**Fall 2016**

**Accounting**

**ACCT 105 Introduction to Accounting 5**

This course provides the student with an introductory level understanding of the fundamentals of bookkeeping and accounting. The student is provided the procedures for completing the accounting cycle for both a service entity and a merchandising entity within a single proprietorship. Tech Prep credit available.

1000 01 MTWTh 09:15AM-10:20AM 1610 MICHIE L

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

An introduction to the steps in the accounting cycle; accounting for merchandise; the adjusting process--deferrals and accruals; financial statements; cash transactions; receivables, inventories and internal controls. This course is the first in a three-course series designed for all accounting and business majors. Prerequisite: ACCT 105 highly recommended. SE

1011 01 MTWTh 10:30AM-11:35AM 1610 MICHIE L

1012 OL1 ARR ARR WILKS P

Online fee is $10.

**ACCT 262 Introduction to Quickbooks 2**

Lab Fee: $10.20

This course offers an introduction to QuickBooks, the nation's leading accounting software package for small businesses. Basic functions and capabilities of the software will be reviewed in a hands-on environment. This course is designed for the student with little or no prior experience with QuickBooks. Prerequisite: ACCT& 201 or prior experience in business or accounting recommended.

1060 01 MTWTh 11:45AM-12:35PM 1602 WILKS P

Start & end date: 10/03/16 to 12/02/16

**Agriculture**

**AGR 241 Farm and Ranch Management 5**

Lab Fee: $10.00

Introduction to record keeping, economic concept application and analysis in the production agriculture business. Topics include goal setting, record process, budgeting cash flow, depreciation, profit/loss, ratios, enterprise and investment analysis, partial budgeting and computer/spreadsheet use. Prerequisite: ECON& 201

1118 OL1 ARR ARR SIEVERKROPP

**AGR 261 Plant Science 5**

Lab Fee: $10.00

Develop an understanding of basic plant morphology and physiology emphasizing horticultural science and fruit tree crops. Topics include form and function of

plants, plant metabolism, plant growth and development, reproduction, techniques of fruit tree improvement and plant/environment interaction.

1130 01H MW 10:30AM-12:30PM 1511 BAIR N

Students need to have access to a reliable computer and Internet connection as this is a hybrid (online and face-to-face) course.

**Anthropology**

**ANTH&100 Survey of Anthropology 5**

An introduction to anthropology with a primary focus on cultural diversity of the human experience. The course surveys four subfields of Anthropology including sociobiology, anthropological linguistics, cultural anthropology, and applied anthropology. Major themes addressed throughout the course include cultural relativity, ethnocentrism, cultural change, the conflict between "foreign" anthropologist and "native" peoples, the role of anthropology in modern society, and anthropology as a "personal lens" of change. Students will complete a two part "field study", become familiar with The HRAF (human relations area file - a major electronic data base in Anthropology), and learn potential applications of becoming an anthropologist. Prerequisite: There are no prerequisites. Strongly recommended placement in MATH 098 or higher and placement in English 099 of higher. SS

1180 01 TTh 10:30AM-12:50PM 1601 HOLLIWAY D

Section 01: This class includes the use of a Canvas online class site in addition to the traditional classroom. Students will report to the above referenced classroom on the first day of class for additional information.

**Art**

**ART& 100 Art Appreciation 5**

Art is a visual language which artists use to record and interpret life experiences. The messages artists share are personal and social records. The ability to understand and appreciate visual art is a skill you can develop through observation and study and one you can utilize throughout your life. We will cover a general overview of artists' materials and techniques as well as historical context with lectures, slides, movies, and experiments with art media. Open to all students.HU

1208 01 MTWTh 11:45AM-12:50PM 1911 PALKOVIC R

1210 WAO ARR ARR PALKOVIC F

Start & end date: 09/22/16 to 11/30/16

Section WAO: Start and end dates for this class may differ from other BBCC classes. Online fee is $10.

**ART 101 Design I 5**

Lab Fee: $8.00

Design I is an introduction to the study of the elements and principles of art that will be explored through various media in two dimensional problems. There will be projects addressing the specific elements of art: line, shape/form, perspective, texture, value. Using these elements, the projects will also demonstrate the principles of organization: rhythm and repetition, balance, harmony-unity, movement, proportion, space, dominance. Design I, II, and III can be taken in any order. HP

1212 01 MTWTh 09:15AM-10:35AM 1911 PALKOVIC R

**ART 104 Drawing I 5**

Lab Fee: $8.00

An introduction to drawing based on observation, emphasizing composition, and form. This course is basic to all art practice courses and is an introduction to basic drawing techniques involving various media such as pencil, charcoal, color pastels, and ink. HP

1228 01 MTW 10:30AM-12:30PM 1906 HAGEL S

1229 02 MTW 01:00PM-03:00PM 1906 HAGEL S

**ART 121 Ceramics I 2- 5**

Lab Fee: $28.00

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

1238 01 MW 01:00PM-03:50PM 1908 PALKOVIC F

**ART 122 Ceramics II 2- 5**

Lab Fee: $28.00

Ceramics II continues in experiments and design in clay applied to pottery and sculpture by throwing on the pottery wheel, glazing and kiln firing. Prerequisite: ART 121 or instructor permission. HP

1243 01 MW 01:00PM-03:50PM 1908 PALKOVIC F

**ART 123 Ceramics III 2- 5**

Lab Fee: $28.00

Advanced experiments and design in clay applied to pottery and sculpture by working in various hand construction methods and in pottery wheel, glazing and kiln firing. Prerequisite: ART 121, 122 or instructor permission. HP

1248 01 MW 01:00PM-03:50PM 1908 PALKOVIC F

**ART 218 Western Art: Impressionism to Art After 1945 5**

A survey of the history of western art and architecture from late nineteenth century to contemporary times. Explore the work of the Impressionists like Monet and the Cubism of Picasso to the modern artwork of Jackson Pollock. HU

1268 01 MTWTh 10:35AM-11:40AM 1911 PALKOVIC F

**ART 231 Oil Painting I 5**

Lab Fee: $25.40

Introduction to the materials and techniques of oil painting. Painting from still-life and nature as well as creative composition. HP

1289 01 TTh 01:00PM-03:50PM 1907 PALKOVIC R

**ART 232 Oil Painting II 5**

Lab Fee: $25.40

Advanced oil painting is an emphasis upon the student's artistic growth and the development of his or her own style and voice using oil painting techniques and materials. Prerequisite: ART 231 and 232 or instructor permission. HP

1294 01 TTh 01:00PM-03:50PM 1907 PALKOVIC R

**ART 233 Oil Painting III 5**

Lab Fee: $25.40

Introduction to the materials and techniques of oil painting. Painting from still-life and nature as well as creative composition. Prerequisite: ART 232 HP

1299 01 TTh 01:00PM-03:50PM 1907 PALKOVIC R

**Astronomy**

**ASTR&101 Intro to Astronomy 5**

Lab Fee: $29.60

A survey course intended for the non-science major. Topics studied will include most of the following: historical astronomy, electromagnetic radiation, telescopes, the Earth-Moon system, the solar system, the sun, stars, stellar evolution, galaxies, quasars and cosmology. The laboratory portion of the course may include optics, visual astronomical observing techniques, use of the telescope, spectroscopy, and distance measurement. (Credit not granted for both ASTR& 100 and ASTR& 101.) Prerequisite: MATH 098 or placement into a higher level math course

1325 01 MTTh 08:00AM-09:05AM 1217 HAMM J

Lab F 09:00AM-11:00AM 1217 HAMM J

**Automotive Technology**

**AUT 111 Automotive Engine Service 9**

Lab Fee: $47.25

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

1343 01 MTWTh 09:00AM-12:00PM 3308 MARTIN J

**AUT 115 Automotive Shop Safety and Environmental Issues 1**

This course covers automotive shop safety rules, procedures, and shop equipment operation and is required before a student is allowed to work in the automotive laboratory. The proper handling, storage, and disposal of automotive related hazardous waste is also covered. Offered as regularly scheduled course during the fall quarter and offered by arrangement for students who enroll in the automotive program any other quarter.

1347 01 MTWTh 01:00PM-04:00PM 3308 MARTIN J

Start & end date: 09/19/16 to 09/22/16

**AUT 131 Manual Drive Train and Axles 8**

Lab Fee: $42.00

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

1363 01 MTWTh 01:00PM-04:00PM 3308 MARTIN J

Start & end date: 09/26/16 to 12/07/16

**AUT 190 Projects Laboratory 2**

Lab Fee: $10.50

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

1370 21 M 05:30PM-09:15PM 3307 MARTIN J

**AUT 220 Engine Performance 18**

Lab Fee: $94.50

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

1385 01 MTWTh 09:00AM-04:00PM 4103 WYNDER D

**AUT 290 Projects Laboratory 2**

Lab Fee: $10.50

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

1398 21 T 05:30PM-09:15PM 3307 WYNDER D

**Aviation Commercial Pilot**

**AVF 111 Pre-Flight Ground School 1**

This course introduces the student to the aircraft, its flight manual, the basic federal aviation regulations, elementary principles of flight, aircraft operations, and BBCC flight rules. This course starts the week prior to the normal class starting date. All students accepted and alternates must attend this course. Pre-program counseling is done at this time, and flight training is started. Prerequisite: Accepted flight student status.

1400 01 MTWTh 09:00AM-05:00PM 3015 SWEDBURG JM

Start & end date: 09/12/16 to 09/15/16

**AVF 112 Private Pilot Ground School 5**

This course prepares the student to take the FAA private pilot knowledge examination. It includes elementary navigation, weather, federal aviation regulations, NTSB reporting procedures, radio procedures, AIM, advisory circulars, operating limitations, aircraft performance, principles of aerodynamics, power plants and systems, stall and spin awareness, ADM and judgment, preflight action and planning. Prerequisite: AVF 111 or Chief Pilot approval.

1405 21 MW 04:00PM-06:30PM 3015 GILLESPIE J

1406 22 TTh 04:00PM-06:30PM 3015 ALTROGGE B

**AVF 141 Private Pilot Flight (Stage 1) 4**

Lab Fee: $95.00

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.

1425 01 MTWTh ARR 3001 SWEDBURG JM

**AVF 142 Private Pilot Flight (Stage 2) 4**

Lab Fee: $95.00

Scheduled flight time, ground critique, discussions, and observation time; both dual and solo flights. Instrument flight training is integrated with all phases of flying. Includes simulator time. Prerequisite: AVF 141

1429 01 MTWTh ARR 3001 SWEDBURG JM

**AVF 143 Private Pilot Flight (Stage 3) 4**

Lab Fee: $95.00

Scheduled flight time, ground critique, discussions and observation time; both dual and solo flights. Instrument flight training is integrated with all phases of flying. Includes simulator time. Prerequisite: AVF 142

1433 01 MTWTh ARR 3001 SWEDBURG JM

**AVF 190 Flight (Alternate) 1- 4**

Lab Fee: $95.00

Provides additional aircraft flight time to allow the student additional time to increase his/her skill or complete a course of study. Includes flight time and follow-up critique. Prerequisite: AVF 141

1437 01 MTWTh ARR 3001 SWEDBURG JM

**AVF 223 Instrument Ground School 5**

Preparation for FAA instrument knowledge examination, includes: FAR's that apply to IFR; appropriate sections of AIM; air traffic control system and procedures; IFR navigation systems and instruments; use of en route and instrument approach charts, aircraft operations under IFR; procurement and use of aviation weather reports and forecasts, recognition of critical weather situations and wind shear avoidance, ADM and judgment, and CRM. Prerequisite: AVF 113 and AVF 114.

1454 21 MW 04:10PM-06:40PM 3016 SWEDBURG JM

1455 22 TTh 04:10PM-06:40PM 3016 GILLESPIE J

**AVF 225 Effective Communications in Flight Instruction 5**

This course covers the required areas of instructor knowledge, and is designed to aid the student in passing the appropriate FAA knowledge tests. It includes the learning process and emphasizes elements of effective communication. Methods of teaching and communicating are studied and practiced, as well as how to evaluate and critique through written and oral processes. Includes practice in classroom, one-to-one, and team teaching. Prerequisite: AVF 221, AVF 223, & 252 or Chief Pilot approval.

1459 21 MW 04:10PM-06:40PM 3016 STAFF

**AVF 227 Aircraft Systems For Pilots 5**

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

1464 21 MW 04:00PM-06:30PM 3024 STAFF

**AVF 251 Commercial Pilot Flight (Stage 4) 4**

Lab Fee: $95.00

Scheduled flight time, ground critique, discussion and observation time, dual, solo, cross-country, and instrument. Includes simulator time. Prerequisite: AVF 143

1470 01 MTWTh ARR 3001 SWEDBURG JM

**AVF 252 Commercial Pilot Flight (Stage 5) 4**

Lab Fee: $95.00

Scheduled flight time, ground critique, discussion and observation time; dual, solo, cross-country, instrument, and complex aircraft time. Includes simulator time. Prerequisite: AVF 251

1474 01 MTWTh ARR 3001 SWEDBURG JM

**AVF 253 Commercial Pilot Flight (Stage 7) 4**

Lab Fee: $95.00

Scheduled flight time, ground critique, discussion and observation time; dual, solo, and cross-country time. Includes 28 hours simulator time upon program completion. Prerequisite: AVF 261

1478 01 MTWTh ARR 3001 SWEDBURG JM

**AVF 254 Night Flying 1**

Provides an introduction to night flying and advanced instruction in night navigation, procedures, orientation, landings, takeoffs and techniques necessary for safe operation of airplanes at night. Prerequisite: AVF 142

1482 21 MTWTh ARR 3001 SWEDBURG JM

**AVF 261 Instrument Flight (Stage 6) 4**

Lab Fee: $95.00

Provides training in instrument flight procedures in preparation for the airplane instrument rating; includes simulator training. Prerequisite: AVF 252

1487 01 MTWTh ARR 3001 SWEDBURG JM

**AVF 270 Flight Instructor 4**

Preparation for the Certified Flight Instructor rating; includes flight time and critique. Prerequisite: Commercial license and instrument rating and Chief Pilot approval.

1492 01 MTWTh ARR 3001 SWEDBURG JM

**AVF 271 Flight Instructor Instrument - Airplane 2**

Provides the Flight Instructor applicant with the knowledge, skill and experience necessary to become an Instrument Instructor; includes flight time and critique. Prerequisite: Commercial/Instrument license, CFI single engine license and 10 hours as CFI with FII written passed and Chief Pilot approval.

