership	5
CJ 209	Police Psychology	5
CJ 215	Criminal Investigations	5
CJ 295	Work-Based Learning (CJ)	1-8
PHIL 210	Ethics	5
POLS& 203	International Relations	5
NUTR& 101	Nutrition	5
PSYC 225	Psychology and the Legal System	5
PSYC& 200	Lifespan Psychology	5
REL 201	World Religions	5
REL 211	Religion in America	5
SOC& 101	Intro to Sociology	5
UAS 107	Commercial UAS Remote Pilot (Part 107)	2
BIM 104	Intermediate Keyboarding	3
BIM 106	Advance Keyboarding	3
	Total Credits	90

Criminal Justice Course Descriptions

CJ& 101 : Intro Criminal Justice

This course provides an overview of the criminal justice system discussing law enforcement, the courts, corrections, juvenile justice, and current issues. This course examines the Constitutional requirements, historical development of the system, the agencies, processes and theories within the criminal justice system. Emphasis is placed on how the various systems interrelate

and interact with each other to attain the goal of an equitable delivery of crime-related public services

Distribution

Social Science

Credits 5

Lecture Hours 55

Quarters Offered

Fall, Winter, Spring, Summer

CJ& 105 : Introduction to Corrections

This course will examine the historical context, philosophical concepts, and major theories 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 discussed. Emphasis is placed on the effects of the corrections system on the individuals, families, and society (Formerly CJ 220).

Distribution

Specified Elective

Credits 5

Lecture Hours 55

Prerequisites

Completion of CJ& 101 or Instructor Permission

Quarters Offered

Spring

CJ& 106 : Juvenile Justice

This course will cover the history and philosophy of juvenile justice in America and the impact of societal reforms on the juvenile justice system. Multiple theories of delinquency will be discussed, as well as how society's response to criminal behavior influenced the development, construction, and implementation of juvenile justice laws, policies, and programs.

Distribution

Specified Elective

Credits 5

Lecture Hours 55

Prerequisites

CJ& 101: Intro Criminal Justice

Quarters Offered

Winter

CJ& 110 : Criminal Law

This course is designed as an introduction into the study of criminal law and will review the difference between crimes against property, crimes against public, and crimes against a person. This course will study the various mental states required for criminal responsibility and those defenses used in a criminal trial, along with definitions, classifications, elements, and penalties of crime and criminal responsibility.

Distribution

Specified Elective

Credits 5

Lecture Hours 55

Prerequisites

Completion of CJ& 101 or Instructor Permission

Quarters Offered

Winter

CJ 198 : Special Topics

This course provides individual study in one of the criminal justice subject areas. Study and credit hours determined at the time of enrollment by the instructor.

Credits 1

-2

Lecture Hours 11

-22

Prerequisites

Instructor Permission.

CJ 203 : Police Administration and Leadership

This course covers an overview of police organization and administration. Principles of management and effective leadership will be covered in relation to line and staff positions and advancement within a law enforcement career.

Credits 5

Lecture Hours 55

Prerequisites

CJ& 101: Intro Criminal Justice

CJ 209 : Police Psychology

This course introduces theories of perception, emotion, motivation, personality and nonverbal communication used as tools by police officers in everyday contacts. Understanding behavior

and predicting human behavior in common police situations are emphasized. Police family and personal mental health is also covered.

Credits 5

Lecture Hours 55

Prerequisites

PSYC& 100

CJ 210 : Introduction to American Policing

This course examines the role of policing in American society. Theories and practices are covered from historical and contemporary perspectives. This course identifies challenges in law enforcement including the political, social, organizational, and legal environments where the police perform their roles.

Distribution

Specified Elective

Credits 5

Lecture Hours 55

Prerequisites

Completion of CJ& 101 or Instructor Permission

Quarters Offered

Fall

CJ 215 : Criminal Investigations

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.

Credits 5

Lecture Hours 55

Prerequisites

CJ&101 or instructor permission

CJ 217 : Advanced Report Writing

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.

Credits 3

Lecture Hours 33

Prerequisites

[ENGL& 235](#) - Technical Writing.

Quarters Offered

Spring

CJ 295 : Work-Based Learning (CJ)

Supervised, non-paid, work experience in a government or municipal agency involving the application of classroom information and skills. This course may be repeated for up to 8 credits. Credits will be directly related to number of hours worked.

Credits 1

-8

Clinical Hours 33

-264

Prerequisites

Instructor permission

CJ 297 : Work-Based Learning Seminar

Feedback and discussion to integrate and relate work based learning and classroom based instruction. This course may be repeated for up to 8 credits.

Credits 11

Lecture Hours 11

Corequisites

[CJ 295](#) - Work Based Learning, and Instructor Permission

Early Childhood Education

email: education@bigbend.edu

The Early Childhood Education Program (ECE) offers certificates to meet the requirements of Steps 5, 6, 7 of Level 2 on the Washington State Career Lattice for Early Care and Education Professionals. Students 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 State Early Childhood Education Certificate (54 credits--Step 7). The credits earned in the “State Early Childhood Education Certificate” apply toward the **90+**-credit Associate in Applied Science in Early Childhood Education degree (Steps 8 & 9).

Many of the ECE courses are offered once a year; however, classes are offered in the evening and online to allow individuals to work and attend school.

Early Childhood Education AAS

Degree Type

Associate in Applied Science

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.

Program Learning Outcomes:

IO1 Communication: Students will be able to communicate clearly and effectively within a workplace context

IO2 Quantitative Reasoning: Students will be able to reason mathematically using methods appropriate to the profession

IO3 Human Relations/Workplace Skills: Evaluate and analyze an early care and education setting while serving families in a professional manner.

PO4 Explain how children develop physically, cognitively, and socially with particular attention to language acquisition, equity of care and trauma prevention.

PO5 Analyze how trauma informed methods, equitable relationships with children along with

positive and equitable learning environments ensure the health, growth and safety of children in the following domains: physical, cognitive, and social-emotional.

Program Requirements

- High School Diploma or GED (if applying for Financial Aid)
- Pass Washington State Patrol background check or a Washington State Department of Children, Youth and Families background check
- Complete Tuberculin skin test
- Obtain Washington Education Liability Insurance (if applicable)
- Maintain an overall 2.0 GPA (if receiving Financial Aid and to earn degree)

See a program advisor for substitute courses.

Required Courses

Course Code	Title	Credits
CSS 100	Charting Your Course: College Essentials	3
	CMST& 220 or CMST& 210	5
ECED& 105	Intro Early Child Ed	5
ECED& 107	Health/Safety/Nutrition	5
ECED& 120	Practicum-Nurturing Rel	2
ECED 122	Science and Math for Young Children	4
ECED& 132	Infants/Toddlers Care	3
ECED& 160	Curriculum Development	5
ECED& 170	Environments-Young Child	3
ECED& 180	Lang/Literacy Develop	3
ECED& 190	Observation /Assessment	3
EDUC& 115	Child Development	5
EDUC& 130	Guiding Behavior	3
EDUC& 150	Child/Family/Community	3
EDUC 190	Classroom Experience	5
EDUC 198	Special Topics	0-5
EDUC& 202	Intro to Education	5
EDUC& 204	Inclusive Education	5
ENGL& 101	English Composition I	5
FAD 150	Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens	2
HUM 220	Diversity in Education	5
	MAP 117 or higher	
PSYC& 100	General Psychology	5
	Advisor Approved Electives/ Transfer Courses	

Approved Electives

Course Code	Title	Credits
PSYC& 200	Lifespan Psychology	5
ENGL& 102	Composition II	5
	Total Credits	90-95

Early Childhood Education AAS-T Degree Type

Associate in Applied Science-Transfer

Program Learning Outcomes:

- IO1 Communication
Students will be able to communicate clearly and effectively within a workplace context
- IO2 Quantitative Reasoning
Students will be able to reason mathematically using methods appropriate to the profession
- IO3 Human Relations/Workplace Skills
Establish, implement, evaluate and analyze an early care and education setting (Program Planning and Development)
- PO4 Explain how children develop physically, cognitively, and socially with particular attention to language acquisition, equity of care and trauma prevention
- PO5 Analyze how trauma informed methods, equitable relationships with children along with positive and equitable learning environments ensure the health, growth and safety of children in the following domains: physical, cognitive, and social-emotional.

Eastern Washington University P-3 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 into the Education program to complete a Bachelor of Arts in Early Childhood Education with Preschool-Grade 3 teaching certification 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. In addition to completing the AAS-T degree, students must also complete the West B Exam prior to acceptance into the ECE program at EWU.

Students must pass either a Washington State Patrol or a Washington State Department of Children, Youth, and Families background check prior to enrolling in ECED&120-Practicum.

Students are also required to provide results of a Tuberculin skin test and obtain Washington Education Association liability insurance (if applicable), prior to enrolling in ECED& 120-Practicum.

See a program advisor for a list of classes for the Pre - EWU P-3 AAS-T degree (93+ Credits)

Required Courses

Course Code	Title	Credits
	CMST& 220 or CMST& 210	5
ECED& 105	Intro Early Child Ed	5
ECED& 120	Practicum-Nurturing Rel	2
ECED 122	Science and Math for Young Children	4
ECED& 160	Curriculum Development	5
ECED& 170	Environments-Young Child	3
ECED& 180	Lang/Literacy Develop	3
ECED& 190	Observation /Assessment	3
EDUC& 115	Child Development	5
EDUC& 130	Guiding Behavior	3
EDUC& 150	Child/Family/Community	3
EDUC 190	Classroom Experience	5
EDUC& 204	Inclusive Education	5
ENGL& 101	English Composition I	5
ENGL& 102	Composition II	5
	Non-lab Science or Lab Science (5 credits)	5
FAD 150	Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens	2
	Non-lab Science or Lab Science (5 credits)	5
HUM 220	Diversity in Education	5
MATH& 107	Math in Society	5
PSYC& 100	General Psychology	5
PSYC& 200	Lifespan Psychology	5
	Total Credits	93

State Early Childhood Education Certificate of Achievement

Degree Type

Certificate

Program Learning Outcomes:

IO1 Communication: Students will be able to communicate clearly and effectively within a workplace context

IO2 Quantitative Reasoning: Students will be able

to reason mathematically using methods appropriate to the profession

IO3 Human Relations/Workplace Skills; Evaluate and analyze an early care and education setting while serving families in a professional manner.

PO4 Explain how children develop physically, cognitively, and socially with particular attention to language acquisition, equity of care and trauma prevention.

PO5 Analyze how trauma informed methods, equitable relationships with children along with positive and equitable learning environments ensure the health, growth and safety of children in the following domains: physical, cognitive, and social-emotional

Required Courses

Course Code	Title	Credits
CMST& 220	Public Speaking	5
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 Develop	3
ECED& 190	Observation /Assessment	3
EDUC& 115	Child Development	5
EDUC& 130	Guiding Behavior	3
EDUC& 150	Child/Family/Community	3
ENGL& 101	English Composition I	5
FAD 150	Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens	2
	MAP 117	5
	Total Credits	54

State Initial Early Childhood Education Certificate of Accomplishment

Degree Type

Certificate

Program and Certificate Learning Outcomes:

- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills

Required Courses

Course Code	Title	Credits
ECED& 105	Intro Early Child Ed	5
ECED& 107	Health/Safety/Nutrition	5
ECED& 120	Practicum-Nurturing Rel	2
	Total Credits	12

State Short Certificate of Specialization – Administration Certificate of Accomplishment

Degree Type

Certificate

Program and Certificate Learning Outcomes:

- IO3 Human Relations/Workplace Skills:
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills

Required Courses

Course Code	Title	Credits
ECED& 105	Intro Early Child Ed	5
ECED& 107	Health/Safety/Nutrition	5
ECED& 120	Practicum-Nurturing Rel	2
ECED& 139	Admin of Early Lrng Prog.	3
EDUC& 115	Child Development	5
	Total Credits	20

State Short Certificate of Specialization – Family Child Care Certificate of Accomplishment

Degree Type

Certificate

Program and Certificate Learning Outcomes:

- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills

Required Courses

Course Code	Title	Credits
ECED& 105	Intro Early Child Ed	5
ECED& 107	Health/Safety/Nutrition	5
ECED& 120	Practicum-Nurturing Rel	2
ECED& 134	Family Childcare Management	3
EDUC& 115	Child Development	5
Total Credits		20

State Short Certificate of Specialization – General Certificate of Accomplishment

Degree Type

Certificate

Program and Certificate Learning Outcomes:

- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills

Required Courses

Course Code	Title	Credits
ECED& 105	Intro Early Child Ed	5
ECED& 107	Health/Safety/Nutrition	5
ECED& 120	Practicum-Nurturing Rel	2
EDUC& 115	Child Development	5
EDUC& 130	Guiding Behavior	3
Total Credits		20

State Short Certificate of Specialization – Home Visitor/ Family Engagement Certificate of Accomplishment

Degree Type

Certificate

Program and Certificate Learning Outcomes:

- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills

Required Courses

Course Code	Title	Credits
ECED& 105	Intro Early Child Ed	5
ECED& 107	Health/Safety/Nutrition	5
ECED& 120	Practicum-Nurturing Rel	2
ECED& 138	Home Visiting & Family Engagement	3
EDUC& 115	Child Development	5
Total Credits		20

State Short Certificate of Specialization – Infant/Toddler Certificate of Accomplishment

Degree Type

Certificate

Program and Certificate Learning Outcomes:

- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills

Required Courses

Course Code	Title	Credits
ECED& 105	Intro Early Child Ed	5
ECED& 107	Health/Safety/Nutrition	5
ECED& 120	Practicum-Nurturing Rel	2
ECED& 132	Infants/Toddlers Care	3
EDUC& 115	Child Development	5
Total Credits		20

State Short Certificate of Specialization – School Age Care Certificate of Accomplishment

Degree Type

Certificate

Program and Certificate Learning Outcomes:

- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills

Required Courses

Course Code	Title	Credits
ECED& 105	Intro Early Child Ed	5
ECED& 107	Health/Safety/Nutrition	5
ECED& 120	Practicum-Nurturing Rel	2
EDUC& 115	Child Development	5
EDUC& 136	School Age Care	3
Total Credits		20

Early Childhood Education Course Descriptions

ECED& 105 : Intro Early Child Ed

Explore the foundations of early childhood education. Examine theories defining the field, issues, and trends, best practices, and program

models. Observe children, professionals and programs in action. Course may include fieldwork. (Formerly: ECE 100)

Credits 5

Lecture Hours 55

Quarters Offered

Fall, Winter, Spring

ECED& 107 : Health/Safety/Nutrition

This course introduces basic concepts of equitable health, safety and nutrition standards for the growing child in group care and education programs. Requirements as outlined in Child Care Block Grant funding (CCDF) and state licensing standards for child care providers will be covered including the knowledge and skills to ensure appropriate health, nutritional, and safety practices. In addition, the course will emphasize the skills necessary to recognize signs of child maltreatment, the educator's role as a mandated reporter and the process of identifying and referring families to available community resources. Course may include fieldwork. (Formerly: ECE 105)

Credits 5

Lecture Hours 55

Quarters Offered

Fall, Winter, Spring

ECED& 120 : Practicum-Nurturing Rel

In an early learning setting, engage in establishing nurturing, supportive relationships with all children and professional peers. Focus on children's health & safety, promoting growth & development, and creating a culturally responsive environment. Students are required to complete 33 hours of child observations and interactions in a preschool classroom environment.

Credits 2

Lecture Hours 11

Clinical Hours 33

Prerequisites

[ECED& 105](#) and instructor permission. Prior to registering for this course, students must pass a Washington State Department of Children, Youth, and Families background check, provide results

of a Tuberculin skin test, copy of immunization records, and obtain Washington Education Association liability insurance, if applicable.

Quarters Offered

Fall, Winter, Spring

ECED& 132 : Infants/Toddlers Care

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. Course may include fieldwork. (Formerly: ECE 108)

Credits 3

Lecture Hours 33

Quarters Offered

Winter, Spring

ECED& 134 : Family Childcare Management

Learn how to manage a family childcare program. Topics include: licensing requirements, record-keeping, relationship building, communication strategies, guiding behavior, and promoting growth and development. Course may include fieldwork.

Credits 3

Lecture Hours 33

Prerequisites

Instructor permission.

Quarters Offered

Summer

ECED& 138 : Home Visiting & Family Engagement

Plan and provide home visits and group activities that promote secure parent-child relationships and support families to provide high-quality early learning experiences that are embedded in everyday routines and experiences. Course may include fieldwork.

Credits 3

Lecture Hours 33

Prerequisites

Instructor Permission.

Quarters Offered

Summer

ECED& 139 : Admin of Early Lrng Prog.

Develop administrative skills required to develop, open, operate, manage, and improve early childhood education and care programs.

Acquire basic business management skills.

Explore resources and supports for meeting

Washington State licensing and professional

NAEYC standards. Course may include fieldwork.

(Formerly: ECE 160)

Credits 3

Lecture Hours 33

Quarters Offered

Summer

ECED& 160 : Curriculum Development

Investigate learning theory, program planning, tools and methods for curriculum development

promoting language, fine/gross motor, social-

emotional, cognitive and creative skills and

growth in children birth through age 8 utilizing

developmentally appropriate practice. Course

may include fieldwork. (Formerly: ECE 230)

Credits 5

Lecture Hours 55

Prerequisites

ECED 122: Science and Math for Young Children

Quarters Offered

Winter, Fall

ECED& 170 : Environments-Young Child

This class focuses on the adults role in designing, evaluating, and improving indoor and outdoor

environments that ensure quality learning,

nurturing experiences, and optimize the

development of young children. Course may

include fieldwork. (Formerly: ECE 135)

Credits 3

Lecture Hours 33

Quarters Offered

Fall

ECED& 180 : Lang/Literacy Develop

Teaching strategies for language acquisition and literacy skill development are examined at each

developmental stage (birth-age 8) through the

four interrelated areas of speaking, listening,

writing, and reading. Course may include

fieldwork. (Formerly: ECE 250)

Credits 3

Lecture Hours 33

Quarters Offered

Spring

ECED& 190 : Observation /Assessment

Collect and record observation data in order to plan for and support the child, the family, the group and the community. Practice reflection techniques, summarizing conclusions and communicating findings. Course may include fieldwork.

Credits 3

Lecture Hours 33

Prerequisites

ECED& 160: Curriculum Development

Quarters Offered

Winter, Spring

ECED 122 : Science and Math for Young Children

This course provides a study of the cognitive and motor development of young children as it applies to math and science conceptual development. Students will learn to research, create and plan assessment of math and science pedagogy, and develop curriculum and materials for the early childhood learning environment.

Distribution

Specified Elective

Credits 4

Lecture Hours 44

Prerequisites

[ECED& 105](#) or Instructor Permission

Quarters Offered

Fall, Spring

Economics

Terry Pyle

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economics@bigbend.edu

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,

economics education, healthcare, economic development, government, and entrepreneurship. Those planning to enter the field of economics should have above average reading, comprehension, and computational skills.

Since programs differ at each of the four-year colleges, students who intend to transfer should consider program outlines published by the college or university. Students should prepare their quarterly schedules with the assistance of an advisor knowledgeable in this transfer area.

Economics Course Descriptions

ECON& 201 : Micro Economics

Micro economic concepts are applied to business and household decision-making as well as public policy. Major topics include: scarcity and choice, production possibilities, supply and demand analysis, elasticity, consumer choice, production and costs, market structures, antitrust and regulation, and public micro economics..

Distribution

Social Science

Credits 5

Lecture Hours 55

Prerequisites

Strongly recommend completion of [MATH 094](#) or [MAP 117](#) or a higher placement and completion of [ENGL 098](#) or a higher placement..

ECON& 202 : Macro Economics

Introduction to the principles of Macro Economics including unemployment, inflation, aggregate demand/supply, Classical and Keynesian Theories, fiscal and monetary policy tools, money and banking, and current economic problems.

Distribution

Social Science

Credits 5

Lecture Hours 55

Prerequisites

Strongly recommend completion of [MATH 094](#) or [MAP 117](#) or a higher placement and completion of [ENGL 098](#) or a higher placement..

Education

education@bigbend.edu

Education Course Descriptions

EDUC& 115 : Child Development

Build foundation for explaining how children develop in all domains, conception through early adolescence. Explore various developmental theories, methods for documenting growth, and impact of brain development. Topics addressed: stress, trauma, culture, race, gender identity, socioeconomic status, family status, language, and health issues. Course may include fieldwork.

Distribution

Specified Elective

Credits 5

Lecture Hours 55

Quarters Offered

Fall, Winter, Spring, Summer

EDUC& 130 : Guiding Behavior

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. Course may include fieldwork

Credits 3

Lecture Hours 33

Quarters Offered

Fall, Winter, S, Summer

EDUC& 136 : School Age Care

Develop skills to provide developmentally appropriate and culturally relevant activities and care for children ages 5-12 in a variety of settings. Includes implementing curriculum, preparing environments, building relationships,

guiding cognitive and social emotional development as well as community outreach. Course may include fieldwork.

Credits 3

Lecture Hours 33

Prerequisites

Instructor permission.

Quarters Offered

Summer

EDUC& 150 : Child/Family/Community

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. Course may include fieldwork (Formerly EDUC 150)

Credits 3

Lecture Hours 33

Quarters Offered

Fall

EDUC& 202 : Intro to Education

Survey of history, philosophy, principles, issues and trends in American Education. Includes opportunities for observations of educational models and exploration of career paths. Credit cannot be earned in both EDUC& 201 and EDUC& 202. Course may include fieldwork. (Formerly EDUC& 201)

Distribution

Specified Elective

Credits 5

Lecture Hours 55

Prerequisites

Successful completion of ENGL 099 or placement in ENGL& 101..

Quarters Offered

Fall, Winter

EDUC& 204 : Inclusive Education

Introductory course in recognition and identification of exceptionality in children from birth through high school. Includes policies and regulations concerning state and federal provisions of special education and related

services, as well as adaptations for serving students with special needs in general education classrooms. Course may include fieldwork.

Distribution

Specified Elective

Credits 5

Lecture Hours 55

Quarters Offered

Spring

EDUC 190 : Classroom Experience

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 reflect on their experiences. Students are required to assist a classroom teacher for 99 hours. ***Prior to registering for this course, students must pass a Washington State Department of Children, Youth, and Families background check, provide results of a Tuberculin skin test, copy of immunization records, proof of Covid-19 vaccination or an approved religious or medical exemption, and obtain Washington Education Association liability insurance, if applicable.***

Credits 5

Lecture Hours 22

Clinical Hours 99

Prerequisites

[ECED& 120](#) or [EDUC& 202](#) or instructor permission.

Quarters Offered

Fall, Winter, Spring

EDUC 198 : Special Topics

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

Credits 0

-5

Lecture Hours 2

-55

Prerequisites

Instructor Permission

EDUC 298 : Special Topics

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

Credits 0

-5

Lecture Hours 2

-55

Prerequisites

Instructor Permission

Engineering

Tyler Wallace, Division Chair

509.793.2150

engineering@bigbend.edu

Engineering courses may be taken as part of the Associate in Arts and Science DTA degree or as part of the Associate in Science- Transfer (AS-T 2) degree. Within the Associate in Arts and Science DTA degree, Engineering (ENGR) courses may be used toward Specified or General Elective credit. Students seeking either Associate in Arts and Science DTA degree or the Associate in Science-Transfer Track 2, should refer to the catalog section "Degrees & Certificates" for a detailed description of the degree, its program outcomes, and courses that will satisfy degree requirements.

At a basic level, engineers apply scientific and mathematical principles to make the world a better place. They may design machines, roads, buildings, or circuitry; combine the inventions of others to develop or improve processes; oversee the operation of technological equipment in facilities ranging from waste treatment plants to large manufacturing facilities to water purification plants; develop new materials that are stronger, lighter, or more environmentally friendly.

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. Students should seek out their advisor for more information and guidance on possible courses to take to complete this degree and to prepare and plan for future transfer.

Advising Maps

Advising maps for the AS-T degrees offered at BBCC are available on the BBCC Website. Use the Academics dropdown, below Programs & Degrees, select Advising Maps. Once on the Advising Maps page look for:

- Engineering – Transfer (AS-T-Track 2)

The advising map is helpful to prepare for advising and registration each quarter. Students should maintain an accurate record of courses completed and bring their advising map with them for advising appointments.

Engineering Course Descriptions

ENGR& 111 : Engineering Graphics I

This course studies the principles of mechanical drawings: geometric construction, orthographic projection, sectional views, auxiliary views, isometric and oblique drawings, dimensions, threads, fasteners, and lettering using AutoCad software. This software is used by engineers to communicate proposed designs and new ideas. (Formerly ENGR 160)

Distribution

Specified Elective

Credits 5

Lecture Hours 33

Lab Hours 44

Quarters Offered

Winter, Spring

ENGR& 112 : Engineering Graphics II

This course uses computer software to draft parametric models in three dimensions using Solidworks software. This course covers file management methods, rapid prototyping, and 2D drawing development techniques. (Formerly ENGR 265)

Distribution

Specified Elective

Credits 5

Lecture Hours 33

Lab Hours 44

Quarters Offered

Winter, Spring

ENGR& 204 : Electrical Circuits

This course introduces electrical circuit concepts and mathematical models to analyze electrical circuits and systems. The behaviors of circuit components including resistors, sources, capacitors, inductors and operational amplifiers will be examined. The analytic solutions of mathematical models will be calculated and presented in terms of voltage, current and electrical power. Fundamentals of electrical power generation, transmission, analysis and calculation will also be covered.

Distribution

Natural Science

Credits 5

Lecture Hours 55

Prerequisites

MATH& 152, PHYS& 223, or instructor permission.

Corequisites

Differential Equations, or instructor permission

Quarters Offered

Spring

ENGR& 214 : Statics

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. (Formerly EGR211)

Distribution

Natural Science

Credits 5

Lecture Hours 55

Prerequisites

MATH& 151, PHYS& 221 with grades of 2.0 or higher

Corequisites

MATH& 152

ENGR& 215 : Dynamics

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. (Formerly EGR 212)

Distribution

Natural Science

Credits 5

Lecture Hours 55

Prerequisites

ENGR& 214, PHYS& 221, and MATH& 152 with grades of 2.0 or higher.

ENGR& 224 : Thermodynamics

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.

Distribution

Natural Science

Credits 5

Lecture Hours 55

Prerequisites

PHYS& 221, MATH& 152.

Corequisites

CHEM& 162: General Chem w/Lab II

ENGR& 225 : Mechanics of Materials

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. (Formerly EGR 214)

Distribution

Natural Science

Credits 5

Lecture Hours 55

Prerequisites

ENGR& 214, MATH& 152 with grades of 2.0 or higher.

ENGR 110 : Intro to Science and Engineering

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.

Credits 3

Lecture Hours 33

Quarters Offered

Fall, Winter

ENGR 201 : Material Science

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.

Distribution

Natural Science

Credits 5

Lecture Hours 55

Prerequisites

PHYS& 221, CHEM& 161

ENGR 202 : Design of Logic Circuits

This course introduces students to the methods, skills and theoretical knowledge needed to

design, simulate, and build combinational logic and basic sequential logic circuits. Using industry relevant CAD tools and design technologies, students will learn through homework and projects to design and implement a collection of combinational and sequential logic circuits. Upon completion, students will apply the same tools prevalent in industry and their transferrable skills to many digital electronic applications today.

Distribution

Specified Elective

Credits 6**Lecture Hours** 44**Lab Hours** 44**Prerequisites**

MATH& 141 with grades of 2.0 or higher and one of the following: [CS 111](#) or CS& 131 or CS&141, or instructor permission

ENGR 205 : Electric Circuits Lab

This course utilizes lab experiments to verify electrical circuit principles that are learned in [ENGR& 204](#). Students will also perform measurements to confirm the analytical solutions from mathematical models. Some engineering programs including electrical engineering require this course. Please see your advisor.

Distribution

Lab Science

Credits 1**Lab Hours** 22**Prerequisites**

NONE.

Corequisites

ENGR& 204: Electrical Circuits

Quarters Offered

Spring

ENGR 240 : Applied Numerical Methods

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.

Distribution

Lab Science

Credits 5**Lecture Hours** 33**Lab Hours** 44**Prerequisites**

[MATH& 153](#) with grade of 2.0 or higher; or instructor permission

Quarters Offered

Winter

English

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English courses are to be taken as part of the Associate in Arts and Science DTA degree. These courses may be used toward Basic Requirements, Humanities Breadth requirements, or for Specified or General Elective credit. Students seeking an Associate in Arts and Science DTA degree should refer to the Arts & Science DTA Program pages for a detailed description of program outcomes and courses that will satisfy the degree requirements.

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 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.

English Course Descriptions

ENGL& 101 : English Composition I

This composition course provides instruction in academic written communication by having students compose formal essays, with the goal of teaching students to communicate effectively and engage with issues and ideas.

Distribution

Basic Skills, Humanities Lecture

Credits 5

Lecture Hours 55

Prerequisites

Placement exam or 2.0 in English 099 or English 094.

Quarters Offered

Fall, Winter, Spring, Summer

ENGL& 102 : Composition II

This advanced composition course provides instruction in academic writing through literary analysis and increases students' exposure to literature.

Distribution

Basic Skills, Humanities Lecture

Credits 5

Lecture Hours 55

Prerequisites

A grade of 2.0 or better in ENGL&101.

Quarters Offered

Fall, Winter, Spring, Summer

ENGL& 235 : Technical Writing

This course is designed to improve students' written technical communication skills as are related to a range of professional applications. The goal of technical writing is to communicate a message clearly, concisely, and persuasively. This course emphasizes critical thinking skills as applied to technical writing, attention to research techniques, detail, professionalism, purpose, and audience. Students will learn to design, format, and produce documents common in business and industry.

Distribution

Basic Skills, Humanities Lecture

Credits 5

Lecture Hours 55

Prerequisites

A grade of 2.0 or better in ENGL&101.

Quarters Offered

Winter, Spring

ENGL& 236 : Creative Writing I

In this course, students will develop the basic techniques that writers use to create imaginative and effective writing in fiction, poetry, creative non-fiction, and/or plays/script. They will create a portfolio of their work from the course with polished pieces and work in progress. Students will enhance their own technique by reading and discussing published works of creative writing. They will learn to make use of constructive criticism, talk about their own work concisely, and edit their work.

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

Prerequisites

None

Quarters Offered

Winter, Spring

ENGL 010 : English Lab

Allows non-BBCC student access to tutors in the Writing Center.

ENGL 094 : Applied Technical Writing Foundations

This course is designed for students who need ENGL 109: Applied Technical Writing but placed at below-college level English. The course provides instruction in professional written communication. Students compose formal essays and a variety of technical documents to learn to communicate effectively. Students will focus on reading, interpreting, evaluating, planning, organizing, and composing professional and technical writing as applied in academics, business, and industry. This course provides instruction in ENGL 109 with embedded support. Students earn ENGL 094 or ENGL 109 depending on demonstrated competencies at course completion. A passing grade in ENGL 094 earns 5 credits; a passing grade in ENGL 109 earns 3 credits ENGL 109 plus 2 credits General Electives.

Distribution

Basic Skills

Credits 5

Lecture Hours 55

ENGL 098 : Basic English Skills

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

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

ENGL 99 : English Skills

This composition course provides instruction in academic written communication. Students compose formal essays to learn to communicate effectively and to engage with issues and ideas. The course is taught as [ENGL& 101](#) enhanced with instruction in [ENGL 99](#) skills. Students who demonstrate at least a 2.0 competency in ENGL& 101 skills will receive ENGL&101 credit; students who demonstrate ENGL 099 skills will earn ENGL 099 credit. This course has a co-requisite of [CSS 106](#), College Reading Strategies. Students must be enrolled in both courses, ENGL 099 and [CSS 106](#), in the same quarter. A grade of 2.0 in ENGL 99 is required to move into ENGL& 101.