1495 01 MTWTh ARR 3001 SWEDBURG JM

**AVF 272 Seaplane Flight 2**

A dual flight lab course designed to develop flight skills in water operations and procedures, along with flight maneuvers in preparation for the FAA Seaplane Rating; includes flight time and critique. Prerequisite: Commercial Pilot Certificate or Chief Pilot approval.

1498 01 MTWTh ARR 3001 SWEDBURG JM

**AVF 275 Multi-Engine Flight Lab 2**

Preparation for the FAA Multi-Engine rating. Prerequisite: Commercial Pilot Certificate and Chief Pilot approval.

1504 01 MTWTh ARR 3001 SWEDBURG JM

**AVF 276 Simulator Training/Instrument Training .5- 1**

Designed to fit the individual and particular needs of each pilot in Instrument Training, refresher or FAA currency requirements. Prerequisite: Instructor approval.

1507 01 MTWTh ARR 3002 SWEDBURG JM

**AVF 290 Flight (Alternate) 1- 4**

Lab Fee: $95.00

Provides additional aircraft flight time to allow the student additional time to increase his/her skill or complete a course of study. Includes flight time and follow-up critique. Prerequisite: AVF 141.

1512 01 MTWTh ARR 3001 SWEDBURG JM

**AVF 291 Multi-Engine - Instructor 2**

Preparation for the FAA Multi-Engine Flight Instructor rating. Prerequisite: Commercial Airplane with Instrument rating, Multi-Engine Land ratings, Flight Instructor Single Engine.

1517 01 MTWTh ARR 3001 SWEDBURG JM

**Aviation Maintenance**

**AMT 148 AMT General Electricity 1- 7**

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

1548 01 MTWTh ARR 3200 DANNENBERG K

**AMT 149 AMT Airframe Electricity 3**

This course covers aircraft electrical systems, electrical generators motors and regulators, aircraft communication and navigation systems. This course is FAA approved under 14 CFR Part 147. Prerequisite: instructor approval

1554 01 ARR ARR 3200 BORG C

**AMT 150 AMT General 4-12**

Lab Fee: $156.00

*Variable Credit Lab Fees are calculated at the highest rate*

This course will cover aviation applied physics, application of aircraft drawing, function of weight and balance control, operation and cleaning of aircraft, identification and application of aircraft materials. The use of maintenance forms and publications in the aviation industry. This course is approved under FAA Part 147. Prerequisite: instructor approval.

1558 01 MTWTh ARR 3200 DANNENBERG K

**AMT 151 Airframe Mechanic I 4-22**

Lab Fee: $286.00

*Variable Credit Lab Fees are calculated at the highest rate*

This course will cover aircraft airframe structures, including wood, fabric and sheet metal, airframe inspection, application of finishes and assembly of fixed wing and rotary wing components and structures, balancing and rigging of airframe structures

and components. This course is FAA approved under 14 CFR Part 147. Prerequisite: instructor approval.

1563 01 MTWTh ARR 3200 BORG C

**AMT 152 Airframe Mechanic II 4-21**

Lab Fee: $273.00

*Variable Credit Lab Fees are calculated at the highest rate*

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 FAA approved under 14 CFR Part 147. Prerequisite: instructor approval.

1568 01 MTWTh ARR 3200 BORG C

**AMT 153 Airframe Mechanic III 4-24**

Lab Fee: $312.00

*Variable Credit Lab Fees are calculated at the highest rate*

As required by the Federal Aviation Administration, the airframe program is a minimum of 750 hr. of instruction with approximately 25% of the instruction in a class room environment and 75% of the instruction in a lab environment. AMT 153 is designed to allow students more time to achieve FAA required proficiency levels and to allow students to further their proficiency levels in aviation airframe related studies. This course will cover any area of the FAA required airframe curriculum that the student is deficient in, or if all required competencies have been met, the student may further their proficiency levels in any airframe related area of study. This course is FAA approved under 14 CFR part 147. Prerequisite: AMT 150, 151, 152, MAP 100 and instructor approval.

1573 01 MTWTh ARR 3200 BORG C

**AMT 249 AMT Powerplant Electricity 2**

This course covers the theory of engine electrical systems, electrical generators, alternators, motors and regulators. This course is FAA approved under 14 CFR Part 147. Prerequisite: instructor approval.

1578 01 ARR ARR 3200 MOORE D

**AMT 251 Powerplant Mechanics I 4-16**

Lab Fee: $208.00

*Variable Credit Lab Fees are calculated at the highest rate*

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. Prerequisite: Instructor permission

1583 01 MTWTh ARR 3200 MOORE D

**AMT 252 Powerplant Mechanics II 4-14**

Lab Fee: $182.00

*Variable Credit Lab Fees are calculated at the highest rate*

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. Prerequisite: Instructor permission

1588 01 MTWTh ARR 3200 MOORE D

**AMT 253 Powerplant Mechanics III 4-16**

Lab Fee: $208.00
*Variable Credit Lab Fees are calculated at the highest rate*

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. Prerequisite: Instructor permission

1593 01 MTWTh ARR 3200 MOORE D

**AMT 254 Powerplant Mechanic IV 4-16**

Lab Fee: $208.00

*Variable Credit Lab Fees are calculated at the highest rate*

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. AMT 254 is designed to allow students more time to achieve FAA required proficiency levels and to allow students to further their proficiency levels in aviation Powerplant related studies. This course will cover any area of the FAA required Powerplant curriculum that the student is deficient in, or if all required competencies have been met, the student may further their proficiency levels in any Powerplant related area of study. This course is FAA approved under 14 CFR Part 147. Prerequisite: AMT 251, 252, 253 and instructor permission.

1598 01 MTWTh ARR 3200 MOORE D

**Basic Skills Education**

**DVS 080 College Transitions Math 1- 4**

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

5300 01H MTWTh 08:00AM-09:05AM 1607 STAFF

5302 02H MTWTh 11:45AM-12:50PM 1607 STAFF

5304 21H MW 06:00PM-08:20PM 1607 STAFF

**Biology**

**BIOL&100 Survey of Biology 5**

Lab Fee: $29.60

A study of basic biological principles common to living organisms, this course is intended for non-majors who desire a lab science requirement. Topics of study include: scientific thinking, basic chemistry, cell structure and membrane transport, energy and cell pathways, DNA and gene expression, chromosomes and cell division, genes and inheritance, and evolution and natural selection. Related investigations take place in a required two-hour lab period each week. There will be no required dissections in the laboratory. LS

1600 01 MWTh 08:00AM-09:05AM 1218 WELCH C

Lab T 08:00AM-10:00AM 1211 WELCH C

1602 02 MWTh 10:30AM-11:35AM 1202 WHITNEY M

Lab T 10:30AM-12:30PM 1211 WHITNEY M

1603 OL1 ARR ARR HALEY G

Section OL1: Course work will be completed online via Canvas. Students participate in online discussion forums, class activities, & submit assignments online; labs are completed online. Proctored exams are required. Online fee is $10.

**BIOL 104 Core Concepts in Biology 2**

Lab Fee: $4.00

A review of the biological principles common to living organisms, this course is intended for students planning to take BIOL& 211 who have some prior biology background but would like a review of the basic biology concepts. Topics of study include: basic chemistry, macromolecules, cell structure, membrane transport, energy and metabolism, DNA replication, gene expression, cell division, and genetics. Prerequisite: Any prior biology course, high school or college-level, is highly recommended.

1604 01H MW 09:15AM-10:20AM 1250 WELCH C

**BIOL&170 Human Biology 5**

Lab Fee: $10.00

This course offers a broad overview of the human body for the non-science major. Topics of study include unifying biological principles such as basic cell chemistry, cell biology, and metabolism, as well as the biology of selected human systems. Issues related to human biology will also be examined. This course does not include a lab. NS

1605 21 TTh 06:00PM-08:20PM 1218 ODEGAARD L

**BIOL&211 Majors Cellular 5**

Lab Fee: $29.60

A single quarter of majors cellular biology, this course is intended for students pursuing careers in the allied health fields and satisfies the biology prerequisite for A&P 1 (BIOL& 241) and Microbiology (BIOL& 260). Topics of study include: structure and function of biological molecules, structure and function of prokaryotic and eukaryotic cells, membrane transport, energetics and cell metabolism, cell communication, chromosome structure and replication, gene expression, cell division, classical genetics, and evolution. Math/Science distribution requirement may not include more than 5 credits from BIOL& 211 and BIOL& 222 although graduation credit can be awarded for both. Related investigations take place in a two-hour lab period each week. Prerequisite: Successful completion of either CHEM& 121 or CHEM& 161 with a 2.0 or better, recent high school chemistry with a B or better, or instructor permission. High school biology strongly recommended. Note: A minimum grade of 2.0 in this class is required for entry into BIOL& 241 and BIOL& 260.LS

1610 01 MTTh 09:15AM-10:20AM 1910 WHITNEY M

Lab W 08:00AM-10:00AM 1211 WHITNEY M

1612 02 MTTh 11:45AM-12:50PM 1202 DUVALL K

Lab W 10:50AM-12:50PM 1211 DUVALL K

1613 03H ARR ARR DUVALL K

Lab W 10:50AM-12:50PM 1211 DUVALL K

Section 03H: Students view daily class lectures and submit assignments online, but students must attend weekly scheduled laboratory sessions and take arranged exams on campus. Instructor permission required. Online fee is $10.

**BIOL&221 Majors Ecology/Evolution 5**

Lab Fee: $29.60

The first quarter in a three-quarter general biology series, this series is designed for life-science majors, pre-professional students, and for students intending to take advanced courses in the biological sciences. Topics of study include: ecology including population, community, and ecosystem ecology; evolution including the origin and history of life, microevolution, macroevolution, and systematics; the diversity of life including bacteria, archaea, protists, plants, fungi, and animals. Related investigations take place in a three-hour lab period each week. NOTE: This majors' biology sequence may be taken in the following order: BIOL& 222, 223, and 221, with instructor's permission. Prerequisite: Successful completion of either CHEM& 121 or CHEM& 161 with a 2.0 or better or concurrent enrollment in CHEM& 121 or CHEM& 161, or instructor permission. Recent high school biology or BIOL& 100 strongly recommended. LS

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|---|---|---|---|---|---|
| 1615 | 01 | MWTh | 09:15AM-10:20AM | 1202 | DUVALL K |
| Lab | | T | 02:15PM-05:15PM | 1211 | DUVALL K |
| 1616 | 02H | ARR | ARR | | DUVALL K |
| Lab | | T | 02:15PM-05:15PM | 1211 | DUVALL K |

Section 02H: Instructor permission required. Students view daily class lectures and submit assignments online, but students must attend weekly scheduled laboratory sessions and take arranged exams on campus. Online fee is $10.

**BIOL&241 Human A & P 1 5**

Lab Fee: $29.60

An analysis of the structure and function of human skeletal, muscular, nervous and endocrine systems as well as the role of receptor-ligand interactions and introductory histology. Emphasis will be given to the homeostatic relationships between systems. Four hours of lab per week will be devoted to hands-on experience with required cat dissection as well as computer analysis of muscle physiology. Tissue slides, models and skeletons will be utilized. Lab is required for credit. Prerequisite(s): Students may qualify for BIOL& 241 in any one of the following ways: 1) a grade of 2.0 or better in BIOL& 211 or BIOL& 222 and in CHEM& 121 or above, or a transcript from another college for those classes 2) a year of high school Anatomy and Physiology and Chemistry within the last 2 years with a grade of B or better. 3) a score of 3 or better in Advanced Placement Biology AND a year of high school Chemistry within the last 2 years with a B or better OR INSTRUCTORS PERMISSION

| | | | | | |
|---|---|---|---|---|---|
| 1630 | 01 | MW | 01:00PM-02:15PM | 1250 | JACOBS B |
| Lab | | TTh | 01:00PM-03:00PM | 1209 | JACOBS B |
| 1632 | 02H | ARR | ARR | | JACOBS B |
| Lab | | TTh | 01:00PM-03:00PM | 1209 | JACOBS B |

Section 02H incorporates both traditional class time and a distance education component. Students attend weekly laboratory sessions and take tests on campus; class lectures and assignments are accessed online. Online fee is $10.

**BIOL&260 Microbiology 5**

Lab Fee: $29.60

A survey of microbes and their activities. Emphasis will be given to the areas of bacteriology, immunology and virology. Four hours of lab per week are required for credit. Labs will deal with the culture and identification of organisms (including throat, stool, and viral cultures), as well as genetic transformation and ELISA testing for HIV. Prerequisite(s): Students may qualify for BIOL& 260 in any one of the following ways: 1) a grade of 2.0 or better in BIOL& 211 or BIOL& 222 and in CHEM&121 or above, or a transcript from another college for those classes 2) a year of high school Anatomy & Physiology and Chemistry within the last 2 years with a grade of B or better 3) a score of 3 or better in Advanced Placement Biology and a year of high school Chemistry within the last 2 years with a B or better OR INSTRUCTORS PERMISSION.LS

1642 01 TTh 09:15AM-10:30AM 1250 JACOBS B

Lab TTh 10:40AM-12:40PM 1209 JACOBS B

1643 02H ARR ARR JACOBS B

Lab TTh 10:40AM-12:40PM 1209 JACOBS B

Section 02H incorporates both traditional class time and a distance education component. Students attend weekly laboratory sessions and take tests on campus; class lectures and assignments are accessed online. Online fee is $10.

**Business**

**BUS& 101 Intro to Business 5**

An introductory analysis of the business world including aspects of finance, industrial stocks and bonds, commodities and foreign exchange, unions and the labor movement, managerial control, decision making and personnel relations. SE

1700 01 MTWTh 08:00AM-09:05AM 1610 MICHIE L

**BUS 102 Business Mathematics 5**

Applications of quantitative reasoning and logic in business through a study of banking, discounts, commissions, markup, promissory notes, interest, taxes, insurance, payroll, depreciation and financial statements. Prerequisite: Successful completion of MATH 094 or BBCC math placement score into MATH 098 or above.

1705 01 MTWTh 01:00PM-02:05PM 1611 STAFF

**BUS 114 Business Ethics 5**

Lab Fee: $10.00

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.

1712 01H TTh 10:30AM-11:35AM 1612 STAFF

This is a hybrid course. Students need to have access to a good, reliable Internet connection. Class will meet on Tuesdays and Thursdays from 10:30-11:35 a.m. each week.