Credits 5

Lecture Hours 55

Prerequisites

Placement into [ENGL 098](#) or [ENGL 99](#).

Corequisites

Enrollment in [CSS 106](#)

ENGL 100 : English Composition Foundations

This composition course provides instruction in academic written communication. Students compose formal essays to learn to communicate effectively and to engage with issues and ideas. ENGL 100 is taught as ENGL & 101 with additional support. Students earn ENGL 100 or ENGL & 101 at course completion depending on demonstrated competencies. A passing grade in ENGL 100 earns 8 credits General Electives; a passing grade in ENGL & 101 earns 5 credits ENGL & 101 plus 3 credits General Electives. A grade of 2.0 in ENGL 100 is required to advance to ENGL & 101; a grade of 2.0 in ENGL & 101 is required to advance to ENGL & 102 or ENGL & 235. ENGL 100 does not substitute for any required college-level English Composition course.

Credits 5

Lecture Hours 55

Prerequisites

Placement in [ENGL 098](#), [ENGL 099](#), [ENGL 100](#)

ENGL 105 : The Moral of the Story

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

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

Quarters Offered

Fall, Winter, Spring

ENGL 109 : Applied Technical Writing

This course provides instruction in professional written communication. Students compose formal essays and a variety of technical documents to learn to communicate effectively. Students will focus on reading, interpreting, evaluating, planning, organizing, and composing professional and technical writing as applied in academics, business, and industry.

Credits 3

Lecture Hours 33

Prerequisites

Placement into ENGL & 101 or a passing grade of 2.0 in ENGL 099 or [ENGL 094](#)

Quarters Offered

Winter, Spring

ENGL 198 : Special Projects in English

Special Projects in English individual projects by special arrangement with instructor.

Distribution

Humanities Lecture

Credits 1

-3

Clinical Hours 33

-99

Prerequisites

Instructor permission and completed Learning Contract.

ENGL 223 : Banned Books in Literature: A Cultural Approach

This course examines literary texts that are transgressive, revolutionary, or concerned with taboo subjects. Reading material will consist of excerpts from longer texts, many of them full-length novels or works of creative non-fiction. Students will study the historical and political context of these texts as well as the content of the texts, and the interpretation of underlying themes connected to the cultures represented by the authors. Because this class is designed to have a multicultural focus, the texts chosen should cover a variety of reasons for censorship, including but not limited to decisions based on politics, sexuality, religion, and social themes.

Distribution

Diversity, Humanities Lecture

Credits 5

Lecture Hours 55

Quarters Offered

Winter

ENGL 225 : Chicana Literature

This class will explore the rhetorical and narrative strategies used by Chicana writers to explore the themes of identity, culture, and discrimination in Chicana novels, short stories, and essays. Engagement with these texts requires not necessarily agreement with, but openness to and respect for, perspectives different from our own.

Distribution

Humanities Lecture, Diversity

Credits 5

Lecture Hours 55

ENGL 240 : World Literature

A course of world literature from the ancient world through the twentieth century.

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

Prerequisites

ENGL& 101 with a grade of 2.0 or above

ENGL 261 : Women’s Literature

This course begins by asking the questions “What is Womens Literature?” and “Why study Womens Literature?” Reading a variety of genres (poetry, fiction, & nonfiction), students will engage with intersecting expressions of womanhood across identities as they learn about the many ways women have empowered themselves, individually and collectively, to participate a society and a history that had long excluded them. Students increase their critical reading and thinking skills while learning to critique the limits of traditional literary canons, or what represents “great” writing. By encountering all different kinds of women’s literature across several centuries and across the globe, we become better versed in the many experiences that define “womanhood” and thus become more inclusive readers and thinkers.

Distribution

Humanities Lecture, Diversity

Credits 5

Lecture Hours 55

Prerequisites

Completion of ENGL099 or ENGL100 a 2.0 or higher or placement into ENGL& 101.

Quarters Offered

Winter

Environmental Science

Mariah Whitney

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Environmental science courses may be taken as part of the Associate in Arts and Science DTA degree or as part of the Associate in Science–Transfer Track 1 degree. These courses may be used toward the Natural Science Breadth requirement or for Specified or General Elective credit.

Environmental science is an interdisciplinary field that blends the natural sciences with the social sciences in order to better understand how our natural world works, how human interactions and behaviors impact our environment, and how the natural world impact its resident human species. Biology, ecology, chemistry, and geology blend with anthropology, sociology, political science, and economics to name just a few disciplines involved. The issues and problems investigated rarely have simple solutions with many opposing viewpoints and stakeholders which make environmental science a compelling field to study.

Environmental scientists work as ecologists, anthropologists, environmental consultants, climatologists, and conservation scientists, to name a few of the many occupations within the field. Some work for private businesses, others for governmental organizations and others for public entities.

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

Environmental Science Course Descriptions

ENVS& 100 : Survey of Env Science

An introduction to the fundamental principles of environmental science, topics of study include some of the following topics: environmental, science, and information literacy, human population growth, environmental health, ecological economics and consumption, solid waste, ecosystems and nutrient cycling, population and community ecology, evolution and extinction, biodiversity and preserving biodiversity, freshwater resources and water pollution, food resources and sustainable agriculture, coal and petroleum, air pollution and

climate change, nuclear power, alternative energy sources, environmental policy, and urbanization and sustainable communities.

Distribution

Natural Science

Credits 5

Lecture Hours 55

Quarters Offered

Fall, Winter, Spring, Summer

Film Studies

Film Studies Course Descriptions

FILM 101 : Introduction to Cinema

This class examines a series of films from different cultures, eras, and genres as a way to create an appreciation of filmmaking and to analyze different aspects of culture in cinema. On an introductory level, we will examine some of the tools in the filmmakers' arsenal and consider how they relate to the filmmaker's vision. Exposure to a variety of films—ranging from independent and foreign to studio blockbusters, and everything in between—is also fundamental to this class. (Formerly ENGL 216)

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

First Aid/EMT

First Aid/EMT Course Descriptions

FAD 150 : Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens

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, 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.

Credits 2

Lecture Hours 20

Lab Hours 4

Quarters Offered

Fall, Winter, Spring, Summer

Geographic Information Systems

A geographic information system (GIS) is a framework for capturing and analyzing data and tying it to specific geographic locations. GIS is used in a multitude of industries and organizations. At BBCC, GIS classes are included in the Agriculture and Unmanned Systems programs.

Geographic Information Systems Course Descriptions

GIS 110 : Geographic Information Systems (GIS) I

Using basic capabilities of ArcGIS software tools, students are introduced to geographic information systems (GIS) concepts, including coordinate systems, spatial data analysis, data editing, data queries, database development, map creation, and report generation.

Credits 4

Lecture Hours 38

Lab Hours 11

Prerequisites

Completion of [MATH 098](#)/[MAP 119](#) or a higher placement or instructor permission.

GIS 210 : Geographic Information Systems (GIS) II

This second course in geographic information systems (GIS) focuses on spatial data analysis, including the use of interpolation, contours, data intersections, and overlay analysis. Students will be introduced to the latest GIS software tools, including performing analysis of real-world data collected from Unmanned Aircraft Systems (UAS).

Credits 5

Lecture Hours 55

Prerequisites

[GIS 110](#) or Instructor Permission.

GIS 220 : Remote Sensing

This course addresses key aspects of remote sensing. Topics include the electromagnetic spectrum, satellites and remote sensing systems, manned/unmanned aircraft and remote sensing systems, basic image interpretation and analysis concepts, and remote sensing applications (i.e., agriculture, forestry, geology, etc.).

Credits 3

Lecture Hours 33

Prerequisites

[GIS 110](#) or instructor permission

Geology

Tyler Wallace, Division Chair

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Geology courses may be taken as part of the Associate in Arts and Science DTA degree or as part of the Associate in Science–Transfer Track 1 degree. These courses may be used toward the Natural Science Breadth requirement or for Specified or General Elective credit.

The field of geology studies the Earth and the processes that have shaped the Earth over its 4.6 billion-year history. Geologists study earthquakes, volcanoes, landslides, and floods. They study the rocks and minerals that make up the Earth's crust as well as the slow movements

of large pieces of crust and upper mantle called tectonic plates that account for mountain building, earthquake zones, and volcanic activity. The landscape of the Columbia Basin was shaped by ice age floods that repeatedly swept through and carved out our channeled basalt cliffs leaving behind Dry Falls. Geologists studied our unique area and gathered the evidence to help to explain what we see in our own backyard. Geologists may spend time in laboratories or out in the field; they may work for universities, government agencies, non-profit organizations, or natural resource companies.

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

Geology Course Descriptions

GEOL& 101 : Intro Physical Geology

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

Distribution

Lab Science

Credits 5

Lecture Hours 44

Lab Hours 22

Prerequisites

Completion of [MATH 098](#)/ [MAP 119](#) or a higher placement.

Quarters Offered

Winter, Spring

GEOL& 103 : Historical Geology

Students will examine the evolution of Earth, its climate system, water resources, and life on the planet over time. The connection between these phenomena and societal concerns will be explored. Students will develop their skills in geoscience data analysis and interpretation and explore academic and career pathways in the geosciences. There will be a required fieldtrip during the course of the quarter that will take the time of one lecture and one lab.

Distribution

Lab Science

Credits 5

Lecture Hours 44

Lab Hours 22

Prerequisites

GEOL& 101: Intro Physical Geology

Health Education

Health Education Course Descriptions

HED 119 : Medical Terminology

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.

Credits 5

Lecture Hours 55

Quarters Offered

Fall, Winter, Spring

HED 121 : The Human Body and Disease I

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.

Credits 5

Lecture Hours 55

Prerequisites

None. Co-enrollment in [HED 119](#) recommended

Quarters Offered

Fall

HED 122 : The Human Body and Disease II

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

Credits 5

Lecture Hours 55

Prerequisites

Completion of [HED 121](#) and [HED 119](#), each with a minimum grade of 2.0

Quarters Offered

Winter

HED 123 : The Human Body and Disease III

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.

Credits 5

Lecture Hours 55

Prerequisites

Completion of [HED 121](#) [HED 122](#) and [HED 119](#), each with a minimum grade of 2.0.

Quarters Offered

Spring

HED 160 : Pharmacology for Allied Health

This basic pharmacology course provides instruction on therapeutic action and major side effects of common drugs, principles of medication and dosage calculations for allied health pathways.

Credits 3

Lecture Hours 33

Prerequisites

5 credits of [MAP 117](#) with a minimum grade of 2.0 or better; concurrent enrollment in [MA 116](#)

Quarters Offered

Spring

HED 239 : Medical Ethics

This course introduces ethical and legal issues facing medical professionals.

Credits 2

Lecture Hours 22

Quarters Offered

Fall, Winter

High School Completion

General Information

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Individuals obtain a high school diploma through competency-based instruction. Students earn credits through completing coursework, prior learning credentials, specialized training and/or assessments. Students may co-enroll in college level classes or participate in work-based learning. Most classes are open-entry and self-paced. Times and locations can be found in the current quarterly class schedule or by contacting the Basic Skills Office at 509.793.2304 or by email at bedainfo@bigbend.edu.

High School Completion Course Descriptions

HSC 010 : Reading/Writing/Communication (HS English 1)

Reading/Writing/Communication (HS English 1) focuses on reading, writing, and language through the study of history, past and present, including conventions of traditional grammar, sentence structure, and paragraph structure. Speaking, listening, and study skills are reinforced through note taking, class discussion, and individual/group presentations and writing assignments. High school completion credit only. Students can earn 0.25–2.0 Freshman/Sophomore high school credits. This course may be repeated.

Prerequisites

Students must be registered in a Basic Skills class.

HSC 011 : Reading/Writing/Communication (HS English 2)

Reading/Writing/Communication (HS English 2) focuses on reading, writing, and language through the study of history, past and present, including conventions of traditional grammar, sentence structure, and paragraph structure. Speaking, listening, and study skills are reinforced through note taking, class discussion, and individual/group presentations and writing assignments. High school completion credit only. Students can earn 0.25–2.0 Junior/Senior high school credits. This course may be repeated.

Prerequisites

Students must be registered in a Basic Skills class.

HSC 015 : Career and Technical HS Mathematics

The course provides math instruction in applied math concepts to include whole numbers, fractions, decimals, geometrical concepts and shapes, interpreting graphs and charts, statistical information and probability along with algebraic expressions and equations to meet the math skills required for high school graduation. High school completion credit only. May be repeated as needed.

Prerequisites

Students must be enrolled in a Basic Skills class.

HSC 016 : Algebra I HS Mathematics

The course provides math instruction in interpreting graphs and charts with algebraic expressions and equations to meet the math skills required for high school graduation. For high school completion credit only. May be repeated as needed.

Prerequisites

Students must be enrolled in a Basic Skills class

HSC 017 : HS Geometry

The course provides math instruction in applied math concepts to geometrical concepts and shapes and interpreting graphs and charts to meet the math skills required for high school graduation. For high school completion credit only.

Prerequisites

Students must be enrolled in a Basic Skills class

HSC 020 : General Lab–Science

This lab course provides basic instruction and lab exposure related to physical, life and earth science content. High school completion credit only. Students can earn 0.25–2.0 high school credits. This course may be repeated.

Prerequisites

Students must be enrolled in a Basic Skills class

HSC 021 : General Non–Lab Science

This general non–lab science survey course provides basic instruction in physical, life and earth science, necessary for high school graduation. High school completion only. Students may earn 0.25–1 HS credit. This course may be repeated.

Prerequisites

Students must be enrolled in a Basic Skills class

HSC 025 : Health and Fitness

This course is designed for students to develop physical and mental health fitness skills as required for high school graduation. High school completion credit only. May be repeated as needed.

Prerequisites

Students must be enrolled in a Basic Skills class

HSC 030 : United State Constitution and Government

United States Constitution and Government traces the nation's history from the pre-colonial period to the present. Students learn about the Native American, European, and African people who lived in America before it became the United States. They examine the beliefs and philosophies that informed the American Revolution and the subsequent formation of the government and political system. Students investigate the economic, cultural, and social motives for the nation's expansion, as well as the conflicting notions of liberty that eventually resulted in civil war. High school completion credit only. Students may earn 0.25–1.0 HS credits. This course may be repeated.

Prerequisites

Students must be enrolled in a Basic Skills class

HSC 031 : Washington State Government and History

Washington State Government and History examines Washington history from native and European contact to the present. The study of Washington state includes an examination of the state constitution, key treaties, and tribal sovereignty issues, including the study of migration, differing cultural experiences, and human interactions with the environment. High school completion credit only. Students may earn 0.25–0.50 HS credit This course may be repeated.

Prerequisites

Students must be enrolled in a Basic Skills class

HSC 032 : Contemporary World Events

Contemporary World Events examines modern world history and geography to identify global themes rooted in environmental issues, economic development, human rights, and civic action and responsibility. High school completion only. Students may earn 0.25–1 HS CWP or World History credit. This course may be repeated.

Prerequisites

Students must be enrolled in a Basic Skills class

HSC 035 : Fine Arts

This course will contextualize artistic study throughout other high school content areas including language, science, history, and elective credits. Artistic expression and study may range from visual design, creative writing, textile, and natural product, performing arts or digital design as necessary for high school graduation. Independent study may be approved by instructor to include classes, specialized training or hobbies demonstrating artistic aptitude. High school completion credit only. Students can earn 0.25–2.0 high school credits. This course may be repeated.

Prerequisites

Students must be enrolled in a Basic Skills class

HSC 040 : Occupational Education

This course is designed to assist students in determining their personal, educational and occupational goals by identifying marketable skills and exploring the current labor market. High school completion credit only.

Prerequisites

Students must be enrolled in a Basic Skills class

HSC 045 : Elective and Personal Pathway (PPR)

The elective course is designed to enable students to further explore and develop special interest skills through independent study. Students may focus on personal, educational, or career pathways aligned with their Personal Pathway (PPR) and/or Elective credit goals. High school completion credit only. Students can earn 0.25–2.0 high school credits. This course may be repeated.

Prerequisites

Students must be enrolled in a Basic Skills class

HSC 049 : Portfolio

This course is the final capstone project for the HS21+ high school diploma. Students will create a portfolio that demonstrates their cumulative learning, community service project, college readiness, and career readiness.

Prerequisites

Students must be enrolled in a Basic Skills class

History

Chris Riley**509.793.2184****history@bigbend.edu****Jody Quitadamo****509-793-2177****history@bigbend.edu**

History courses may be taken as part of the Associate in Arts and Science DTA degree. These courses may be used toward the Social Science Breadth requirement or for Specified or General Elective credit. Students seeking an Associate in Arts and Science DTA degree should refer to the catalog section “Degrees & Certificates” for a detailed description of the degree, its program outcomes, and courses that will satisfy degree requirements.

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 should consult program outlines published by the college or university to which they intend to transfer. Students should prepare their quarterly schedules with the assistance of an advisor knowledgeable in this transfer area.

Recommended Pre-Major Courses (20 credits)

HIST& 146 U.S. History I CWU & EWU

HIST& 147 U.S. History II CWU & EWU

HIST& 148 U.S. History III CWU & EWU

HIST& 126 World Civilization I CWU

HIST& 127 World Civilization II CWU

HIST& 128 World Civilization III CWU

Or may substitute Western Civ for World Civ (CWU)

HIST& 116 Western Civilization I CWU & EWU

HIST& 117 Western Civilization II CWU & EWU

HIST& 118 Western Civilization III CWU

* Choose four courses, CWU

History Course Descriptions

HIST& 116 : Western Civilization I

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.

Distribution

Social Science

Credits 5

Lecture Hours 55

Quarters Offered

Fall

HIST& 117 : Western Civilization II

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.

Distribution

Social Science

Credits 5

Lecture Hours 55

Quarters Offered

Winter

HIST& 118 : Western Civilization III

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).

Distribution

Social Science

Credits 5

Lecture Hours 55

Quarters Offered

Spring

HIST& 126 : World Civilization I

From the emergence of Buddhism in India to the fall of the Roman Empire, this course provides a general overview of major developments in ancient world history. Students investigate major historical developments as exemplified by the traditional cultures of Africa, Southwest Asia (Middle East), China, Japan, India, Oceania, the Americas, and Europe. Employing the same thinking skills and methods used by historians, students draw on a variety of disciplines and sources to piece together an informed and coherent view of the past and think critically about essential questions including How do humans interact with their environments? and How do belief systems reveal how major groups in society view themselves and others?

Distribution

Social Science

Credits 5

Lecture Hours 55

Quarters Offered

Fall

HIST& 127 : World Civilization II

World Civilizations II is a systematic study of the major patterns of global history in the modern period, from 1000 C.E. to 1850 C.E. This course analyzes the distinguishing characteristics of the world's major civilizations, and the gradual integration of the diverse cultures of the world into an interconnected system. Students will examine the major political, social, cultural, and

economic developments, including the spread of Islam and European exploration in Africa, Asia, and the Americas. We will pay particular attention to colonialism, slavery, revolution, nationalism, globalization, democracy, and human rights. This course develops critical thinking, writing, and analytical skills by employing the same skills and methods used by historians to piece together an informed and coherent view of the past.

Distribution

Social Science

Credits 5**Lecture Hours** 55**Quarters Offered**

Winter

HIST& 128 : World Civilization III

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

Distribution

Social Science

Credits 5**Lecture Hours** 55**Quarters Offered**

Spring

HIST& 146 : US History I

This course examines the development of 17th and 18th century America. Topics include the establishment of European colonies in North America, relations with the Native Americans, the development of slavery, economic and social developments with the British Empire and its rivals, the emergence of the United States as a nation, and the Early Republic to the War of 1812.

Distribution

Social Science

Credits 5**Lecture Hours** 55**Prerequisites**

None

Quarters Offered

Fall, Winter, Spring

HIST& 147 : US History II

This course examines the important figures, events, and themes in the history of the United States from 1800 until the end of World War One. It examines themes and events such as the formation of political parties, slavery, immigration, westward expansion, the Civil War and Reconstruction, the Industrial Revolution, urbanization, segregation, immigration, and imperialism. The course will highlight a number of issues widely debated in the 19th Century, especially after the Civil War, which remain relevant today.

Distribution

Social Science

Credits 5**Lecture Hours** 55**Prerequisites**

None

Quarters Offered

Fall, Winter, Spring

HIST& 148 : US History III

This course examines the important figures, events, and themes in the history of the United States during the 20th century, including the two World Wars, the Great Depression and New Deal, the Cold War and growth of the modern middle class, the civil rights movements, the Vietnam War and its aftermath, and the increasing political polarization following the end of the Cold War.

Distribution

Social Science

Credits 5**Lecture Hours** 55**Prerequisites**

None

Quarters Offered

Fall, Winter, Spring

HIST& 215 : Women in American History

A survey of women and U.S. history from pre-colonial times to the present. This course explores women's place in American History, including historical attitudes about women's place in society and the realities of life and work for women. This course also covers the women's rights movements from the mid-1800's to the present. Topics include cultural, ethnic, political, social, and economic history.

Distribution

Social Science, Diversity

Credits 5**Lecture Hours** 55**HIST& 219 : Native American History**

A survey of Native American history in the United States, this course explores Native American life before and after European contact, U.S Native American policy from 1789 to the present, and how the Native American nations maintained aspects of their culture in a changing and hostile environment. Students will examine the diverse Native American cultures prior to European contact, examine conflicts nations faced after contact, and study how the nations impacted and contributed to United States history.

Distribution

Social Science

Credits 5**Lecture Hours** 55**HIST& 219 : Native American History**

A survey of Native American history in the United States, this course explores Native American life before and after European contact, U.S Native American policy from 1789 to the present, and how the Native American nations maintained aspects of their culture in a changing and hostile environment. Students will examine the diverse Native American cultures prior to European contact, examine conflicts nations faced after contact, and study how the nations impacted and contributed to United States history

Credits 5**HIST 105 : Introduction to the History of Science**

This course is a survey course designed to give the student a basic understanding of the history of science from the Ancient Greeks to the present through the lens of the discoveries and scientific personalities that shaped its development. Students will examine the connections between science and the humanities and come to appreciate that science is not done in a vacuum, but has consequences for wider society. Through a series of written projects and examinations, the students will learn fundamental facts and theories of science as well as how to study and analyze them using the methodologies and techniques of both history and science. Course is cross-listed with SCI 105 and students cannot earn credit for both.

Distribution

Social Science

Credits 5**Lecture Hours** 55**HIST 110 : The American Experience**

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.

Distribution

Social Science

Credits 5**Lecture Hours** 55**Quarters Offered**

Winter, Spring

HIST 121 : History of Mexico

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.

Distribution

Social Science

Credits 5

Lecture Hours 55

Quarters Offered

Spring

HIST 210 : Tudor England

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.

Distribution

Social Science

Credits 5

Lecture Hours 55

HIST 215 : Women in American History

Credits 5

HIST 230 : Ancient Near East

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

Distribution

Social Science

Credits 5

Lecture Hours 55

Quarters Offered

Winter

HIST 245 : American Civil War & Reconstruction

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.

Distribution

Social Science

Credits 5

Lecture Hours 55

HIST 250 : Ancient Greece

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.

Distribution

Social Science

Credits 5

Lecture Hours 55

Quarters Offered

Fall

HIST 270 : The Roman World

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.

Distribution

Social Science

Credits 5

Lecture Hours 55

Quarters Offered

Spring

Humanities

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Humanities courses may be taken as part of the Associate in Arts and Science DTA degree. These courses may be used toward the Humanities Breadth requirement or for Specified or General Elective credit. Students seeking Associate in Arts and Science DTA degree should refer to the catalog section "Degrees & Certificates" for a detailed description of the degree, its program outcomes, and courses that will satisfy degree requirements.

Humanities involve studying human culture and asking questions about the human condition and existence: how we deal the fragility of life, what the nature of truth is, the purpose and experience of human emotions, the nature of human drives, how to live in a world with other humans, how to be better humans, and how our experiences as humans shape us. In essence, these courses help us understand more about what it means to be a human being.

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.

Humanities Course Descriptions

HUM 102 : Kick Ass Women in Popular Culture

This course helps students gain critical literacy skills that will make them more effective and inclusive readers and thinkers. We will watch film and television shows that challenge the damsel in distress stereotype by featuring kick-ass women who can save themselves and/or others using violence. We will read what scholarly and popular critics argue about these film and television shows to unpack controversies related to the "strong, independent woman" ideal. Students will learn relevant media literacy vocabulary, analyze scenes from what we watch together, and gain historical knowledge of how the representation of women has changed over the last century. They will apply this knowledge to journal assignments, reading responses, personal reflections, and multi-media assignments including a poster presentation.

Please note: the film and television programs we watch are for mature audiences and include graphic violence and sexual themes.

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

Quarters Offered

Fall

HUM 108 : Introduction to Gender Studies

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

Distribution

Humanities Lecture, Diversity

Credits 5

Lecture Hours 55

Quarters Offered

Fall

HUM 110 : Greek Mythology

Greek Mythology is the basis for understanding Western literature, art, history and even some symbolism on U.S. currency. More than just entertainment, the ancient myths discuss our relationship to the divine, the nature of power, and the importance of heroics. This course will cover the pantheon of Greek gods and the literary styles of the epic, tragedy, and comedy.

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

Lab Hours 0

Quarters Offered

Fall, Winter, Summer

HUM 205 : Diversity in French and German Language Cinema

HUM 205 Diversity in French- and German-Language Cinema is a survey course that examines French- and German-Language films featuring the experiences of immigrants, women, people living with disabilities and other historically marginalized groups. Students will critically engage with the way that these subjects are portrayed on screen, comparing and contrasting the films' subjects with their own viewing and life experiences.

Distribution

Diversity, Humanities Lecture

Credits 5

Lecture Hours 55

Quarters Offered

Winter

HUM 214 : Diversity Issues

This cultural diversity studies course examines and investigates culture, behavior, values, identity, stereotypes, personal and societal perceptions, and the cultural construction of reality. It uses culturally representative creative works such as short stories, film, visual art, and

music to explore multicultural society with a mind toward improving students' understanding of their own cultures and the cultures that surround them.

Distribution

Diversity, Humanities Lecture

Credits 5

Lecture Hours 55

Prerequisites

ENGL& 101 or instructor permission

Quarters Offered

Fall, Winter

HUM 220 : Diversity in Education

This course examines and discusses the historical and current perspectives on diversity and inclusion and the impact of systemic societal influences on children's development, learning and school experiences. Strategies for developmentally, culturally, and linguistically appropriate anti-bias curriculum and teaching methods will be created. Ideas for approaches that promote inclusive and anti-racist classroom communities will be generated. Includes self-reflection on the influence of the teachers' own culture and life experiences on teaching and interactions with children and families. Classroom materials and environments will be evaluated and modified to promote anti-bias and anti-racist learning opportunities for all children.

Distribution

Diversity, Humanities Lecture

Credits 5

Lecture Hours 55

Prerequisites

[ECED& 105](#) or [EDUC& 202](#)

Quarters Offered

Fall

Industrial Systems Technology

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Electrical and control system technologies are increasingly sophisticated and complex. Electrical/Electronic technologies have changed the fabric of our existence. We are truly living the electronic age. New innovations seem to be routine, daily occurrences. Today's competitive business climate pushes Industry to grasp new technology to maintain tighter control of their processes, knowing better control – better bottom line! Today's industrial electrician is a multi-faceted technician. Modern industrial plants require technician level individuals who, maintain, calibrate, repair, troubleshoot, and wish to grow with new innovation. **Please consult with your Advisor for degree and certificate details.**

Industrial Systems Technology Course Descriptions

IST 100 : Introduction to Industrial Safety and Health

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.

Credits 3

Lecture Hours 33

IST 102 : Technical Drawing Interpretation

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

Credits 3

Lecture Hours 22

Lab Hours 22

IST 105 : Basic Electricity-DC Circuit Analysis

Fundamentals of DC electricity as applied to series, parallel, and series-parallel circuits. Use of test equipment and troubleshooting simple circuits.

Credits 5

Lecture Hours 33

Lab Hours 44

Prerequisites

[MAP 103](#)/[MAP 117](#)/ [MATH 094](#) or concurrent enrollment or Instructor Permission

IST 106 : Basic Electricity – AC Circuit Analysis

Teaches alternating current theory, waveform quantities and characteristics, including network analysis with reactive components. Proper use of test equipment and troubleshooting simple circuits.

Credits 5

Lecture Hours 33

Lab Hours 44

Prerequisites

[IST 105](#) and [MAP 103](#)/[MAP 117](#)/ [MATH 094](#) or concurrent enrollment or Instructor Permission.

IST 107 : Industrial Electricity and Motor Control

This course provides a comprehensive understanding of industrial electrical systems, focusing on 3-phase power distribution up to 480 Volts, motor control, and code compliance. Students will delve into the principles, components, and safety considerations essential for efficient and reliable operation in industrial settings including National Electric Code (NEC). This course equips students with practical skills to navigate complex electrical systems encountered in factories, plants, and commercial facilities.

Credits 5

Lecture Hours 22

Lab Hours 66

Prerequisite or Corequisite

Prerequisites

MPT 104: Introduction to Electricity or Instructor Permission

Quarters Offered

Spring

IST 110 : Introduction to the National Electric Code

Introduction to Washington State electrical law and the National Electric Code as they pertain to the working electrical technician.

Credits 2

Lecture Hours 22

Prerequisites

[IST 107](#) or instructor permission

IST 111 : National Electric Code II

Application of the Washington State electrical laws (WAG codes) and the National Electric Code as they pertain to the working electrical technician.

Credits 2

Lecture Hours 22

Prerequisites

[IST 110](#) or instructor permission

IST 112 : National Electric Code III

Washington State electrical laws (WAC Codes 296-46, RCW 19.28) and National Electrical Code (NFPA 70) are applied to the working electrician.

Credits 2

Lecture Hours 22

Prerequisites

[IST 111](#) or instructor permission

IST 113 : Industrial Electrical Installation Techniques

Fundamentals of raceway, wire and utilization equipment installations for plant safety, efficiency and long economic life.

Credits 5

Lecture Hours 33

Lab Hours 44

Prerequisites

[IST 107](#) or instructor permission

IST 120 : Introduction to Preventive/Predictive Maintenance

Theory and practice of preventive and predictive maintenance concepts. Performing routine preventative maintenance and scheduling predictive maintenance outages.

Credits 3

Lecture Hours 22

Lab Hours 22

Prerequisites

[IST 102](#) and [MAP 103](#)/[MAP 117](#)/[MATH 094](#) or concurrent enrollment or Instructor Permission.

IST 130 : Introduction to Refrigeration and Air Conditioning

Fundamental physical, chemical, engineering, and mechanical aspects of the refrigeration process.

Credits 5

Lecture Hours 33

Lab Hours 44

Prerequisites

[IST 100](#), [IST 102](#), [IST 106](#), and [MAP 103](#)/[MAP 117](#)/[MATH 094](#) or concurrent enrollment or Instructor Permission.

IST 136 : Intro to Industrial Boiler Technology

This course involves the fundamental principles of steam generation, boiler designs, components, operation, water treatment, safety procedures and related steam generation equipment.

Credits 5

Lecture Hours 33

Lab Hours 44

Prerequisites

[IST 107](#) or instructor permission

IST 141 : Intro to Mechanized Irrigation Applications I

This 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.

Credits 5

Lecture Hours 27

Lab Hours 55

Prerequisites

[IST 100](#) and [IST 102](#)

IST 142 : Mechanized Irrigation Applications II

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.

Credits 5

Lecture Hours 27

Lab Hours 55

Prerequisites

[IST 141](#); Intro to Mechanized Irrigation Applications I

IST 150 : Introduction to Programmable Logic Controllers

Introduction to programmable logic controller principles, hardware, and operation. Includes ladder logic, instruction, maintenance and troubleshooting. (Formerly ELC 150)

Credits 5

Lecture Hours 33

Lab Hours 44

Prerequisites

[IST 107](#) and [MAP 103](#)/[MAP 117](#)/[MATH 094](#) or concurrent enrollment or Instructor Permission.

IST 152 : Programmable Automation Control

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.

Credits 5

Lecture Hours 33

Lab Hours 44

Prerequisites

[IST 150](#) or instructor permission.

IST 170 : Introduction to Instrumentation and Measurement

This course is a dynamic exploration of practical applications, real-world scenarios, and hands-

on labs in the area of measurement technology. This course equips students with essential knowledge and skills to excel in various industries where accurate measurements are critical. Students will explore various types of sensors and their uses, as well as how to calibrate their input data to an accurate measurement.

Students enrolling in this class must meet the following Math requirements:

Completion of [MATH 94](#), [MAP 117](#) (5 credits), or Placement in [MATH 98/99](#), or higher level.

Credits 5

Lecture Hours 22

Lab Hours 66

Prerequisite or Corequisite

Prerequisites

[MAP 117](#): Applied Math for Workforce Programs I

[IST 100](#): Introduction to Industrial Safety and Health

[IST 102](#): Technical Drawing Interpretation or Instructor Permission

Quarters Offered

Winter

IST 180 : Machining I

Layout and fabrication techniques with the use of semi-precision and precision measurement tools. Introduction to drill press, engine lathe and vertical mill operations.

Credits 5

Lecture Hours 33

Lab Hours 44

Prerequisites

[IST 102](#) and [MAP 103](#)/[MAP 117](#)/[MATH 094](#) or concurrent enrollment or Instructor Permission.

IST 182 : Machining II

Fundamentals of machining processes on lathes and vertical mills. Precision measurement with micrometers, vernier calipers, and dial indicators.

Credits 5

Lecture Hours 33

Lab Hours 44

Prerequisites

[IST 180](#) or instructor permission

IST 184 : Machining–Skill Enhancement

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.

Credits 4

Lecture Hours 11

Lab Hours 66

Prerequisites

[IST 182](#) or instructor permission

IST 207 : Industrial Electricity II

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.

Credits 5

Lecture Hours 33

Lab Hours 44

Prerequisites

[IST 107](#) or instructor permission

IST 208 : Industrial Electricity III

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.

Credits 5

Lecture Hours 33

Lab Hours 44

Prerequisites

[IST 207](#) or instructor permission

IST 221 : Electronics and Control Circuits

This course builds on the foundational knowledge gained in the Introduction to Electricity class ([MPT 104](#)) and Introduction to Instrumentation and Measurement ([IST 170](#)). It delves deeper into the principles of electronics,

focusing on advanced circuit analysis, semiconductor devices, and digital electronics through instruction and hands-on lab activities.

Credits 5

Lecture Hours 22

Lab Hours 66

Prerequisites

MPT 104: Introduction to Electricity

IST 170: Introduction to Instrumentation and Measurement

or Instructor Permission

Quarters Offered

Spring

IST 222 : Electronics II (Applications)

Construct and analyze operation of analog and digital electronic devices, circuits, and systems using schematic diagrams, test equipment, and logical trouble shooting procedures.

Credits 5

Lecture Hours 33

Lab Hours 44

Prerequisites

[IST 221](#) or instructor permission

IST 223 : Electronics III (Industrial)

Instruction and training in troubleshooting, testing and repairing industrial control devices. Electrical motor drives, instrumentation, and programmable controllers will be covered.

Credits 5

Lecture Hours 33

Lab Hours 44

Prerequisites

[IST 222](#) or instructor permission

IST 252 : Programmable Automation Control III (HMI)

Human Machine Interface (HMI) has become one of the essentials of modern industrial automation systems. HMI is a display on touch-sensitive screens that connects a person to a machine. Even though Programmable Logic Controls (PLC) often run behind the scenes without a screen displaying, an HMI allows the PLC to visually display what it is doing or has done. These HMI

displays are often driven through an Ethernet connection by PLC programs, commonly used in industrial processes; such as, oil and gas, manufacturing, material handling, robotics, and food processing. This course introduces the fundamentals of HMI, including symbology and programming techniques. The student will write, configure, upload, and run HMI programs using HMI software.

Credits 5

Lecture Hours 33

Lab Hours 44

Prerequisites

[IST 150](#) or Instructor Permission

IST 270 : Instrumentation II & Control Actuators

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.

Credits 5

Lecture Hours 33

Lab Hours 44

Prerequisites

[IST 170](#), 223, or instructor permission.

IST 280 : Mechanical Power Transmission

Fundamentals of industrial mechanical power transmission. Includes lubrication, bearings, speed reducers, gears, couplings, drive components, brakes, clutches, and adjustable speed drives.

Credits 5

Lecture Hours 33

Lab Hours 44

Prerequisites

[IST 100](#), [IST 102](#), and [MAP 103/MAP 117/ MATH 094](#) or concurrent enrollment or Instructor Permission.

IST 282 : Fluid Power Transmission

Fundamentals of industrial hydraulic, pneumatic, and vacuum systems. Includes pumps, piping, compressors, check valves, cylinders, motors, control valves and flow controls.

Credits 5

Lecture Hours 33

Lab Hours 44

Prerequisites

[IST 100,102](#), [MAP 103](#), or instructor permission

IST 284 : Pumping Hydraulics & Mechanics

This course explores the fundamentals of pump system characteristics, hydraulic principles, and pumping technology; including various designs, pump seals, lubrication, & mechanical maintenance.

Credits 5

Lecture Hours 33

Lab Hours 44

Prerequisites

[IST 280](#) or instructor permission

IST 295 : Work Based Learning

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.

Credits 1

-6

Clinical Hours 33

-198

Prerequisites

Instructor permission

Corequisites

[IST 297](#)

IST 297 : Work Based Learning Seminar

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.

Credits 1

Lecture Hours 11

Prerequisites

instructor permission

Corequisites

IST 295: Work Based Learning

Journalism

Journalism Course Descriptions

JOU 140 : Digital Photojournalism

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.

Distribution

Humanities Performance/Skill

Credits 3

Lecture Hours 22

Lab Hours 22

Library

Library Course Descriptions

LIB 101 : Academic Research Skills

This course is designed to prepare students with academic level research skills necessary to create search strategies, locate resources, identify formats, evaluate search results, understand APA and other citation styles, and avoid plagiarism.

Credits 2

Lecture Hours 22

Prerequisite or Corequisite

None.

Prerequisites

None.

Quarters Offered

Fall, Winter, Spring

Manufacturing and Process Technology

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The Manufacturing program provides students a broad range of career and academic options. Students can select direct entry into the workforce in areas such as manufacturing, processing, and facility operations by customizing their program elective courses. **Please consult with your Advisor for degrees and certificate details.**

Manufacturing and Process Technology Course Descriptions

MPT 104 : Introduction to Electricity

This course provides a comprehensive introduction to electrical systems, covering essential concepts, safety practices, and hands-on labs to develop practical skills. Students will learn about electrical safety principles, basic electrical concepts, DC and AC circuits, magnetism, electromagnetism, electrical power generation, residential systems, troubleshooting techniques, and introduction to the National Electric Code (NEC). Hands-on labs and activities complement theoretical learning, ensuring students gain both knowledge and practical experience in electrical systems.

Students enrolling in this class must meet the following Math requirements:

Completion of [MATH 94](#), [MAP 117](#) (5 credits), or Placement in [MATH 98/99](#), or higher level.

Credits 5

Lecture Hours 22

Lab Hours 66

Prerequisites

MAP 117: Applied Math for Workforce Programs I
IST 100: Introduction to Industrial Safety and Health

IST 102: Technical Drawing Interpretation
or Instructor Permission

Quarters Offered

Winter

MPT 120 : Intro to CAM (Computer Aided Manufacturing)

This is an introductory course to Computer Aided Manufacturing (CAM) where students will learn the foundational knowledge in Computer Aided Design (CAD) and creation of G-Code for Computer Numerically Controlled (CNC) equipment. This course covers skills that can be applied across a wide range of industries, and it is the first class in preparing for industry-recognized certifications using CAD and CAM software.

Credits 5

Lecture Hours 22

Lab Hours 66

Prerequisite or Corequisite

This is an introductory course to Computer Aided Manufacturing (CAM) where students will learn the foundational knowledge in Computer Aided Design (CAD) and creation of G-Code for Computer Numerically Controlled (CNC) equipment. This course covers skills that can be applied across a wide range of industries, and it is the first class in preparing for industry-recognized certifications using CAD and CAM software.

Prerequisites

[MAP 117](#) and [IST 102](#) or concurrent enrollment or Instructor Permission.

MPT 125 : 2.5 Axis Milling

This is a Computer Aided Manufacturing course designed for students building upon the foundational skills learned in MPT 120 – Intro to CAM. Students will be able to demonstrate their CAM skills and be able to validate their skills through completion of the industry-recognized CAM 2.5 Axis Milling certification using CAM software.

Credits 5

Lecture Hours 20

Lab Hours 66

Prerequisites

[MPT 120](#) – Intro to CAM

MPT 130 : CNC Turning

This is a Computer Aided Manufacturing course designed for students building upon the foundational skills learned in MPT 120: Intro to

CAM and concepts learned in MPT 125: 2.5 Axis Milling. Students will learn the basics of model prep, setup, programming, and export of 2-axis CNC lathe toolpaths. Students will be able to demonstrate their CNC Turning skills and validate their skills through manufacture of a turning project using CAM software, machine simulation, and CNC turning machines.

Credits 5

Lecture Hours 22

Lab Hours 66

Prerequisites

[MPT 120](#) – Intro to CAM

[MPT 125](#) – 2.5 Axis Milling OR concurrent enrollment

MPT 135 : Introduction to Additive Manufacturing

This course is intended to provide students with an understanding of the principles and applications of additive manufacturing. The course will introduce students to the basic concepts of additive manufacturing, including the various types of technologies, their applications, materials, software used, and industry trends. Students will learn how to design, prepare, and print 3D objects using a range of additive manufacturing technologies.

Prerequisite: MPT 120 or instructor permission

Credits 3

Lecture Hours 11

Lab Hours 44

Prerequisites

[MPT 120](#): Intro to CAM (Computer Aided Manufacturing)

MPT 140 : Introduction to Industrial Internet of Things (IIoT), SCADA (Supervisory Control and Data Acquisition)

This course provides an introduction to the Industrial Internet of Things (IIoT), SCADA (Supervisory Control and Data Acquisition) systems, and Digital Manufacturing in Industry 4.0, which are revolutionizing the way industries operate. Students will learn about the fundamental principles and concepts of IIoT and SCADA, including their architectures, security,

data acquisition, communication networks, protocols, data analytics, visualization, applications, and future trends. Through hands-on exercises students will gain practical skills and knowledge that they can apply to real-world situations. By the end of this course, students will have a solid understanding of the IIoT and SCADA systems, their potential applications, and the impact of emerging technologies on these systems.

Credits 3

Lecture Hours 11

Lab Hours 44

MPT 145 : Intro to Coordinate Metrology

This course is designed to provide students an understanding of Geometric Dimensioning and Tolerancing (GD&T) principles and coordinate measurement systems using digital inspection tools and software. The course will cover the basic concepts of GD&T, including geometric tolerances, datums, size tolerances, positional tolerances, profile tolerances, orientation tolerances, and form tolerances. Students will learn how to interpret GD&T symbols and specifications on engineering drawings and apply GD&T concepts. The course will also cover computer-aided inspection and metrology techniques and how to apply them to verify and validate parts' GD&T features. By the end of the course, students will have a working knowledge of GD&T principles, coordinate measurement systems and how to apply them effectively in engineering and manufacturing settings.

Credits 5

Lecture Hours 11

Lab Hours 88

Prerequisites

[MPT 120](#), [MAP 117](#), [IST 102](#) or Instructor Permission.

MPT 170 : Introduction to Boiler and Refrigeration Systems

This course provides an in-depth introduction to the principles, components, and operation of boiler and refrigeration systems. Students will explore the fundamental concepts of thermodynamics, heat transfer, and fluid mechanics as they apply to these essential

mechanical systems. Through a combination of theoretical knowledge and hands-on practical experience, students will gain a comprehensive understanding of the design, maintenance, and operation of both boilers and refrigeration systems.

Credits 5

Lecture Hours 22

Lab Hours 66

Prerequisites

IST 170 – Instrumentation I or Instructor Permission

MPT 210 : Introduction to Industrial Robotics

This course introduces students to the fundamental principles of industrial robotics, including robot anatomy, programming, and operation. Students will gain theoretical knowledge through lectures and readings, and practical experience through offline simulation software and hands-on labs with actual robots.

Students enrolling in this class must meet the following Math requirements:

Completion of [MATH 94](#), [MAP 117](#) (5 credits), or Placement in [MATH 98/99](#), or higher level.

Credits 5

Lecture Hours 22

Lab Hours 66

Prerequisites

MPT 120: Intro to CAM (Computer Aided Manufacturing)

MAP 117: Applied Math for Workforce Programs I or instructor permission

Quarters Offered

Winter

MPT 220 : CAM for 3-Axis Milling

This class is number four in a series intended to help students gain skills in CAM (Computer Aided Manufacturing) and preparation for an industry recognized certification. In this course, students will learn to create, optimize, and apply 3-axis

toolpaths for manufacturing by analyzing a part for manufacture, identifying areas that require 3-axis toolpaths and identifying requirements to hold the part during final machining. Students will explore 3-axis tools to quickly remove unneeded material from rounded edges and angled faces. Students will then validate the toolpaths with simulation, create the supporting documentation, and code needed to control a 3-axis CNC (Computer Numerically Controlled) machine. Finally, students will bring their project into the physical world by running their program on a 3-axis CNC machine.

Credits 5

Lecture Hours 11

Lab Hours 88

Prerequisites

[MPT 125](#) and [MPT 130](#) or concurrent enrollment or Instructor Permission.

MPT 225 : CAM for Multi-Axis Milling

This class is number five in a series intended to help students gain skills in CAM (Computer Aided Manufacturing) and prepare for an industry recognized certification. In this course, students will identify combinations of axes and how to create a CAM program for multi-axis machines. Students will review best practices to prepare an initial design for manufacture, set up a tool library and machine definition, create a digital twin of the physical manufacturing environment, and explore both multi-axis positioning and simultaneous multi-axis toolpaths.

Credits 5

Lecture Hours 11

Lab Hours 88

Prerequisites

MPT 220: CAM for 3-Axis Milling

MPT 230 : Cobot-Enabled CNC Machining

This course is designed for students who have already taken a CAM (Computer Aided Manufacturing) and Robotics classes and are interested in learning how to integrate Collaborative Robots (Cobots) with CNC (Computer Numerically Controlled) machines for efficient and safe manufacturing processes.

Students will learn about the advantages of using Cobots in CNC machining and programming Cobots to aid CNC machining operations. This course will also cover maintenance and troubleshooting for Cobots and CNC machines. By the end of the course, students will have the skills and knowledge to effectively use Cobots with CNC machines for manufacturing applications.

Credits 3

Lecture Hours 11

Lab Hours 44

Prerequisites

[MPT 225](#) or instructor permission

Math (Applied)

Math (Applied) Course Descriptions

MAP 100 : Applied Mathematics (AMT) Approved by FAA.

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.

Credits 2

Lecture Hours 22

Prerequisites

Placement in [MATH 094](#)/[MAP 117](#) or higher. Must be enrolled in the Aviation Maintenance Technology program.

MAP 117 : Applied Math for Workforce Programs I

This course includes the study of basic arithmetic and algebraic concepts and operations including operations with integers, fractions, decimals and percents, order of operations, measurement, the metric system, algebraic expressions, formulas and simple linear

equations. Students will complete exercises and problems providing practice in workforce program-specific applications. Credit cannot be earned in both MAP 117 and MATH 094.

Credits 1

-5

Lecture Hours 11

-55

Prerequisites

Placement into [MAP 117](#)/[MATH 094](#).

MAP 119 : Applied Math for Workforce Programs II

This course includes the study of intermediate algebraic operations/concepts and the structure/use of algebra. This includes solving, graphing, and solving applications of linear equations and systems of equations; simplifying, factoring, and solving quadratic functions, introduction to functions and models; and exponential and logarithmic functions. Students will complete exercises and problems providing practice in workforce program-specific applications. **Students cannot earn credit for both MAP 119 and Math 098. Students must be enrolled in a Computer Science program or Manufacturing and Process Technology program.**

Credits 5

Lecture Hours 55

Prerequisites

[MAP 117](#) or [MATH 094](#) or a higher placement.

Quarters Offered

Fall, Winter

MAP 121 : Applied Math for Workforce Programs III

This course is designed to prepare students for precalculus and finite math. It includes the study of inequalities, applications of systems, rational expressions, functions, radicals, rational exponents, radical equations, complex numbers, quadratic equations and their application. Students will complete exercises and problems providing practice in workforce program-specific applications. Credit cannot be earned in both MAP 121 and MATH 099.

Credits 1

-5

Lecture Hours 11

-55

Prerequisites

[MATH 098](#), [MAP 119](#) or placement

Mathematics

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Math courses may be taken as part of the Associate in Arts and Science DTA degree or as part of the Associate in Science-Transfer degree. Within the Associate in Arts and Science DTA degree, these courses may be used toward the Basic Quantitative Reasoning (SQR), the Natural Science Breadth requirement or for Specified or General Elective credit. Students seeking Associate in Arts and Science DTA degree should refer to the catalog section "Degrees & Certificates" for a detailed description of the degree, its program outcomes, and courses that will satisfy degree requirements.

Study within the science disciplines and engineering is supported at the most fundamental level with Math. Consequently, Math courses make up a portion of each Associate in Science-Transfer degree, both the AS-T 1 and the AS-T 2 degrees. The Associate in Science-Transfer degree allows students to prepare for

upper division study toward a Bachelor of Science degree. This degree gives students the opportunity to make substantial progress toward fulfilling major requirements while completing at least half of the Breadth requirements for Humanities and Social Science.

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.

One of the processes to prepare students to take classes at BBCC is to determine a student's math placement. There are multiple ways to determine what math class a student should begin with including standardized test scores such as the SAT or ACT, courses taken and grades earned in recent high school classes, a college transcript with prior math courses, or taking a placement test at BBCC. A math placement score is required 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

MATH& 151 Calculus I

MATH& 152 Calculus II

Math& 153 Calculus III

MATH 220 Linear Algebra

MATH 230 Differential Equations

MATH& 254 Calculus IV

Mathematics Course Descriptions

MATH& 107 : Math in Society

This course will introduce the non-math/science major to mathematical applications in a variety of disciplines.

Distribution

Math/Science Non- Laboratory, Symbolic or Quantitative Reasoning

Credits 5

Lecture Hours 55

Prerequisites

[MATH 098](#) or [MATH 099](#) with a passing grade equivalent to a 2.0, or 5 credits of [MAP 119](#) with a 2.0 or better, or a higher placement

Quarters Offered

Fall, Winter, Spring, Summer

MATH& 131 : Math for Elem Educ 1

Covers the mathematics elementary teachers are responsible for teaching at K-8 levels, including computing with whole numbers, fractions, decimals and percents; multiplicative comparisons and reasoning; ratio, rates, and proportions; negative numbers; algebra and graphing; relationships between time, distance and rate; patterns and functions.

Distribution

Math/Science Non- Laboratory, Symbolic or Quantitative Reasoning

Credits 5

Lecture Hours 55

Prerequisites

[MATH 098](#) or [MATH 099](#) with a passing grade equivalent to a 2.0, or 5 credits of [MAP 119](#) with a 2.0 or better, or a higher placement

Quarters Offered

Winter

MATH& 132 : Math for Elem Educ 2

Covers the mathematics elementary teachers are responsible for teaching at K-8 levels, including polyhedra, polygons, symmetry, tessellations, size changes, curves, curved surfaces, transformations, length, angles, area and surface area, volume, measure formulas,

simulating probabilistic situations; sampling; and organizing and interpreting data with one and two variables.

Distribution

Math/Science Non- Laboratory, Symbolic or Quantitative Reasoning

Credits 5

Lecture Hours 55

Prerequisites

[MATH 098](#) or [MATH 099](#) with a passing grade equivalent to a 2.0, or 5 credits of [MAP 119](#) with a 2.0 or better, or a higher placement. Can be taken concurrently with or before [MATH& 131](#).

Quarters Offered

Spring

MATH& 141 : Precalculus I

This course will present the following concepts: college level algebra, introduction to functions and graphing, the graphs and properties of polynomial, rational, radical, exponential and logarithmic functions.

Distribution

Math/Science Non- Laboratory, Symbolic or Quantitative Reasoning

Credits 5

Lecture Hours 55

Prerequisites

[MATH 099](#) with a passing grade equivalent to a 2.0, or 5 credits of [MAP 121](#) with a 2.0 or better, or a higher placement

Quarters Offered

Fall, Winter, Spring, Summer

MATH& 142 : Precalculus II

In preparation for calculus this is a comprehensive study of trigonometry, circular functions, right triangle trigonometry, analytical trigonometry. Sequences, series and induction are also covered.

Distribution

Symbolic or Quantitative Reasoning, Math/Science Non-Laboratory

Credits 5

Lecture Hours 55

Prerequisites

MATH& 141 or Concurrent enrollment in MATH& 141.

Quarters Offered

Fall, Winter, Spring

MATH& 146 : Introduction to Statistics

This course is an introduction to descriptive statistics, probability and its applications, statistical inference and hypothesis testing, predictive statistics and linear regression.

Distribution

Math/Science Non- Laboratory, Symbolic or Quantitative Reasoning

Credits 5

Lecture Hours 55

Prerequisites

[MATH 098](#) or [MATH 099](#) with a passing grade equivalent to a 2.0, or 5 credits of [MAP 119](#) with a 2.0 or better, or a higher placement

Quarters Offered

Fall, Winter, Spring, Summer

MATH& 148 : Business Calculus

This is an introductory calculus course for business and economics students. It includes an introduction to rates of change, differentiation, integration, areas, and appropriate calculus techniques. There are also applications to marginal analysis in economics, optimization and other relevant applications..

Distribution

Symbolic or Quantitative Reasoning, Math/Science Non-Laboratory

Credits 5

Lecture Hours 55

Prerequisites

MATH& 141, placement in the class or instructor permission.

Quarters Offered

Winter, Spring

MATH& 151 : Calculus I

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. (Formerly Math 171)

Distribution

Math/Science Non- Laboratory, Symbolic or Quantitative Reasoning

Credits 5

Lecture Hours 55

Prerequisites

MATH& 141 & MATH& 142, or BBCC placement exam, or instructor permission

Quarters Offered

Fall, Winter, Spring

MATH& 152 : Calculus II

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.

Distribution

Symbolic or Quantitative Reasoning, Math/Science Non-Laboratory

Credits 5

Lecture Hours 55

Prerequisites

MATH& 151 or instructor permission

Quarters Offered

Fall, Winter, Spring

MATH& 153 : Calculus III

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 MaLauren 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.

Distribution

Math/Science Non- Laboratory, Symbolic or Quantitative Reasoning

Credits 5

Lecture Hours 55

Prerequisite or Corequisite

MATH& 152 or instructor permission

Quarters Offered

Fall, Winter, Spring

MATH& 254 : Calculus IV

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, Greens and Stokes theorems, surface integrals, and the divergence theorem.

Distribution

Math/Science Non- Laboratory, Symbolic or Quantitative Reasoning

Credits 5

Lecture Hours 55

Prerequisites

[MATH& 153](#) or permission of instructor.

Quarters Offered

Fall

MATH 094 : Introduction to Algebra

This course includes the study of basic arithmetic and algebraic concepts and operations including operations with integers, fractions, decimals, percents, order of operations, measurement, the metric system, algebraic expressions, formulas and simple linear equations. Credit cannot be earned in both [MAP 117](#) and MATH 094. (Formerly MPC 090, Math 090)

Credits 5

Lecture Hours 55

Prerequisites

Placement into [MATH 094/](#) [MAP 117](#).

Quarters Offered

Fall, Winter, Spring, Summer

MATH 098 : Intermediate Algebra I

This course is designed to prepare the student for [MATH&146](#), [MATH&107](#), [MATH&131](#), [MATH&132](#), and [PHIL&120](#) as well as science course work. Topics include the study of intermediate algebraic operations and concepts, and the

structure and use of algebra. This includes solving, graphing, and applications of linear equations; working with quadratic functions, introduction to functions and models; and exponential and logarithmic functions along with applications. Students cannot earn credit for both [MAP 119](#) and MATH 098 because they are equivalent courses. Students planning to take [MATH&141](#) should enroll in [MATH099](#) rather than this course. Prerequisite: Completion of [MATH 094/MAP 117](#) or a higher placement . (Formerly: MPC 095, 096).

Credits 5

Lecture Hours 55

Prerequisites

Completion of [MATH 094/MAP 117](#) or a higher placement.

Quarters Offered

Fall, Winter, Spring, Summer

MATH 099 : Intermediate Algebra for STEM/ Business Majors

This course is designed to prepare STEM and Business students for precalculus, [MATH&141](#). It includes the study of functions, including linear, quadratic, exponential, and logarithmic; inequalities; systems of equations; algebra of polynomials and exponents; rational expressions; radical expressions and equations; and complex numbers. Credit cannot be earned in both [MAP 121](#) and [MATH 099](#) because they are equivalent courses. Students who do not plan to take [MATH&141](#) should enroll in [MATH 098](#) rather than this course.

Credits 5

Lecture Hours 55

Prerequisites

Completion of [MATH 094/MAP 117](#) or a higher placement

Quarters Offered

Fall, Winter, Spring, Summer

MATH 220 : Linear Algebra

A study of matrix algebra and systems of equations, abstract vector spaces including basis and dimension, linear transformations, eigenvalues and eigenvectors.

Distribution

Symbolic or Quantitative Reasoning, Math/Science Non-Laboratory

Credits 5

Lecture Hours 55

Prerequisites

MATH& 152 or instructor permission

Quarters Offered

Winter

MATH 230 : Differential Equations

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.

Distribution

Math/Science Non-Laboratory, Symbolic or Quantitative Reasoning

Credits 5

Lecture Hours 55

Prerequisites

[MATH& 153](#) or instructor permission

Quarters Offered

Spring

Math 099X : Bridge Intermediate Algebra for STEM/Business Majors

This course is a bridge course for students who have passed MATH 098 intended to prepare STEM and Business students for precalculus, MATH&141. It includes the study of systems of equations, rational expressions, and radical expressions and equations. Credit cannot be earned in both MAP 121 and MATH 099X because they are equivalent courses.

Credits 2

Lecture Hours 22

Prerequisites

Completion of [MATH 098](#) or all five credits of [MAP 119](#)

Medical Assistant

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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 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 115, 116, 195)

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

Requirements for the Medical Assistant Program

- Letter of intent must be submitted by due date if student wishes to be considered for the winter clinical cohort (MA 115, MA 116)
- Provide evidence of a satisfactory physical examination before the beginning of MA 115
- Provide evidence of a current Healthcare Provider CPR card prior to MA 115 (BBCC's Medical Assistant Program requires CPR cards to be updated annually)
- Provide evidence of up-to-date immunizations and have initiated the Hepatitis B series prior to MA 115
- Students should have no more than one remaining general education requirement prior to enrollment in 195 and must intend to take it concurrently to complete certification.
- Have a satisfactory criminal background check prior to MA 195
- Provide evidence of negative drug testing prior to the start of MA 195

Medical Assisting AAS

Degree Type

Associate in Applied Science

The MA program prepares students with the knowledge, skills, and abilities to obtain an entry level position as a national and state certified Medical Assistant. Completion of this program leads to roles in clinics, urgent care facilities and some larger hospitals. The certificate as well as the AAS degree will prepare students to use administrative and clinical skills in a healthcare setting that often includes multitasking, problem solving and the ability to work as a team with other healthcare professionals. Medical Assisting will prepare students to obtain adult and pediatric vital signs, perform clinic based laboratory testing, assist with minor surgeries and perform injections as well phlebotomy.

Program Learning Outcomes:

- IO1 Communication
Demonstrate clear, effective communications with patients members of the healthcare team in a variety of structured settings
- IO2 Quantitative Reasoning
Students will be able to reason mathematically using methods appropriate to the profession
- IO3 Human Relations/Workplace Skills
Demonstrate professional attitude and behavior when caring for patients and collaborating with other health care professionals at all times.
- PO4 Demonstrate cultural competency when caring for patients
- PO5 Prioritize, organize, and complete assignments in a timely manner as directed by the delegator
- PO6 Demonstrate delegated skills and procedures

Medical Assisting Certificate

Course Code	Title	Credits
CMST& 220	Public Speaking	5
ENGL& 101	English Composition I	5
FAD 150	Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens	2
HED 119	Medical Terminology	5
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 160	Pharmacology for Allied Health	3
HED 239	Medical Ethics	2
MA 115	Clinical Procedures I	7
MA 116	Clinical Procedures II	4
MA 195	Externship/Practicum for the 6 Medical Assistant	
MA 197	Externship/Practicum Seminar	1
MAP 117	Applied Math for Workforce Programs I	1-5
PSYC& 100	General Psychology	5

Additional Course Requirements

Course Code	Title	Credits
BIM 113	The Medical Office	5
CSS 105	Introduction to Healthcare Studies	3
PSYC& 200	Lifespan Psychology	5
NUTR& 101	Nutrition	5
	Advisor Approved Electives/ Transfer Courses	
	Total Credits	90

MA Certificate of Achievement Degree Type

Certificate

The MA Certificate of Achievement as well as the AAS degree prepares students with the knowledge, skills, and abilities to obtain an entry level position as a national and state certified Medical Assistant.

Program Learning Outcomes

- IO1 Communication
Demonstrate clear, effective communications with patients members of the healthcare team in a variety of structured settings
- IO 2Quantitative Reasoning
Students will be able to reason mathematically using methods appropriate to the profession
- IO3 Human Relations/Workplace Skills
Demonstrate professional attitude and behavior when caring for patients and collaborating with other health care professionals at all times.
- PO4 Demonstrate cultural competency when caring for patients
- PO5 Prioritize, organize, and complete assignments in a timely manner as directed by the delegator
- PO6 Demonstrate delegated skills and procedures

Required Courses

Course Code	Title	Credits
CMST& 220	Public Speaking	5
ENGL& 101	English Composition I	5
FAD 150	Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens	2
HED 119	Medical Terminology	5
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 239	Medical Ethics	2
HED 160	Pharmacology for Allied Health	3
MA 115	Clinical Procedures I	7
MA 116	Clinical Procedures II	4
MA 195	Externship/Practicum for the Medical Assistant	6
MA 197	Externship/Practicum Seminar	1
MAP 117	Applied Math for Workforce Programs I	1-5
PSYC& 100	General Psychology	5
	Total Credits	65

Medical Assistant Course Descriptions

MA 115 : Clinical Procedures I

This course is an introduction to medical assisting. It introduces basic clinical skills and medical front office skills, the importance of work ethics and interpersonal communications, and medication and injection administration.

Credits 7

Lecture Hours 44

Lab Hours 66

Prerequisites

Admission to the Medical Assisting Program which includes demonstration that the general education courses of the Medical Assistant Certificate ([ENGL& 101](#), [PSYC& 100](#) and [CMST& 220](#)) are able to be completed by completion of externship courses ([MA 195](#) and [197](#)).

Completion of [HED 119](#) and [HED 121](#), each with a 2.0 or better; and completion of or concurrent enrollment in [HED 122](#), [HED 239](#), and 5 credits of [MAP 117](#), each with a 2.0 or better.

MA 116 : Clinical Procedures II

This course builds upon knowledge and skills acquired during Clinical Procedures I. The students will investigate different specialty practices, phlebotomy and the clinical laboratory, and medical abbreviations.

Credits 4

Lecture Hours 22

Lab Hours 44

Prerequisites

Minimum final grade of 2.0 in [MA 115](#) and [HED 122](#); completion of or current enrollment in [HED 123](#), [HED 160](#), and [FAD 150](#) each with a 2.0 or better.