**BUS 120 Human Relations on the Job 4**

Practical application oriented study of interpersonal skills and attitudes necessary to work with others. Topics included are: maintaining professionalism, adapting/coping with change and stress, work ethics, motivation, conflict resolution, team work and customer relations. Prerequisite: Placement in ENGL 099 or above.

1720 01 MTWTh 08:00AM-08:50AM 1909 STAFF

1722 21 MW 04:30PM-06:15PM 1610 STAFF

**BUS 122 Business Communications 5**

Lab Fee: $10.00

This course promotes the development of business communication skills which include reading, writing, listening, speaking, and interacting within groups. Special emphasis is given to the creation of day-to-day business documents. Prerequisite: BUS121 or ENGL&101.

1736 01H MW 10:30AM-11:35AM 1611 STAFF

This is a hybrid course. Students need to have access to a good, reliable Internet connection.

**BUS& 201 Business Law 5**

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.SE

1770 01 MTWTh 01:00PM-02:05PM 1610 MICHIE L

**BUS 215 Customer Service 3**

Lab Fee: $10.00

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.

1780 01H TTh 10:30AM-11:35AM 1612 STAFF

1782 02H TTh 10:30AM-11:35AM 1612 STAFF

Section 02H: Permission required. This course is designed for BIM program students. This is a hybrid class. Students need to have access to a good, reliable internet connection.

Business Information Management

**BIM 101 Basic Keyboarding 1- 2**

Lab Fee: $28.80

*Variable Credit Lab Fees are calculated at the highest rate*

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.

1795 01 MTWTh ARR 1613 STAFF

Start & end date: 09/19/16 to 11/03/16

This is not an online course; it is a self-paced course. See your Canvas class site for information.

1796 02H MTWTh ARR 1613 STAFF

This is not an online course; it is a self-paced course. See your Canvas class site for information.

Start & end date: 10/10/16 to 12/02/16

**BIM 102 Document Formatting 1- 4**

Lab Fee: $37.60

*Variable Credit Lab Fees are calculated at the highest rate*

This course gives primary emphasis to the formatting of business documents using Microsoft Word. Prerequisite: BIM101 or Basic Keyboarding Skills

1802 01 MTWTh ARR 1613 STAFF

This is not an online course; it is a self-paced course that requires attendance. See your Canvas class site for information.

1803 02 MTWTh ARR 1613 STAFF

This is not an online course; it is a self-paced course that requires attendance. See your Canvas class site for information. Permission required.

**BIM 103 The Administrative Professional 2**

Lab Fee: $28.80

This course is an introduction to the administrative professional career.

1806 01H M 10:30AM-11:35AM 1612 STAFF

Permission required. This course is designed for BIM program students. This is a hybrid class. Students need to have access to a good, reliable internet connection.

**BIM 104 Intermediate Keyboarding 1- 3**

Lab Fee: $28.20

*Variable Credit Lab Fees are calculated at the highest rate*

This course gives emphasis to improving keyboarding speed and accuracy. Prerequisite: BIM 101/Basic Keyboarding Skills

1814 01 MTWTh ARR 1613 STAFF

Start & end date: 09/19/16 to 11/03/16

This is not an online course; it is a self-paced course that requires regular attendance. See your Canvas class site for information.

1815 02 MTWTh ARR 1613 STAFF

Start & end date: 10/10/16 to 12/02/16

This is not an online course; it is a self-paced course that requires regular attendance. See your Canvas class site for information.

**BIM 106 Advanced Keyboarding 1- 3**

Lab Fee: $28.20

*Variable Credit Lab Fees are calculated at the highest rate*

This course gives emphasis to improving keyboarding speed and accuracy. Prerequisite(s): BIM 104

1817 01 MTWTh ARR 1613 STAFF

This is not an online course; it is a self-paced course that requires regular attendance. See your Canvas class site for information.

**BIM 109 Internet Communications 1**

Lab Fee: $9.40

This course will introduce the functions of Outlook 2013 and other online communications and the fundamental use and sharing of online documents and data.

1824 01 MTWTh ARR 1613 STAFF

This is not an online course; it is a self-paced course that requires regular attendance. See your Canvas class site for information.

1825 02 MTWTh ARR 1613 STAFF

This is not an online course; it is a self-paced course that requires attendance. See your Canvas class site for information. Permission required.

**BIM 110 Microsoft Office Essentials 1- 3**

Lab Fee: $38.20

*Variable Credit Lab Fees are calculated at the highest rate*

This course is an introduction to Microsoft Office Suite 2013. This course is not intended for Business Information Management majors. Credit cannot be earned in both BIM 110 and BIM 108.

1827 01H MTWTh ARR 1613 STAFF

This is not an online course; it is a self-paced course. See your Canvas class site for information.

**BIM 111 Introduction to Computers in the Medical Office 1- 3**

Lab Fee: $28.20

*Variable Credit Lab Fees are calculated at the highest rate*
This course covers the general flow of information in a medical office and the role that computers play. Students will learn how to use medical office software for activities such as entering data, billing, filing claims, scheduling, and printing reports. Prerequisite: basic computer skills.

1828 01 MTWTh ARR 1613 STAFF

This is not an online course; it is a self-paced course. See your Canvas class site for information.

**BIM 112 Proof & Edit 1- 3**

Lab Fee: $38.20

*Variable Credit Lab Fees are calculated at the highest rate*

This course gives students the opportunity to learn different proofreading techniques and then emphasizes practice using those techniques. Prerequisite: BUS 121, BIM 102.

1830 01H MTWTh ARR 1613 STAFF

This is not an online course; it is a self-paced course. See your Canvas class site for information.

**BIM 130 Filing 1- 2**

Lab Fee: $18.80

*Variable Credit Lab Fees are calculated at the highest rate*

This course introduces basic filing rules for alphabetic, numeric, subject, and geographic filing.

1850 01 MTWTh ARR 1613 STAFF

This is not an online course; it is a self-paced course. See your Canvas class site for information.

1852 02 MTWTh ARR 1613 STAFF

This is not an online course; it is a self-paced course that requires attendance. See your Canvas class site for information. Permission required.

**BIM 173 Word Processing I 1- 5**

Lab Fee: $47.00

*Variable Credit Lab Fees are calculated at the highest rate*

This course is an in-depth introduction to Microsoft Word 2013. The focus is to learn functions of Word 2013, to apply these functions to business situations, and begin preparing students for the Microsoft Office Specialist exam. Tech Prep credit available. Prerequisite: BIM102 or instructor permission

1860 01 MTWTh ARR 1613 STAFF

This is not an online course; it is a self-paced course. See your Canvas class site for information.

**BIM 177 Office Information Management Lab 1- 6**

Lab Fee: $56.40

*Variable Credit Lab Fees are calculated at the highest rate*

This course allows individual study in one of the business information management subject areas. Study and credit hours determined at the time of enrollment by the instructor. Prerequisite: Instructor Permission.

1866 01 MTWTh ARR 1613 STAFF

**BIM 180 Introduction to Microsoft Office 1- 5**

Lab Fee: $47.00

*Variable Credit Lab Fees are calculated at the highest rate*

This course is an introduction to the basic functions of Microsoft Office 2013 - Word, Excel, Access, PowerPoint, and Integration. This course is intended for Business Information Management and Accounting students. Prerequisite: BIM102/OFF102 and successful completion of MATH094 or BBCC Placement Exam into MATH 098 or higher.

1870 01 MTWTh ARR 1613 STAFF

This is not an online course; it is a self-paced course. See your Canvas class site for information.

**BIM 181 Introduction to Microsoft Office: Word 1- 3**

Lab Fee: $38.20

*Variable Credit Lab Fees are calculated at the highest rate*

This course provides an introduction to Microsoft Word. It is not intended for Business Information Management Program students.

1877 01H MTWTh ARR 1613 STAFF

This is not an online course; it is a self-paced course. See your Canvas class site for information.

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

Lab Fee: $38.20

*Variable Credit Lab Fees are calculated at the highest rate*

This course provides an introduction to Microsoft Excel. It is not intended for Business Information Management Program students. Prerequisite: Successful completion of MATH94 or BBCC placement exam into MATH098 or higher.

1881 01H MTWTh ARR 1613 STAFF

This is not an online course; it is a self-paced course. See your Canvas class site for information.

**BIM 183 Introduction to Microsoft Office: Access 1- 3**

Lab Fee: $38.20

*Variable Credit Lab Fees are calculated at the highest rate*

This course provides an introduction to Microsoft Access. It is not intended for Business Information Management Program students.

1886 01H MTWTh ARR 1613 STAFF

This is not an online course; it is a self-paced course. See your Canvas class site for information.

**BIM 184 Introduction to Microsoft Office: PowerPoint 1- 3**

Lab Fee: $38.20

*Variable Credit Lab Fees are calculated at the highest rate*

This course provides an introduction to Microsoft PowerPoint. It is not intended for Business Information Management Program students.

1891 01H MTWTh ARR 1613 STAFF

This is not an online course; it is a self-paced course. See your Canvas class site for information.

**BIM 198 Special Topics 1- 5**

Lab Fee: $47.00

*Variable Credit Lab Fees are calculated at the highest rate*

This course provides individual study in one of the office information technology subject areas. Study and credit hours determined at the time of enrollment by the instructor. Prerequisite: Instructor permission.

1916 01 MTWTh ARR 1613 STAFF

See your Canvas class site for information.

**BIM 210 Internet 1- 2**

Lab Fee: $18.80

*Variable Credit Lab Fees are calculated at the highest rate*

This course is an introduction to the Internet, web browsers, search engines, and search techniques.

1921 01 ARR ARR 1613 STAFF

Start & end date: 09/19/16 to 11/03/16

This is not an online course; it is a self-paced course. See your Canvas class site for information.

1922 02H MTWTh ARR 1613 STAFF

Start & end date: 10/10/16 to 12/02/16

This is not an online course; it is a self-paced course. See your Canvas class site for information.

**BIM 220 Desktop Publishing 1- 5**

Lab Fee: $47.00

*Variable Credit Lab Fees are calculated at the highest rate*

This course is designed to create and produce documents such as announcements, newsletters, brochures, and fliers using Microsoft Publisher. Prerequisite: BIM 180 or instructor approval. Prerequisite: OFF180 or BIM 180

1925 01 MTWTh ARR 1613 STAFF

This is not an online course; it is a self-paced course. See your Canvas class site for information.

**BIM 280 Advanced Microsoft Office 1- 5**

Lab Fee: $47.00

*Variable Credit Lab Fees are calculated at the highest rate*

This course is a continuation from BIM180 and introduces the advanced features and integration capabilities of Microsoft Office 2013. This course consists of five modules--Word, Excel, Access, PowerPoint, and Integration. Prerequisite: BIM 180 and successful completion of BUS102-Business Mathematics.

1942 01 MTWTh ARR 1613 STAFF

This is not an online course; it is a self-paced course. See your Canvas class site for information.

**BIM 285 MOS Prep & Certification 1- 5**

Lab Fee: $431.25

*Variable Credit Lab Fees are calculated at the highest rate*

This course is intended for students taking the MOS (Microsoft Office Specialist) certification exams. This course consists of five modules--Word, Excel, Access, PowerPoint, and Outlook. Students will review Microsoft Office 2016 features and complete a certified MOS exam at the end of each module. Prerequisite: BIM 280 or instructor permission

1946 01 MTWTh ARR 1612 STAFF

**Chemistry**

**CHEM&105 Chemical Concepts 5**

Lab Fee: $10.00

This course is intended for non-science majors. The focus is on fundamental topics of chemistry such as; atoms and molecules, periodic table, organic chemistry, biochemistry, and radioactivity as they relate to current society. This class is intended to increase scientific literacy in non-science majors. This class can also provide some preparation for students with a limited chemistry background planning to

continue on to CHEM& 121. Prerequisite: Passing grade in MATH 094 or placement in MATH 098. NS

1950 01 MTWTh 09:15AM-10:20AM 1218 GROCE L

**CHEM&121 Intro to Chemistry 5**

Lab Fee: $29.60

This course is designed for the allied health students. In addition, this class serves students wanting an introductory chemistry course prior to the full year CHEM& 161, 162, 163 sequence. Topics include basic chemical vocabulary, atomic structure, stoichiometry, periodic behavior of elements and compounds, gases, liquids, solids, solutions, water and equilibria. The course includes 22 hours of laboratory. Laboratory exercises are designed to reinforce classroom learning as well as providing hands on experience with chemical reactions. Relevance of course material to current practices in chemistry is a fundamental focus. Prerequisite: Passing grade in Math 098 or placement in Math 099. A passing grade in High School Chemistry or completion of CHEM& 105 is recommended.

1965 01 MWTh 10:30AM-11:35AM 1218 PETERSON J

Lab T 09:15AM-11:15AM 1216 PETERSON J

1967 02 MWTh 11:45AM-12:50PM 1218 PETERSON J

Lab T 11:45AM-01:45PM 1216 PETERSON J

1968 03 MTW 01:00PM-02:05PM 1252 STAFF

Lab Th 11:45AM-01:45PM 1216 STAFF

1969 04 MTW 02:15PM-03:20PM 1252 STAFF

Lab Th 02:15PM-04:15PM 1216 STAFF

**CHEM&161 General Chem w/Lab I 5**

Lab Fee: $29.60

The first in a three-quarter series examining the principles of General Chemistry with the primary emphasis on inorganic chemistry. This series is designed for physical science majors, pre-medical, pre-veterinary and pre-pharmacy students, and for students who are required to take one or more quarters of majors-level chemistry. Topics include: matter and measurements, atoms, molecules and ions, chemical formulas, chemical reactions and equations, electronic structure of atoms and periodic properties of elements. Prerequisite: Placement in MATH& 141 or completion of MATH 099. A passing grade in High School Chemistry or completion of CHEM& 121 recommended.(F) (LS)

1985 01 MTTh 11:45AM-12:50PM 1250 GROCE L

Lab W 11:45AM-02:45PM 1216 GROCE L

1986 02 MTTh 01:00PM-02:05PM 1218 GROCE L

Lab W 03:00PM-06:00PM 1216 GROCE L

**College Success Skills**

**CSS 100 College Survival Skills 3**

CSS 100 helps students become more effective learners and achieve their goals at Big Bend. National studies show that students who take courses like CSS 100 are more likely to stay in college and graduate than students who do not. CSS 100 teaches students skills that research has identified as essential to college success. CSS 100 adds to or builds on the skills students already have as students debate the purpose of college, practice reading and studying techniques, engage in critical thinking, and explore the many resources Big Bend offers to help them succeed.