In order to be able to complete the needed general education requirements by the completion of externship courses ([MA 195](#) and [MA 197](#)), may require concurrent enrollment in [ENGL& 101](#), [PSYC& 100](#), or [CMST& 220](#).

MA 195 : Externship/Practicum for the Medical Assistant

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 a classroom seminar where students and faculty can review on-the-job experiences.

Credits 6

Clinical Hours 198

Prerequisites

Passing score for the American Medical Technologist national certification examination

and instructor permission; minimum final grade of 2.0 in [MA 116](#), [HED 123](#), [HED 160](#), and [FAD 150](#). Must be taken concurrently with [MA 197](#).

Must be concurrently enrolled in any remaining (no more than one) general education course from the Medical Assistant Certificate ([ENGL& 101](#), [PSYC& 100](#), or [CMST& 220](#)).

Quarters Offered

Summer

MA 197 : Externship/Practicum Seminar

This class enhances the students' abilities and work-based learning at the externship site. Students will review important topics by applying concepts acquired in the clinical area. Students will share information, procedures and experiences in different medical settings with other students. Visitation to medical facilities will be a component of this course.

Credits 1

Lecture Hours 11

Prerequisites

Passing score for the American Medical Technologist national certification examination and instructor permission; minimum final grade of 2.0 in [MA 116](#), [HED 123](#), [HED 160](#), and [FAD 150](#). Must be taken concurrently with [MA 195](#).

Must be concurrently enrolled in any remaining (no more than one) general education course from the Medical Assistant Certificate ([ENGL& 101](#), [PSYC& 100](#), or [CMST& 220](#)).

Corequisites

MA 195: Externship/Practicum for the Medical Assistant

Quarters Offered

Summer

Music

John Owens

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The music department emphasizes a worldwide perspective and appreciation for music, which includes cultural, historical, and hands-on musical study. Through specialized lecture courses, performance-based labs, and ensembles students have the ability to express themselves through a variety of musical endeavors. The department provides basic disciplines in music for music majors, non-majors, and people in the community.

Music courses may be taken as part of the Associate in Arts and Science DTA degree. These courses may be used toward the Humanities Breadth requirement or for Specified or General Elective credit. Students seeking Associate in Arts and Science DTA degree should refer to the catalog section "Degrees & Certificates" for a detailed description of the degree, its program outcomes, and degree requirements.

This program offers of study for individuals preparing for a career in the music field that does not require a degree or for their own personal enrichment. Since programs differ at each college, students should contact BBCC's Music Instructor and consult program outlines published by the college or university they intend to transfer. Recommended courses are listed below.

Recommended Pre-Major Courses

MUSC 115 Group Piano I

MUSC 116 Group Piano II

MUSC 117 Group Piano III

MUSC 215 Group Piano IV

MUSC 216 Group Piano V

MUSC 217 Group Piano VI

Music Course Descriptions

MUSC& 105 : Music Appreciation

This course is designed to acquaint students with the elements of music and enhance the students experience in listening to music from a global perspective. By drawing attention to the wide variety of music and the place/role of music in different cultures, students will develop an awareness of the diverse musical styles and cultures in the United States and throughout the world.

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

Quarters Offered

Fall, Winter, Spring, Summer

MUSC 100 : Introduction to Music

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.

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

MUSC 101 : Ukulele Orchestra (Ukestra)

The ukulele is an extremely popular instrument for good reason. It is inexpensive, portable, and approachable by everyone. This course covers everything you need to know about the ukulele. This includes uke anatomy, tuning, types, reading chord diagrams, and strumming patterns. Students will learn a wide variety of popular and classic songs they can play anywhere. This course is suitable for absolute beginners through intermediate players.

Distribution

Humanities Performance/Skill

Credits 1

Lab Hours 22

MUSC 110 : College Chorus

This traditional ensemble made up of mixed voices rehearses a wide variety of choral literature for study and performance. This ensemble will perform quarterly for campus and community events. This course may be repeated for up to six credits.

Distribution

Humanities Performance/Skill

Credits 1

Lab Hours 22

Quarters Offered

Winter

MUSC 114 : Mariachi Workshop

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.

Distribution

Humanities Performance/Skill

Credits 3

Lecture Hours 11

Lab Hours 44

MUSC 115 : Group Piano I

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.

Distribution

Humanities Performance/Skill

Credits 2

Lecture Hours 22

Lab Hours 11**Quarters Offered**

Fall, Winter, Spring

MUSC 116 : Group Piano II

This course presents the basic to intermediate concepts and skills to develop performing proficiency at the piano. Musical activities and projects will build growth in technical skills such as major and minor scale patterns, musical skills such as sight reading and improvisation, theoretical concepts such as notation, rhythm patterns, melodic shapes and forms, and creative skills such as completing melodic phrases and inventing melodic variations. Repertoire will reflect the development of increasingly advanced solo and ensemble pieces.

Distribution

Humanities Performance/Skill

Credits 2**Lecture Hours 22****Lab Hours 11****Quarters Offered**

Fall, Winter, Spring

MUSC 117 : Group Piano III

This course presents the intermediate concepts and skills to develop performing proficiency at the piano. Musical activities and projects will build growth in technical skills such as major and minor scale patterns, musical skills such as sight reading and improvisation, theoretical concepts such as notation, rhythm patterns, melodic shapes and forms, and creative skills such as completing melodic phrases and inventing melodic variations. Repertoire will reflect the development of increasingly advanced solo and ensemble pieces.

Distribution

Humanities Performance/Skill

Credits 2**Lecture Hours 11****Lab Hours 22****Quarters Offered**

Fall, Winter, Spring

MUSC 120 : College Band

This traditional ensemble made up of woodwind, brass, and percussion instruments rehearses a wide variety of concert band literature for study and performance. This ensemble will perform quarterly for campus and community events. This course may be repeated for up to six credits.

Distribution

Humanities Performance/Skill

Credits 1**Lab Hours 22****Quarters Offered**

Spring

MUSC 124 : Orchestra I

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.

Distribution

Humanities Performance/Skill

Credits 2**Lecture Hours 11****Lab Hours 22****Prerequisites**

Performance ability on an orchestral instrument.

MUSC 134 : Group Guitar

This course provides students with an interactive approach to the fundamentals of playing the guitar. Each student's playing aptitude will be accommodated with different options within a unified set of goals. It will include reading tablature and standard notation, introducing chords and solo pieces using a variety of techniques, and provide an overview of basic guitar care and maintenance. This course may be repeated for up to six credits.

Distribution

Humanities Performance/Skill

Credits 2**Lecture Hours 11****Lab Hours 22****Quarters Offered**

Fall, Winter, Spring

MUSC 170 : History of Jazz

This course covers the history and origin of Jazz and its stylistic development from the various periods of pre-jazz to today. The class will include an extensive study of important musicians, composers, arrangers, and styles which evolved the genre. The class will include detailed listening assignments and an introduction to jazz musical vocabulary and concepts.

Distribution

Humanities Lecture, Diversity

Credits 5**Lecture Hours** 55**Quarters Offered**

Winter

MUSC 174 : History of Rock and Roll

This course presents the history of rock music from its origins to the present day. Students will study all major genres, as well as the social, political, technological, and economic forces that shaped the music. The class will include detailed listening assignments and an introduction to rock music vocabulary and concepts.

Distribution

Humanities Lecture

Credits 5**Lecture Hours** 55**Quarters Offered**

Spring

MUSC 175 : Music of the World

This course introduces world music tradition, including both sound and socio-cultural dimensions of music. Students will study the musical styles of major non-Western cultures, including Africa, India, Asia, Indonesia, and Eastern Europe. Topic will include instrumentation, rhythmic structure, melodic structure, song forms, composition, improvisation, family and community participation, political/economic connection, and religious involvement.

Distribution

Humanities Lecture, Diversity

Credits 5**Lecture Hours** 55**Quarters Offered**

Fall

MUSC 204 : Music Technology Workshop

This course introduces concepts in modern electronic music production. It will include acoustics, notation, MIDI, loops, sampling, audio recording, editing, and mixing through class instruction and hands-on learning. Student projects will culminate in the preparation of student compositions and arrangements. Students can repeat this course for up to 6 credits.

Distribution

Humanities Lecture

Credits 3**Lecture Hours** 22**Lab Hours** 22**Quarters Offered**

Spring

MUSC 215 : Group Piano IV

This course presents the intermediate concepts and skills to develop performing proficiency at the piano. Musical activities and projects will build growth in technical skills such as major and minor scale patterns, musical skills such as sight reading and improvisation, theoretical concepts such as notation, rhythm patterns, melodic shapes and forms, and creative skills such as completing melodic phrases and inventing melodic variations. Repertoire will reflect the development of increasingly advanced solo and ensemble pieces.

Distribution

Humanities Performance/Skill

Credits 2**Lab Hours** 44**Quarters Offered**

Fall, Winter, Spring

MUSC 216 : Group Piano V

This course presents the intermediate and advanced concepts and skills to develop performing proficiency at the piano. Musical activities and projects will build growth in technical skills such as major and minor scale patterns, musical skills such as sight reading and

improvisation, theoretical concepts such as notation, rhythm patterns, melodic shapes and forms, and creative skills such as completing melodic phrases and inventing melodic variations. Repertoire will reflect the development of increasingly advanced solo and ensemble pieces.

Distribution

Humanities Performance/Skill

Credits 2

Lab Hours 44

Quarters Offered

Fall, Winter, Spring

MUSC 217 : Group Piano VI

This course presents the advanced concepts and skills to develop performing proficiency at the piano. Musical activities and projects will build growth in technical skills such as major and minor scale patterns, musical skills such as sight reading and improvisation, theoretical concepts such as notation, rhythm patterns, melodic shapes and forms, and creative skills such as completing melodic phrases and inventing melodic variations. Repertoire will reflect the development of increasingly advanced solo and ensemble pieces.

Distribution

Humanities Performance/Skill

Credits 2

Lab Hours 44

Quarters Offered

Fall, Winter, Spring

MUSC 224 : Orchestra II

A community and college orchestra that plays for community musicals and graduation as well as other functions throughout the year. May be repeated for credit.

Distribution

Humanities Performance/Skill

Credits 2

Lecture Hours 11

Lab Hours 22

Prerequisites

Performance ability on an orchestral instrument.

MUSC 260 : Percussion Ensemble

This ensemble rehearses, studies, and performs percussion music suitable for performance and/or competition. Scheduled performances and rehearsals are required. May be repeated for up to six (6) credits.

Distribution

Humanities Performance/Skill

Credits 1

Lab Hours 22

Prerequisites

Instructor permission. Auditions may be required.

MUSC 270 : Musical Theatre Workshop

This class explores Musical Theatre in a studio workshop setting. Students will study the work of the actor/singer/dancer and use their gained knowledge to develop as performers. Also, students will prepare and present as soloists as well as members of small groups and larger ensembles. Since this is a workshop course, students will prepare material for class presentation and critique. The class will also focus on the audition process, musical theatre history, and repertoire selection. Finally, the entire class will participate in a culminating showcase performance at the end of the quarter. This course may be repeated for up to six credits. Some performances may be held at off-campus venues.

Distribution

Humanities Performance/Skill

Credits 1

Lab Hours 22

Nursing

Katherine Christian, Director of Health Education Programs

509.793.2130

Emily Eidson, Division Chair

509.793.2138

Mercedes Gonzalez-Aller

509.793.2136

Nursingprogram@bigbend.edu
509.793.2138

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

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

The Associate in Nursing DTA MRP degree is approved by the Washington State Board of Nursing and the Washington State Board for Community and Technical Colleges, and accredited by the Accreditation Commission for Education in Nursing, 3390 Peachtree Rd NE, Suite 1400, Atlanta, GA 30326; tel 404.975.5000.

The program provides a three year Associate in Nursing DTA MRP as well as a Certificate of Accomplishment Nursing Assistant Program (one quarter).

Physical and Psychosocial Requirements for the Nursing Program:

Students planning on entering the Nursing Program need to be aware of the fact that the physical requirements listed below are expected

by employers. Therefore, students will be expected to meet the same criteria during clinical/lab instruction in the Nursing program.

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

Application Procedure

Students are admitted each year in the fall quarter only. Prerequisite courses are done independently prior to applying to the nursing program. Students may apply to the program through the online application on the program's website; applications for Fall 2024 will be accepted from March 15, 2024-April 2, 2024. The program's website 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 information on the nursing program website). Prerequisite courses must be completed or in progress prior to applying for a position in the BBCC Nursing program. 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 ADN Program Requirements

Before beginning the core Nursing program courses, the applicant will need to:

- a. Provide evidence of a satisfactory physical examination within the preceding six months, validating all physical requirements (see above)
- b. Provide evidence of a current AHA BLS Provider CPR Card**
- c. Have a satisfactory criminal background check
- d. Provide evidence of up-to-date immunizations and have initiated the Hepatitis B series
- e. Provide evidence of negative drug testing

BBCC's Nursing Program requires CPR cards to be updated annually

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 regionally accredited post-secondary 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.

The following schedule of courses is the recommended program for completing this degree. See a program advisor for substitute courses.

Nursing Assistant

nursingprogram@bigbend.edu

Successful completion of the one-quarter program prepares students to take the National Nurse Aid Assessment Examination. Successful completion of the examination is required to become licensed as a Nursing Assistant – Certified (NAC) in Washington State, prepared to work in community, long-term, and acute care settings.

The program is approved by the Washington State Nursing Care Quality Assurance Commission and is a valuable first step into the nursing profession.

Nursing Assistant Program Certificate of Accomplishment

Degree Type

Certificate

Program Learning Outcomes:

- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

Required Course

Course Code	Title	Credits
NUR 100	Nursing Assistant	9
Total Credits		9

Associate in Nursing DTA/MRP

Degree Type

Direct Transfer Agreement/Major Related Program

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

Successful completion of this degree prepares the student to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN). Successful completion of the

examination and subsequent licensure allows the student to enter the workforce as a Registered Nurse.

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

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. In addition to the general requirements listed below, derivative programs may have additional requirements as listed in the Programs of Study section. Students should prepare their quarterly schedules with the assistance of an advisor knowledgeable in their transfer area. Students should seek out their advisor for more information and guidance on possible courses to take to complete this degree and to prepare and plan for future transfer

Program Learning Outcomes:

- IO1 Communication
Communicate effectively to deliver relevant, accurate and complete information to patients, families, and the healthcare team
- IO2 Quantitative Reasoning
Students will be able to reason mathematically using methods appropriate to the profession
- IO3 Human Relations/Workplace Skills
Participate as a member of the healthcare team for educational and institutional growth
- PO4 Deliver safe and effective physical, psychosocial, cultural, and spiritual care to the whole person in a variety of settings

- PO5 Plan, initiate, and evaluate patient teaching including assessment of current knowledge, use of appropriate materials and techniques
- PO6 Demonstrate clinical decision-making from a theoretical knowledge base utilizing the nursing process to develop patient care plans that ensure safe, effective care in a variety of settings
- PO7 Assume responsibility and accountability in the practice of registered nursing as defined by the professional standards and codes of nursing

Associate in Nursing DTA MRP Degree Requirements:

To earn the Associate in Nursing DTA MRP degree, a student must:

- Complete their degree within three years from the quarter of entry based on the catalog in use at time of entering BBCC. After that date, students must meet any changes in graduation.
- Complete at least 135 transferable credits in designated courses numbered 100 or above with a grade point average (GPA) of 2.0 or higher.
- Earn a grade of at least a 2.0 in each prerequisite and corequisite course.
- Complete and submit an application for graduation to the Student Administrative Support Services Office before a degree will be awarded.

Note: No course may be used more than once for meeting degree requirements. Courses being used for the Associate in Nursing DTA MRP degree may not be taken pass/fail.

The 135 transferable credits must include the following:

Basic Requirements (15 credits)
A. Communication Skills (BS)

Course Code	Title	Credits
ENGL& 101	English Composition I	5
	ENGL& 102 or ENGL& 235 or ENGL& 201	5

B. Quantitative Skills (SQR)
Symbolic or Quantitative Reasoning

Course Code	Title	Credits
MATH& 146	Introduction to Statistics	5

Note: A minimum grade of 2.0 or higher in Intermediate Algebra or higher placement score is required for entrance into all SQR courses. Enrollment into any BBCC math course requires placement at the appropriate entrance level.

Breadth Requirements
A. Humanities (HU, HP)

Course Code	Title	Credits
CMST& 220	Public Speaking	5
PHIL 102	Ethics and Policy in Healthcare I	1
PHIL 103	Ethics and Policy in Healthcare II	1
PHIL 201	Ethics and Policy in Healthcare III	1
PHIL 202	Ethics and Policy in Healthcare IV	1
PHIL 203	Ethics and Policy in Healthcare V	1
	Student choice for remaining 5 credits in this category	5

B. Social Science (SS)

Course Code	Title	Credits
PSYC& 100	General Psychology	5
PSYC& 200	Lifespan Psychology	5
PSYC 101	Psychosocial Issues in Healthcare I	1
PSYC 102	Psychosocial Issues in Healthcare II	1
PSYC 103	Psychosocial Issues in Healthcare III	1
PSYC 201	Psychosocial Issues in Healthcare IV	1
PSYC 202	Psychosocial Issues in Healthcare V	1

C. Natural Science (NS, LS, MS)

Course Code	Title	Credits
CHEM& 121	Intro to Chemistry	5
BIOL& 160	General Biology with Lab	5
BIOL& 241	Human Anatomy and Physiology I	5
BIOL& 242	Human Anatomy and Physiology	5
NUTR& 101	Nutrition	5
BIOL& 260	Microbiology	5

Nursing Core Requirements

Course Code	Title	Credits
NUR 110	Fundamentals of Nursing	4
NUR 111	Fundamentals of Nursing Practicum	3
NUR 114	Pharmacology	2
NUR 120	Beginning Nursing Concepts I	5
NUR 121	Beginning Nursing Practicum I	4
NUR 130	Beginning Nursing Concepts II	5
NUR 131	Beginning Nursing Practicum II	5
NUR 135	Nursing Skills Laboratory	1
NUR 136	Nursing Skills Laboratory	1
NUR 137	Nursing Skills Laboratory	1
NUR 210	Advanced Nursing Concepts I	4
NUR 211	Advanced Nursing Practicum I	5
NUR 220	Advanced Nursing Concepts II	4
NUR 221	Advanced Nursing Practicum II	5
NUR 230	Advanced Nursing Concepts III	5
NUR 231	Advanced Nursing Practicum III	4
NUR 235	Nursing Skills Laboratory	1
NUR 236	Nursing Skills Laboratory	1

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

Most courses in this degree are designated. Refer to the Humanities distribution list to help you choose a class within this distribution category that meets your educational goals and interests. Refer to the Programs of Study pages for a full listing of courses in each discipline and which quarter each course will be taught; ask your advisor to help you. Prerequisite and corequisite courses must be completed with a minimum of 2.0 in each course.

The following schedule of courses is the recommended program for completing this degree. See a program advisor for substitute courses.

First Year – Prerequisites to Apply to Nursing ADN Program Fall Quarter

Course Code	Title	Credits
BIOL& 160	General Biology with Lab	5
CHEM& 121	Intro to Chemistry	5
ENGL& 101	English Composition I	5

Winter Quarter

Course Code	Title	Credits
BIOL& 241	Human Anatomy and Physiology I	5
ENGL& 102	Composition II	5
	Advisor approved Humanities (5 credits)	

Spring Quarter

Course Code	Title	Credits
BIOL& 242	Human Anatomy and Physiology	5
BIOL& 260	Microbiology	5
PSYC& 100	General Psychology	5

Second Year – Level I ADN Program Fall Quarter

Course Code	Title	Credits
NUR 110	Fundamentals of Nursing	4
NUR 111	Fundamentals of Nursing Practicum	3
NUR 135	Nursing Skills Laboratory	1
NUR 114	Pharmacology	2
PHIL 102	Ethics and Policy in Healthcare I	1
PSYC 101	Psychosocial Issues in Healthcare I	1
BIOL& 260	Microbiology	5

Winter Quarter

Course Code	Title	Credits
NUR 120	Beginning Nursing Concepts I	5
NUR 121	Beginning Nursing Practicum I	4
NUR 136	Nursing Skills Laboratory	1
PHIL 103	Ethics and Policy in Healthcare II	1
PSYC 102	Psychosocial Issues in Healthcare II	1
NUTR& 101	Nutrition	5

Spring Quarter

Note: PSYC& 100 General Psychology* if not taken previously

Course Code	Title	Credits
NUR 130	Beginning Nursing Concepts II	5
NUR 131	Beginning Nursing Practicum II	5
NUR 137	Nursing Skills Laboratory	1
PSYC 103	Psychosocial Issues in Healthcare III	1
PSYC& 100	General Psychology	5

Third Year – Level II ADN Program Fall Quarter

Note: PSYC& 200 Lifespan Psychology* if not taken previously

Course Code	Title	Credits
NUR 210	Advanced Nursing Concepts I	4
NUR 211	Advanced Nursing Practicum I	5
NUR 235	Nursing Skills Laboratory	1
PHIL 201	Ethics and Policy in Healthcare III	1
PSYC 201	Psychosocial Issues in Healthcare IV	1
PSYC& 200	Lifespan Psychology	5

Winter Quarter

Note: CMST& 220 Public Speaking* if not taken previously

Course Code	Title	Credits
NUR 220	Advanced Nursing Concepts II	4
NUR 221	Advanced Nursing Practicum II	5
NUR 236	Nursing Skills Laboratory	1
PHIL 202	Ethics and Policy in Healthcare IV	1
CMST& 220	Public Speaking	5

Spring Quarter

Note: MATH& 146 Introduction to Statistics* if not taken previously

Course Code	Title	Credits
NUR 230	Advanced Nursing Concepts III	5
NUR 231	Advanced Nursing Practicum III	4
PHIL 203	Ethics and Policy in Healthcare V	1
PSYC 202	Psychosocial Issues in Healthcare V	1
MATH& 146	Introduction to Statistics	5

NOTE: All noted courses may be completed at any point prior to entering the Nursing ADN program or during the quarter in which they are listed.

Total Credits

135

Associate in Pre-Nursing DTA/MRP Degree Type

Direct Transfer Agreement/Major Related Program

This pathway is applicable to students planning to prepare for an upper division Bachelor of Science degree in Nursing BSN (Entry-to-practice/basic BSN pathway). Students should enter the college or university at junior standing however, admission to the nursing program at that college or university is not guaranteed. Students choosing this degree are advised to contact their potential transfer institution early his/her course of study regarding specific course choices in each degree area where options are listed as well as for minimum GPA 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. Students should seek out their advisor for more information and guidance on possible courses to take to complete this degree and to prepare and plan for future transfer.

Associate in Pre-Nursing DTA/MRP (90 credits)

Program Learning Outcomes:

- IO1 Communication
Students will be able to communicate clearly and effectively.

- IO2 Quantitative Reasoning
Students will be able to reason mathematically.
- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.
- PO4 Cultural, Social, Political Aspects
Students will be able to recognize or articulate personal/interpersonal aspects of, or connections between, diverse cultural, social, or political contexts.
- PO5 Problem Solving
Students will be able to solve problems by gathering, interpreting, combining and/or applying information from multiple sources.

Degree Requirements

To earn the Associate in Pre-Nursing DTA/MRP degree, a student must:

- Complete their degree within three years from the quarter of entry based on the catalog in use at time of entering BBCC. After that date, students must meet any changes in graduation.
- Complete at least 90 transferable credits in courses numbered 100 or above with a grade point average (GPA) of 2.0 or higher.
Note: Nursing related programs are competitive and may require a higher GPA than 2.0 overall.
- Earn a grade of at least a 1.0 in each college level course used in the degree. **Note:** Minimum GPA requirements may vary among nursing programs.
- Complete and submit an application for graduation to the Student Administrative Support Services Office before a degree with be awarded.

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

used for the basic or breadth requirements in the Associate in Pre-Nursing DTA/MRP degree may not be taken pass/fail.

The 90 transferable credits must include the following:

Basic Requirements (15 credits) Communication Skills (BS)

Course Code	Title	Credits
ENGL& 101	English Composition I	5
	ENGL& 102 or ENGL& 235 or ENGL& 201	5

Quantitative Skills (SQR)

Symbolic or Quantitative Reasoning

Note: A minimum grade of 2.0 or higher in Intermediate Algebra or higher placement score is required for entrance into all SQR courses. Enrollment into any BBCC math course requires placement at the appropriate entrance level

Course Code	Title	Credits
MATH& 146	Introduction to Statistics	5

General Education Courses – 60 credits

Humanities (HU, HP)

Select from at least two of the disciplines listed on the Humanities distribution list with no more than 10 credits from any one discipline. No more than 5 credits in foreign language **at the 100 level** may apply to this category. No more than 5 credits in humanities performance/skill credits (HP) may apply to this requirement.

Course Code	Title	Credits
	CMST& 220 or CMST& 210	5

Student choice for remaining 10 credits in this category – Students encouraged to take courses that provide them with an understanding of and sensitivity to human diversity

Social Science (SS)

Course Code	Title	Credits
PSYC& 100	General Psychology	5
PSYC& 200	Lifespan Psychology	5

Social science course with diversity focus (5 credits)

Natural Science (NS, LS, MS)

Course Code	Title	Credits
BIOL& 160	General Biology with Lab	5
BIOL& 241	Human Anatomy and Physiology I	5
BIOL& 242	Human Anatomy and Physiology	5
BIOL& 260	Microbiology	5
CHEM& 121	Intro to Chemistry	5
CHEM& 131	Intro to Organic/Biochem	5
NUTR& 101	Nutrition	5

Physical Education/Health & Wellness

Complete one of the following:

No more than 3 PEH Activity (AC) credits may be used in the degree.

Course Code	Title	Credits
PEH 100	Lifetime Wellness	3
PEH 178	Principles of Fitness	3
	Three PEH Activity [AC] Credits	3

General Electives

Course Code	Title	Credits
	Student choice for up to 7 credits	

Advising Maps

An advising map for the As Pre-Nursing DTA/MRP degree is available on the BBCC Website; use the Academics dropdown and choose the Programs & Degrees link below the Explore heading and scroll down to the bottom of the page to the Advising Maps button. Once on the Advising Maps page look for Pre-Nursing – Transfer DTA MRP. The advising map is helpful to prepare for advising and registration each quarter. Students should maintain an accurate record of courses completed and bring their advising map with them for advising appointments.

The following schedule of courses is a recommended guide for completing this degree. See a program advisor for specific courses. Many courses are designated within this degree. Refer to the distribution lists to help you choose the remaining classes within each distribution category that meet your educational goals and interests. Refer to the Programs of Study pages for a full listing of courses in each discipline and which quarter each course will be taught. Ask your advisor to help you choose.

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

First Year

Fall Quarter

* If you have placed directly into [MATH& 146](#), take it right away. If not, you will need to take courses in pre-college math before you can take MATH& 146. Since many students place into MATH& 146 we are showing a possible schedule using that starting point.

** Instead of [PEH 100](#) take [PEH 178](#) or take 3 PEH AC classes during three different quarters.

Course Code	Title	Credits
ENGL& 101	English Composition I	5
MATH& 146	Introduction to Statistics	5
	General Elective (2 credits)	2
PEH 100	Lifetime Wellness	3

Winter Quarter

Course Code	Title	Credits
ENGL& 102	Composition II	5
CHEM& 121	Intro to Chemistry	5
	CMST& 220 or CMST& 210	5

Spring Quarter

*Instead of BIOL& 100 (LS), take elective of your choice

Course Code	Title	Credits
BIOL& 100	Survey of Biology	5
CHEM& 131	Intro to Organic/Biochem	5
PSYC& 100	General Psychology	5

Second Year

Fall Quarter

Course Code	Title	Credits
BIOL& 160	General Biology with Lab	5
NUTR& 101	Nutrition	5
	Social science course with diversity focus (5 credits)	

Winter Quarter

Course Code	Title	Credits
BIOL& 241	Human Anatomy and Physiology I	5
	Any Humanities Breadth from distribution list (HU) (5 credits)	
PSYC& 200	Lifespan Psychology	5

Spring Quarter

Course Code	Title	Credits
BIOL& 242	Human Anatomy and Physiology	5
	Any Humanities Breadth from distribution list (HU) (5 credits)	
BIOL& 260	Microbiology	5

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

Total Credits	90
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Nursing Course Descriptions

NUR 100 : Nursing Assistant

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.

Credits 9

Lecture Hours 44

Lab Hours 110

Prerequisites

Read, write, speak and understand English at the level necessary for performing duties of the nursing assistant. (Placement in ENGL 099 or above) GTE Dual Credit available.

Quarters Offered

Fall, Winter, Spring

NUR 110 : Fundamentals of Nursing

Focus is on fundamental nursing theory for the practice of nursing upon which the Level IADN

Nursing student may apply the nursing process to identify and meet the cultural, physical, psychological, social, and spiritual needs of the adult and geriatric client.

Credits 4

Lecture Hours 44

Prerequisites

Admission into the Level I AD Nursing Program.

Quarters Offered

Fall

NUR 111 : Fundamentals of Nursing Practicum

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.

Credits 3

Lab Hours 66

Prerequisites

Admission into the Level I ADN nursing program.

Quarters Offered

Fall

NUR 114 : Pharmacology

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.

Credits 2

Lecture Hours 22

Prerequisites

Completion of [MATH 098](#)/[MAP 119](#) with a minimum grade of 2.0 or a higher placement.

Corequisites

[NUR 110](#) or instructor permission.

Quarters Offered

Fall

NUR 120 : Beginning Nursing Concepts I

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.

Credits 5

Lecture Hours 55

Prerequisites

[BIOL& 260](#), with a 2.0 G.P.A. or above

Quarters Offered

Winter

NUR 121 : Beginning Nursing Practicum I

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.

Credits 4

Lab Hours 88

Prerequisites

[BIOL& 260](#) with a 2.0 G.P.A or above.

Quarters Offered

Winter

NUR 130 : Beginning Nursing Concepts II

This course continues to focus on nursing theory as it relates to basic needs throughout the lifespan, including care of the pediatric patient.

Credits 5

Lecture Hours 55

Prerequisites

Admission into the nursing program and NUTR& 101 with a 2.0 G.P.A or above.

Quarters Offered

Spring

NUR 131 : Beginning Nursing Practicum II

Practical application in the clinical setting of nursing theory and skills taught in previous nursing courses and introduced in [NUR 130](#) and NUR 137. Practicum focuses on nursing care to a variety of patients across the lifespan, and will include experience in the inpatient mental health environment.

Credits 5

Lab Hours 110

Prerequisites

[NUTR& 101](#) with a 2.0 G.P.A or above.

Quarters Offered

Spring

NUR 135 : Nursing Skills Laboratory

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](#).

Credits 1

Lab Hours 22

Prerequisites

Admission into the Level I ADN Program.

Quarters Offered

Fall

NUR 136 : Nursing Skills Laboratory

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](#).

Credits 1

Lab Hours 22

Prerequisites

[BIO1& 260](#) with a 2.0 G.P.A or above.

Quarters Offered

Winter

NUR 137 : Nursing Skills Laboratory

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](#).

Credits 1

Lab Hours 22

Prerequisites

[NUTR&101](#) with a 2.0 G.P.A or above.

Quarters Offered

Spring

NUR 210 : Advanced Nursing Concepts I

Focus is on advanced nursing theory as it relates to complicated health deviations in patients throughout the lifespan.

Credits 4

Lecture Hours 44

Prerequisites

[PSYC& 100](#) with a 2.0 G.P.A. or above, or current LPN Licensure and permission of program director.

Quarters Offered

Fall

NUR 211 : Advanced Nursing Practicum I

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.

Credits 5

Lab Hours 110

Prerequisites

Admission to the Level II ADN Program.