2016 01 MTW 08:00AM-08:50AM 1856 WORKMAN J

2018 02 MTW 09:15AM-10:05AM 1856 WORKMAN J

2019 03 MTW 09:15AM-10:05AM 1608 WADE V

2020 04 MTW 10:30AM-11:20AM 1856 WORKMAN J

2021 05 MTW 11:45AM-12:35PM 1721 STAFF

2022 06 MTW 11:45AM-12:35PM 1909 STAFF

2023 07 MTW 01:00PM-01:50PM 1606 STAFF

2025 21 TTh 07:30PM-08:45PM 1604 STAFF

2027 OL1 ARR ARR STAFF

Online fee is $10.

**CSS 102 Focus on Success 3**

Lab Fee: $10.00

Students will explore many of the non-academic factors that affect success in college. Students will study self-awareness and the practical application of research to the following areas: career and college course choices; relationships; diversity; values; stress management; substance use; sexual decisions; financial literacy, and diet and exercise. In addition, students will develop basic computer literacy as they explore the non-academic factors through computer use, word processing operations, email, and use of the Internet.

2055 OL1 ARR ARR HAMMOND D

**CSS 104 Introduction to Computer Literacy 3**

Lab Fee: $10.00

This course will provide the student with an introduction to computer operations, file management, e-mail, applications, the Internet, and BBCC technology. The course will provide an overview of skills a student should possess before taking an online class. The course is not intended to teach keyboarding or computer applications such as Microsoft
Office.

2060 21H T 07:00PM-08:00PM 1802 DELEON J

Orientation September 20 from 7:00-9:00 p.m. This class combines online and on ground instruction.

**CSS 105 Introduction to Healthcare Studies 3**

Lab Fee: $10.00

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.

2063 01H W 08:00AM-09:00AM 1721 ELLIOTT A

2064 21H T 10:30AM-11:30AM 1718 STAFF

**Commercial Driver's License**

**CDL 090 CDL Skill Improvement 1- 2**

Lab Fee: $121.53

Extra driving time and instruction to enhance student's driving skills and/or update their qualification for testing. This is an open enrollment course offered throughout each quarter. May be repeated for credit; graded on pass-fail basis. Prerequisite: instructor approval.

2065 01 ARR 07:30AM-04:00PM 1534 GARZA G

**CDL 100 Commercial Driver's License (CDL) 17**

Lab Fee: $2918.44

This course provides classroom study, driving instruction, and experience to prepare students for the State of Washington Commercial Driver's License (CDL) Class A exam and entry-level employment as a truck driver with no airbrake restrictions and endorsements for doubles and triples, tankers and hazardous material. Prerequisite: Completed Commercial Driver's License (CDL) Program Application with supporting documents.

2070 01 DAILY 07:30AM-04:00PM 1534 GARZA G

For application contact Guillermo Garza at 793.2221 or Julia Gamboa at 793.2045.

**Computer Science**

**CS 101 Intro to Computer Science 3**

Lab Fee: $34.90

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

2105 01H M 05:00PM-05:50PM 1508 NEUFVILLE M

Students need to have access to a reliable computer and Internet connection as this is a hybrid (online and face-to-face) course.

**CS 104 Intro to Computer Hardware 3**

Lab Fee: $24.90

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.

2110 21 T 05:00PM-07:50PM 1508 GUZMAN NOE

Co-requisite: CS 105. Students will be automatically enrolled is CS 105.

**CS 105 Intro to Computer Operating Systems 3**

Lab Fee: $24.90

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

2114 21 Th 05:00PM-07:50PM 1508 GUZMAN NOE

Co-requisite: CS 104. Students will be automatically enrolled in CS 104.

**CS 106 Intro to Virtualization 5**

Lab Fee: $51.50

This introductory course is an overview and hands-on exploration of virtualization in desktop, server, and cloud environments. Concepts covered include an introduction to virtualization technologies and how to deploy and manage a virtual server environment. Course topics include virtualization concepts and terms, installing and deploying virtual machines using Hyper-V, VM Ware, and XenServer, and implementing a secure virtual environment. Prerequisite: CS 105

2117 01 MTWTh 02:15PM-03:20PM 1509 WANNER A

**CS 110 Networking Fundamentals 3**

Lab Fee: $34.90

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.

2120 21H W 07:00PM-08:20PM 1508 ELLESTAD M

Students need to have access to a reliable computer and Internet connection as this is a hybrid (online and face-to-face) course.

**CS 111 Intro to Programming 5**

Lab Fee: $41.50

An introductory programming course using the .NET language to create event-driven programs with a graphical user interface. Topics include variables, control structures, loops, object-oriented programming techniques, forms, debugging, and an introduction to database programming using ADO.NET and SQL. Prerequisite: MATH 0098 or concurrent enrollment.

2124 21 MW 06:00PM-08:20PM 1508 WAMBSGANS

**CS& 131 Computer Science I C++ 5**

Lab Fee: $41.50

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

2141 01 MTWTh 01:00PM-02:05PM 1508 WANNER A

**CS 161 Intro to Website Design and Publishing 5**

Lab Fee: $41.50

This course covers the technical knowledge and skills needed to design and publish a web site. Students create web pages with the latest standards of XHTML, HTML5, and Cascading Style Sheets (CSS) with an emphasis on coding web pages that work in both current and future browsers. Topics include web design principles, website development, web authoring standards, configuring images and multimedia on web pages, and website publishing.

2167 01 MTWTh 03:30PM-04:35PM 1508 WANNER A

**CS 195 Internship: Work Based Learning 1- 4**

Students will participate in a supervised internship with regional computer and information technology employers. Students will acquire industry work experience that validates employability skills. Course may be repeated up to a maximum of 4 credits. Prerequisite: Enrollment in Computer Science program, instructor permission, and concurrent enrollment in CS 197.

2171 01 ARR ARR STAFF

**CS 197 Internship: Work Based Learning Seminar 1**

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

2172 01 ARR ARR STAFF

**CS 265 Web Applications Design & Development 5**

Lab Fee: $41.50

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

2175 01 MTWTh 03:30PM-04:35PM 1508 WANNER A

**CS 262 Programming Dynamic Websites 5**

Lab Fee: $41.50

This course covers dynamic web programming to build interactive, database driven websites. Students gain experience using core open source technologies: PHP MySQL, JavaScript, and CSS, to add power and functionality to Web sites. A major emphasis of the course is using PHP and MySQL to build, manipulate, and create output from a database to a web page. Prerequisites: CS 115 and CS 161

2178 01 MTWTh 03:30PM-04:35PM 1508 WANNER A

**Communications**

**CMST 100 Human Communications 4**

Lab Fee: $10.00

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.

2180 21H Th 04:30PM-06:15PM 1607 STAFF

**CMST&102 Intro to Mass Media 5**

Lab Fee: $10.00

Provides an overview and survey of mass communications media, including history, organization, operation and control, theory, analysis, social functions, and new technology. Emphasis is on study of newspapers, radio, television, magazines, books, films, recording, and emerging mass media and their function and role in today's world. HU

2184 OL1 ARR ARR VALDEZ R

Online fee is $10.

**CMST&210 Interpersonal Communications 5**

This course examines the theory and practice of interpersonal communication from a variety of perspectives, with the goal of improving personal and work relationships. Students learn awareness of the variety of choices they have available to them in communicating. They then develop strategies toward understanding and responding to any cultural or ideological barriers which impede effective communication.HU

2186 01 MTWTh 10:30AM-11:35AM 1606 CLOSE S

**CMST&220 Public Speaking 5**

Provides an introduction to the fundamental process of speaking to the public. It is designed to help students develop skills in communication and to acquire an understanding of oral communication as a vital human relations factor in society. HU

2188 01 MTWTh 09:15AM-10:20AM 2032 POTH M

2189 02 MTWTh 09:15AM-10:20AM 1606 JACKSON K

2191 03 MTWTh 10:30AM-11:35AM 2032 POTH M

2193 04 MTWTh 11:45AM-12:50PM 1608 POTH MITCH

2195 05 MTWTh 01:00PM-02:05PM 1608 POTH MITCH

2197 06H Sa 08:30AM-01:00PM 1606 JACKSON K

Class will meet the first Saturday of fall quarter. Students will need access to a computer and internet connection as this is a hybrid course (online and face-to-face). You must attend all 6 classes that will be listed on the syllabus. Online fee is $10.

2198 21H MW 06:00PM-09:00PM 1609 POTH MITCH

Students need to have access to a reliable computer and Internet connection as this is a hybrid (online and face-to-face) course. Class meets on campus 9/28, 10/17, 10/24, 11/16, and 12/5. Online fee is $10.

**Criminal Justice**

**CJ& 101 Intro Criminal Justice 5**

Lab Fee: $10.00

This course provides an overview of crime and the criminal justice system including the historical development of the system and a discussion of sociological theory. The course examines the extent and character of crime by examining current and past philosophies that our society uses to deal with crime and criminals. Emphasis is placed on how the various systems interrelate and interact to attain the goal of an orderly and non-discriminatory delivery of crime related public services. SS

2205 01H MTWTh 11:45AM-12:50PM 1611 LEONARD R

Section 01H incorporates traditional class time & a distance-education component. Typically the class will only meet two days per week with the other two days watching lectures & completing assignments. Attend the first day of scheduled class for more information.

2207 21 MW 06:00PM-08:20PM 1601 STAFF

Section 21H incorporates traditional class time & a distance-education component. Typically the class will only meet one day per week with the other day watching lectures & completing assignments. Attend the first day of scheduled class for more information.

2208 OL1 ARR ARR POPLAWSKI N

Section OL1: All coursework for this class will be completed online through Canvas. Students need to have access to a reliable Internet connection. Check your Big Bend email the week before classes for log-in information and further instructions.

Early Childhood Education

**ECED&105 Intro to Early Childhood Ed 5**

Lab Fee: $10.00

Overview of the foundations of early childhood education. Examine theories defining the field, issues and trends, best practices, and program models. Observe children, professionals, and programs in action.

2270 21H M 06:00PM-08:00PM 1611 PROVOST R

Students in ECED& 105 will be taught using the I-BEST model of instruction. Two faculty will be co-teaching the class. One faculty member focuses on professional technical skills while the other focuses on basic & study skills. Pre and post CASAS testing required.

**ECED&170 Environments-Young Child 3**

Lab Fee: $10.00

Design, evaluate, and improve indoor and outdoor environments which ensure quality learning, nurturing experiences, and optimize the development of young children.

2294 21H Th 06:00PM-08:00PM 1611 MCLEAN C

Students need to have access to a reliable computer & high-speed Internet connection as this is a hybrid (online and face-to-face) course. Check your Bend email the week before classes for log-in information and further course instructions. Online fee is $10.

**Economics**

**ECON 200 Introduction to Economics 5**

Lab Fee: $10.00

Overview of the basic principles of the American economy to include supply and demand, money and banking, international trade, GDP, inflation, unemployment, and analysis of the market system. Strongly recommend placement in MATH095 or higher and placement in ENGL 099 or higher. THIS IS NOT A SUBSTITUTE FOR ECON& 201 OR 202. SS

2315 OL1 ARR ARR DONAT G

**ECON&201 Micro Economics 5**

Study of the micro economy of an individual firm or industry. Output and price of a specific product, numbers of workers, revenue, and expenses of a business are the

focus. Strongly recommend placement in MATH095 or higher and placement in ENGL 099 or higher. SS

2320 01 MTWTh 08:00AM-09:05AM 1609 PYLE T

2321 OL1 ARR ARR PYLE T

**Education**

**EDUC&115 Child Development 5**

Lab Fee: $10.00

Build a functional understanding of the foundation of child development, prenatal to early adolescence. Focus on the physical, social, emotional, and cognitive development of children, reflective of cross cultural and global perspectives. Develop skills in observing and documenting child growth and development identify theory in practice, and critical reflection of assumptions.SE

2360 21H T 06:00PM-08:00PM 1611 PROVOST R

Students in ECED& 105 will be taught using the I-BEST model of instruction. Two faculty will be co-teaching the class. One faculty member focuses on professional technical skills while the other focuses on basic & study skills. Pre and post CASAS testing required.

**EDUC&130 Guiding Behavior 3**

Lab Fee: $10.00

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.

2370 OL1 ARR ARR GILES A

Students need to have access to a reliable computer and high-speed Internet connection as this course is delivered all online. Check your Big Bend email the week before classes for log-in information and further course instructions.

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

Lab Fee: $10.00

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.

2380 OL1 ARR ARR PROVOST R

Students need to have access to a reliable computer and high-speed Internet connection as this course is delivered all online. Check your Big Bend email the week before classes for log-in information and further course instructions.

**EDUC 190 Classroom Experience 3**

Lab Fee: $22.50

This course will provide students with the opportunity to gain practical, hands-on experience working with children infancy to age eight in a variety of educational settings and to reflect on the experiences. Students will be required to assist a classroom teacher for six hours per week throughout the quarter. Can be repeated up to nine credits. (Prior to registering for this course, students must be cleared through the National Sex Offender Registry system, provide results of a negative Tuberculin skin test within the last year and obtain WEA liability insurance. Upon placement, students must pass a background check with their hosting agency). Prerequisite: ECED& 120 or EDUC& 201 or instructor permission.

2390 21H M 04:00PM-06:00PM 1611 NIGHSWONGER

Instructor permission required. Contact Jenny Nighswonger at 793-2216.

**Engineering**

**ENGR 110 Introduction to Science and Engineering 3**

Lab Fee: $60.00

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.(FORMERLY EGR 111)

2455 01H TTh 11:45AM-12:50PM 1203 CHANG J

Students need to have access to a reliable computer and Internet connection as this is a hybrid (online and face-to-face) course.

**ENGR&111 Engineering Graphics I 5**

Lab Fee: $60.00

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)

2457 21H TTh 06:00PM-08:00PM 1203 STAFF

Students need to have access to a reliable computer and Internet connection as this is a hybrid (online and face-to-face) course.