Quarters Offered

Fall

NUR 220 : Advanced Nursing Concepts II

This course continues to focus on expansion of theoretical nursing knowledge related to complex disease states.

Credits 4

Lecture Hours 44

Prerequisites

[PSYC& 200](#), with a 2.0 G.P.A or above

Quarters Offered

Winter

NUR 221 : Advanced Nursing Practicum II

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.

Credits 5

Lab Hours 110

Prerequisites

[PSYC& 200](#) with a minimum 2.0 G.P.A or above

Quarters Offered

Winter

NUR 230 : Advanced Nursing Concepts III

Focus on advanced theoretical knowledge as it relates to complex/multiple disease entities and emergency situations.

Credits 5

Lecture Hours 55

Prerequisites

[CMST& 220](#) with a minimum 2.0 G.P.A or above.

Quarters Offered

Spring

NUR 231 : Advanced Nursing Practicum III

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.

Credits 4

Clinical Hours 132

Prerequisites

[CMST& 220](#) with a minimum 2.0 or above.

Quarters Offered

Spring

NUR 235 : Nursing Skills Laboratory

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](#).

Credits 1

Lab Hours 22

Prerequisites

Admission into the Level II ADN Program

Quarters Offered

Fall

NUR 236 : Nursing Skills Laboratory

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.

Credits 1

Lab Hours 22

Prerequisites

[PSYC& 200](#), with a 2.0 G.P.A or above.

Quarters Offered

Winter

Nutrition

Tyler Wallace, Division Chair

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Tylerw@bigbend.edu

Nutrition courses may be taken as part of the Associate in Arts and Science DTA degree as well as one of the courses included within the Nursing DTA. These courses may be used toward the Natural Science Breadth requirement or for Specified or General Elective credit. Students seeking Associate in Arts and Science DTA degree or the Nursing DTA should refer to the catalog section "Degrees & Certificates" for a detailed description of the degree, its program outcomes, and courses that will satisfy degree requirements.

Nutrition studies what we eat and how that food supports our health. This field studies health issues that are related to diet and our behaviors related to the foods that we eat. Nutrition includes chemistry, biology, and social science. Many specialties include exercise science, health and wellness, and nutrition education.

Individuals with degrees in nutrition often become nutritionists or health educators for schools, corporations, and healthcare facilities. Others become registered dietitians that work alongside healthcare professionals.

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

Nutrition Course Descriptions

NUTR& 101 : Nutrition

This course is intended for students pursuing careers in Nursing or other Allied Health fields. This course in nutrition 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: Highly recommend High School Biology with a B or better, BIOL 100, **OR** BIOL 160 with a 2.0 or higher within the last 5 years.

Distribution

Natural Science

Credits 5

Lecture Hours 55

Prerequisites

Highly recommend High School Biology with a B or better, BIOL 100, **OR** BIOL 160 with a 2.0 or higher within the last 5 years.

Quarters Offered

Fall, Winter, Spring, Summer

Open Doors Program

General Information

509.793.2304

BEdAInfo@bigbend.edu

Open Doors is a collaboration between BEdA and local high schools to offer students aged 16-21 another option to reengage with school and complete their high school diploma and/or GED. The student must meet eligibility criteria to enroll. Students may also receive college level credits, career focused certificates and transition to college while earning a high school diploma. For more information contact your high school counselor or the BEdA office at 509.793.2304 or by email at bedainfo@bigbend.edu.

Open Doors Program Course Descriptions

OPD 010 : Reading/Writing/Communication (HS English 1)

Reading/Writing/Communication (English 1) focuses on reading, writing, and language through the study of history, past and present, including conventions of traditional grammar, sentence structure, and paragraph structure. Speaking, listening, and study skills are reinforced through note taking, class discussion, and individual/group presentations and writing assignments. High school completion credit only. Students can earn 0.25-2.0 Freshman/Sophomore high school credits. This course may be repeated.

Prerequisites

Students must be referred from participating school district and registered in a Basic Skills Open Doors class.

OPD 011 : Reading/Writing/Communication (HS English 2)

Reading/Writing/Communication (HS English 2) focuses on reading, writing, and language through the study of history, past and present, including conventions of traditional grammar, sentence structure, and paragraph structure. Speaking, listening, and study skills are reinforced through note taking, class discussion, and individual/group presentations and writing assignments. High school completion credit only. Students can earn 0.25-2.0 Junior/Senior high school credits. This course may be repeated.

Prerequisites

Students must be referred from participating school district and registered in a Basic Skills Open Doors class.

OPD 020 : General Lab-Science

This lab course provides basic instruction and lab exposure related to physical, life and earth science content. High school completion credit only. Open Doors students can earn 0.25-2.0 high school credits. This course may be repeated.

Prerequisites

Students must be referred from participating school district and registered in a Basic Skills Open Doors class.

OPD 021 : General Non-Lab Science

This general non-lab science survey course provides basic instruction in physical, life and earth science, necessary for high school graduation. High school completion only. Students may earn 0.25-1 HS credit. This course may be repeated.

Prerequisites

Students must be referred from participating school district and registered in a Basic Skills Open Doors class.

OPD 030 : United States Constitution and Government

United States Constitution and Government traces the nation's history from the pre-colonial period to the present. Students learn about the Native American, European, and African people who lived in America before it became the United States. They examine the beliefs and philosophies that informed the American Revolution and the subsequent formation of the government and political system. Students investigate the economic, cultural, and social motives for the nation's expansion, as well as the conflicting notions of liberty that eventually resulted in civil war. High school completion credit only. Students may earn 0.25-1.0 HS credits. This course may be repeated.

Prerequisites

Students must be referred from participating school district and registered in a Basic Skills Open Doors class.

OPD 031 : Washington State Government and History

Washington State Government and History examines Washington history from native and European contact to the present. The study of Washington state includes an examination of the state constitution, key treaties, and tribal sovereignty issues, including the study of migration, differing cultural experiences, and human interactions with the environment. High

school completion credit only. Students may earn 0.25-0.50 HS credit This course may be repeated.

Prerequisites

Students must be referred from participating school district and registered in a Basic Skills Open Doors class.

OPD 032 : Contemporary World Events

Contemporary World Events examines modern world history and geography to identify global themes rooted in environmental issues, economic development, human rights, and civic action and responsibility. High school completion only. Open Doors students may earn 0.25-1 HS CWP or World History credit. This course may be repeated.

Prerequisites

Students must be referred from participating school district and registered in a Basic Skills Open Doors class.

OPD 033 : Civics

This civic course is to provide students with a basic understanding of civic life, politics, and government. The content will develop students' knowledge to help shape their civic character and civic responsibility.

Prerequisites

This course is designed for students who, at intake, have credits placing them at 9th or 10th grade and/or have earned less than half their credits for graduation.

OPD 035 : Fine Arts

This course will contextualize artistic study throughout other high school content areas including language, science, history, and elective credits or may be offered as a standalone class. Artistic expression and study may range from visual design, creative writing, textile, and natural product, performing arts or digital design as necessary for high school graduation. Independent study may be approved by instructor to include classes, specialized training or hobbies demonstrating artistic aptitude. High

school completion credit only. Open Doors students can earn 0.25–2.0 high school credits. This course may be repeated.

Prerequisites

Students must be referred from participating school district and registered in a Basic Skills Open Doors class.

OPD 045 : Elective and Personal Pathway (PPR)

The elective course is designed to enable students to further explore and develop special interest skills through independent study. Students may focus on personal, educational, or career pathways aligned with their Personal Pathway (PPR) and/or Elective credit goals. High school completion credit only. Students can earn 0.25–2.0 high school credits. This course may be repeated.

Prerequisites

Students must be referred from participating school district and registered in a Basic Skills Open Doors class.

OPD 095 : Open Doors Orientation Course

The main goal of this course is to assist students as they enter any BEdA program (high school completion or English language acquisition) by giving them the tools they will need to succeed while enrolled in BEdA.

Prerequisites

To enroll in the Open Doors program, students must be at least 16 years old. For the High School+ or ELA program, students must be 18 years old or older.

Philosophy

Dennis Knepp

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Philosophy@bigbend.edu

Philosophy courses may be taken as part of the Associate in Arts and Science DTA degree. These courses may be used toward the Humanities Breadth requirement or for Specified or General Elective credit. Students seeking Associate in Arts and Science DTA degree should refer to the

catalog section “Degrees & Certificates” for a detailed description of the degree, its program outcomes, and courses that will satisfy degree requirements.

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

Since programs differ at each college, students 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

PHIL& 101 Intro to Philosophy

PHIL& 120 Symbolic Logic

PHIL 210 Ethics

Philosophy Course Descriptions

PHIL& 101 : Intro to Philosophy

This course is an introduction to philosophy for students who have no previous background in the subject. The course presents a broad overview of philosophical topics of interest and importance such as the nature of knowledge and the contents of reality.

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

Quarters Offered

Winter, Spring

PHIL& 120 : Symbolic Logic

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. (Formerly: PHIL 106).

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

Prerequisites

Completion of [MATH 098](#)/[MAP 119](#) or a higher placement.

Quarters Offered

Winter, Spring

PHIL 102 : Ethics and Policy in Healthcare I

This is the first in a series of five courses exploring values, ethics, and legal decision-making frameworks and policies used to support the well-being of people and groups within the context of the healthcare professions.

Distribution

Humanities Lecture

Credits 1

Lecture Hours 11

Prerequisites

Admission into the Level IADN Nursing Program or instructor permission.

Corequisites

[NUR 110](#) or instructor permission.

Quarters Offered

Fall

PHIL 103 : Ethics and Policy in Healthcare II

This is the second in a series of five courses exploring values, ethics, and legal decision-making frameworks and policies used to support the well-being of people and groups within the context of the healthcare professions.

Distribution

Humanities Lecture

Credits 1

Lecture Hours 11

Prerequisites

[PHIL 102](#) or instructor permission

Corequisites

[NUR 120](#) or instructor permission..

Quarters Offered

Winter

PHIL 201 : Ethics and Policy in Healthcare III

This is the third in a series of five course exploring values, ethics, and legal decision-making frameworks and policies used to support the well-being of people and groups within the context of the healthcare professions.

Distribution

Humanities Lecture

Credits 1

Lecture Hours 11

Prerequisites

[PHIL 103](#) or instructor permission

Corequisites

[NUR 210](#) or instructor permission.

Quarters Offered

Fall

PHIL 202 : Ethics and Policy in Healthcare IV

This is the fourth in a series of five courses exploring values, ethics, and legal decision-making frameworks and policies used to support the well-being of people and groups within the context of the healthcare professions.

Distribution

Humanities Lecture

Credits 1

Lecture Hours 11

Prerequisites

[PHIL 201](#) or instructor permission

Corequisites

[NUR 220](#) or instructor permission.

Quarters Offered

Winter

PHIL 203 : Ethics and Policy in Healthcare V

This is the fifth in a series of five courses exploring values, ethics, and legal decision-making frameworks and policies used to support the well-being of people and groups within the context of the healthcare professions.

Distribution

Humanities Lecture

Credits 1

Lecture Hours 11

Prerequisites

[PHIL 202](#) or instructor permission.

Corequisites

[NUR 230](#) or instructor permission..

Quarters Offered

Spring

PHIL 210 : Ethics

An introduction to ethical theories and some of today's main moral problems such as abortion, euthanasia, war, and capital punishment. Topics vary.

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

Quarters Offered

Fall, Winter, Spring

PHIL 211 : Ethics for Criminal Justice

A study of the principal ethical theories and their application to individual and social morality tied to the field of Criminal Justice.

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

Prerequisites

CJ& 101: Intro Criminal Justice

PHIL 340 : Professional Ethics

This course explores ethical principles and the ethical problems that managers face in a business environment. Students will examine the role of ethics and social responsibility in the management of business. Students will be able to apply the codes of practice, standards of conduct, professional responsibilities and regulatory aspects associated with common professional business. A study of trends with respect to ethical, legal, economic, and regulatory conditions in the global marketplace is included.

Credits 5

Lecture Hours 55

Lab Hours 0

Prerequisites

Bachelor of Applied Science –Applied Management program admission.

Physical Education and Health

Emily Eidson, Division Chair

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Athletic Director

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Physical education courses may be taken as part of the Associate in Arts and Science DTA degree satisfying the Physical Education/Health & Wellness Requirement or as Specified or General Elective credit. Several other BBCC degrees also have a Physical Education/Health & Wellness Requirement. Students seeking Associate in Arts and Science DTA degree or other transfer degree at BBCC should refer to the catalog section "Degrees & Certificates" for a detailed description of the degree, its program outcomes, and courses that will satisfy degree requirements.

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.

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

Physical Education and Health Course Descriptions

PEH 100 : Lifetime Wellness

Lifetime Wellness is designed to promote the students understanding of their physical, emotional, and social health needs, and to develop strategies to meet these needs and improve overall health and well-being.

Distribution

Physical Education Activity/Health & Wellness, Specified Elective

Credits 3

Lecture Hours 33

Quarters Offered

Fall, Winter, Spring, Summer

PEH 102 : Theory of Basketball

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. ***This is not a PE activity course and does not satisfy the Physical Education/Health & Wellness requirement of the DTA***

Distribution

Specified Elective

Credits 3

Lecture Hours 22

Lab Hours 22

Quarters Offered

Winter

PEH 103 : Theory of Wrestling

A practical course relating to the coaching aspect of wrestling, emphasis is placed on rule familiarization, technique development of takedowns, escapes, reversals, and pinning combinations. Content also includes preparation of teams for contests and reviews of various philosophical approaches. ***This is not a PE activity course and does not satisfy the Physical Education/Health & Wellness requirement of the DTA***

Distribution

Specified Elective

Credits 3

Lecture Hours 22

Lab Hours 22

Quarters Offered

Winter

PEH 105 : Theory of Baseball

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. ***This is not a PE activity course and does not satisfy the Physical Education/Health & Wellness requirement of the DTA.***

Distribution

Specified Elective

Credits 3

Lecture Hours 22

Lab Hours 22

Quarters Offered

Spring

PEH 106 : Theory of Fastpitch Softball

A practical course relating to the coaching aspect of fastpitch softball. Emphasis is placed on teaching/coaching strategies, the body mechanics of the athlete, evaluation methods, and the organization of a fastpitch softball

program. ***This is not a PE activity course and does not satisfy the Physical Education/Health & Wellness requirement of the DTA.***

Distribution

Specified Elective

Credits 3

Lecture Hours 22

Lab Hours 22

Quarters Offered

Spring

PEH 107 : Theory of Volleyball

Designed for students to learn the basic skills required to teach or coach volleyball. Emphasis is placed on analyzing fundamentals, gaining knowledge of offensive and defensive strategy and becoming familiar with the responsibilities of a volleyball program. ***This is not a PE activity course and does not satisfy the Physical Education/Health & Wellness requirement of the DTA.***

Distribution

Specified Elective

Credits 3

Lecture Hours 22

Lab Hours 22

Quarters Offered

Fall

PEH 112 : Running or Walking for Fitness

Running or Walking for Fitness will give students an overview of the basics of designing and implementing a personal running or walking fitness plan to achieve their specific goals. All ability levels are welcome, whether a student is hoping to complete a 5k or is an experienced runner looking to improve. The course will culminate with a timed 5k run/walk. May be repeated for up to three (3) credits.

Distribution

Physical Education Activity/Health & Wellness

Credits 1

Lab Hours 22

PEH 114 : Basketball

Basketball is designed to improve the students basketball skills/knowledge and to provide an

awareness of the sport as a lifetime activity offering fun and fitness. May be repeated for up to three (3) credits.

Distribution

Physical Education Activity/Health & Wellness

Credits 1

Lab Hours 22

Quarters Offered

Spring

PEH 119 : Fastpitch

Fastpitch is designed to improve the students softball skills/ knowledge so to participate successfully and enjoyably in the team activity of softball. May be repeated for up to three (3) credits.

Distribution

Physical Education Activity/Health & Wellness

Credits 1

Lab Hours 22

PEH 122 : Volleyball

Volleyball is designed to improve the students volleyball skills/ knowledge so to participate successfully and enjoyably in the team activity of volleyball. Emphasis will be on executing proper fundamentals of the game. May be repeated for up to three (3) credits.

Distribution

Physical Education Activity/Health & Wellness

Credits 1

Lab Hours 22

PEH 125 : Conditioning

Conditioning is designed to introduce the student to the basic principles and training methods for body conditioning so they can establish an exercise program to enhance overall wellbeing. May be repeated for up to three (3) credits.

Distribution

Physical Education Activity/Health & Wellness

Credits 1

Lab Hours 22

Quarters Offered

Fall, Winter, Spring

PEH 128 : Social Dance

Social dance teaches students basic steps and techniques for partner dances such as swing, fox trot, waltz and cha cha. The course will cover fundamentals of footwork, music rhythms and dancing with a partner. Students do not need a dance partner to register for the class. May be repeated for up to three (3) credits.

Distribution

Physical Education Activity/Health & Wellness

Credits 1

Lab Hours 22

Quarters Offered

Winter

PEH 130 : Indoor Cycling/Spinning

Indoor cycling, often also called spinning, as an organized activity, is a form of exercise with classes focusing on endurance, strength, intervals, high intensity and recovery, and involves using a special stationary exercise bicycle with a weighted flywheel in a classroom setting. May be repeated for up to three (3) credits.

Distribution

Physical Education Activity/Health & Wellness

Credits 1

Lab Hours 22

PEH 131 : Circuit Weight Training

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.

Distribution

Physical Education Activity/Health & Wellness

Credits 1

Lab Hours 22

PEH 132 : Fitness

An overall conditioning program with emphasis on developing strength, endurance, flexibility, and cardiovascular conditioning that lead to the development of a fitness attitude. May be repeated for up to three (3) credits

Distribution

Physical Education Activity/Health & Wellness

Credits 1

Lab Hours 22

PEH 133 : Weight Training

Weight training is designed to enhance the students 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.

Distribution

Physical Education Activity/Health & Wellness

Credits 1

Lab Hours 22

Quarters Offered

Fall, Winter, Spring

PEH 135 : Beginning Yoga

Introductory and intermediate yoga postures will be introduced to promote balance, strength, flexibility, and joint stability. Students will also be introduced to basic breath work and meditation practices to enhance stress relief and focus. Students will be exposed to the relationship between the mind and body and the role yoga can play in promoting lifelong health. May be repeated for up to three (3) credits.

Distribution

Physical Education Activity/Health & Wellness

Credits 1

Lab Hours 22

Quarters Offered

Fall, Winter, Spring, Summer

PEH 137 : Beginning Brazilian JiuJitsu

Designed to teach students the art and sport of Brazilian Jiu-Jitsu (BJJ). The purpose of this class shall be to provide a structured and safe environment, for learning and practicing the grappling art of Brazilian Jiu-Jitsu, along with some techniques from Judo, Sambo and wrestling. This class will focus on providing opportunities for students to gain effective self-defense and grappling experience, increase physical health, provide stress relief and promote a positive lifestyle of continual improvement. *Emphasizes self-control and situational awareness in grappling-based self-defense

using non-violent neutralization positions and techniques for life-threatening situations. May be repeated for up to three (3) credits.

Distribution

Physical Education Activity/Health & Wellness

Credits 1

Lab Hours 22

Quarters Offered

Fall, Winter, Spring

PEH 153 : Lifeguard Training

Instruction leading to qualification for American Red Cross Lifeguard/First Aid/CPR/AED training certification.

Distribution

Physical Education Activity/Health & Wellness

Credits 2

Lecture Hours 11

Lab Hours 24

Prerequisites

Persons are eligible who have passed their fifteenth birthday, are in sound physical condition, and have completed the following prerequisites:

Quarters Offered

Spring

PEH 155 : Body Toning

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.

Distribution

Physical Education Activity/Health & Wellness

Credits 1

Lab Hours 22

Quarters Offered

Fall, Winter, Spring

PEH 158 : Racquetball

Racquetball is designed to introduce the student to the knowledge and basic skills of racquetball 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.

Distribution

Physical Education Activity/Health & Wellness

Credits 1

Lab Hours 22

Quarters Offered

Spring

PEH 164 : Hiking

Hiking will introduce students to the basics of wilderness foot-travel. Students will attend a one-hour classroom session (or online equivalent) each week which will introduce basic concepts such as navigation, route-planning, first-aid, packing, and emergency preparedness. Once per week student will attend a mandatory group hike to apply the classroom skills. Hikes will range in difficulty and be appropriate for beginner to intermediate hikers. No previous outdoor experience is needed. No specialty equipment will be needed; students should provide athletic shoes, a water bottle, and a small backpack (suitable for carrying personal items) for themselves.

Credits 3

Lecture Hours 11

Lab Hours 44

PEH 178 : Principles of Fitness

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 students own fitness program.

Distribution

Physical Education Activity/Health & Wellness, Specified Elective

Credits 3

Lecture Hours 22

Lab Hours 22

Physics

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Physics courses may be taken as part of the Associate in Arts and Science DTA degree or as part of the Associate in Science–Transfer (AS-T 2) degree. Within the Associate in Arts and Science DTA degree, these courses may be used toward the Natural Science Breadth requirements or for Specified or General Elective credit. Students seeking Associate in Arts and Science DTA degree or an Associate in Science–Transfer Track 2 degree should refer to the catalog section “Degrees & Certificates” for a detailed description of the degree, its program outcomes, and courses that will satisfy degree requirements.

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.

Physics Course Descriptions

PHYS& 110 : Physics for Non-Science Majors with Lab

This course is a general physics course for the non-science major. The course helps develop an awareness of the physical concepts which govern our everyday experiences and emphasizes problem-solving. 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 intermediate algebra. Laboratories emphasize concepts learned in lectures, and graphing and data handling techniques are learned. (formerly PHYS& 100 and 101)

Distribution

Lab Science

Credits 5

Lecture Hours 44

Lab Hours 22

Prerequisites

[MATH 098](#), placement in [MATH 099](#), or instructor permission

Quarters Offered

Winter

PHYS& 114 : General Physics I with Lab

The first course in a three-quarter algebra-based sequence for students pursuing degrees in biology, pre-dentistry, pre-medicine, pre-veterinary medicine, engineering technology, zoology, and other fields. This course is also strongly recommended for students who will be taking Engineering Physics but who have not had a prior physics class. Students should check with

the requirements of their intended baccalaureate institution when considering this sequence. A balance of conceptual understanding and problem-solving ability is emphasized; This first course will begin with an introduction to units and unit conversion, scalars and vectors, and using right-angle trigonometry for analyzing two-dimensional motion, then continue to the study of mechanics: describing motion, with speed, velocity, and acceleration; application of Newton's laws in one and two dimensions; impulse and momentum conservation; work and energy conservation; rotational motion and torque.

Distribution

Math/Science Laboratory

Credits 5**Lecture Hours** 44**Lab Hours** 22**Prerequisites**

Successful completion of [MATH 98](#) or [MAP 119](#) (5 credits) or placement in [MATH 99](#), [Math&107/146](#) or higher, or instructor permission

Quarters Offered

Spring

PHYS& 115 : General Physics II with Lab

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.

Distribution

Lab Science

Credits 5**Lecture Hours** 44**Lab Hours** 22**Prerequisites**

Completion of [PHYS& 114](#) with 2.0 or higher.

PHYS& 116 : General Physics III with Lab

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.

Distribution

Lab Science

Credits 5**Lecture Hours** 44**Lab Hours** 22**Prerequisites**

Completion of [PHYS& 115](#) with 2.0 or higher.

PHYS& 221 : Engineering Physics I w/Lab

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.

Distribution

Lab Science

Credits 5**Lecture Hours** 44**Lab Hours** 22**Prerequisites**

Calculus I (Math& 151) or concurrent enrollment

Quarters Offered

Fall

PHYS& 222 : Engineering Physics II w/Lab

The second in a three-quarter calculus-based sequence in introductory physics intended for students majoring in science or engineering. Course content includes waves, optics, thermodynamics, and may include a unit on gravitation.

Distribution

Lab Science

Credits 5**Lecture Hours** 44

Lab Hours 22**Prerequisites**

Successful completion of Engineering Physics I
[PHYS& 221](#)

Calculus II ([MATH& 152](#)) or concurrent enrollment

Quarters Offered

Winter

PHYS& 223 : Engineering Physics III w/Lab

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.

Distribution

Lab Science

Credits 5

Lecture Hours 44

Lab Hours 22

Prerequisites

Successful completion of [PHYS& 221](#) and [PHYS& 222](#)

Quarters Offered

Spring

PHYS 102 : Physics of Exercise

This course introduces physics in the context of sports and daily exercise. Topics include most of the following, depending on class preparation and interest: motion, force, energy, collisions, momentum, pressure, and fluids to explain what we see on the court, field, pool, and road. The course is intended to connect a student's genuine interest in athletics to concrete materials. The course is also aimed to show athletes & trainers how to perform in sports games with optimal results. Conceptual reasoning is stressed, and mathematics is kept to the level of elementary algebra.

Credits 5

Lecture Hours 55

Prerequisites

[MATH 094](#), placement into a higher-level mathematics course, or an instructor's permission

Political Science

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Political science courses may be taken as part of the Associate in Arts and Science DTA degree. These courses may be used toward the Social Science Breadth requirement or for Specified or General Elective credit. Students seeking Associate in Arts and Science DTA degree should refer to the catalog section "Degrees & Certificates" for a detailed description of the degree, its program outcomes, and courses that will satisfy degree requirements.

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 should consult program outlines published by the college or university to which they intend to transfer. Students should prepare their quarterly schedules with the assistance of an advisor knowledgeable in this transfer area.

Recommended Pre-Major Courses

[POLS& 101](#) Introduction to Political Science CWU & EWU*

[POLS& 202](#) American Government CWU & EWU*

POLS& 203 International Relations CWU

CJ& 110 Criminal Law EWU

* EWU: POLS& 101 and POLS& 202 have same course equivalent

Political Science Course Descriptions

POLS& 101 : Introduction to Political Science

In order to make politics relevant to the people, one must go where the people are. Many Americans find politics to be distant and irrelevant to their daily experience without ever realizing that politics are all around them in many different formats. This class brings students face-to-face with such realities while emphasizing an understanding of the nature, purpose, and practice of American politics within a global context. Topics covered include the American Constitution, the elections process, bureaucracies, the role of the media, and modern political culture in America.

Distribution

Social Science

Credits 5

Lecture Hours 55

Quarters Offered

Fall, Winter

POLS& 202 : United States Government

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

Distribution

Social Science

Credits 5

Lecture Hours 55

Quarters Offered

Winter, Spring, Summer

POLS& 203 : International Relations

This course serves as an introduction to global relations, focusing on historical backgrounds, current struggles, and the struggle to define the post-cold-war world. Students taking this course are encouraged to adopt a global outlook and will participate in a mock international conference designed to provide direct experience in the world of diplomacy. Course meets BBCC diversity.

Distribution

Social Science, Diversity

Credits 5

Lecture Hours 55

Quarters Offered

Fall

Psychology

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Psychology courses may be taken as part of the Associate in Arts and Science DTA degree. These courses may be used toward the Social Sciences Breadth requirement or for Specified or General Elective credit. Students seeking Associate in Arts and Science DTA degree should refer to the catalog section "Degrees & Certificates" for a detailed description of the degree, its program outcomes, and courses that will satisfy degree requirements.

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

PSYC& 100 General Psychology CWU, EWU

PSYC& 200 Lifespan Psychology CWU, EWU

BIOL& 100 Survey of Biology CWU

Psychology Course Descriptions

PSYC& 100 : General Psychology

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.

Distribution

Social Science

Credits 5

Lecture Hours 55

Quarters Offered

Fall, Winter, Spring, Summer

PSYC& 200 : Lifespan Psychology

This course examines the physical, intellectual, emotional, and social growth and development that occurs throughout the human life-span.

Distribution

Social Science

Credits 5

Lecture Hours 55

Prerequisites

Completion of PSYC& 100

Quarters Offered

Fall, Winter, Summer

PSYC& 220 : Psychological Disorders

This course provides an overview of psychological disorders, their diagnostic classification, symptoms, causes, and treatments. Students will explore research methods in psychopathology and various therapeutic approaches. Emphasis is placed on understanding abnormal behavior from biological, psychological, and sociocultural perspectives and their impacts on individuals, families, and societies.

Distribution

Social Science

Credits 5

Lecture Hours 55

Lab Hours 0

Clinical Hours 0

Prerequisite or Corequisite

PSYC& 100: General Psychology

Quarters Offered

Fall

PSYC 101 : Psychosocial Issues in Healthcare I

This is the first in a series of five courses exploring concepts fundamental to psychosocial healthcare management. Examines some determinants of health and illness across the lifespan, including social, psychosocial, environmental, spiritual and cultural dimensions.

Distribution

Social Science

Credits 1

Lecture Hours 11

Prerequisites

Admission into the Level IADN Nursing Program or instructor permission.

Corequisites

[NUR 110](#) or instructor permission.

Quarters Offered

Fall

PSYC 102 : Psychosocial Issues in Healthcare II

This is the second in a series of five courses exploring fundamental concepts of psychosocial healthcare management. Examines some

determinants of health and illness across the lifespan, including social, psychosocial, environmental, spiritual and cultural dimensions.

Distribution

Social Science

Credits 1

Lecture Hours 11

Prerequisites

[PSYC 101](#).

Corequisites

[NUR 120](#) or instructor permission.

Quarters Offered

Winter

PSYC 103 : Psychosocial Issues in Healthcare III

This is the third in a series of five courses exploring fundamental concepts of psychosocial healthcare management. Examines some determinants of health and illness across the lifespan, including social, psychosocial, environmental, spiritual and cultural dimensions.

Distribution

Social Science

Credits 1

Lecture Hours 11

Prerequisites

[PSYC 102](#) or instructor permission.

Corequisites

[NUR 130](#) or instructor permission.

Quarters Offered

Spring

PSYC 105 : Mental Health First Aid-Adult

Mental Health First Aid is a course where students develop key skills to help someone who is developing a mental health problem or experiencing a mental health crisis. This course will provide knowledge of the most prevalent mental health problems people may encounter in our communities. Students will learn symptoms and criteria needed to recognize someone in mental health crisis. Students will also discuss the stigma associated with mental health in the United States and ways to promote positive mental health. This course will use the

Mental Health First Aid internationally-focused and evidence-based curriculum to certify students as Mental Health First Aiders.

Distribution

Social Science

Credits 1

Lecture Hours 11

Quarters Offered

Winter

PSYC 201 : Psychosocial Issues in Healthcare IV

This is the fourth in a series of five courses exploring fundamental concepts of psychosocial healthcare management. Examines some determinants of health and illness across the lifespan, including social, psychosocial, environmental, spiritual and cultural dimensions.

Distribution

Social Science

Credits 1

Lecture Hours 11

Prerequisites

[PSYC 103](#) or instructor permission.

Corequisites

[NUR 210](#) or instructor permission.

Quarters Offered

Fall

PSYC 202 : Psychosocial Issues in Healthcare V

This is the fifth in a five course series exploring fundamental concepts of psychosocial healthcare management. Examines some determinants of health and illness across the lifespan, including social, psychosocial, environmental, spiritual and cultural dimensions.

Distribution

Social Science

Credits 1

Lecture Hours 11

Prerequisites

[PSYC 201](#) or instructor permission.

Corequisites

[NUR 230](#) or instructor permission.

Quarters Offered

Spring

PSYC 225 : Psychology and the Legal System

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 informed by the results of psychological research, and how psychological research can be more reactive to legal issues.

Distribution

Social Science

Credits 5

Lecture Hours 55

Prerequisite or Corequisite

[PSYC& 100](#) or [CJ& 101](#)

PSYC 270 : Psychology of Addiction and Recovery

This course explores the science of addiction, including current research on both substance and behavioral addictions and recovery. Topics covered include current research on addiction, barriers to successful recovery, various treatment models including medication assisted treatment, the impact of trauma, cultural and generational impacts of addiction, as well as the effects of adverse experiences such as poverty, inadequate access to services and others.

Distribution

Social Science

Credits 5

Lecture Hours 55

Prerequisites

[PSYC& 100](#)

Quarters Offered

Winter

Religious Studies

Dennis Knepp

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Religious studies courses may be taken as part of the Associate in Arts and Science DTA degree. These courses may be used toward the Humanities Breadth requirement or for Specified or General Elective credit. Students seeking Associate in Arts and Science DTA degree should refer to the catalog section "Degrees & Certificates" for a detailed description of the degree, its program outcomes, and courses that will satisfy degree requirements.

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 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

REL 201 World Religions

REL 211 Religion in America

Religious Studies Course Descriptions

REL 201 : World Religions

A survey of the origin, development and present beliefs and practices of the worlds major religions: Hinduism, Buddhism, Confucianism, Taoism, Judaism, Christianity, Islam. Course meets BBCC diversity requirements.

Distribution

Humanities Lecture, Diversity

Credits 5

Lecture Hours 55

Quarters Offered

Fall, Spring, Summer

REL 211 : Religion in America

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.

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

Science

Science Course Descriptions

SCI 101 : Survey of Science

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

Distribution

Natural Science

Credits 5

Lecture Hours 55

SCI 104 : Math for Science and Engineering

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.

Distribution

Specified Elective

Credits 2

Lecture Hours 22

Prerequisites

[MATH 098](#)/[MAP 117](#) or a higher placement.

SCI 105 : Introduction to the History of Science

This course is a survey course designed to give the student a basic understanding of the history of science from the Ancient Greeks to the present through the lens of the discoveries and scientific personalities that shaped its development.

Students will examine the connections between science and the humanities and come to appreciate that science is not done in a vacuum, but has consequences for wider society.

Through a series of written projects and examinations, the students will learn fundamental facts and theories of science as well as how to study and analyze them using the methodologies and techniques of both history and science. Course is cross-listed with [HIST 105](#) and students cannot earn credit for both

Distribution

Natural Science

Credits 5

Lecture Hours 55

Social Work

Social Work Course Descriptions

SOCW 110 : Introduction to Social Work

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.

Credits 5

Lecture Hours 55

Sociology

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Suzanne Reilly

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Sociology and social welfare courses may be taken as part of the Associate in Arts and Science DTA degree. These courses may be used toward the Social Sciences Breadth requirement or for Specified or General Elective credit.

Students seeking Associate in Arts and Science DTA degree should refer to the catalog section "Degrees & Certificates" for a detailed description of the degree, its program outcomes, and courses that will satisfy degree requirements.

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 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

SOC& 101 Intro to Sociology

SOC& 201 Social Problems

SOC 204: Gender and Power

Social Welfare

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 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

SOCW 110 Intro to Social Work

Sociology Course Descriptions

SOC& 101 : Intro to Sociology

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. (Formerly: SOC 110).

Distribution

Social Science

Credits 5

Lecture Hours 55

Prerequisites

There are no prerequisites. Strongly recommended completion of [MATH 094/MAP 117](#) or a higher placement and completion of [ENGL 098](#) or a higher placement.

Quarters Offered

Fall, Winter, Spring, Summer

SOC& 201 : Social Problems

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. (Formerly: SOC 270).

Distribution

Social Science

Credits 5

Lecture Hours 55

Prerequisites

There are no prerequisites. Strongly recommended completion of [MATH 094/MAP 117](#) or a higher placement and completion of [ENGL 098](#) or a higher placement.

Quarters Offered

Fall, Spring

SOC 204 : Gender and Power

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.

Distribution

Social Science, Diversity

Credits 5

Lecture Hours 55

Prerequisites

ENGL& 101 completion recommended

SOC 220 : Marriage and the Family

A comprehensive examination of the institution of marriage and family life, including past, current, and future trends. The course will help students understand different marriage and family patterns and will develop skills for meaningful, long-term, intimate relationships, and is structured to promote the critical thinking and problem-solving skills of students by using the sociological perspective. Topics include the social construction of the family, race/ethnicity, social class, gender, sexual orientation, and social change. (Formerly: SOC 270).

Distribution

Diversity, Social Science

Credits 5

Lecture Hours 55

Prerequisites

Strongly recommend placement into ENGL 099 or higher and completion of [MATH 094/MAP 117](#) or placement into MATH 098/[MAP 119](#) or higher

SOC 320 : Organizational Behavior

Exploring current theory and research of organizational behavior, this course covers

managing relationships within an organization. Students will study the concepts of corporate culture, organizational structure, environmental influences, decision making, group behavior, and organizational politics.

Credits 5

Lecture Hours 55

Lab Hours 0

Prerequisites

Bachelor of Applied Science –Applied Management program admission.

Uncrewed Aircraft Systems

(formerly Unmanned Aerial Systems (UAS) Technology)

uas@bigbend.edu

Uncrewed Systems academic offerings are designed to meet the needs of local, regional and nationally growing industries.

Uncrewed Aircraft Systems Course Descriptions

UAS 107 : Commercial UAS Remote Pilot (Part 107)

Students will receive an in-depth introduction to FAA Part 107 rules and regulations, associated theory, procedures, requirements and operating concepts, as well as actual hands-on flight training in the BBCC enclosed UAS Flight Lab, with an emphasis on safety of flight. This course provides students with the knowledge base required to effectively prepare for FAA Part 107 Commercial Uncrewed Aircraft System (UAS) Remote Pilot certification. Note: The Part 107 UAS Remote Pilot testing fee is not included in the tuition for this course. (Formerly: UMS 107)

Credits 2

Lecture Hours 16

Lab Hours 11

Quarters Offered

Fall, Spring

Welding

email: welding@bigbend.edu

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.

Welding Program Electives

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

WLD 190 Skills Improvement*

WLD 290 Skills Improvement*

WLD 295 Work-Based Learning

WLD 297 Work-Based Learning Seminar

* Skill level improvement classes are not required but may be needed to achieve desired skill levels. See the program advisor.

Welding Technology: Pipe Welding Associate in Applied Science (AAS)

Degree Type

Associate in Applied Science

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. Interested students must work out their individual programs with a welding program 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.

Program Learning Outcomes:

IO1 **Communication**

Students will be able to communicate clearly and effectively within a workplace context

IO2 **Quantitative Reasoning**

Students will be able to reason mathematically using methods appropriate to the profession

IO3 **Human Relations/Workplace Skills**

Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills

PO4 Students demonstrate safe shop practice by safely using tools and equipment

PO5 Students demonstrate competent cutting procedures and welds to appropriate welding codes.

PO6 Students diagnose and cure common welding defects

Required Courses

Required Degree Courses

Course Code	Title	Credits
	CMST& 220 or CMST& 210	5
	ENGL 109 or ENGL& 101	3
FAD 150	Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens	2
MAP 117	Applied Math for Workforce Programs I	1-5
	PSYC& 100 or SOC& 101	5
WLD 110	Welding Theory I	5
WLD 111	Welding Process I	3-6
WLD 112	Thermal Cutting and Welding	3
WLD 120	Welding Theory II	5
WLD 121	Welding Process II	3-6
WLD 122	Gas Metal Arc Welding I	3
WLD 130	Welding Theory III	5
WLD 131	Welding Process III	3-6
WLD 132	Gas Tungsten Arc Welding I (T.I.G.)	3
WLD 151	Technical Drawings Interpretation	3
WLD 152	Welding Layout I	3
WLD 153	Welding Layout II	3
WLD 205	Weld Testing Methods	4
WLD 206	Welding Codes and Standards	4
WLD 207	Welding Metallurgy	4
WLD 212	Gas Metal Arc Welding II	3
WLD 281	Pipe Welding I	3-6
WLD 282	Gas Tungsten Arc Welding II (TIG)	3
WLD 283	Pipe Welding II	3-6
WLD 284	Gas Tungsten Arc Welding III (TIG.)	3
WLD 285	Pipe Welding III	3-6
	Total Credits	106-108

Welding Technology: Production Welding Associate in Applied Science (AAS)

Degree Type

Associate in Applied Science

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. Interested students must work out their individual programs with a welding program 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.

Program Learning Outcomes:

IO1 **Communication**

Students will be able to communicate clearly and effectively within a workplace context

IO2 **Quantitative Reasoning**

Students will be able to reason mathematically using methods appropriate to the profession

IO3 **Human Relations/Workplace Skills**

Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills

PO4 Students demonstrate safe shop practice by safely using tools and equipment

PO5 Students demonstrate competent cutting procedures and welds to appropriate welding codes.

PO6 Students diagnose and cure common welding defects

Fall – Quarter 1

Course Code	Title	Credits
MAP 117	Applied Math for Workforce Programs I	1-5
WLD 110	Welding Theory I	5
WLD 111	Welding Process I	3-6
WLD 112	Thermal Cutting and Welding	3
WLD 151	Technical Drawings Interpretation	3

Winter – Quarter 2

Course Code	Title	Credits
	ENGL 109 or ENGL& 101	3
WLD 120	Welding Theory II	5
WLD 121	Welding Process II	3-6
WLD 122	Gas Metal Arc Welding I	3
WLD 152	Welding Layout I	3

Spring – Quarter 3

Course Code	Title	Credits
	PSYC& 100 or SOC& 101	5
WLD 130	Welding Theory III	5
WLD 131	Welding Process III	3-6
WLD 132	Gas Tungsten Arc Welding I (T.I.G.)	3
WLD 153	Welding Layout II	3

Fall – Quarter 4

Course Code	Title	Credits
	CMST& 220	5
WLD 205	Weld Testing Methods	4
WLD 212	Gas Metal Arc Welding II	3
WLD 261	Production Weld Process I	6

Winter – Quarter 5

Course Code	Title	Credits
FAD 150	Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens	2
WLD 206	Welding Codes and Standards	4
WLD 262	Production Welding I	3
WLD 263	Production Weld II	6

Spring – Quarter 6

Course Code	Title	Credits
WLD 207	Welding Metallurgy	4
WLD 264	Advanced Weld Process	3
WLD 265	Production Welding Process III	6
	Total Credits	113-115

Welding Technology: Structural Welding Associate in Applied Science (AAS)

Degree Type

Associate in Applied Science

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. Interested students must work out their individual programs with a welding program 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.

Program Learning Outcomes:

IO1 Communication

Students will be able to communicate clearly and effectively within a workplace context

IO2 Quantitative Reasoning

Students will be able to reason mathematically using methods appropriate to the profession

IO3 Human Relations/Workplace Skills

Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills

PO4 Students demonstrate safe shop practice by safely using tools and equipment

PO5 Students demonstrate competent cutting procedures and welds to appropriate welding codes.

PO6 Students diagnose and cure common welding defects

Required Courses

Required Program Courses:

Course Code	Title	Credits
	CMST& 220 or CMST& 210	5
	ENGL 109 or ENGL& 101	3
FAD 150	Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens	2
MAP 117	Applied Math for Workforce Programs I	1-5
	SOC& 101 or PSYC& 100	5
WLD 110	Welding Theory I	5
WLD 111	Welding Process I	3-6
WLD 112	Thermal Cutting and Welding	3
WLD 120	Welding Theory II	5
WLD 121	Welding Process II	3-6
WLD 122	Gas Metal Arc Welding I	3
WLD 130	Welding Theory III	5
WLD 131	Welding Process III	3-6
WLD 132	Gas Tungsten Arc Welding I (T.I.G.)	3
WLD 151	Technical Drawings Interpretation	3
WLD 152	Welding Layout I	3
WLD 153	Welding Layout II	3
WLD 205	Weld Testing Methods	4
WLD 206	Welding Codes and Standards	4
WLD 207	Welding Metallurgy	4
WLD 212	Gas Metal Arc Welding II	3
WLD 241	Structural Weld Process I	6
WLD 242	Structural Welding I	3
WLD 243	Structural Weld Process II	6
WLD 244	Submerged Arc Welding	3
WLD 245	Structural Weld Process III	6
	Total Credits	106-108

Welding Technology Certificate of Accomplishment

Degree Type

Certificate

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.

Program Learning Outcomes

- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills

Required Courses

Course Code	Title	Credits
WLD 110	Welding Theory I	5
WLD 111	Welding Process I	3-6
WLD 112	Thermal Cutting and Welding	3
WLD 120	Welding Theory II	5
WLD 121	Welding Process II	3-6
WLD 122	Gas Metal Arc Welding I	3
WLD 132	Gas Tungsten Arc Welding I (T.I.G.)	3
WLD 151	Technical Drawings Interpretation	3
WLD 152	Welding Layout I	3
	Total Credits	37

Welding Technology Certificate of Achievement

Degree Type

Certificate

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 general education requirements and a minimum of 45 credits in the program.

Program Learning Outcomes

- IO1 Communication
Students will be able to communicate clearly and effectively within a workplace context
- IO2 Quantitative Reasoning
Students will be able to reason mathematically using methods appropriate to the profession
- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills
- PO4 Students demonstrate safe shop practice by safely using tools and equipment
- PO5 Students demonstrate competent cutting procedures and welds to appropriate welding codes.

Interested students must work with the program advisor to determine appropriate program courses and schedules with the program advisor.

Required Courses

Course Code	Title	Credits
	CMST& 220 or CMST& 210	5
	ENGL 109 or ENGL& 101	3
FAD 150	Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens	2
	MAP 101 or 117	5
	PSYC& 100 or SOC& 101	5
WLD 110	Welding Theory I	5
WLD 111	Welding Process I	3-6
WLD 112	Thermal Cutting and Welding	3
WLD 120	Welding Theory II	5
WLD 121	Welding Process II	3-6
WLD 122	Gas Metal Arc Welding I	3
WLD 132	Gas Tungsten Arc Welding I (T.I.G.)	3
WLD 151	Technical Drawings Interpretation	3
WLD 152	Welding Layout I	3
	Total Credits	55

Welding Course Descriptions

WLD 110 : Welding Theory I

General introduction to industrial welding and cutting. Safety rules of oxy-fuel, electric and other welding processes, principles, and electrodes.

Credits 5

Lecture Hours 55

Quarters Offered

Fall

WLD 111 : Welding Process I

An 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.

Credits 3

-6

Lab Hours 66

-132

Quarters Offered

Fall, Winter, Spring, Summer

WLD 112 : Thermal Cutting and Welding

Various techniques of steel cutting with oxy-fuel, air carbon arc, plasma arc processes and oxy-acetylene welding and brazing with various metals.

Credits 3

Lab Hours 66

Quarters Offered

Fall, Winter, Spring, Summer

WLD 120 : Welding Theory II

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.

Credits 5

Lecture Hours 55

Prerequisites

[WLD 110](#) or instructors permission

WLD 121 : Welding Process II

An introduction to welding open root joints. Students use E6010 to complete open root corner joints out of position and open root plate tests out of position. Students must complete all 6 credits of WLD 121 prior to enrolling in WLD 131.

Credits 3

-6

Lab Hours 66

-132

Prerequisites

6 credits of [WLD 111](#).

Quarters Offered

Fall, Winter, Spring, Summer

WLD 122 : Gas Metal Arc Welding I

Students will learn to apply the Gas Metal Arc Welding (MIG) process on steel in all positions

using the short circuit transfer mode and the spray transfer mode in the flat and horizontal positions.

Credits 3

Lab Hours 66

Prerequisites

[WLD 112](#).

Quarters Offered

Fall, Winter, Spring, Summer

WLD 130 : Welding Theory III

Basic welding blueprint reading and interpretations of conventional drafting, symbology, and specialized welding symbols: basic lines and views, dimensions, welding symbols, abbreviations, pipe welding symbols, NDT symbols and ISO welding symbols.

Credits 5

Lecture Hours 55

Prerequisites

[WLD 120](#) or Instructors permission

WLD 131 : Welding Process III

Using E-7018 electrodes, students weld corner joints, groove plates in all positions and ASME and WABO performance certification tests. Students must complete all 6 credits of WLD 131 prior to enrolling in more advanced welding classes.

Credits 3

-6

Lab Hours 66

-132

Prerequisites

6 credits of [WLD 121](#).

Quarters Offered

Fall, Winter, Spring, Summer

WLD 132 : Gas Tungsten Arc Welding I (T.I.G.)

Students will learn to apply the Gas Tungsten Arc Welding (TIG) process on steel and aluminum, short circuit transfer mode.

Credits 3

Lab Hours 66

Prerequisites

[WLD 122](#).

Quarters Offered

Fall, Winter, Spring, Summer

WLD 146 : Industrial Welding

In this course, students will explore theory in the classroom and gain hands-on experience with essential welding and cutting practices commonly used in industrial applications.

Students will practice welding techniques using the following processes: GMAW (Gas Metal Arc Welding) FCAW (Flux Core Arc Welding, SMAW (Shielded Metal Arc Welding), and GTAW (Gas Tungsten Arc Welding). Students will explore theory and practice for cutting processes such as oxyfuel cutting, plasma cutting, and ironworker operation. Additional topics include Blueprint reading (welding symbols), Inspection, Codes and Standards, and Metallurgy (Material Properties and Characteristics). Students will learn how to thoroughly inspect and set up the equipment before welding or cutting, and how to prepare materials and several types of joints for welding. Students will also learn about finishing procedures and quality control. By course completion, students will be able to weld GMAW, FCAW, SMAW and GTAW proficiently on various materials and will be comfortable fabricating and welding from work procedure specifications (WPS).

Credits 4

Lecture Hours 11

Lab Hours 66

Prerequisites

None

WLD 151 : Technical Drawings Interpretation

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.

Credits 3

Lecture Hours 22

Lab Hours 22

Prerequisites

None

Quarters Offered

Fall

WLD 152 : Welding Layout I

Specialized weldment drafting techniques; intersections and developments, patterns for geometric shapes used in cardboard, sheet metal and structural shapes: fabrication and model construction.

Credits 3

Lecture Hours 22

Lab Hours 22

Prerequisites

[WLD 151](#) or instructors permission.

Quarters Offered

Winter

WLD 153 : Welding Layout II

Basic technical pipe drawing interpretations and developments. Patterns for geometric shape used in pipe component fabrication and model construction.

Credits 3

Lecture Hours 22

Lab Hours 22

Prerequisites

[WLD 152](#) or instructors permission.

Quarters Offered

Spring

WLD 190 : Skill Improvement

Extra welding time and instruction to enhance students 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.)

Credits 2

-6

Lab Hours 44

-132

Prerequisites

Instructor permission.

Quarters Offered

Fall, Winter, Spring, Summer

WLD 205 : Weld Testing Methods

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.

Credits 4

Lecture Hours 33

Lab Hours 22

Prerequisites

[WLD 130](#) or instructors permission.

WLD 206 : Welding Codes and Standards

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.

Credits 4

Lecture Hours 33

Lab Hours 22

Prerequisites

[WLD 205](#) or instructors permission.

WLD 207 : Welding Metallurgy

An introduction to metallurgy. Ferrous and nonferrous metals, alloys and their groupings will be covered.

Credits 4

Lecture Hours 33

Lab Hours 22

Prerequisites

[WLD 206](#) or instructors permission

WLD 212 : Gas Metal Arc Welding II

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.

Credits 3

Lab Hours 66

Prerequisites

[WLD 132](#).

Quarters Offered

Fall, Winter, Spring, Summer

WLD 241 : Structural Weld Process I

This course focuses on student learning of structural connection mockups applying the Shielded Metal Arc and Flux Cored Arc Welding processes.

Credits 6

Lab Hours 132

Prerequisites

[WLD 131](#) or instructor permission.

Quarters Offered

Fall, Winter, Spring, Summer

WLD 242 : Structural Welding I

An introductory course focusing on fabrication of structural weldments utilizing shielded metal arc welding and flux cored arc welding on structural connections.

Credits 3

Lab Hours 66

Prerequisites

[WLD 212](#).

Quarters Offered

Fall, Winter, Spring, Summer

WLD 243 : Structural Weld Process II

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.

Credits 6

Lab Hours 132

Prerequisites

[WLD 241](#) or instructor permission.

Quarters Offered

Fall, Winter, Spring, Summer

WLD 244 : Submerged Arc Welding

This course focuses on student learning of submerged arc welding process which entails an arc that takes place beneath a bed of granular flux. This is a high deposition industrial orientated welding process that is used to manufacture light to heavy weldments.

Credits 3

Lab Hours 66

Prerequisites

[WLD 242](#) or instructor permission

Quarters Offered

Fall, Winter, Spring, Summer

WLD 245 : Structural Weld Process III

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.

Credits 6

Lab Hours 132

Prerequisites

[WLD 243](#) and [WLD 152](#) or instructor permission.

Quarters Offered

Fall, Winter, Spring, Summer

WLD 261 : Production Weld Process I

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.

Credits 6

Lab Hours 132

Prerequisites

[WLD 131](#) or instructor permission.

Quarters Offered

Fall, Winter, Spring, Summer

WLD 262 : Production Welding I

This course focuses on student learning of production welding within a shop setting.

Credits 3

Lab Hours 66

Prerequisites

[WLD 212](#) or instructors permission.

Quarters Offered

Fall, Winter, Spring, Summer

WLD 263 : Production Weld II

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.

Credits 6

Lab Hours 132

Prerequisites

[WLD 261](#) or instructor permission

Quarters Offered

Fall, Winter, Spring, Summer

WLD 264 : Advanced Weld Process

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.

Credits 3

Lab Hours 66

Prerequisites

[WLD 262](#) or instructors permission.

Quarters Offered

Fall, Winter, Spring, Summer

WLD 265 : Production Welding Process III

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.

Credits 6

Lab Hours 132

Prerequisites

[WLD 263](#) or instructor permission

Quarters Offered

Fall, Winter, Spring, Summer

WLD 281 : Pipe Welding I

Students will be introduced to pipe welding in the 1G, 2G, 5G, and 6G positions using E-6010 electrodes with schedule 60, 80, 100,120 and various size pipes. May be repeated for credit up to six credits.

Credits 3

-6

Lab Hours 66

-132

Prerequisites

[WLD 131](#).

Quarters Offered

Fall, Winter, Spring, Summer

WLD 282 : Gas Tungsten Arc Welding II (TIG)

This course introduces students to carbon steel pipe welding in the 1G, 2G, 5G, and 6G positions using cup walk methods with 1/8" electrodes on various sizes of pipes.

Credits 3

Lab Hours 66

Prerequisites

[WLD 212](#) or instructors permission.

Quarters Offered

Fall, Winter, Spring, Summer

WLD 283 : Pipe Welding II

Students will enhance carbon steel pipe welding in 1G, 2G, 5G, and 6G positions using E-6010 and E-7018 electrodes with schedule 60,80,100 and 120 pipes and various other sizes of pipes. May be repeated for credit up to six credits.

Credits 3

-6

Lab Hours 33

-132

Prerequisites

[WLD 281](#).

Quarters Offered

Fall, Winter, Spring, Summer

WLD 284 : Gas Tungsten Arc Welding III (TIG.)

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.

Credits 3

Lab Hours 66

Prerequisites

[WLD 282](#) or instructors permission.

Quarters Offered

Fall, Winter, Spring, Summer

WLD 285 : Pipe Welding III

This course focuses on pipe welding 1G, 2G, 5G, and 6G positions using E-6010 and E-7018 rods and a combination of G.T.A.W. and S.M.A.W. process with schedule 40,60,80,100, 120, and various other sizes of pipes.

Credits 3

-6

Lab Hours 33

-132

Prerequisites

[WLD 283](#).

Quarters Offered

Fall, Winter, Spring, Summer

WLD 290 : Skill Improvement

Extra welding time and instruction to enhance students 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.)

Credits 2

-6

Lab Hours 44

-132

Prerequisites

Instructor permission.

Quarters Offered

Fall, Winter, Spring, Summer

WLD 295 : Work Based Learning

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. WLD Instructor permission and concurrent enrollment in WLD 297.

Credits 1

-6

Clinical Hours 33

-198

Quarters Offered

Fall, Winter, Spring

WLD 297 : Work Based Learning Seminar

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.

Credits 1**Lecture Hours** 11**Corequisites**

[WLD 295](#).

Quarters Offered

Fall, Winter, Spring

Workforce Education

Workforce Education Course Descriptions

WKED 101 : Professional Preparation - Occupation Specific I

An introduction to work related and job search components specific to each occupation (or similar) including direct contact with peers, advisors, mentors, employers, and others directly related to the industry.

Credits 1**Lecture Hours** 7**Lab Hours** 11**WKED 102 : Professional Preparation - Occupation Specific II**

A continued exploration of work-related components specific to each occupation/ industry (or similar) including direct contact with peers, advisors, mentors, employers, and others directly related to the industry. Creation of a job search portfolio. The job shadow is a required element for this course

Credits 1**Lecture Hours** 7**Lab Hours** 11**Prerequisites**

[WKED 101](#) or instructor permission

WKED 103 : Professional Preparation - Occupation Specific III

Contact with peers, advisors, mentors, employers, and others directly related to the industry. This course provides students with the opportunity to gain knowledge and skills in an applied work-based internship in the student's chosen career field.

Credits 1

-3

Clinical Hours 33

-99

Prerequisites

Instructor Permission

Quarters Offered

Fall, Winter, Spring

WKED 110 : Mission Critical Operations Management I

Introduction to the technical operations management of systems, facilities, equipment, and processes critical to the production of goods and services. Students may explore this topic within a related industry of their choice.

Credits 3

Lecture Hours 33

WKED 111 : Mission Critical Operations Management II

Exploration and practical application of technical systems management and the related data required to maintain operationally sound facilities, equipment, and processes critical to the production of goods and services. Students may explore this topic within a related industry of their choice.

Credits 4

Lecture Hours 33

Lab Hours 22

Prerequisites

Computer Science students are strongly encouraged to take [WKED 110](#) prior to taking this course.

WKED 152 : Industrial Forklift Training

In this course, students will learn the safety and operation regulations needed to meet forklift operator competencies. Students will engage in interactive competency-based online activities, including the use of a virtual reality (VR) forklift simulator prior to taking their final practical exam on a sit-down forklift. Students that successfully complete the course will be issued an industry recognized (Overton) Operators License.

Credits 2

Lecture Hours 17

Lab Hours 11

World Languages

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World language courses may be taken as part of the Associate in Arts and Science DTA degree.

These courses may be used toward the Humanities Breadth requirement or for Specified or General Elective credit. Students seeking Associate in Arts and Science DTA degree should refer to the catalog section "Degrees & Certificates" for a detailed description of the degree, its program outcomes, and courses that will satisfy degree requirements.

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 world 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 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

World language sequence, two years of a language sequence

Prior Learning Credit Policy

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

1. Students who have taken a year of high school level world language may be placed into the 122 level of the language offered at

Big Bend Community College. If the student completes the 122 level of the language at the college and earns a 3.0 grade point or higher, the student will be awarded the same grade point for the 121 level of that world language. Students must have instructor approval to register.

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

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

World Languages Course Descriptions

ASL& 121 : Am Sign Language I

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.

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

ASL& 122 : Am Sign Language II

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.

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

Prerequisites

ASL& 121 or demonstrated competency

ASL& 123 : Am Sign Language III

Introduction to meta- and para-language areas of manual communication to more esoteric ideographic signs reflecting usage among different regional dialects. Difficulties of communication with more severely language-deprived individuals are discussed.

Understanding of deaf culture explored and developed. This course is not meant to prepare students as interpreters for the deaf.

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

Prerequisites

ASL& 122 or demonstrated competency

FRCH& 121 : French I

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.

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

Quarters Offered

Fall, Winter, Spring

FRCH& 122 : French II

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.

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

Prerequisites

FRCH& 121: French I

Quarters Offered

Fall, Winter, Spring

FRCH& 123 : French III

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.

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

Prerequisites

FRCH& 122: French II

Quarters Offered

Fall, Winter, Spring

GERM& 121 : German I

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 German-speaking world.

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

Quarters Offered

Fall, Winter, Spring

GERM& 122 : German II

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 German-speaking world.

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

Prerequisites

GERM& 121: German I

Quarters Offered

Fall, Winter, Spring

GERM& 123 : German III

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 German-speaking world.

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

Prerequisites

GERM& 122: German II

Quarters Offered

Fall, Winter, Spring

SPAN& 121 : Spanish I

Beginning Spanish language and culture taught using a communicative approach. Through the use of drama and themes, this course focuses on listening, speaking, reading and writing skills and the culture of the Spanish-speaking world.

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

Quarters Offered

Fall, Winter, Spring

SPAN& 122 : Spanish II

Beginning Spanish language and culture taught using a communicative approach. Through the use of drama and themes, this course focuses on listening, speaking, reading and writing skills and the culture of the Spanish-speaking world.

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

Prerequisites

SPAN& 121: Spanish I

Quarters Offered

Fall, Winter, Spring

SPAN& 123 : Spanish III

Beginning Spanish language and culture taught using a communicative approach. Through the use of drama and themes, this course focuses on listening, speaking, reading and writing skills and the culture of the Spanish-speaking world.

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

Prerequisites

SPAN& 122: Spanish II

Quarters Offered

Fall, Winter, Spring

SPAN& 221 : Spanish IV

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.

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

Prerequisites

[SPAN& 123](#); or departmental placement

SPAN& 222 : Spanish V

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.

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

Prerequisites

SPAN& 221; or departmental placement

SPAN& 223 : Spanish VI

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.

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

Prerequisites

SPAN& 222; or departmental placement

SPAN 211 : Spanish for Spanish Speakers I

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.

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

Prerequisites

Departmental placement

SPAN 212 : Spanish for Spanish Speakers II

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.

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

Prerequisites

[SPAN 211](#); or departmental placement

SPAN 213 : Spanish for Spanish Speakers III

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.