**ENGR&204 Electrical Circuits 5**

Introduction to basic circuits and systems concepts. Development of mathematical models of components including resistors, sources, capacitors, inductors and operational amplifiers. Solutions of first and second order linear differential equations associated with basic circuit forms. Steady state sinusoidal excitation and phasors. Steady state power analysis and power triangle calculation. (Some programs also require co-enrollment in ENGR 205, please see your advisor) Prerequisite: MATH& 152, PHYS& 223, or instructor permission. Corequisite: Differential Equations, or instructor permission. NS

2468 01 MTWTh 09:15AM-10:30AM 1203 CHANG J

**ENGR 205 Electric Circuits Lab 1**

Laboratory applications of electrical circuit principles and instrumentation. Measurement of transient and steady-state responses of electrical circuits. Prerequisite: none; Corequisite: ENGR& 204 NS

2469 01 WTh 01:00PM-03:00PM 1203 CHANG J

**ENGR&214 Statics 5**

Lab Fee: $10.00

Statics is the study of objects which are either at rest or moving with constant velocity. Students in this course will learn to apply mathematics and physical science to the analysis of the forces and moments acting on these objects, developing engineering problem-solving skills in the process. Topics studied will include the following: vector notation and operations; equilibrium of particles and rigid bodies; moments of forces; couples; trusses and frames; shear and moment diagrams; applications of friction; center of gravity, centroids, and moments of inertia. Prerequisite: MATH& 151, PHYS& 221 with grades of 2.0 or higher. Corequisite: MATH& 152 NS

2462 OL1 ARR ARR STAFF

**English**

**ENGL 065 Spelling Improvement 2**

Lab Fee: $8.40

With a self-paced approach, the student will practice commonly misspelled words that account for 97% of spelling errors by a combination of the whole-word method and learning the rules and exceptions of the English spelling system.

2502 01 MTWTh 08:00AM-09:05AM 1816 SHUTTL'TH K

2503 02 MTWTh 11:45AM-12:50PM 1816 SHUTTL'TH K

2504 03 MTWTh 02:15PM-03:20PM 1816 SHUTTL'TH K

**ENGL 087 Reading Improvement 3**

Lab Fee: $12.60

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

2507 01 MTWTh 08:00AM-09:05AM 1816 SHUTTL'TH K

2508 02 MTWTh 11:45AM-12:50PM 1816 SHUTTL'TH K

2509 03 MTWTh 02:15PM-03:20PM 1816 SHUTTL'TH K

**ENGL 093 Basic Writing 3**

Lab Fee: $12.60

This class is designed for adult students who have little or no experience writing beyond elementary school. During the class, students will choose a topic and develop the main idea and its support thus gaining practice in proofreading, punctuation and using correct grammar to develop paragraphs. Prerequisite: placement exam.

2512 01 MTWTh 08:00AM-09:05AM 1816 SHUTTL'TH K

2513 02 MTWTh 11:45AM-12:50PM 1816 SHUTTL'TH K

**ENGL 095 Writing Improvement 3**

Lab Fee: $12.60

Through individual writing experiences and the practice of assigned exercises, the student will develop a procedure for writing and revising papers using word processing. Students may submit papers written during the quarter to portfolio assessment of preparedness for ENGL& 101. Prerequisite: ENGL 093 or placement.

2517 01 MTWTh 08:00AM-09:05AM 1816 SHUTTL'TH K

2518 02 MTWTh 11:45AM-12:50PM 1816 SHUTTL'TH K

2519 03 MTWTh 02:15PM-03:20PM 1816 SHUTTL'TH K

**ENGL 098 Basic English Skills 5**

Lab Fee: $21.00

English 98 covers techniques for improving basic writing skills at the sentence and paragraph level and introduces the skills needed for essay writing. Students will also work on improving reading comprehension, enriching vocabulary, and refining computer skills. Prerequisite: English Placement Test

2523 01 MTWTh 09:15AM-10:20AM 1855B HAMMOND D

2524 02 MTWTh 10:30AM-11:35AM 1855B ERNETTE D

2526 21H TTh 06:00PM-07:30PM 1606 STAFF

Students need to have access to a reliable computer & high-speed Internet connection as this is a hybrid (online and face-to-face) course.

**ENGL 099 English Skills (Pre-101) 5**

Lab Fee: $21.00

English 99 provides students a solid preparation for college reading and writing using word processing. Students write personal and academic essays and prepare a writing portfolio at the end of the quarter. The course includes the study of sentence sense and mechanics, grammar, punctuation, paragraph and essay structure as well as activities that improve reading and vocabulary. Prerequisite: Successful completion of English 98 or direct placement through the English Placement Test.

2530 01 MTWTh 08:00AM-09:05AM 1855B HAMMOND D

2531 02 MTWTh 09:15AM-10:20AM 1801 ERNETTE D

2532 03 MTWTh 10:30AM-11:35AM 1608 WADE V

2533 04 MTWTh 11:45AM-12:50PM 1855B STAFF

2534 05 MTWTh 01:00PM-02:05PM 1855B STAFF

2535 21H TTh 06:00PM-07:30PM 1606 STAFF

Section 21H: Students need to have access to a reliable computer & high-speed Internet connection as this is a hybrid (online and face-to-face) course.

2538 OL1 ARR ARR ERNETTE D

**ENGL&101 English Composition I 5**

Lab Fee: $21.00

This composition course provides instruction in academic written communication by having students compose formal essays, with the goal of teaching students to communicate effectively and engage with issues and ideas. Prerequisite: placement exam or passing grade in ENGL 099. BS/HU

2545 01 MTWTh 08:00AM-09:05AM 1605 TWOHY S

2546 02 MTWTh 08:00AM-09:05AM 1611 STAFF

2547 03 MTWTh 08:00AM-09:05AM 1606 CLOSE S

2548 04 MTWTh 09:15AM-10:20AM 1611 STAFF

2549 05 MTWTh 09:15AM-10:20AM 1605 TWOHY S

2553 06 MTWTh 09:15AM-10:20AM 1855A STAFF

2550 07 MTWTh 10:30AM-11:35AM 1909 SULLIVAN M

2552 08 MTWTh 10:30AM-11:35AM 1607 STAFF

2554 09 MTWTh 11:45AM-12:50PM 1855A ERNETTE D

This is a coordinated instruction class with MATH& 107 at 10:30 a.m. Co-enrollment in both classes is required.

2555 10 MTWTh 11:45AM-12:50PM 1856 STAFF

2556 11 MTWTh 01:00PM-02:05PM 1856 STAFF

2557 21 TTh 06:00PM-08:30PM 1608 MURRAY A

2558 OL1 ARR ARR RAMM J

2559 OL2 ARR ARR RAMM J

**ENGL&102 Composition II 5**

Lab Fee: $21.00

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

2560 01 MTWTh 08:00AM-09:05AM 1855A STAFF

2561 02 MTWTh 09:15AM-10:20AM 1607 STAFF

2564 OL1 ARR ARR RASMUSSEN P

**ENGL 109 Applied Technical Writing 3**

Lab Fee: $12.60

The course prepares students for successful careers in their respective technical fields by developing skills in written communications commonly used in the workplace. Students will focus on reading, interpreting, planning, organizing, composing, and word processing technical writing as applied in business and industry. Prerequisite: ENGL 099

2575 01H MTTh 08:00AM-08:50AM 1717 ELLIOTT A

**ENGL 211 Creative Writing: Fiction 5**

Lab Fee: $10.00

In this course students will develop the basic techniques that writers use to create imaginative and effective fiction, and use the writer's workshop as a method for improving their work. Although this class focuses on writing short stories, it can be useful for those interested in all forms of narrative writing, including novels, screenplays, and creative nonfiction. Prerequisite: ENGL&101 or instructor permission.HU

2590 21H T 06:00PM-09:00PM 1909 SULLIVAN M

This is a hybrid class. While most of it will follow the model of a traditional classroom, it also has a required online component.

**ENGL&235 Technical Writing 5**

This course is designed to improve students' written technical communication skills as are related to a range of professional applications. The goal of technical writing is to communicate a message clearly, concisely, and persuasively. This course emphasizes critical thinking skills as applied to technical writing, attention to research techniques, detail, professionalism, purpose, and audience. Students will learn to design, format, and produce documents common in business and industry. Prerequisite: ENGL& 101 HU

2605 01 MTWTh 11:45AM-12:50PM 1604 TWOHY S

**ENGL 239 The Mystery Story as Literature 5**

From Sherlock Holmes to C.S.I., mystery stories have been popular and enduring forms of entertainment. In addition to exploring the world of crime, mysteries can offer insight into the nature of good and evil, raise questions about the human condition, and reveal truths about history and culture. This class will use mystery stories, novels, and films that range from the classic to the contemporary.HU

2610 01 MTWTh 09:15AM-10:20AM 1909 SULLIVAN M

**Environmental Science**

**ENVS&100 Survey of Environmental Science 5**

Lab Fee: $10.00

An introduction to the fundamental principles of environmental science, topics of study include: environmental, science, and information literacy, human population growth, environmental economics, ecosystems, population and community ecology, biodiversity, evolution and extinction, forests and grasslands, marine ecosystems,

fisheries and aquaculture, freshwater resources and water pollution, solid waste, agriculture, coal and petroleum, air pollution and climate change, nuclear power, alternative energy sources, biofuels, urbanization, and sustainable communities. NS

2672 01 MTWTh 01:00PM-02:05PM 1607 WHITNEY M

2673 OL1 ARR ARR DUVALL K

Section OL1: Students access course resources, participate in class discussions & submit assignments & quizzes online. Major tests are taken at the BBCC Testing Center or an approved alternate location.

**First Aid**

**FAD 150 Industrial First Aid and C.P.R. Plus Bloodborne 2**

Lab Fee: $9.40

An advanced industrial first aid course and blood borne 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.

2680 01 F 09:00AM-05:00PM 1507 BENKO A

Books are required. Class meets 9/23, 9/30, 10/7.

2681 02W Sa 09:00AM-05:00PM 1507 BENKO A

Books are required. Class meets 9/24, 10/1, 10/8.

2682 03 F 09:00AM-05:00PM 1507 BENKO A

Books are required. Class meets 10/14, 10/21, 10/28.

**French**

**FRCH&121 French I 5**

Lab Fee: $5.00

Beginning French language and culture taught using a communicative approach. Through the use of drama and themes, this course focuses on listening, speaking, reading and writing skills and the culture of the French-speaking world. HU

2700 01 MTWTh 08:00AM-09:05AM 1604 MCCARTHY J

**FRCH&122 French II 5**

Lab Fee: $5.00

Beginning French language and culture taught using a communicative approach. Through the use of drama and themes, this course focuses on listening, speaking, reading and writing skills and the culture of the French-speaking world. Prerequisite: FRCH& 121 HU

2705 01 MTWTh 08:00AM-09:05AM 1604 MCCARTHY J

**FRCH&123 French III 5**

Lab Fee: $5.00

Beginning French language and culture taught using a communicative approach. Through the use of drama and themes, this course focuses on listening, speaking, reading and writing skills and the culture of the French-speaking world. Prerequisite: FRCH& 122 HU

2710 01 MTWTh 08:00AM-09:05AM 1604 MCCARTHY J

**Geology**

**GEOL&101 Intro Physical Geology 5**

Lab Fee: $39.60

This course provides a study of the structure and composition of the earth's crust. Emphasis is placed on weathering, erosional and depositional processes, mountain building forces, rocks and minerals, and structural change. Upon completion, students should be able to explain the structure, composition, and formation of the earth's crust. Prerequisite: MATH 099 or above. LS

2771 21H TTh 06:00PM-08:30PM 1252 NOEL M

Students need to have access to a reliable computer and Internet connection as this is a hybrid (online and face-to-face) course.

**Health Education**

**HED 119 Medical Terminology 5**

Lab Fee: $10.00

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.

2795 21H ARR ARR 1802 STAFF

Mandatory orientation 9/21 at 5:30 p.m. in room 1802, midterm exam 10/24 at 5:30 p.m. in room 1802, and final exam 12/7 at 5:30 p.m. in room 1802.

2797 22H MW 05:30PM-06:50PM 1722 MOTZKUS P

**HED 121 The Human Body and Disease I 5**

Lab Fee: $10.00

The first course of a three-part course sequence examining body structure, function and disease. This includes an introduction to the organization of the body, mechanism of disease, and discussion of the anatomy and physiology of skeletal system, muscular system, and the integumentary system. Common diagnostic tests/treatments, pharmacological agents, and possible prognoses for common disease processes are included. There is no lab component. Prerequisite: HED 119 with minimum grade of 2.0 or HED 119 as a co-requisite.

2802 21H ARR ARR 1802 DE HOOG J

Mandatory orientation 9/21 at 4:00 p.m. in room 1802. Mandatory final on 12/7 at 4:00 p.m. in room 1802.

**HED 123 The Human Body and Disease III 5**

Lab Fee: $10.00

The third of a three-part course sequence examining body structure, function and disease. This includes the analysis and discussion of the lymphatic system, gastrointestinal system, the urinary system, reproductive system, and basic diagnostic tests. Common diagnostic tests/treatments, pharmacological agents, and possible prognoses for common disease processes are included. There is no lab component. Prerequisite: Completion of HED 121 and HED 122 with a minimum grade of 2.0,completion of HED 119 with a minimum grade of 2.0.

2820 01H T 01:00PM-03:00PM 1722 AUSERE S

**History**

**HIST 110 The American Experience 5**

A brief history of the United States, this course combines a chronological and thematic approach to answer a few essential questions-the most important of which being, what does it mean to be an American? Critical periods in American History are examined with an eye toward their lasting impact upon American culture and politics. These periods include the colonial and revolutionary era, the age of reform (1830s/40s), the Civil War and Reconstruction, the Age of Industrialization, and world wars, and the Cold War. Essential questions will examine such things as democracy, opportunity, justice and equality. SS

2895 01 MTWTh 08:00AM-09:05AM 1608 RODMAN S

**HIST&116 Western Civilization I 5**

From the origins of civilization to the dawn of the modern world in the 1500s, this course surveys the classical world of Greece and Rome, Western Christendom, Byzantium and Islam, the Middle Ages, and the early Italian Renaissance. SS

2900 01 MTWTh 11:45AM-12:50PM 1610 QUITADAMO

Section 01: This class includes the use of a Canvas online class site in addition to the traditional classroom. Students will report to the above referenced classroom on the first day of class for additional information.

2902 OL1 ARR ARR QUITADAMO

Section OL1: All course work for this class will be completed online through Canvas. Students need to have access to a reliable internet connection. Check your Big Bend email the week before classes for log-in information and further course instructions.

**HIST 121 History of Mexico 5**

This course will explore the social, cultural and otherwise varied history of Mexico from prehistoric times to the present. Lectures, discussions and readings will provide additional insights into the ethnic, economic and political realities of Mexico in our time. SS

2920 01 MTWTh 09:15AM-10:20AM 1601 WAITES W

**HIST&136 US History 1 5**

From the Reformation in Europe to the end of the Civil War, this course includes colonization, the introduction of slavery, the Revolutionary and Early National Period, the development of political parties, nationalism and sectionalism, and the Civil War. Prerequisites: Placement in ENGL& 101 or completion of ENGL 099. SS

2933 01 MTWTh 02:15PM-03:20PM 1601 QUITADAMO

2939 OL1 ARR ARR RILEY C

Section OL1: All course work for this class will be completed online through Canvas. Students need to have access to a reliable internet connection. Check your Big Bend email the week before classes for log-in information and further course instructions.

**Humanities**

**HUM 110 Greek Mythology 5**

Greek Mythology is the basis for understanding Western literature, art, history and even some symbolism on U.S. currency. More than just entertainment, the ancient myths discuss our relationship to the divine, the nature of power, and the importance of heroics. This course will cover the pantheon of Greek gods and the literary styles of the epic, tragedy, and comedy. HU

2998 01 MW 02:15PM-04:15PM 1608 KNEPP D

2999 21 MW 06:00PM-08:00PM 1608 KNEPP D

**HUM 214 Diversity Issues: Race, Class, and Gender 5**

This cultural diversity studies course examines and investigates culture, behavior, values, identity, stereotypes, person and societal perceptions, and the cultural construction of reality using a literature-based and experientially based cognitive curriculum. This class will explore multicultural society with a mind toward improving students' understanding of their own cultures and the cultures that surround them. Prerequisite: English 101 or instructor permission

3000 01 MTWTh 11:45AM-12:50PM 1606 CLOSE S

**Homeland Security**

**HSEM 102 Intro to Homeland Security Emergency Management 5**

Lab Fee: $10.00

Provides groundwork on which emergency services can build a strong foundation for disaster and emergency management for homeland security in the 21st century. Addresses issues, policies, questions, best practices, and lessons learned through recent years; requirements of NFPA® 1600, Standard on Emergency Management and exposure to new and developing theories, practices, and technology in emergency management.

3010 WAO ARR ARR STAFF

Start & end date: 09/22/16 to 11/30/16

**HSEM 110 Incident Command System/National Incident Mngmt 2**

Lab Fee: $10.00

This course introduces the Incident Command System (ICS) and provides the foundation for higher-level ICS training. This course describes the history, features, and principles and organization structure of the Incident Command System. It also explains the relationship between ICS and the National Incident Management System (NIMS). (Course will meet ICS 100/200/700/800 requirements).Prerequisite: Completion of or concurrent enrollment in HSEM 102

3013 WAO ARR ARR STAFF

Start & end date: 09/22/16 to 11/30/16

**HSEM 120 All Hazards Emergency Planning 3**

Lab Fee: $10.00

This course is designed to introduce students to developing an effective emergency planning system. This course offers training in the fundamentals of the emergency planning process, including the rationale behind planning. Emphasis will be placed on hazard/risk analysis and planning team development. Other topics, such as Continuity of Operations (COOP), Emergency Support Functions, National Response Plan, Washington State Comprehensive Emergency Management Plan and contingency planning for areas such as Special Needs (Vulnerable Populations) or Animal
Sheltering are included. Prerequisite: HSEM 102

3017 WAO ARR ARR STAFF

Start & end date: 09/22/16 to 11/30/16

**HSEM 157 Public Information Officer 2**

Lab Fee: $10.00

The course is designed to train participants for coordinating and disseminating information released during emergency operations and for assisting in the scheduling and coordination of news conferences and similar media events. After completing this course the student will have met the sections required for Public Information Officer as outlined by NFPA 1035 Prerequisite: HSEM 102 Introduction to Emergency Management

3021 WAO ARR ARR STAFF

Start & end date: 09/22/16 to 11/30/16

**HSEM 160 Emergency Response Awareness to Terrorism 5**

Lab Fee: $10.00

Provides current and relevant information about terrorism, terrorist behavior, homeland security policies and dilemmas, and how to deal effectively with threats and the consequences of attacks. Student will gain insight into the key players involved in emergency management, local and state issues, particularly as they need to interact and work with FEMA and other federal agencies. Course components include identifying terrorism, causes of terrorism, preventing terrorist attacks, responding to terrorism attacks and avoidance in communication and leadership collapse. Prerequisite: HSEM 102-Introduction to Emergency Management

3023 WAO ARR ARR STAFF

Start & end date: 09/22/16 to 11/30/16

**HSEM 200 Emergency Operations Center 2**

Lab Fee: $10.00

This course provides the student with skills and knowledge to manage an Emergency Operations Center (EOC), acquire and control resources, and interface with on-scene responders within Incident Management Systems. Topics include EOC design, preparing, staffing and operating, jurisdictional setting, and the critical link between Incident Management Systems and emergency management operations. Prerequisite: HSEM 110 Basic ICS/NIMS. Prerequisite: HSEM 110 Basic ICS/NIMS & HSEM 102 Introduction to Emergency Management.

3030 WAO ARR ARR STAFF

Start & end date: 09/22/16 to 11/30/16

**HSEM 210 Exercise Design and Evaluation 3**

Lab Fee: $10.00

This course provides participants with the knowledge and skills to develop, conduct, evaluate and report effective exercises that test a community's operations plan and operational response capability. Throughout the course, participants will learn about topics including exercise program management, design and development, evaluation, and improvement planning. It also builds a foundation for subsequent exercise courses, which provide the specifics of the Homeland Security Exercise and Evaluation Program (HSEEP) and the National Standard Exercise Curriculum (NSEC). Prerequisite: HSEM 102 Introduction to Emergency Management and HSEM 120 All Hazards Emergency Planning or Program Coordinator approval.

3032 WAO ARR ARR STAFF

Start & end date: 09/22/16 to 11/30/16

**HSEM 240 Homeland Security Emergency Mgmt. Wrk-based Lear 5**

Lab Fee: $10.00

Provides students "real world experiences" in homeland security and emergency management. Students learn to work within time constraints and are exposed to appropriate workplace behaviors. Students will have opportunities to refine the core skills they have learned from the courses or curriculum. Prerequisite: HSEM 102 Introduction to Emergency Management and HSEM Program Coordinator approval

3036 WAO ARR ARR STAFF

Start & end date: 09/22/16 to 11/30/16

**HSEM 250 Homeland Security Law and Ethics 3**

Lab Fee: $10.00

This course is designed to give the student an overview of various statutes, regulations, constitutional law, and common law associated with Homeland Security. This course examines emergency response, weapons of mass destruction, local government powers, Federal Emergency Management Agency (FEMA), Department of Homeland Security, civil rights, international anti-terrorism efforts, Homeland Security Act of 2002, and the Patriot Act. Students will be introduced to the legalities and ethics relevant to organizing for counterterrorism, investigating terrorism and other

national security threats, crisis and consequence management. Prerequisite: HSEM 102 Introduction to Emergency Management

3038 WAO ARR ARR STAFF

Start & end date: 09/22/16 to 11/30/16

**Industrial Systems**

**IST 100 Introduction To Industrial Safety and Health 3**

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. Prerequisite: None

3040 01 MTWTh 09:35AM-10:50AM 3602 MATERN S

Start & end date: 09/19/16 to 10/25/16

**IST 102 Technical Drawing Interpretation 3**

Lab Fee: $24.90

Fundamental technical drawing reading and sketching principles, concepts and standards as applied to industry. Prerequisite: None

3046 01 MTWTh 09:35AM-11:30AM 1507 MATERN S

Start & end date: 10/26/16 to 12/07/16

**IST 105 Basic Electricity--DC Circuit Analysis 5**

Lab Fee: $41.50

Fundamentals of DC electricity as applied to series, parallel, and series-parallel circuits. Use of test equipment and troubleshooting simple circuits. Co-requisite/Prerequisite: MAP 103 or instructor permission.

3052 01 TTh 12:30PM-03:30PM 3607 AYERS J

**IST 107 Industrial Electricity I 5**

Lab Fee: $41.50

Electrical theory and application, electrical blueprints, power sources, panels, control devices, motors, etc. Use of test equipment and troubleshooting. Note: Maintenance Mechanics emphasis. Prerequisite(s): MAP 103, IST 102, IST 106 or instructor permission.

3064 01 MW 12:30PM-03:30PM 3606 AUTRY B

**IST 111 National Electric Code II 2**

Application of the Washington State electrical laws (WAC codes) and the National Electric Code as they pertain to the working electrical technician. Prerequisite: IST 110 or instructor permission.

3076 01 MW 03:35PM-04:25PM 3607 AUTRY B

**IST 130 Introduction to Refrigeration & Air Conditioning 5**

Lab Fee: $41.50

Fundamental physical, chemical, engineering, and mechanical aspects of the refrigeration process. Prerequisite(s): IST 100, MAP 103, IST 102, IST 106 or instructor permission.

3101 01 TTh 09:00AM-12:00PM 3500 AUTRY B

**IST 150 Introduction to Programmable Logic Controllers 5**

Lab Fee: $41.50

Introduction to programmable logic controller principles, hardware, and operation. Includes ladder logic, instruction, maintenance and troubleshooting. Prerequisite(s): MAP 103, IST 107 or instructor permission.

3115 01 TTh 12:30PM-03:30PM 3604 AUTRY B

**IST 207 Industrial Electricity II 5**

Lab Fee: $41.50

Electrical theory and function as it applies to various control schemes with a practical understanding of the logic and safety considerations required for efficient control of "stand alone" machinery and or a complex system. Prerequisite: IST 107 or instructor permission,

3145 01 TTh 09:00AM-12:00PM 3606 AYERS J

**IST 222 Electronics II (Applications) 5**

Lab Fee: $41.50

Construct and analyze operation of analog and digital electronic devices, circuits, and systems using schematic diagrams, test equipment, and logical trouble shooting procedures. Prerequisite: IST 221 or instructor permission.

3166 01 MW 12:30PM-03:30PM 3607 AYERS J

**IST 280 Mechanical Power Transmission 5**

Lab Fee: $41.50
Fundamentals of industrial mechanical power transmission. Includes lubrication, bearings, speed reducers, gears, couplings, drive components, brakes, clutches, and adjustable speed drives. Prerequisite(s): MAP 103, IST 100, IST 102 or instructor permission.

3205 01 MW 09:00AM-12:00PM 3500 AUTRY B

**Math**

**MATH 094 Introduction to Algebra 5**

Lab Fee: $40.00

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(formerly MCP 090, Math 090) Prerequisite: Appropriate placement on the BBCC math placement exam

3247 01 MTWTh 08:00AM-09:05AM 1202 ABED S

Taught in traditional lecture manner.

3248 CL1 MTWTh 08:00AM-09:05AM 1215 STAFF

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3250 CL2 MTWTh 09:15AM-10:20AM 1215 STAFF

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3252 CL3 MTWTh 10:30AM-11:35AM 1215 STAFF

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3254 CL4 MTWTh 11:45AM-12:50PM 1215 STAFF

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3255 CL5 MTWTh 01:00PM-02:05PM 1215 STAFF

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3256 CL6 MTWTh 02:15PM-03:20PM 1215 STAFF

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3258 CLN MW 06:00PM-08:30PM 1215 STAFF

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

**MATH 098 Intermediate Algebra I 5**

Lab Fee: $40.00

This course includes the study of intermediate algebraic operations and concepts, and the structure and use of algebra. This includes solving, graphing, and solving applications of linear equations and systems of equations; simplifying, factoring, and solving quadratic functions, introduction to functions and models; and exponential and logarithmic functions along with applications. (formerly Math 095, 096) Prerequisite: MATH 094 or placement.

3288 CL1 MTWTh 08:00AM-09:05AM 1215 STAFF

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3289 CL2 MTWTh 09:15AM-10:20AM 1215 STAFF

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3297 01 MTWTh 10:30AM-11:35AM 1217 FARAG S

Taught in traditional lecture manner.

3290 CL3 MTWTh 10:30AM-11:35AM 1215 STAFF

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3292 CL4 MTWTh 11:45AM-12:50PM 1215 STAFF

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3293 CL5 MTWTh 01:00PM-02:05PM 1215 STAFF

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3294 CL6 MTWTh 02:15PM-03:20PM 1215 STAFF

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3295 CLN MW 06:00PM-08:30PM 1215 STAFF

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3296 OL1 ARR ARR ADAMS S

Section OL1: Students view class lectures and submit assignments online; exams are taken on campus.

**MATH 099 Intermediate Algebra II 5**

Lab Fee: $40.00

This course is designed to prepare students for precalculus and finite math. It includes the study of inequalities, applications of systems, rational expressions, functions, radicals, rational exponents, radical equations, complex numbers,

quadratic equations and their application.(formerly Math 098) Prerequisite: Math 098 or placement.

3378 CL1 MTWTh 08:00AM-09:05AM 1215 STAFF

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3379 CL2 MTWTh 09:15AM-10:20AM 1215 STAFF

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3380 CL3 MTWTh 10:30AM-11:35AM 1215 STAFF

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3381 CL4 MTWTh 11:45AM-12:50PM 1215 STAFF

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3382 CL5 MTWTh 01:00PM-02:05PM 1215 STAFF

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3383 CL6 MTWTh 02:15PM-03:20PM 1215 STAFF

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3385 CLN MW 06:00PM-08:30PM 1215 STAFF

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

3299 OL1 ARR ARR ADAMS S

Section OL1: Students view class lectures and submit assignments online; exams are taken on campus.

**MATH&107 Math in Society 5**

Lab Fee: $40.00

This course will introduce the non-math/science major to mathematical applications in a variety of disciplines. Prerequisite: Appropriate scores in the BBCC Mathematics Assessment or successful completion of MATH 098 or placement into MATH 099/107/146. SQR

3300 01 MTWTh 10:30AM-11:35AM 1855A HARBERTS B

This is a coordinated instruction class with ENGL& 101 at 11:45 a.m. Co-enrollment in both classes is required.