Distribution

Humanities Lecture

Credits 5

Lecture Hours 55

Prerequisites

[SPAN 212](#); or departmental placement

Faculty and Administrators

Faculty and Administrators

- Salah Abed (2007) Math, B.S., M.S., Western Washington University
- Jada Addink (2024) Math, B.S., Washington State University; M.S., University of Seattle
- Niki Allinson (2022) Student Resource Development Coordinator, B.S., Northwest University; M.S., Liberty University
- Benjamin Altrogge (2014) Aviation/ Commercial Pilot, B.S., Walla Walla University; FAA certificates include Airplane Single and Multi-Engine Land; Instrument Airplane; Commercial Pilot; Flight Instructor
- Erika Armengol (2020) TRiO Upward Bound Academic Coordinator, A.A., Big Bend Community College; B.A., University of Washington
- Joe Auvil (2015) Director of Purchasing, A.A., Spokane Community College; B.B.A., Gonzaga University
- Kimberly Barreras (2024) Academic Advisor, B.S., Eastern Washington University
- Jonathan Bauer (2024) Math, B.S., M.S., Central Washington University
- Sarah Bauer (2016) Chemistry, B.S., Central Washington University; M.S., Montana State University
- Anthony "Tony" Bergen (2012) Building & Grounds Supervisor, International Union of Painters and Allied Trades Apprenticeship Certificate, South Seattle Community College
- Starr Bernhardt (2006) Director of Enrollment Services & Registrar, B.S., University of Washington; M.S., Western Governors University
- Daneen Berry-Guerin (2005) Vice President for Administrative Services, A.A., Spokane Community College; B.A., Eastern Washington University; M.B.A., American Intercontinental University
- Jody Bortz (2013) BEdA Director, B.A., B.A.Ed., Central Washington University
- Jennifer Brathovde (2007) Director of Advising & Retention, B.A., B.A.Ed., Central Washington University
- Kylee Brulotte (2022) Educational Planner, B.S., Mount Marty University
- Theresa Calip (2019) Biology, B.A., University of Washington; M.A., University of California at Santa Barbara; M.A., (ABD), Ohio State University
- Linda Chadwick (2008) Executive Assistant To the Vice President of Learning & Student Success, A.A., Everett Community College; B.S. University of Washington
- Astrid Chen (2019) TRiO Student Support Services Academic Advisor, B.A., Eastern Washington University
- 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
- Steve Close (2004) English, A.A., Contra Costa Community College; B.A., San Francisco State University; M.A., Ph.D., University of Oregon
- Jacqueline "Jacqui" Contreras (2023) Outreach & Recruitment Coordinator B.S. Washington State University
- Gina Cutts (2023) Industrial Systems Technology, Washington Career and Technical Education Certificate, CWU; Instructional Strategies for Welding Educators, American Welding Society
- Anita De Leon (1999) TRiO Upward Bound Director, B.A., M.S.W., University of Washington
- Kaja Devine (2022) Criminal Justice/ Psychology, B.A., M.S., Central Washington University
- Sidney Dickerson (2023) Director of Student Programs, B.S., Wichita State University M.S., University of Kansas

- Chris Dinges (2021) Aviation Maintenance Technology, A.A.S., Big Bend Community College; FAA certificate Airframe & Powerplant
- Ryan Duvall (2016) Business Information Management, A.A., Big Bend Community College; B.S. Brigham Young University Idaho; M.B.A., Eastern Washington University
- Emily Eidson (2022) Nursing, A.A., Big Bend Community College; B.S.N., Western Governors University; M.S.N./Ed., Western Governors University
- Karina Elizarraraz (2024) Outreach and Recruitment Coordinator, A.A., Big Bend Community College B.S., Washington State University
- Dawnne Ernette (2015) Developmental English, B.A., M.A.Ed., University of Nevada-Reno
- Deena Farag (2008) Event & Conference Representative, A.A.S., Big Bend Community College; B.A., University of Washington
- Tiffany Fondren (2018) Communications Coordinator, B.A., Eastern Oregon University
- Cassandra Fry (2012) Director of Financial Aid, A.A.S., Big Bend Community College
- Tim Fuhrman (1998) Director of Library Resources & eLearning, A.A.S., Big Bend Community College; B.A., Central Washington University; M.A., University of Arizona
- Jasmin Galarza (2024) TRiO Upward Bound Academic Advisor, B.S., University of Texas Rio Grande Valley; M.S., Grand Canyon University
- Perla Garcia (2024) Early Childhood Education, B.S., North Seattle College; M.S., Eastern Washington University
- Guillermo Garza (2007) Commercial Driver's License, Class A CDL License; Endorsements P1, T, N; Instructor Certifications
- Jaime Garza (2015) Counselor, B.A., Central Washington University; M.A.Ed., Heritage University
- Kimberly Garza (2012) Vice President of Human Resources, Labor, & Technology, B.A., Eastern Washington University; M.S., Western Governors University
- Heidi Gephart (2014) Counselor, A.A.S., Big Bend Community College; B.A., Western Washington University; M.A.Ed., Washington State University
- Anne Ghinazzi (2017) Director of Title V & Other Grants, B.A., Augustana College; M.A., University of Iowa
- John Gillespie (1995) Aviation/Commercial Pilot, 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 Instrument/Ground Instructor, Advanced Instrument
- David Gillett (2015) Systems Engineer Network Administrator, A.A.S., Big Bend Community College; B.S., Western Governors University
- Aaron Glenn (2023) Accommodation and Accessibility Services Coordinator, B.A., Central Washington University; M.S., Capella University
- Mercedes Gonzalez-Aller (2009) Nursing, B.S.N., University of New Mexico; M.N., Whitworth University
- Yessenia Gonzalez (2024) Director of EOC and Outreach, B.S., Central Washington University
- Benjamin Griffin (2024) Athletic Director, B.S., M.S., Idaho State University
- Michael Griswold (2024) Assistant Director of Finance, B.S., Central Washington University
- Lindsay Groce (2013) Chemistry, B.S. B.A., M.S., Central Washington University
- Veronica Guadarrama (2017) Director of TRiO Student Support Services, B.A., Central Washington University; M.A., University of Arizona

- Giselle Gudino (2022) WES Academic Advisor, A.A., Everett Community College; B.S., Eastern Washington University
- Breanna Gustafson (2025) Nursing, A.A.S., Wenatchee Valley College. B.S.N, M.S.N., Western Governors University
- Octaviano Gutierrez (2016) English, B.A., University of Washington; M.A., Central Washington University
- Alma Guzman (2025) TRiO Student Support Services Academic Advisor, B.S., M.S., Central Washington University
- André Guzman (2019) Dean of Student Services, A.A., Big Bend Community College; B.A., Eastern Washington University; M.P.A., Indiana University
- Melissa Heaps (2022) High School Completion, B.A, Utah State University; M.A., Central Washington University
- Justin Henley (2022) Industrial Systems Technology, Drafting Technology Certificate, Wenatchee Valley College
- Mitch Herring (2024) Custodial Services Supervisor
- Carleigh Hill (2022) Library Consortium Services Manager, B.A., Linfield College; M.A., M.L.I.S., University of Missouri–Columbia
- David Holliway (2011) Psychology/Sociology, B.A., M.A., University of New Mexico; Ph.D., University of Washington
- John Holthaus (2021) Director of Facilities and Capital Projects, A.A., Spokane Community College; B.B.A., Georgia State University; B.A., Georgia Institute of Technology
- Geri Hopkins (2022) eLearning Coordinator, B.S., Eastern Oregon University; M.S., Simmons College
- Jason Hopkins (2024) Academic Advisor/ Head Men’s Basketball Coach, B.S., Lipscomb University; M.S., Idaho State University
- Bryce Humpherys (2016) Vice President for Learning & Student Success, B.A., M.S., Utah State University; Ed.D., Washington State University
- Jeanie Hunt (2025) Dean of Transfer and Allied Health, A.A., Northwest College; B.S., Black Hills State University; M.S., University of Phoenix; PHD., Walden University
- Yolanda Ibarra (2020) Director of Workforce Education Services, B.A., University of Durango
- Patricia Jones (2024) English, B.F.A., University of Arizona; M.F.A., University of Nebraska
- Jeremy Kelley (2015) Systems Engineer, A.A.S., Pierce College
- Matthew Killebrew (2016) Director of Communications, B.S., Austin Peay State University
- Rhonda Kitchens (2019) Librarian, B.A., M.L.I.S., University of South Florida
- Dennis Knepp (2000) Philosophy, B.A., Wichita State University; M.A., Ph.D., Washington University in St. Louis
- Beth Laszlo (2012) Director for the Center for Business & Industry Services, B.A., M.A.Ed., Central Washington University
- Reign Letkeman (2021) Athletic Facilities Coordinator, A.A., Big Bend Community College; B.A., Western Governors University
- Cade Levine (2023) Aviation Maintenance Technology, A.P.T., Airframe Maintenance General, Airframe Mechanic I, Airframe Mechanic II Certificates, Big Bend Community College; Helicopter Mechanics, Center for Naval Aviation Technical Training Camp Pendleton
- Aaron Linthicum (2024) Aviation Commercial Pilot, Flight Instructor Certification, Medical Certificate, A.A., Big Bend Community College B.S., Liberty University
- Juan Loera (2023) Director of Campus Safety & Compliance, A.A., Big Bend Community College; Sergeants Major Academy, U.S. Military
- Aaron Mahoney (2020) Agriculture/ Chemistry, B.S., Wichita State University; M.S., Western Washington University; Ph.D., Washington State University

- Jasmine Martinez (2018) TRiO Student Support Services Academic Advisor, A.A., Big Bend Community College; B.S., Central Washington University
- David Mayhugh (2016) Math, B.A.Ed., Eastern Washington University; M.S., Montana State University
- Tara McCoy (2022) Benefits Navigator, A.A., Skagit Valley College
- Shawn McDaniel (2004) Welding Technology, A.A.S., Electronic Engineering; American Welding Society: CWI (Certified Welding Inspector) 01110781, CWE (Certified Welding Educator) 0111009E
- Erick Mendoza (2025) Outreach and Recruitment Coordinator, B.S., Eastern Washington University
- Abinadi Milligan (2019) BEdA Site Manager, B.S., Central Washington University; M.S. Western Governors University
- Michelle Morley (2024) Dean of Workforce Education, B.S., University of Montana; M.S., Eastern Washington University; Ed.D., Montana State University
- Zach Olson (2017) Developmental English, B.F.A., M.A., Bemidji State University
- John Owens (2020) Music, B.A., California State University, San Bernardino; M.Mus., Ph.D., Kent State University
- Alan Park (2024) Outreach and Recruitment Coordinator, A.A. Big Bend Community College; B.S., Eastern Washington University
- Ty Payne (2025) Director of Flight Operations, B.S., US Air Force Academy; M.S., Troy University; M.P.P., University of Maryland
- Rosemary Parsons (2010) English Language Acquisition, A.A., Big Bend Community College; B.A., Central Washington University
- LeAnne Parton (2011) Director of Development/Executive Director of the BBCC Foundation, A.A., Big Bend Community College; B.A., Eastern Washington University
- Valerie Parton (1993) Dean of Institutional Research and Planning, B.A., Eastern Washington University; M.A.Ed., Heritage University
- Tahlia Perez (2024) Director of Human Resources and Equity, A.A., Big Bend Community College; B.S., Eastern Washington University; M.S., Western Governors University
- Rebecca Pettingill (2023) Outreach Design Coordinator, B.A., Eastern Washington University
- Mitchell Poth (2024) Communications, A.A., Big Bend Community College; B.S., Brigham Young University; M.S., Marist College
- Terry Pyle (2011) Agriculture/Economics, B.S., Brigham Young University; M.B.A., Pacific Lutheran University
- Jody Quitadamo (2016) History/Political Science, B.A., M.A., Central Washington University
- Maria "Carmen" Ramirez (2016) Educational Planner, A.A., Big Bend Community College; B.S. Central Washington University
- Michele Reeves (2016) Education/Early Childhood, B.A., Central Washington University; M.A., Grand Canyon University
- Dustin Regul (2022) Art, B.A., Illinois College; M.A., Eastern Illinois University; M.F.A., Washington State University
- Suzanne Reilly (2020) Sociology/Social Science, B.A., Shippensburg University; M.A., The Pennsylvania State University; Ph.D., University of Illinois at Urbana-Champaign
- Jeni Richline (2021) Instructional Design Specialist, B.A., Geneva College; M.S., California State University
- Christopher Riley (2001) History/Political Science, B.A., Pacific University; M.A., Pepperdine University
- Larry Rimple (2024) Japanese Agriculture Training Program Director, A.A., Big Bend Community College; B.A. Washington State University
- Chandra Rodriguez (2019) Executive Assistant to the President, A.A., Big Bend Community College
- Marbely Sanchez (2019) Financial Aid Advisor, B.A., University of Washington

- Alissa Scriven (2023) Retention Coordinator, B.S., M.A.Ed., Central Washington University
- Samuel Shuman (2024) Physics B.S., Western Washington University; M.S., Oregon State University; Ph.D., Oregon State University
- Kate Shuttleworth (1999) Writing Center Coordinator, B.A., San Francisco State University
- Tina Solis (2024) Educational Planner, A.A., Spokane Falls Community College
- Keith Starcher (2020) Aviation Maintenance Technology, A.A.S., Big Bend Community College; B.S., Central Washington University
- Wendy Stark (2024) Assistant Director of the Big Bend Community College Foundation
- Patrick Steele (2019) Director of Information Technology, B.S., Mayville State University; M.S., Minot State University
- Ruth Stoddard (2024) Director of Residence Halls and Residential Life, B.S., Utah State University; M.S., University of Utah
- Sara Thompson Tweedy (2020) President, B.A., Hollins University; M.Div, Yale University Divinity School; D.M., University of Maryland
- Sean Twohy (2015) English, B.A., Western Washington University; M.A., University of South Dakota
- Michell Valdivia Reynalda (2021) Computer Science, A.A.S., Big Bend Community College; B.S., Central Washington University
- Adam Wagener (2024) STEM Center Emporium Lab Coordinator, B.S., University of Washington; B.S., Washington State University; M.S., University of Washington
- Tyler Wallace (2008) Math, A.S., Blue Mountain Community College; B.A., B.S., M.A.T., George Fox University; M.A., University of Houston; Ed.D., Liberty University
- Angela Waites (2001) Foreign Language, A.A., Big Bend Community College; B.S., Brigham Young University; B.A., M.A., Washington State University
- Christy Welch (2016) Biology, B.S., M.S., Washington State University
- Mariah Whitney (2003) Biology, A.A., Big Bend Community College; B.S., Washington State University; M.S., Central Washington University
- Jackson Wilks (2022) Executive Director of Finance/Controller, B.S., Brigham Young University
- Preston Wilks (1996) Accounting and Business/Head Women’s Basketball Coach, A.A., Big Bend Community College; B.S., M.S., Brigham Young University; Certified Public Accountant
- Sarah Williams (2024) Student Retention Coordinator, B.S., Central Washington 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; M.A.Ed., Washington State University Ph.D., Northeastern University

Emeritus-Faculty and Staff

On occasion, retired staff, 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 Ledebøer (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): President Emeritus
- Roger Glaese (1969–1998): Vice President Emeritus
- Fred Buche (1966–1996): Faculty Emeritus
- David R. Wolff (1970–2000): Faculty Emeritus
- Dr. Harrell Guard (1986–1994): Vice President Emeritus
- Cynthia Calbick (1973–2001): Faculty Emeritus
- Barbara Guiland (1982–2001): Faculty Emeritus
- Brenda Teals (1971–2001): Faculty Emeritus
- Bill Looney (1970–2002): Faculty Emeritus
- Patricia Schrom (1992–2003): Trustee Emeritus
- Makoto Enokizono (1974–2004): Faculty Emeritus
- Vic Gilliland (1967– 2004): Faculty Emeritus
- Erika Hennings (1996–2004): Trustee Emeritus
- Patricia Nobach (1985–2005): Faculty Emeritus
- Joe Rogers (1970–2005): Faculty Emeritus
- Linda Wrynn (1981–2006): Faculty Emeritus
- Anita Hughes (1985–2007): Faculty Emeritus
- Pat Palmerton (1978 to 2007): Director Emeritus
- Ken Turner (1980 – 2008): Vice President Emeritus
- Kathy Tracy Mason (1989 – 2008): Faculty Emeritus

- Maryanne Allard (1975 – 2008): Athletic Director Emeritus
- Steve Matern (1980 – 2009): Faculty Emeritus
- Van Jorgensen (1984 – 2009): Faculty Emeritus
- Pete Hammer (1976 – 2009): Faculty Emeritus
- Chuck Cox (1980 – 2009): Faculty Emeritus
- Kim Helvy (1984–2009): Staff Emeritus
- Mike Lang (1976 – 2010): Vice President Emeritus
- Felix Ramon (1994– 2010): Trustee Emeritus
- Patricia Teitzel (1989–2011): Faculty Emeritus
- Eugene “Gene” Donat (1975–2011): Faculty Emeritus
- Katherine Kenison (1999–2011): Trustee Emeritus
- Holly Moos (1973–2012): Vice President Emeritus
- William C. Bonaudi (1995–2012): President Emeritus
- Donna Brown (1995–2012): Staff Emeritus
- Marsha Asay (1983–2013): Faculty Emeritus
- Lance Wyman (1983–2013): Faculty Emeritus
- Mike O’Konek (1985–2013): Faculty Emeritus
- Irene Osumi (1988–2013): Staff Emeritus
- Max Heinzmann (1981–2014): Faculty Emeritus
- John Swedburg (1982–2014): Faculty Emeritus
- Marsha Nelson (1973–1975, 1978–1982, 1984–1990, 1995–2015): Faculty Emeritus
- Hope Strnad (1984–2015): Staff Emeritus
- Mike Blakely (2004–2014): Trustee Emeritus
- Gail Erickson (1983–2014): Faculty Emeritus
- Pat Patterson (1992–2015): Faculty Emeritus
- Mary Shannon (1993–2015): Administrator Emeritus
- Gail Hamburg (1999 – 2015): Vice President Emeritus
- Kathy Arita (1999–2015): Director Emeritus
- Doug Sly (1985–2016): Administrator Emeritus
- Candis Lacher (1989–2016): Administrator Emeritus
- John Carpenter (1994–2016): Faculty Emeritus
- Garry Helvy (1994–2016): Staff Emeritus

- David Hammond (2001–2017): Faculty Emeritus
- Rita Jordan (1999–2017): Staff Emeritus
- Stephen Lane (1987–2017): Faculty Emeritus
- John Peterson (2002–2017): Faculty Emeritus
- Terry Kinzel-Troutman (1999–2017): Administrator Emeritus
- Kara Garrett (1987–2017): Administrator Emeritus
- Petr Radchishin (2002–2017): Staff Emeritus
- Margie Lane (1988–2018): Staff Emeritus
- Barbara Whitney (1990–2018): Faculty Emeritus
- Randy Fish (1986–2018): Staff Emeritus
- William “Bill” Autry (1995–2019): Faculty Emeritus
- Barbara Jacobs (1972–2019): Faculty Emeritus
- Nancy Theis (1974–2019): Staff Emeritus
- Leslie “Les” Michie (2001–2019): Faculty Emeritus
- Kathy Aldrich (1974–2019): Staff Emeritus
- Dan Moore (1992–2021): Faculty Emeritus
- Jim Hamm (1993–2021): Faculty Emeritus
- Nancy Leach: (1974–2020) Staff Emeritus
- Jim Tincher (posthumously): (1985–2020) Staff Emeritus
- Mark Poth (1987–2022): Athletic Director Emeritus
- Rie Palkovic (1998–2022): Faculty Emeritus
- Kathleen Duvall (1994–2023) Administrator Emeritus
- Erik Borg (2000–2023) Faculty Emeritus
- Kim Jackson (1984–2023) Director Emeritus

Transfer WFE Schedules

AGRICULTURAL MECHANICS

(schedule subject to change)

	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
AGM 129 Hydraulics I	5									
AGM 141 Hydraulics I	6									
AGM 151 Drivetrains I	6									
AGM 161 Diesel I	5									
AGM 221 Electrical II (Continuation of AUT 121)	6									
AGM 241 Hydraulics II	5									
AGM 251 Drivetrains II	5									
AGM 261 Diesel II	6									
AGM 291 Diagnostics (Capstone)	8									

**Agriculture
(schedule subject to change)**

	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
AGR 101 Orientation to Agricultural Industries & Careers	2		W 10:30-12:30				W 10:30-12:30			
AGR 110 Water Management in Agriculture	3				MW 2:15-3:20				MW 2:15-3:20	
AGR 120 Intro to Precision Agriculture	5		MW 8:00-10:20	MW 8:00-10:20			MW 8:00-10:20			
AGR 211 Agriculture Weeds Identification and Control	5				MTWTh 8:00-9:05				MTWTh 8:00-9:05	
AGR 212 Ag Safety and Pesticides	5			MTWTh 9:15-10:20				MTWTh 9:15-10:20		
AGR 241 Farm and Ranch Management	5		T 9:15-10:20 TH 9:15-11:15					T 9:15-10:20 TH 9:15-11:15		
AGR 251 Integrated	5				MTWTh 10:30-11:35				MTWTh 10:30-11:35	

**Agriculture
(schedule
subject to
change)**

	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
Pest Management										
AGR 261 Plant Science	5		M 10:30-12:30				M 10:30-12:30			
AGR 263 Soils	5			MTWTh 10:30-11:35 Lab: F 8-10				MTWTh 10:30-11:35 Lab: F 8-10		
AGR 265 Crop Production	5		MTWTh 1:00-2:05				MTWTh 1:00-2:05			
AGR 271 Agriculture Sales and Marketing	5				MTWTh 9:15-10:20				MTWTh 9:15-10:20	
AGR 272 Food Sustainability and Safety	5			MW 11:45-12:50				MW 11:45-12:50		
AGR 295 Work-based Learning (Internship)	44932					(ARR)				(ARR)
AGR 297 Work-based Learning Seminar	1					(ARR)				(ARR)

**Automotive Maintenance
Technology (schedule
subject to change)**

	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
AMT 148 General Electricity	44964		DAY	DAY			DAY	DAY		
AMT 149 Airframe Electricity	3		DAY	DAY	DAY		DAY	DAY	DAY	
AMT 150 General	45032		DAY	DAY			DAY	DAY		
AMT 151 Airframe Mechanic I	45038		DAY	DAY	DAY		DAY	DAY	DAY	
AMT 152 Airframe Mechanic II	45037		DAY	DAY	DAY		DAY	DAY	DAY	
AMT 153 Airframe Mechanic III	45040		DAY	DAY	DAY		DAY	DAY	DAY	
AMT 249 Powerplant Electricity	2		DAY	DAY	DAY		DAY	DAY	DAY	
AMT 251 Powerplant Mechanic I	45032		DAY	DAY	DAY		DAY	DAY	DAY	

**Automotive Maintenance
Technology (schedule
subject to change)**

	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
AMT 252 Powerplant Mechanic II	45030		DAY	DAY	DAY		DAY	DAY	DAY	
AMT 253 Powerplant Mechanic III	45032		DAY	DAY	DAY		DAY	DAY	DAY	
AMT 254 Powerplant Mechanic IV	45032		DAY	DAY	DAY		DAY	DAY	DAY	

ART	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
ART& 100 Art Appreciation HU	5	OL	OL	OL	OL, Hyb	OL	X	X	X	OL
ART 101 2D Foundations I HP	5		Hyb TT				Hyb TT			
ART 102 Color Theory HP	5			Hyb TT				Hyb TT		
ART 103 3D Foundations HP	5				Hyb TT				Hyb TT	
ART 104 Drawing I HP	5		OL		Hyb TT		OL		Hyb TT	
ART 105 Drawing II HP	5			OL				OL		
ART 106 Drawing III HP	5									
ART 121 Ceramics I HP	5		Hyb MW	Hyb MW	Hyb MW		Hyb MW	Hyb MW	Hyb MW	
ART 122 Ceramics II HP	5		Hyb MW	Hyb MW	Hyb MW		Hyb MW	Hyb MW	Hyb MW	
ART 123 Ceramics III HP	5		Hyb MW	Hyb MW	Hyb MW		Hyb MW	Hyb MW	Hyb MW	
ART 140 Introduction to Digital Art HP	5	OL		OL	OL	OL		OL	OL	
ART 198 Special Projects HP	5									
ART 212 American Art HU	5									
ART 216 Prehistoric–Medieval Art History HU	5				X				X	
ART 217 Renaissance –Mid- nineteenth Century HU	5			X				X		
ART 218 Western Art: Impressionism to Art after 1945 HU	5		X				X			
ART 221 Watercolor I HP	5	OL			OL	OL			OL	OL
ART 222 Watercolor II HP	5	OL			OL	OL			OL	OL
ART 223 Watercolor III HP	5	OL			OL	OL			OL	OL

ART	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
ART 230 Painting/Drawing Workshop HP	5									
ART 231 Oil Painting I HP	5		Hyb TT	Hyb TT			Hyb TT	Hyb TT		
ART 232 Oil Painting II HP	5		Hyb TT	Hyb TT			Hyb TT	Hyb TT		
ART 233 Oil Painting III HP	5		Hyb TT	Hyb TT			Hyb TT	Hyb TT		

**Automotive Technology
(schedule subject to
change)**

	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
AUT 069 Chassis Component Repair	2	Not currently offered								
AUT 081 Mechanical Diagnosis & Repair	2									
AUT 105 Automotive Personal Computer Applications	2				Day				Day	
AUT 111 Automotive Engine Service	9				Day				Day	
AUT 115 Automotive Shop Safety & Environmental Issues	1		ARR	ARR	ARR		ARR	ARR	ARR	
AUT 121 Automotive Electrical & Electronic Systems	15			Day				Day		
AUT 124 Brake System Service	9			Day				Day		
AUT 125 suspension, Steering, & Alignment	9			Day				Day		
AUT 131 Manual Drive Train & Axles	8				Day				Day	
AUT 132 Hydraulic Systems	3		Day				Day			
AUT 190 Skills Laboratory I	2				EVE				EVE	
AUT 211 Automobile Convenience Systems	2				Day				Day	
AUT 212 Automatic Transmission Repair	9		Day				Day			
AUT 213 Automotive Services I	6		Day				Day			
AUT 220 Engine Performance	18		Day					Day		
AUT 223 Automotive Servicing II	6				Day				Day	
AUT 231 Automotive Heating & AC	6				Day				Day	

Commercial Pilot (schedule subject to change)	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
AVF 213 Advanced Meteorology	5									
(not currently offered)										
AVF 221 Commercial Pilot Ground School	5							Day		
AVF 223 Instrument Ground School	5						Day			
AVF 225 Effective Communication in Flight Instruction	5								Day	
AVF 227 Aircraft Systems for Pilots (not currently offered)	5									
AVF 251 Commercial Pilot Flight (Stage 4)	4						ARR			
AVF 252 Commercial Pilot Flight (Stage 5)	4							ARR		
AVF 253 Commercial Pilot Flight (Stage 7)	4								ARR	
AVF 254 Night Flying	1		ARR	ARR	ARR		ARR	ARR	ARR	
AVF 261 Instrument Flight (Stage 6)	4								ARR	
AVF 270 Flight Instructor	4									
AVF 271 Flight Instructor Instrument-Airplane	2	ARR	ARR	ARR	ARR	ARR	ARR	ARR	ARR	ARR
AVF 272 Seaplane Flight	2	ARR	ARR		ARR	ARR	ARR		ARR	ARR
AVF 275 Multi-Engine Flight	2	ARR	ARR	ARR	ARR	ARR	ARR	ARR	ARR	ARR
AVF 276 Simulator Training/Instrument Training	0.5-1	ARR	ARR	ARR	ARR	ARR	ARR	ARR	ARR	ARR
AVF 291 Multi-Engine Instructor	2	ARR	ARR	ARR	ARR	ARR	ARR	ARR	ARR	ARR
AVF 292 ATP Multi-Engine	1	ARR	ARR	ARR	ARR	ARR	ARR	ARR	ARR	ARR
AVF 295 Work-based Learning	1.-6	ARR	ARR	ARR	ARR	ARR	ARR	ARR	ARR	ARR
AVF 297 Work-based Learning Seminar	1	ARR	ARR	ARR	ARR	ARR	ARR	ARR	ARR	ARR
Avionics (schedule subject to change)	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025

Avionics (schedule subject to change)

	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
AVIO 100 Aircraft Electrical Fundamentals	8	not currently offered								
AVIO& 102 Aircraft Electronic Fundamentals	8									
AVIO& 103 Aircraft Wiring Systems	2									

Bachelor of Applied Science–Applied Management (schedule subject to change)

	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
MGMT 305 Business Management	5				OL				OL	
MGMT 310 Accounting for Managers	5				OL				OL	
MGMT 350 Marketing for Managers	5				OL				OL	
MGMT 370 Organizational Leadership	5			OL				OL		
MGMT 380 Human Resource Management	5		OL				OL			
MGMT 410 Financial Management	5			OL				OL		
MGMT 430 Project Management	5			OL				OL		
MGMT 440 Operations Management	5				OL				OL	
MGMT 460 Applied Management Capstone	5				OL				OL	
CMST 330 Organizational Communication	5			OL				OL		
PHIL 340 Professional Ethics	5		OL				OL			
SOC 320 Organizational Behavior	5		OL				OL			

BIOLOGY	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
BIOL& 100 Survey of Biology LS	5	OL	Hyb , OL	Hyb , OL	Hyb , OL	OL	Hyb , OL	Hyb , OL	Hyb , OL	OL
BIOL 104 Core Concepts in Biology SE	5									
BIOL& 160 General Biology with Lab LS	5		Hyb , OL	Hyb	Hyb		Hyb , OL	Hyb	Hyb	
* required for Nursing DTA										
BIOL& 170 Human Biology NS	5				OL				OL	
BIOL& 221 Majors Ecology/Evolution LS	5		Hyb				Hyb			
* required for AS-T 1: BIOL Pre-major										
BIOL& 222 Majors Cell/Molecular LS	5			Hyb				Hyb		
* required for AS-T 1: BIOL Pre-major										
BIOL& 223 Majors Organismal Phys LS	5				Hyb				Hyb	
* required for AS-T 1: BIOL Pre-major										
BIOL& 241 Human A & P 1 LS	5		Hyb MW	Hyb TT, OL			Hyb MW	Hyb TT, OL		
* required for Nursing DTA										
BIOL& 242 Human A & P 2 LS	5			Hyb MW	HybMW, OL			Hyb MW	HybMW, OL	
* required for Nursing DTA										
BIOL& 260 Microbiology LS	5		Hyb TT		Hyb MW			Hyb TT		Hyb MW
* required for Nursing DTA										

BOTANY	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
BOT 130 Botany LS	5			Hyb				Hyb		
BOT 140 Field Botany LS	5				Day				Day	

Business (Schedule subject to change)

Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
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Business (Schedule subject to change)

	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
BUS& 101 Introduction to Business	5	ONLINE	DAY	ONLINE	DAY	ONLINE	DAY	ONLINE	DAY	ONLINE
BUS& 201 Business Law	5		DAY	DAY	DAY		DAY	DAY	DAY	

BUS 102 Business Mathematics 5 **not currently offered**

(See MAP 117/119)

BUS 114 Business Ethics	5			HYBRID/DAY						HYBRID/DAY
BUS 115- Workplace Skills and Behaviors	4	Hybrid/Day		HYBRID/DAY		hybrid/day				HYBRID/DAY
BUS 119-Business Grammar and Edit	5	Hybrid/Day	hybrid/day			hybrid/day	hybrid/day			HYBRID/DAY
BUS 120 Human Relations on the Job	4									not currently offered
BUS 121 Business English	5									not currently offered
BUS 122 Business Communications	5			Hybrid		Hybrid				Hybrid
BUS 161 Business calculators	2		DAY					DAY		
BUS 170 Consumer Finance	5			DAY						DAY
BUS 200 Supervision	5		Hybrid					Hybrid		
BUS 215 Customer Service	3	online	hybrid			online	hybrid			online
BUS 289 Project Management	5			EVE						EVE
BUS 295 Work-based Learning	1-6									

*available all quarters with instructor/advisor approval

BUS 102 Business Mathematics **5** **not currently offered**

BUS 297 Work-based Learning Seminar 1

*available all quarters with instructor/advisor approval

Business Information Management (Schedule subject to change)

	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
BIM 101 Basic Keyboarding	1 to 2	online	hybrid	hybrid	hybrid	online	hybrid	hybrid	hybrid	
BIM 102 Document Formatting	1 to 4	not currently offered								
BIM 103 The Administrative Professional	2	not currently offered								
BIM 104 Intermediate Keyboarding	1 to 3	online	hybrid	hybrid	hybrid	online	hybrid	hybrid	hybrid	online
BIM 106 Advanced Keyboarding	1 to 3	online	hybrid	hybrid	hybrid	online	hybrid	hybrid	hybrid	online
BIM 109 Internet Communications	1 to 3	online	hybrid	hybrid	hybrid	online	hybrid	hybrid	hybrid	online
BIM 110 Microsoft Office Essentials	1 to 3	online	hybrid	hybrid	hybrid	online	hybrid	hybrid	hybrid	online
		online	hybrid	hybrid	hybrid	online	hybrid	hybrid	hybrid	
BIM 112 Proof & Edit	1 to 3	not currently offered								
BIM 113 The Medical Office	5	online			online					
BIM 117 Medical Office Accounts Receivable	4	online			online					
BIM 130 Filing	1 to 2	not currently offered								
BIM 131 Records Management	1 to 3		hybrid	hybrid	hybrid		hybrid	hybrid	hybrid	
BIM 173 Word Processing I	1 to 5		hybrid	hybrid	hybrid		hybrid	hybrid	hybrid	
BIM 177 BIM Lab	1 to 6									

Business Information Management (Schedule subject to change)