3301 02 MTWTh 11:45AM-12:50PM 1219 ABED S

3303 21 TTh 06:00PM-08:30PM 1219 STAFF

**MATH&141 Precalculus I 5**

Lab Fee: $40.00

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. Prerequisites: MATH 099 MS/SQR

3315 01 MTWTh 09:15AM-10:20AM 1252 WHITNEY B

3317 02 MTWTh 11:45AM-12:50PM 1252 WHITNEY B

3318 03 MTWTh 01:00PM-02:05PM 1202 FARAG S

**MATH&142 Precalculus II 5**

Lab Fee: $40.00

In preparation for calculus this is a comprehensive study of trigonometry, circular functions, right triangle trigonometry, analytical trigonometry. Sequences, series and induction are also covered. Prerequisite: MATH &141 MS/SQR

3320 01 MTWTh 08:00AM-09:05AM 1252 WHITNEY B

**MATH&146 Introduction to Statistics 5**

Lab Fee: $40.00

This course is an introduction to descriptive statistics, probability and its applications, statistical inference and hypothesis testing, predictive statistics and linear regression. Prerequisite: Appropriate scores in the BBCC Mathematics Assessment or successful completion of MATH 098 or placement into MATH 099/107/146. SQR

3330 01 MTWTh 08:00AM-09:05AM 1219 LANE S

3332 02 MTWTh 09:15AM-10:20AM 1219 FARAG S

3333 03 MTWTh 01:00PM-02:05PM 1910 ABED S

3334 04 MTWTh 02:15PM-03:20PM 1219 HARBERTS B

**MATH&151 Calculus I 5**

Lab Fee: $40.00

This course will introduce the student to the basic concepts of the calculus. It will give the student an appreciation of the calculus and its applications in the real world and will prepare the student for future work in mathematics and the sciences. Course includes functions, limits, continuity, derivatives and their applications, and integration and its applications. Prerequisite(s): MATH& 142 or BBCC placement exam, or instructor permission. MS/SQR

3350 01 MTWTh 10:30AM-11:35AM 1219 LANE S

**MATH&152 Calculus II 5**

Lab Fee: $40.00

This course will expand on the applications and techniques of differentiation learned in the first quarter and give a depth study of integration including the fundamental methods of integrating elementary algebraic and transcendental functions. It will include the applications of the calculus to transcendental functions, analytical geometry and other relevant topics. Prerequisite: MATH& 151 or instructor permission. MS/SQR

3355 01 MTWTh 10:30AM-11:35AM 1252 ABED S

**MATH 099 Intermediate Algebra II 5**

Lab Fee: $40.00

This course is designed to prepare students for precalculus and finite math. It includes the study of inequalities, applications of systems, rational expressions, functions, radicals, rational exponents, radical equations, complex numbers, quadratic equations and their application.(formerly Math 098) Prerequisite: Math 098 or placement.

**Math (Applied)**

**MAP 100 Applied Mathematics (AMT) 2**

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 the successful completion of the Aviation Maintenance Technology program. This course is FAA approved under 14 CFR Part 147. Prerequisite: Successful completion of DVS 080 or placement into MATH 094 or above. Must be enrolled in the Aviation Maintenance Technology program.

3389 01 MTWTh ARR 3200 DANNENBERG K

**MAP 101 Applied Mathematics (AUT/WLD) 5**

This class provides review and instruction in whole numbers, decimals, fractions, measurement, ratio, proportion, percents, introduction to algebra, and introduction to geometry. This basic instruction and review is followed by vocational program specific mathematics instruction. Students will study mathematics for welding or automotive repair. The emphasis is on providing practice in related job specific skills. Prerequisite: Successful completion of MATH080 or BBCC Math placement score into MATH 090 or above.

3390 01 MTWTh 07:45AM-08:50AM 4103 WYNDER D

**MAP 103 Applied Mathematics (MMT/IST) 5**

This class provides review and instruction in whole numbers, decimals, fractions, measurement, ratio, proportion, percents, introduction to algebra, and introduction to geometry. This basic instruction and review is followed by vocational program specific mathematics instruction. Students will study mathematics for electricity/electronics. The emphasis is on providing a solid mathematics base to facilitate assimilation of more complex mathematics as well as providing course work in relevant work-specific problems and situations. Collaborative learning is

encouraged and built into the course to give students practice in a key skill used in the workplace. Prerequisite: successful completion ofMATH 080 or BBCC Math placement score of MATH 090 or above.

3400 01 MTWTh 07:50AM-08:55AM 3606 MATERN S

**Medical Assistant**

**MA 111 Clinical Procedures I 3**

Lab Fee: $75.50

This course is an introduction to basic medical front office as well as back office techniques. It introduces the importance of work ethics and interpersonal communications. Prerequisite(s): Instructor permission required.

3562 01H F 08:00AM-03:00PM 1722 OHS K

Annual malpractice insurance required.

**Music**

**MUSC&105 Music Appreciation 5**

This course is designed to acquaint students with the elements of music and enhance the student's experience in listening to music from a global perspective. By drawing attention to the wide variety of music and the place/role of music in different cultures, students will develop an awareness of the diverse musical styles and cultures in the United States and throughout the world. HU

3605 01 MTWTh 09:15AM-10:20AM 1134 DZBENSKI M

3607 OL1 MTWTh ARR DZBENSKI M

**MUSC 115 Group Piano I 2**

Lab Fee: $10.00

This course presents the basic concepts and skills to develop performing proficiency at the piano. Musical activities and projects will build growth in technical skills such as major and minor scale patterns, musical skills such as sight reading and improvisation, theoretical concepts such as notation, rhythm patterns, melodic shapes and forms, and creative skills such as completing melodic phrases and inventing melodic variations. Repertoire will reflect the development of increasingly advanced solo and ensemble pieces. HP

3630 01 MW 01:00PM-02:15PM 1134 DZBENSKI M

**MUSC 116 Group Piano II 2**

Lab Fee: $10.00

This course presents the basic to intermediate concepts and skills to develop performing proficiency at the piano. Musical activities and projects will build growth in technical skills such as major and minor scale patterns, musical skills such as sight reading and improvisation, theoretical concepts such as notation, rhythm patterns, melodic shapes and forms, and creative skills such as completing melodic phrases and inventing melodic variations. Repertoire will reflect the development of increasingly advanced solo and ensemble pieces. HP

3635 01 MW 01:00PM-02:15PM 1134 DZBENSKI M

**MUSC 117 Group Piano III 2**

Lab Fee: $10.00

This course presents the intermediate concepts and skills to develop performing proficiency at the piano. Musical activities and projects will build growth in technical skills such as major and minor scale patterns, musical skills such as sight reading and improvisation, theoretical concepts such as notation, rhythm patterns, melodic shapes and forms, and creative skills such as completing melodic phrases and inventing melodic variations. Repertoire will reflect the development of increasingly advanced solo and ensemble pieces. HP

3638 01 MW 01:00PM-02:15PM 1134 DZBENSKI M

**MUSC 175 Music of the World 5**

This course introduces world music tradition, including both sound and socio-cultural dimensions of music. Students will study the musical styles of major non-Western cultures, including Africa, India, Asia, Indonesia, and Eastern Europe. Topic will include instrumentation, rhythmic structure, melodic structure, song forms, composition, improvisation, family and community participation, political/economic connection, and religious involvement. HU

3724 01 MTWTh 11:45AM-12:50PM 1134 DZBENSKI M

**MUSC 215 Group Piano IV 2**

Lab Fee: $10.00

This course presents the intermediate concepts and skills to develop performing proficiency at the piano. Musical activities and projects will build growth in technical skills such as major and minor scale patterns, musical skills such as sight reading and improvisation, theoretical concepts such as notation, rhythm patterns, melodic shapes and forms, and creative skills such as completing melodic phrases and inventing melodic variations. Repertoire will reflect the development of increasingly advanced solo and ensemble pieces.HP

3730 01 MW 01:00PM-02:15PM 1134 DZBENSKI M

**MUSC 216 Group Piano V 2**

Lab Fee: $10.00

This course presents the intermediate and advanced concepts and skills to develop performing proficiency at the piano. Musical activities and projects will build growth in technical skills such as major and minor scale patterns, musical skills such as sight reading and improvisation, theoretical concepts such as notation, rhythm patterns, melodic shapes and forms, and creative skills such as completing melodic phrases and inventing melodic variations. Repertoire will reflect the development of increasingly advanced solo and ensemble pieces. HP

3733 01 MW 01:00PM-02:15PM 1134 DZBENSKI M

**MUSC 217 Group Piano VI 2**

Lab Fee: $10.00

This course presents the advanced concepts and skills to develop performing proficiency at the piano. Musical activities and projects will build growth in technical skills such as major and minor scale patterns, musical skills such as sight reading and improvisation, theoretical concepts such as notation, rhythm patterns, melodic shapes and forms, and creative skills such as completing melodic phrases and inventing melodic variations. Repertoire will reflect the development of increasingly advanced solo and ensemble pieces. HP

3736 01 MW 01:00PM-02:15PM 1134 DZBENSKI M

**MUSC 270 Musical Theater Workshop 1**

Lab Fee: $10.00

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. HU

3766 21 T 06:30PM-08:30PM 1134 DZBENSKI M

**Nursing**

**NUR 100 Nursing Assistant 9**

Lab Fee: $216.41

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. Prerequisites: Read, write, speak and understand English at the level necessary for performing duties of the nursing assistant. (Placement in English 99 or above)

3800 01 TTh 01:00PM-05:00PM 1721 ERWIN K

**** F 06:00AM-03:00PM 1721 ERWIN K

The NAC lab fee includes: malpractice and liability insurance, drug testing, CPR certification, and registration for one state NAC test. For more information email kathye@bigbend.edu.

**NUR 101 Survival Skills for the Nursing Student 1**

This course will offer the nursing student tools to effectively meet the challenges of nursing education. Study skills, critical thinking skills, learning styles, and test taking strategies will be explored. Prerequisite: Admittance into the BBCC Nursing Program.Co-prerequisite: NUR 110 or instructor permission

3804 01 ARR ARR 1700 CHRISTIAN K

**NUR 110 Fundamentals of Nursing 5**

Focus is on fundamental nursing theory for the practice of nursing. Basic human needs and ethical considerations are addressed with emphasis on the adult and elderly

population. Prerequisites: Admission into the Level I ADN Nursing Program and current Washington NAC certificate.

3810 01 MW 09:00AM-12:00PM 1718 BROOKS J

Orientation for Level 1 students September 7, 8, and 9 from 8:00 a.m. to 4:00 p.m. in room 1718.

**NUR 111 Fundamentals of Nursing Practicum 3**

Lab Fee: $28.50

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. Prerequisites: Admission into the Level I ADN nursing program.

3815 01 ARR ARR BROOKS J

3816 02 ARR ARR STAFF

3817 03 ARR ARR STAFF

**NUR 114 Pharmacology 2**

An introduction to nursing principles of medication administration. Explores the therapeutic actions, major side effects, and nursing implications of common drugs in major classifications. Principles of medication administration and dosage calculation are included. Prerequisite: Completion of MATH 098 with a grade of 2.0 or higher or placement in MATH 099. Co-requisite: NUR 110 or instructor permission.

3821 01 MW 08:00AM-08:50AM 1718 CHRISTIAN K

**NUR 135 Nursing Skills Laboratory 1**

Lab Fee: $188.20

This course provides for the practice of nursing skills in a controlled setting in order to gain proficiency for delivery of nursing care in the clinical setting (NUR 111). The content is based on theoretical nursing knowledge taught in NUR 110. Prerequisite: Admission into the level I ADN Program.

3851 01 ARR ARR 1731 BROOKS J

Two hours arranged per week. Graded on a pass/fail basis.

**NUR 210 Advanced Nursing Concepts I 5**

Focus is on advanced nursing theory as it relates to complicated health deviations in patients throughout the lifespan. Current professional issues and role development are incorporated in this course. Prerequisite: PSYC&100 with a 2.0 G.P.A. or above, or current LPN Licensure and permission of program director

3900 01 M 09:00AM-03:00PM 1722 GONZALEZ-ALL

**NUR 211 Advanced Nursing Practicum I 5**

Lab Fee: $28.50

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. Prerequisites: Admission to the Level II ADN program.

3905 01 ARR ARR STAFF

3906 02 ARR ARR GONZALEZ-ALL

3907 03 ARR ARR CHRISTIAN K

**NUR 235 Nursing Skills Laboratory 1**

Lab Fee: $188.20

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). Content will expand upon theoretical nursing knowledge taught in NUR 210 and previously completed nursing courses. Prerequisites: Admission into the Level II ADN program.

3942 01 ARR ARR 1731 GONZALEZ-ALL

Two hours arranged per week. Graded on a pass/fail basis.

**Nutrition**

**NUTR&101 Nutrition 5**

Lab Fee: $10.00

This introductory course in nutrition will focus on current ideas in nutrition and areas of research. This class will present information on the chemistry and the biological function of nutrients in the body. Diseases associated with an excess or deficit in nutrients will also be explored. Students will acquire a better understanding of some impacts of food choices on a personal level. Prerequisite: Completion of ENGL 099 or placement in ENGL& 101. NS

3980 01 MTWTh 10:30AM-11:35AM 1910 WELCH C

3985 OL1 ARR ARR HALEY G

Students listen to mini lectures of course material, participate in class discussions, & submit assignments & quizzes online. Major tests are proctored at the BBCC Testing Center or an approved alternate location. Online fee is $10.

**Philosophy**

**PHIL&101 Intro to Philosophy 5**

This course is an introduction to philosophy for students who have no previous background in the subject. The course presents a broad overview of philosophical topics of interest and importance such as the nature of knowledge and the contents of reality. HU

4200 01 MTWTh 01:00PM-02:05PM 1219 LANE S

**PHIL&120 Symbolic Logic 5**

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. Prerequisites: Math 098 or above. HU/SQR

4214 01 MTWTh 11:45AM-12:50PM 1609 KNEPP D

4216 OL1 ARR ARR KNEPP D

Online fee is $10.

**Physical Education**

**PEH 090 Recreational Gym 0**

Community Ed Fee: $31.50

This activity permits the use of BBCC Gym facilities during available hours by individuals who are not students registered at BBCC. Must be 18 years of age to enroll in recreational gym. Community service class.

4302 21 ARR ARR 2014 DE HOOG M

**PEH 100 Lifetime Wellness 3**

Lifetime Wellness is designed to promote the student's understanding of their physical, emotional, and social health needs, and to develop strategies to meet these needs and improve overall health and well-being.SE

4310 01 MTW 11:45AM-12:50PM 1910 STAFF

4311 OL1 ARR ARR NICHOLS L

Online fee is $10.

4312 OL2 ARR ARR NICHOLS L

Online fee is $10.