	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
*arranged with instructor permission only										
BIM 180 Introduction to Microsoft Office	1 to 5	online	hybrid	hybrid	hybrid	online	hybrid	hybrid	hybrid	online
BIM 181 Introduction to Microsoft Word	1 to 3	online	hybrid	hybrid	hybrid	online	hybrid	hybrid	hybrid	online
BIM 182 Introduction to Microsoft Excel	1 to 3	online	hybrid	hybrid	hybrid	online	hybrid	hybrid	hybrid	online
BIM 183 Introduction to Microsoft Access	1 to 3	online	hybrid	hybrid	hybrid	online	hybrid	hybrid	hybrid	online
BIM 184 Introduction to Microsoft PowerPoint	1 to 3	online	hybrid	hybrid	hybrid	online	hybrid	hybrid	hybrid	online
BIM 186 Microsoft Publisher	1 to 3		hybrid	hybrid	hybrid		hybrid	hybrid	hybrid	
BIM 187 Adobe Acrobat	1 to 3		hybrid	hybrid	hybrid		hybrid	hybrid	hybrid	
BIM 190 Spreadsheets I	1 to 5		hybrid	hybrid	hybrid		hybrid	hybrid	hybrid	
BIM 198 Special Topics	1 to 5									
*arranged with instructor permission only										
BIM 210 Internet	1 to 2	online	hybrid	hybrid	hybrid	online	hybrid	hybrid	hybrid	online
BIM 280 Advanced Microsoft Office	1 to 5	online	hybrid	hybrid	hybrid	online	hybrid	hybrid	hybrid	online
BIM 285 MOS Prep & Certification	1 to 5	online	hybrid	hybrid	hybrid	online	hybrid	hybrid	hybrid	online

CHEMISTRY	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
CHEM& 105 Chemical Concepts NS	5		F2F	OL	F2F		F2F	OL	F2F	
CHEM& 110 Chemical Concepts w/Lab LS	5		OL	OL	OL		OL	OL	OL	
CHEM& 121 Intro to Chemistry LS	5	F2F	F2F, OL	F2F, OL	F2F, OL	F2F	F2F, OL	F2F, OL	F2F, OL	F2F
* required for Nursing DTA										
CHEM& 131 Intro to Organic/Biochem LS	5				F2F Day				F2F Day	
* required for BSN										
CHEM& 161 General Chem w/Lab I LS	5		F2F Day				F2F Day			

Composites (Schedule subject to change)	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
CPT 130 Composite Repair	4									
CPT 145 Special Projects	3									

Computer Science (Schedule subject to change)	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
CS 101 Intro to Computer Science	3	not currently offered								
CS 103 Intro to Computer Hardware & Operating Systems	6		EVE				EVE			
CS 104 Intro to Computer Hardware	3		EVE	EVE			EVE	EVE		
CS 105 Intro to Computer Operating Systems	3		EVE	EVE			EVE	EVE		
CS 106 Intro to Virtualization	5		EVE				EVE			
CS 110 Networking Fundamentals	4		EVE	EVE			EVE	EVE		
CS 111 Intro to Programming	5		EVE		EVE		EVE		EVE	
CS 115 Intro to Database Design & Mgmt	5		EVE				EVE			
CS 116 Networks & Network Security I	3		EVE	eve			EVE	eve		
CS 117 Networks & Network Security II	3			EVE	eve			EVE	eve	
CS 120 A+ Certification Prep	1			EVE	EVE			EVE	EVE	
CS 121 Network+ Certification Prep	1		EVE		EVE		EVE		EVE	
CS 122: Server+ Prep & Certification	1		eve				eve			
CS& 131 Computer Science I: C++	5									
CS 132 Advanced Programming with C++	5									
CS& 141 Computer Science I: Java	5		EVE		EVE		EVE		EVE	
CS 142 Advanced Programming with Java	5				EVE				EVE	

**Computer Science
(Schedule subject to
change)**

	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
CS 151 Digital Forensics	5				EVE				EVE	
CS 152 Ethical Hacking	5				EVE				EVE	
CS 156 Cisco Networking: Intro to Networks	5									
CS 157 Cisco Networking: Routing & Switching Essentials	5									
CS 158 Cisco Networking: Scaling Networks	5									
CS 159 Cisco Networking: Connecting Networks	5									
CS 171 Cisco Networking: Intro to Networks	6				EVE				EVE	
CS 172 Cisco Networking: Routing & Switching	6			eve	eve			eve	eve	
CS 173 Cisco Networking: Enterprise Networking	6				eve				EVE	
CS 195 Internship: Work- based Learning	1 to 4									
*arranged with instructor permission										
CS 197 Internship: Work- based learning Seminar *arranged with instructor permission	1									
CS 205 Windows Server Administration	5			EVE				EVE		
CS 206 Linux Server Administration	5	eve			EVE				EVE	
CS 207 Introduction to Security Administration	5			EVE				EVE		
CS 211 Scripting	3	eve			EVE				EVE	
CS 235 Data Structures & Algorithms – C++	5									
CS 245 Data Structures & Algorithms – Java	5				EVE				EVE	
CS 260 Computer Programming Topics	5									
CS 295 Internship: Work- based Learning II	1 to 4									
*Arranged with instructor permission										

**Computer Science
(Schedule subject to
change)**

	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
CS 297 Internship: Work-based Learning Seminar II *arranged with instructor permission	1									

CRIMINAL JUSTICE

	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
CJ& 101 Intro Criminal Justice SS	5	OL	Hyb MW	Hyb TT	OL	OL	OL, Hyb MW	Hyb TT	X	OL
CJ& 105 Introduction to Corrections SE	5								Hyb MW	
CJ& 106 Juvenile Justice SE	5			Hyb MW						
CJ& 110 Criminal Law SE	5							OL		
CJ 198 Special Topics	1-2									
*scheduled with instructor permission only										
CJ 203 Police Administration & Leadership	5									
CJ 209 Police Psychology	5		OL							
CJ 210 Introduction to American Policing SE	5						OL			
CJ 215 Criminal Investigations	5				Hyb MW					
CJ 217 Advanced Report Writing	3								OL	
CJ 295 Work-based Learning (CJ)	1-8									
*scheduled with instructor permission only										
CJ 297 Work-based Learning Seminar (CJ)	1									
*scheduled with instructor permission only										

**High School
Completion/OPD/DVS
(Schedule subject to
change)**

Credits Summer Fall Winter Spring Summer Fall Winter Spring Summer

**High School
Completion/OPD/DVS
(Schedule subject to
change)**

	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
DVS 011 Basic Skills Review		X	X	X	X	X	X	X	X	X
DVS 012 Adult Secondary Education I		X	X	X	X	X	X	X	X	X
DVS 013 Adult Secondary Education II		X	X	X	X	X	X	X	X	X
DVS 014 Adult Basic Skills		X	X	X	X	X	X	X	X	X
DVS 015 Accelerated Learning Support		X	X	X	X	X	X	X	X	X
DVS 016 Accelerated Learning Support: English		X	X	X	X	X	X	X	X	X
DVS 017 Accelerated Learning Support: Math		X	X	X	X	X	X	X	X	X
DVS 031 Beginning English Language Acquisition		X	X	X	X	X	X	X	X	X
DVS 032 Intermediate English Language Acquisition		X	X	X	X	X	X	X	X	X
DVS 033 Advanced English Language Acquisition		X	X	X	X	X	X	X	X	X
DVS 036 English Language Acquisition/Citizenship				X				X		
DVS 080 College Transitions Math		X	X	X	X	X	X	X	X	X
DVS 090 Transition to College		X	X	X	X	X	X	X	X	X

COMMUNICATIONS

	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
CMST& 101 Intro to Communication	4		OL				OL			
CMST& 102 Introduction to Mass Communications HU	5		OL	OL	OL		OL	OL	OL	
CMST& 210 Interpersonal Communications HU	5		Vir, OL	Vir, Hyb MW	Vir		Vir, OL	Vir, Hyb MW	Vir	
CMST& 220 Public Speaking HU	5	OL	OL, Hyb TT, Hyb MW	OL, Hyb TT, Hyb MW	OL, Hyb TT, Hyb MW	OL	OL, Hyb TT, Hyb MW	OL, Hyb TT, Hyb MW	OL, Hyb TT, Hyb MW	OL
CMST 225 Intercultural Communication HU	5		OL	OL			OL	OL		

COMMUNICATIONS	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
CMST 229 Advanced Public Speaking HU	5				Hyb TT				Hyb TT	
CMST 230 Small Group Discussion HU	5				Hyb TT				Hyb TT	

ECED/EDUC (Schedule subject to change)	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
ECED& 105: Intro Early Child Ed	5	online	hybrid	hybrid	hybrid		Hybrid	hybrid	hybrid	
ECED& 107: Health/Safety /Nutrition	5	online	online	online	online		online	online	online	
ECED& 120: Practicum (prerequisite: ECED& 105)	2	hybrid	hybrid	hybrid	hybrid		hybrid	hybrid	hybrid	
ECED& 132: Infants/Toddlers Care	3			online				online		
ECED& 134: Family Child Care	3	online				online				online
ECED& 138: Home Visitor/Family Engagement	3	online				online				online
ECED& 139: Administration of Early Learning Programs	3	online				online				online
ECED& 160: Curriculum Development (concurrent enrollment in ECED& 190 required)	5			virtual				virtual		
ECED& 170: Environments-Young Child	3		virtual				virtual			
ECED& 180: Lang/Literacy Develop	3				online				online	
ECED& 190: Observation/Assessment (concurrent enrollment in ECED& 160 required)	3			hybrid				hybrid		
EDUC& 115: Child Development	5	online	online	online	online	online	online	online	online	online
EDUC& 130: Guiding Behavior	3	online	online	online	online	online	online	online	online	online
EDUC& 136: School Age Care	3	online				online				online
EDUC& 150: Child/Family /Community	3		online				online			
EDUC 190: Classroom Experience (prerequisite: ECED& 120 or EDUC & 201) *required for AA in ECE	3		hybrid	hybrid	hybrid		hybrid	hybrid	hybrid	

ECED/EDUC (Schedule subject to change)	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
EDUC& 202: Intro to Education (prerequisite: successful completion of ENGL 99 or placement in ENGL &101) This course is suggested for students who plan to transfer into an elementary or secondary education program at a 4-year institution. It is NOT required for the AAS in ECE degree. (Formerly EDUC& 201-3 credits)	5		online	online	online		online	online	online	
EDUC& 204: Inclusion Education (formerly Exceptional Child)	5				hybrid				hybrid	
HUM 220: Diversity in Education	5		online		online		online		online	

Economics (Schedule subject to change)	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
ECON 200 Introduction to Economics	5	not currently offered								
ECON& 201 Micro Economics	5		X	X	X		X	X	X	
ECON& 202 Macro Economics	5	OL		X	X	OL		X	X	OL

ENGLISH	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
ENGL 094 Applied Technical Writing Foundations	5			Hyb	Hyb			Hyb	Hyb	
ENGL 099 English Skills	5		OL, Hyb	OL, Hyb	OL, Hyb		OL, Hyb	OL, Hyb	OL, Hyb	
ENGL& 101 English Composition I BS	5	OL	OL, Hyb MW, Hyb TT	OL, Hyb MW, Hyb TT	OL, Hyb MW, Hyb TT	OL	OL, Hyb MW, Hyb TT	OL, Hyb MW, Hyb TT	OL, Hyb MW, Hyb TT	OL
* required in AA&S DTA										
ENGL& 102 Composition II BS/HU	5	OL	OL, Hyb MW, Hyb TT	OL, Hyb MW, Hyb TT	OL, Hyb MW, Hyb TT	OL	OL, Hyb MW, Hyb TT	OL, Hyb MW, Hyb TT	OL, Hyb MW, Hyb TT	OL

Engineering	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
ENGR 110 Intro to Science and Engineering	3		X				X			
ENGR& 111 Engineering Graphics I SE	5									
* elective for AS-T 2 MRP Mech/Civ/Aero/MatSci										
ENGR& 112 Engineering Graphics II SE	5									
* elective for AS-T 2 MRP Mech/Civ/Aero/MatSci										
ENGR 201 Material Science NS	5									
ENGR 202 Design of Logic Circuits SE	6									
* elective for AS-T 2 MRP Ele/Comp										
ENGR& 204 Electrical Circuits NS	5									
* required for AS-T 2 MRP Ele/Comp										
ENGR 205 Electrical Circuits Lab NS	2									
ENGR& 214 Statics NS	5									
* required for AS-T 2 MRP Mech/Civ/Aero/MatSci										
ENGR& 215 Dynamics NS	5									
* required for AS-T 2 MRP Mech/Civ/Aero/MatSci										
ENGR& 224 Thermodynamics NS	5									
ENGR& 225 Mechanics of Materials NS	5									
* required for AS-T 2 MRP Mech/Civ/Aero/MatSci										
ENGR 240 Applied Numerical Methods NS	5									
* elective for AS-T 2 MRP										
ENVIRONMENTAL SCIENCE	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025

ENVIRONMENTAL SCIENCE	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
ENVS& 100 Survey of Environmental Science NS	5	OL	OL	Hyb TT, OL	Hyb TT, OL	OL	OL	Hyb TT, OL	Hyb TT, OL	OL

FILM STUDY	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
FILM 101 Introduction to Cinema HU	5		Hyb TT	Hyb MW	Hyb TT		Hyb TT	Hyb MW	Hyb TT	

FIRST AID (Schedule subject to change)	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
FAD 150 Industrial First Aid and Cardio Pulmonary Resuscitation Plus Bloodborne Pathogens	2	Hyb	Hyb MW	Hyb MW	Hyb TT	Hyb	Hyb MW	Hyb MW	Hyb TT	

Geographic Information Systems (GIS) (schedule subject to change)	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
GIS 110 Geographic Information Systems (GIS) I	4			online				online		
GIS 210 Geographic Information Systems (GIS) II	5				online				online	

GEOLOGY	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
GEOL& 101 Intro Physical Geology LS	5		Hyb MW	Hyb MW	Hyb MW		Hyb MW	Hyb MW	Hyb MW	
GEOL& 103 Historical Geology LS	5				Hyb TT				Hyb TT	

Health Education	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025

Health Education	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
HED 105 Intro to Healthcare Studies	3		OL				OL			
HED 119 Medical Terminology	5		OL		OL		OL		OL	
HED 121 The Human Body & Disease I	5		Hyb TT, OL				Hyb TT, OL			
HED 122 The Human Body & Disease II	5			Hyb TT, OL				Hyb TT, OL		
HED 123 The Human Body & Disease III	5				Hyb TT, OL				Hyb TT, OL	
HED 160 Pharmacology for Allied Health	3				OL				OL	
HED 239 Medical Ethics	2		OL				OL			

HISTORY	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
HIST 105 Intro to History of Science, cross listed as SCI 105 SS	5				Hyb TT				X	
HIST 110 The American Experience SS	5		Hyb TT				OL			
HIST& 116 Western Civilization I SS	5									
HIST& 117 Western Civilization II SS	5									
HIST& 118 Western Civilization III SS	5									
HIST 121 History of Mexico SS	5		OL	Hyb MW			OL	Hyb MW		
HIST& 126 World Civilization I SS	5									
HIST& 127 World Civilizations II SS	5									
HIST& 128 World Civilizations III SS	5									
HIST& 136 U.S. History 1 SS	5	OL		Hyb TT	Hyb TT, OL	OL		Hyb TT	Hyb TT, OL	OL
HIST& 137 U.S. History 2 SS	5		Hyb TT, OL	Hyb MW	Hyb MW, OL		Hyb TT, OL	Hyb MW	Hyb MW, OL	
HIST 210 Tudor England SS	5									
HIST& 215 Women in American History SS	5			Hyb MW	OL			Hyb MW	OL	

**Homeland Security
Emergency Mgmt**

	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
HSEM 250 Homeland Security Law and Ethics	3									

HUMANITIES

	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
HUM 102 Kick Ass Women in Pop Culture HU	5		Hyb TT				Hyb TT			
HUM 108 Introduction to Gender Studies HU	5				Hyb TT				Hyb TT	
HUM 110 Greek Mythology HU	5	OL				OL				OL
HUM 205 Diversity in French and German Language Cinema HU	5				X			X		
HUM 214 Diversity Issues: Race, Class and Gender HU	5		OL	Hyb TT	OLV		OL	Hyb TT	OLV	
HUM 220 Diversity in Education HU	5	OL					OL			

**Industrial Systems
Technology (Schedule
subject to change)**

	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
IST 100 Intro. to Industrial Safety and Health	3		DAY				DAY			
IST 102 Technical Drawing Interpretation	3		DAY				DAY			
IST 105 Basic Electricity: DC Circuit Analysis	5	not currently being offered								
IST 106 Basic Electricity: AC Circuit Analysis	5									
IST 107 Industrial Electricity I	5		DAY				DAY			
IST 110 Intro. to National Electrical Code	2		DAY				DAY			
IST 111 National Electrical Code II	2			DAY				DAY		
IST 112 National Electrical Code III	2				DAY				DAY	

**Industrial Systems
Technology (Schedule
subject to change)**

	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
IST 113 Ind. Elec. Installation Techniques	5				DAY/Friday				DAY/Friday	
IST 120 Intro. to Preventive/Predictive Maintenance	3				DAY				DAY	
IST 130 Intro. to Refrigeration and AC	5		not currently being offered							
IST 136 Intro. to Industrial Boilers	5									
IST 150 Intro. to Programmable Logic Controls I	5		DAY					DAY		
IST 152 Programmable Automation Control	5			DAY						
IST 170 Intro. to Instrumentation	5		DAY					DAY		
IST 180 Machining I	5		not currently being offered							
IST 182 Machining II	5									
IST 184 Machining Skill Enhancement	4									
IST 207 Industrial Electricity II	5			DAY				DAY		
IST 208 Industrial Electricity III	5				DAY				DAY	
IST 221 Electronics I (Principles)	5				DAY				DAY	
IST 222 Electronics II (Applications)	5		DAY					DAY		
IST 223 Electronics III (Industrial)	5			DAY				DAY		
IST 252 HMI/PLC					DAY				DAY	
IST 270 Instrumentation II & Control Actuators	5				DAY				DAY	
IST 280 Mechanical Power Transmission	5							DAY		
IST 282 Fluid Power Transmission	5							DAY		

**Industrial Systems
Technology (Schedule
subject to change)**

	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
IST 284 Pump Hydraulics/Mechanics	5								DAY	

JOURNALISM

	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
JOU 140 Digital Photojournalism HP	3									

Library

	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
LIB 101	1	x	x	x	x	x	x	x	x	

**Manufacturing & Process
Technology (Schedule
subject to change)**

	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
MPT 104 Intro to Electricity	5			DAY				DAY		
MPT 120 Intro to CAM	5		DAY				DAY			
MPT 125 2.5 Axis Milling	5			day				day		
MPT 130 CNC Turning	5		day		day				day	
MPT 135 Intro to Additive Manufacturing	3			day				day		
MPT 140 Intro to IIoT and SCADA	3				day				day	
MPT 145 Intro to Coordinate Metrology	5				day				day	
MPT 220 3 Axis Milling	5		day				day			
MPT 225 Multi-Axis Milling	5			day				day		
MPT 230 Cobot-enabled Machining	3				day				day	

MATHEMATICS

	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025

Math Applied (Schedule subject to change)	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		offered								
MAP 103 Applied Mathematics (IST)	5									
MAP 117 Applied Math for Workforce I	5	OL	X	X	X	OL	X	X	X	
MAP 119 Applied Math for Workforce II	5	OL	X	X	X	OL	X	X	X	
MAP 121 Applied Math for Workforce III	5	not currently offered								

Mechatronics (Schedule subject to change)	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
MCT 100 Intro to Modern Technology	5	not currently offered								
MCT 101 Mechatronics I	5									
MCT 102 Mechatronics II	5									
MCT 103 Mechatronics III	5									
MCT 120 Robotics I	5			day				day		
MCT 129 Independent Project/GPS (arranged with instructor)	1 to 5									
MCT 220 Robotics II	5								day	

MEDICAL ASSISTANT	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
MA 115 Clinical Procedures I	7			Day				Day		
MA 116 Clinical Procedures II	4				Day				Day	
MA 195 Externship/Practicum for MA	6					ARR				ARR
MA 197 Externship/Practicum Seminar	1					OL				OL

MUSIC	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
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MUSIC	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
MUSC 100 Introduction to Music HU	5									
MUSC 101 Ukulele Orchestra (Ukestra) HP	1									
MUSC& 105 Music Appreciation HU	5		Hyb TT, OL	Hyb TT, OL	Hyb TT, OL		Hyb TT, OL	Hyb TT, OL	Hyb TT, OL	
MUSC 110 College Chorus HP	1									
MUSC 114 Mariachi Workshop HP	3									
MUSC 115 Group Piano I HP	2			Hyb TT				Hyb TT		
MUSC 116 Group Piano II HP	2			Hyb TT				Hyb TT		
MUSC 117 Group Piano III HP	2									
MUSC 120 College Band HP	1									
MUSC 124 Orchestra I HP	2									
MUSC 134 Group Guitar HP	2		Hyb TT		Hyb TT		Hyb TT		Hyb TT	
MUSC 170 History of Jazz HU	5			Hyb TT				Hyb TT		
MUSC 174 History of Rock and Roll HU	5		Hyb TT				Hyb TT			
MUSC 175 Music of the World HU	5				Hyb TT				Hyb TT	
MUSC 204 Music Technology Workshop HU	3									
MUSC 215 Group Piano IV HP	2									
MUSC 216 Group Piano V HP	2									
MUSC 217 Group Piano VI HP	2									
MUSC 260 Percussion Ensemble HP	1		Hyb TT Eve	Hyb TT Eve	Hyb TT Eve		Hyb TT Eve	Hyb TT Eve	Hyb TT Eve	
MUSC 270 Musical Theatre Workshop HP	1									

NURSING ASSISTANT	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
NUR 100 Nursing Assistant	9		Day	Day	Day		Day	Day	Day	

NURSING	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
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NURSING	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
NUR 297 Work-Based Learning Seminar	1									
NUR 295 Work-Based Learning Practicum	1-3									
NUR 297 Work-Based Learning Seminar	1									

NUTRITION	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
NUTR& 101 Nutrition NS	5	OL	Hyb, OL	Hyb, OL	Hyb, OL	OL	Hyb, OL	Hyb, OL	Hyb, OL	OL

PHYSICAL EDUCATION	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
PEH 100 Lifetime Wellness SE	3	X	X	X	X	X	X	X	X	X
PEH 102 Theory of Basketball SE	3		X					X		
PEH 103 Theory of Wrestling SE	3			X				X		
PEH 105 Theory of Baseball SE	3				X					
PEH 106 Theory of Fastpitch Softball SE	3								X	
PEH 107 Theory of Volleyball SE	3						X			
PEH 112 Running or Walking for Fitness AC	1		X		X		X		X	
PEH 114 Basketball AC	1									
PEH 119 Fast Pitch AC	1									
PEH 122 Volleyball AC	1									
PEH 125 Conditioning AC	1			F2F, OL			F2F, ARR		F2F, OL	
PEH 128 Social Dance AC	1		Hyb	Hyb				X		
PEH 130 Indoor Cycling / Spinning AC	1									
PEH 131 Circuit Weight Training AC	1		F2F, ARR		F2F, OL			F2F, ARR		
PEH 132 Fitness AC	1		F2F, OL		F2F, ARR			F2F, OL		
PEH 133 Weight Training AC	1			F2F, ARR			F2F, OL		F2F, ARR	

PHYSICAL EDUCATION	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
PEH 135 Beginning Yoga AC	1		F2F				F2F			
PEH 137 Beginning Brazilian Jiu-Jitsu AC	1				F2F				F2F	
PEH 153 Lifeguard Training AC	1									
PEH 155 Body Toning AC	1		F2F, OL	F2F, OL	F2F, OL		F2F, OL	F2F, OL	F2F, OL	
PEH 158 Racquetball AC	1									
PEH 164 Hiking AC	3									
PEH 178 Principles of Fitness SE	3		F2F	F2F	F2F		X	X	X	

PHILOSOPHY	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
PHIL& 101 Introduction to Philosophy HU	5				Hyb TT			Hyb TT	Hyb TT	
PHIL 102 Ethics and Policy in Healthcare I HU	1		OL				OL			
PHIL 103 Ethics and Policy in Healthcare II HU	1			OL				OL		
PHIL& 120 Symbolic Logic SQR/HU	5		OL		OL		OL	Hyb TT	OL	
PHIL 201 Ethics and Policy in Healthcare III HU	1		OL				OL			
PHIL 202 Ethics and Policy in Healthcare IV HU	1			OL				OL		
PHIL 203 Ethics and Policy in Healthcare V HU	1				OL				OL	
PHIL 210 Ethics HU	5		Hyb TT					Hyb TT		
PHIL 211 Ethics for Criminal Justice HU	5									
PHIL 230 East Indian Philosophy HU	5									
PHIL 240 Philosophy of Religion HU	5									
PHIL 250 Asian Philosophy HU	5									

PHYSICS	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025

PHYSICS	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
PHYS 102 Physics of Exercise NS	5		Hyb TT							
PHYS& 110 Physics for Non-Science Majors with Lab LS	5				X				X	
PHYS& 114 General Physics I with Lab LS	5		X				X			
PHYS& 115 General Physics II with Lab LS	5			X				X		
PHYS& 116 General Physics III with Lab LS	5				X				X	
PHYS& 221 Engineering Physics I w/Lab LS	5		X				X			
* required for AS-T 2: Physics/CompSci Pre-major										
PHYS& 222 Engineering Physics II w/Lab LS	5			X				X		
* required for AS-T 2: Physics/CompSci Pre-major										
PHYS& 223 Engineering Physics III w/Lab LS	5				X				X	
* required for AS-T 2: Physics/CompSci Pre-major										

POLITICAL SCIENCE	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
POLS& 101 Introduction to Political Science SS	5				Hyb TT					
POLS& 202 American Government SS	5	OL	Hyb TT	Hyb TT, OL	Hyb TT	OL	Hyb TT	Hyb TT, OL	Hyb TT	OL
POLS& 203 International Relations SS	5		Hyb TT	OL			Hyb TT	OL		

PSYCHOLOGY	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
PSYC& 100 General Psychology SS	5	OL	Hyb TT, OL	Hyb TT, OL	Hyb TT, OL	OL	Hyb TT, OL	Hyb TT, OL	Hyb TT, OL	OL
PSYC 101 Psychosocial Issues in Healthcare I SS	1		X				X			
PSYC 102 Psychosocial Issues in Healthcare II SS	1			X				X		

PSYCHOLOGY	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
PSYC 103 Psychosocial Issues in Healthcare III SS	1				X				X	
PSYC 105 Mental Health First Aid	1				X			X	X	
PSYC 201 Psychosocial Issues in Healthcare IV SS	1		X				X			
PSYC 202 Psychosocial Issues in Healthcare V SS	1				X				X	
PSYC& 200 Lifespan Psychology SS	5	OL	Hyb	F2F TT	OL		Hyb	F2F TT	OL	
PSYC 225 Psychology and the Legal System SS	5									

RELIGIOUS STUDIES	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
REL 201 World Religions HU	5							OL		
REL 211 Religion in America HU	5				OL				OL	

SCIENCE	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
SCI 101 Survey of Science NS	5									
SCI 104 Math for Science and Engineering SE	5									
SCI 105 Intro to History of Science, cross listed as HIST 105 NS	5				Hyb TT				X	

SOCIOLOGY	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
SOC& 101 Intro to Sociology SS	5	OL	OL, Hyb MW	OL, Hyb MW	OL, Hyb MW	OL	OL, Hyb MW	OL, Hyb MW	OL, Hyb MW	OL
SOC& 201 Social Problems SS	5	OL		OL	Hyb MW	OL		OL	Hyb MW	OL
SOC 204 Gender and Power SS	5				OL				OL	

SOCIOLOGY	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
SOC 220 Marriage and the Family SS	5		Hyb MW				Hyb MW			

SOCIAL WORK	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
SOCW 110 Introduction to Social Work										

Uncrewed Aircraft Systems (UAS) (Schedule subject to change)	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
UAS 107 Commercial Remote Pilot Certification	2				Online				Online	
UAS 112 Uncrewed Aircraft Systems (UAS) Ground School	5		Online				Online			
UAS 142 Uncrewed Aircraft Systems (UAS) Flight Lab	6				ARR				ARR	
UAS 208 Uncrewed Aircraft Systems (UAS) Mission Planning	6			Online				Online		

WELDING	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
		2023	2023	2024	2024	2024	2024	2025	2025	2025
WLD 101 Oxy-Acetylene Welding for Auto Mechanics	2	TBD								
WLD 102 ARC/GMAW Welding for Automotive Technicians	2	TBD								
WLD 103 Beginning AMT Welding	2	Not currently offered								
WLD 110 Welding Theory I	5		DAY				DAY			
WLD 111 Welding Process I	3 to 6		DAY	DAY	DAY		DAY	DAY	DAY	
WLD 112 Thermal Cutting and Welding	3		DAY				DAY			
WLD 120 Welding Theory II	5			DAY				DAY		
WLD 121 Welding Process II	3 to 6		DAY	DAY	DAY		DAY	DAY	DAY	

WELDING	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
WLD 122 Gas Metal Arc Welding I	3			DAY				DAY		
WLD 130 Welding Theory III	5				DAY				DAY	
WLD 131 Welding Process III	3 to 6		DAY	DAY	DAY		DAY	DAY	DAY	
WLD 132 Gas Tungsten Arc Welding I (T.I.G.)	3				DAY				DAY	
WLD 145 Agricultural Welding	4	Not currently offered								
WLD 151 Technical Drawings Interpretation	3		DAY				DAY			
WLD 152 Welding Layout I	3			DAY				DAY		
WLD 153 Welding Layout II	3				DAY				DAY	
WLD 190 Skill Improvement	2 to 6		DAY	DAY	DAY		DAY	DAY	DAY	
WLD 205 Weld Testing Methods	4		DAY				DAY			
WLD 206 Welding Codes and Standards	4			DAY				DAY		
WLD 207 Welding Metallurgy	4				DAY				DAY	
WLD 212 Gas Metal Arc Welding II	3		DAY	DAY	DAY		DAY	DAY	DAY	
WLD 241 Structural Weld Process I	3 to 6		DAY	DAY	DAY		DAY	DAY	DAY	
WLD 242 Structural Welding I	3		DAY	DAY	DAY		DAY	DAY	DAY	
WLD 243 Structural Weld Process II	3 to 6		DAY	DAY	DAY		DAY	DAY	DAY	
WLD 244 Submerged Arc Welding	3		DAY	DAY	DAY		DAY	DAY	DAY	
WLD 245 Structural Weld Process III	3 to 6		DAY	DAY	DAY		DAY	DAY	DAY	
WLD 261 Production Weld Process I	3 to 6		DAY	DAY	DAY		DAY	DAY	DAY	
WLD 262 Production Welding I	3		DAY	DAY	DAY		DAY	DAY	DAY	
WLD 263 Production Weld II	3,6		DAY	DAY	DAY		DAY	DAY	DAY	
WLD 264 Advanced Weld Process	3		DAY	DAY	DAY		DAY	DAY	DAY	
WLD 265 Production Welding Process III	6		DAY	DAY	DAY		DAY	DAY	DAY	
WLD 281 Pipe Welding I	3 to 6		DAY	DAY	DAY		DAY	DAY	DAY	

WELDING	Credits	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
WLD 282 Gas Tungsten Arc Welding II (TIG)	3		DAY	DAY	DAY		DAY	DAY	DAY	
WLD 283 Pipe Welding II	3 to 6		DAY	DAY	DAY		DAY	DAY	DAY	
WLD 284 Gas Tungsten Arc Welding III (T.I.G.)	3		DAY	DAY	DAY		DAY	DAY	DAY	
WLD 285 Pipe Welding III	3 to 6		DAY	DAY	DAY		DAY	DAY	DAY	
WLD 290 Skill Improvement	2 to 6		DAY	DAY	DAY		DAY	DAY	DAY	