**PEH 107 Theory Of Volleyball 3**

A practical course relating to the coaching aspect of volleyball. Emphasis is placed on teaching/coaching strategies, the body mechanics of the athlete, evaluation methods, and the organization of a softball program. SE

4334 01 MTW 10:30AM-11:40AM 2014 NAGY J

**PEH 119 Fast Pitch 1**

Lab Fee: $4.20

Fast Pitch is designed to improve the student's softball skills/knowledge so to participate successfully and enjoyably in the team activity of softball. May be repeated for up to three (3) credits. AC

4349 01 MTWTh ARR 2014 MOFFITT R

Meet your instructor in the gym on Monday, September 19, from 9:00 a.m. to Noon or by appointment. A minimum of 2 activity hours must be completed weekly in order to successfully complete this class. For appointments call Coach Moffitt at 793.2233.

**PEH 125 Conditioning 1**

Lab Fee: $4.20

Conditioning is designed to introduce the student to the basic principles and training methods for body conditioning so they can establish an exercise program to enhance overall wellbeing. May be repeated for up to three (3) credits.AC

4360 01 MW 04:00PM-05:00PM 2014 POTH M

4361 02 TTh ARR 2014 WILKS P

Meet your instructor in the gym on Monday, September 19, from 1:15-2:00 p.m. or by appointment. A minimum of 2 activity hours must be completed weekly in order to successfully complete this class.

4362 03 ARR ARR 2012 DOUMIT P

Meet your instructor in the gym on Monday, September 19, from 1:00-2:00 p.m. or by appointment. A minimum of 2 activity hours must be completed weekly in order to successfully complete this class.

4363 04 ARR ARR 2012 NAGY J

Meet your instructor in the gym on Tuesday, September 20 from 1:00-2:00 p.m. or by appointment. A minimum of 2 activity hours must be completed weekly in order to successfully complete this class. Instructor can be reached at 793.2232.

**PEH 133 Weight Training 1**

Lab Fee: $4.20

Weight training is designed to enhance the student's knowledge and practices regarding the basic techniques of weight training using weight machines and free weights. May be repeated for up to three (3) credits.AC

4374 01 MW 08:00AM-08:50AM 2012 STAFF

4375 02 MW ARR 2012 WILKS P

Meet your instructor in the gym on Monday, September 19, from 1:15-2:00 p.m. or by appointment. A minimum of 2 activity hours must be completed weekly in order to successfully complete this class.

4376 03 ARR ARR 2012 DE HOOG M

Meet your instructor in the gym on Monday, September 19, in room 2005. A minimum of 2 activity hours must be completed weekly in order to successfully complete this class.

4377 04 TTh ARR 2012 MOFFITT R

Meet your instructor in the gym on Monday, September 19, from 9:00 a.m. to Noon or by appointment. A minimum of 2 activity hours must be completed weekly in order to successfully complete this class. For appointments call Coach Moffitt at 793.2233.

4378 05 ARR 04:00PM-05:00PM 2012 DOUMIT P

Meet your instructor in the gym on Monday, September 19, from 1:00-2:00 p.m. or by appointment. A minimum of 2 activity hours must be completed weekly in order to successfully complete this class.

**PEH 155 Body Toning 1**

Lab Fee: $4.20

This course involves special exercise and calisthenics which enhance total fitness, figure improvement, body toning, weight control, and posture. Students will use balance/fitness balls and light to medium dumbbells to improve overall core strength and balance of the body. May be repeated for up to three (3) credits. AC

4390 01 MW 10:30AM-11:20AM 2015 NIELSEN C

4392 02 MW 11:45AM-12:35PM 2015 NIELSEN C

4393 03 TTh 11:45AM-12:35PM 2015 NIELSEN C

4394 26 ARR ARR GRAHAM M

Section 26 will be taught at Jazzercise, 824 W 3rd Ave, Moses Lake. Students enrolling in this section will pay Jazzercise for sessions. Contact Mary Graham at 765.4581 for enrollment information.

**Physics**

**PHYS&221 Engineering Physics I w/Lab 5**

Lab Fee: $29.60

The course is an introductory physics course intended for students majoring in science or engineering. This course is the first of a three-quarter sequence. Course content includes the laws of motion, energy, momentum, and static equilibrium. Prerequisite: MATH& 151 or concurrent enrollment. LS

4458 01 MTWTh 09:30AM-10:20AM 1217 HAMM J

Lab T 02:15PM-04:15PM 1217 HAMM J

4460 02 MTWTh 11:45AM-12:35PM 1217 HAMM J

Lab T 04:30PM-06:30PM 1217 HAMM J

**Political Science**

**POLS&202 American Government 5**

From the constitutional convention in Philadelphia (1788) to the most recent presidential elections, this course explores American politics and governmental functions. The focus is on the interaction and structure of the executive, legislative, and judicial branches of the national government, and a survey of the philosophic foundations for the American governmental system. SS

4501 01 MTWTh 01:00PM-02:05PM 1103 RILEY C

Section 01: This class includes the use of a Canvas online class site in addition to the traditional classroom. Students will report to the above referenced classroom on the first day of class for additional information.

4502 02 MTWTh 01:00PM-02:05PM 1103 RILEY C

Section 02: This class includes the use of a Canvas online class site in addition to the traditional classroom. Students will report to the above referenced classroom on the first day of class for additional information.

4503 03 MTWTh 01:00PM-02:05PM 1103 WAITES W

Section 03: This class includes the use of a Canvas online class site in addition to the traditional classroom. Students will report to the above referenced classroom on the first day of class for additional information.

**POLS&203 International Relations 5**

An introduction to American foreign policy and global relations, including historical backgrounds, current struggles, and the move toward globalization in the post-cold-war world. SS

4505 01 MTWTh 10:30AM-11:35AM 1103 RILEY C

Section 01: This class includes the use of a Canvas online class site in addition to the traditional classroom. Students will report to the above referenced classroom on the first day of class for additional information.

4506 02 MTWTh 10:30AM-11:35AM 1103 WAITES W

Section 02: This class includes the use of a Canvas online class site in addition to the traditional classroom. Students will report to the above referenced classroom on the first day of class for additional information.

**Psychology**

**PSYC&100 General Psychology 5**

A broad survey course designed to study human behavior with reference to biology, learning, motivation, emotion, perception, intelligence, human development, mental processes, personality, abnormal behavior, and research. SS

4552 01 MTWTh 08:00AM-09:05AM 1601 STAFF

4555 02H MTWTh 01:00PM-02:05PM 1609 LEONARD R

Section 02H incorporates traditional class time & a distance-education component. Typically the class will only meet two days per week with the other two days watching lectures & completing assignments. Attend the first day of scheduled class for more information. Online fee is $10.

4556 03W Sa 12:00PM-02:00PM 1609 FARMAN

4558 OL1 ARR ARR LEONARD R

Section OL1: All course work for this class will be completed online through Canvas. Students need to have access to a reliable internet connection. Check your Big Bend email the week before classes for log-in information and further course instructions. Online fee is $10.

4559 OL2 ARR ARR LEONARD R

Section OL2: All course work for this class will be completed online through Canvas. Students need to have access to a reliable internet connection. Check your Big Bend email the week before classes for log-in information and further course instructions. Online fee is $10.

**PSYC&200 Lifespan Psychology 5**

This course examines the physical, intellectual, emotional, and social growth and development that occurs throughout the human lifespan. Prerequisite: PSYC& 100. SS

4578 01 MW 10:30AM-12:50PM 1601 HOLLIWAY D

Section 01 incorporates traditional class time and a distance education component. Students need to have access to a reliable internet connection. Check your Big Bend email the week before classes & attend the first day of scheduled class for further instructions.

4580 OL1 ARR ARR STAHELSKI A

Section OL1: All course work for this class will be completed online through Canvas. Students need to have access to a reliable internet connection. Check your Big Bend email the week before classes for log-in information and further course instructions. Online fee is $10.

**Religious Studies**

**REL 201 World Religions 5**

A survey of the origin, development and present beliefs and practices of the world's major religions: Hinduism, Buddhism, Confucianism, Taoism, Judaism, Christianity and Islam. HU

4606 01 MTWTh 01:00PM-02:05PM 1601 SCHAADT J

**Medical Simulation**

**SIM 110 Fundamentals of SIM Programming 2**

Lab Fee: $177.00

This course covers basic concepts of simulation hardware and software in order to address the impact of hardware design on applications and systems software. Specifically, students will focus on simulation theory as it applies to the basic components and application of simulation equipment and software. Student must pass this course with a minimum 2.0 grade in order to be applied to degree completion.

4618 01H ARR ARR 1701 STAFF

Students need to have access to a reliable computer and Internet connection as this is a hybrid (online and face-to-face) course. Online fee is $10.

**SIM 130 Introduction to Medical Simulation 5**

Lab Fee: $177.00

By engaging in hands-on training, students will learn to prepare, rehearse, and implement Basic Life Support (BLS) simulated training scenarios. Additionally, this course will strengthen an understanding of basic programming and maintenance for high and low fidelity manikins while concurrently developing team dynamics, problem solving, and critical thinking skills. Student must pass this course with a minimum 2.0 grade in order to be applied to degree completion.

4622 01H ARR ARR 1701 STAFF

Students need to have access to a reliable computer and Internet connection as this is a hybrid (online and face-to-face) course.

**Social Work**

**SOCW 110 Introduction to Social Work 5**

This course is a general introduction to the history of social work, the issues social workers encounter, the systems in which social workers work, the theories and practices social workers utilize, as well as the services they provide across the varying field of practice.

4636 01W Sa 09:00AM-11:30AM 1855A STAFF

Students need to have access to a reliable computer and Internet connection as this is a hybrid (online and face-to-face) course. Online fee is $10.

**Sociology**

**SOC& 101 Intro to Sociology 5**

Sociology is the scientific study of human groups and their social systems. Sociologists study how groups are organized and structured, their character and interaction, how groups change, and their impact on individuals. The course focuses on applying the "sociological imagination" which in turn helps students understand and appreciate different societies and cultures both contemporary and historical. Prerequisites: There are no prerequisites. Strongly recommended placement in MATH 095 or higher and placement in English 099 or higher. SS

4640 01 MTWTh 09:15AM-10:20AM 1609 GARDNER K

4643 OL1 ARR ARR HOLLIWAY D

Section OL1: All coursework for this class will be completed online through Canvas. Students need to have access to a reliable Internet connection. Check your Big Bend email the week before classes for log-in information and further instructions. Online fee is $10.

4645 OL2 ARR ARR TATE-LIBBY J

Section OL1: All coursework for this class will be completed online through Canvas. Students need to have access to a reliable Internet connection. Check your Big Bend email the week before classes for log-in information and further instructions. Online fee is $10.

**SOC& 201 Social Problems 5**

A sociological analysis of the major social problems facing both the United States and the world today. Among the topics analyzed are: Family disorganization, social deviance, poverty, crime, over population and environmental degradation. Strongly recommend placement in MATH 095 or higher and placement in ENGL 099 or higher. SS

4655 01 MTWTh 02:15PM-03:20PM 1611 HOLLIWAY D

**Spanish**

**SPAN&121 Spanish I 5**

Lab Fee: $5.00

Beginning Spanish language and culture taught using a communicative approach. Through the use of drama and themes, this course focuses on listening, speaking, reading and writing skills and the culture of the Spanish-speaking world.HU

4700 01 MTWTh 10:30AM-11:35AM 1604 LEAVITT A

4701 02 MTWTh 01:00PM-02:05PM 1604 LEAVITT A

4704 21 MW 06:00PM-08:30PM 1604 MCLAUCHLAN N

**SPAN&122 Spanish II 5**

Lab Fee: $5.00

Beginning Spanish language and culture taught using a communicative approach. Through the use of drama and themes, this course focuses on listening, speaking, reading and writing skills and the culture of the Spanish-speaking world. Prerequisite: SPAN& 121. HU

4710 01 MTWTh 09:15AM-10:20AM 1604 LEAVITT A

4714 21 MW 06:00PM-08:30PM 1604 MCLAUCHLAN N

**SPAN&123 Spanish III 5**

Lab Fee: $5.00

Beginning Spanish language and culture taught using a communicative approach. Through the use of drama and themes, this course focuses on listening, speaking, reading and writing skills and the culture of the Spanish-speaking world. Prerequisite: SPAN& 122. HU

4726 21 MW 06:00PM-08:30PM 1604 MCLAUCHLAN N

**Welding**

**WLD 110 Welding Theory I 5**

General introduction to industrial welding and cutting. Safety rules of oxy-fuel, electric welding processes, principles, and electrodes.

4830 01 MTWTh 09:15AM-10:20AM 3401 MCDANIEL S

4832 21 MTWTh 05:30PM-06:35PM 3401 GILBERT C

**WLD 111 Welding Process I 3- 6**

Lab Fee: $72.00

*Variable Credit Lab Fees are calculated at the highest rate*

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.

4840 01 MTWTh 12:30PM-03:00PM 3403 MCDANIEL S

Instructor permission required.

4843 02W Sa 08:00AM-02:30PM 3403 GILBERT C

4845 21 MW 06:35PM-09:35PM 3403 GILBERT C

4847 22 TTh 06:35PM-09:35PM 3403 GILBERT C

**WLD 112 Thermal Cutting and Welding 3**

Lab Fee: $36.00

Various techniques of steel cutting with oxy-fuel, air carbon arc, plasma arc processes and oxy-acetylene welding and brazing with various metals.

4855 01 MTWTh 10:25AM-11:45AM 3403 MCDANIEL S

Instructor permission required.

4857 02W Sa 08:00AM-02:30PM 3403 GILBERT C

4860 21 MW 06:35PM-09:35PM 3403 GILBERT C

4861 22 TTh 06:35PM-09:35PM 3403 GILBERT C

**WLD 121 Welding Process II 3- 6**

Lab Fee: $72.00

*Variable Credit Lab Fees are calculated at the highest rate*

An introduction to welding open root joints. Students use E6010 to complete open root corner joints out of position and open root plate tests out of position. Students must complete all 6 credits of WLD 121 prior to enrolling in WLD 131. Prerequisite: 6 credits of WLD 111.

4880 01 MTWTh 12:30PM-03:00PM 3403 MCDANIEL S

Instructor permission required.

4882 02W Sa 08:00AM-02:30PM 3403 GILBERT C

4885 21 MW 06:35PM-09:35PM 3403 GILBERT C

4886 22 TTh 06:35PM-09:35PM 3403 GILBERT C

**WLD 122 Gas Metal Arc Welding I 3**

Lab Fee: $36.00

Students will learn to apply the Gas Metal Arc Welding (MIG) process on steel in all positions using the short circuit transfer mode and the spray transfer mode in the flat and horizontal positions. Prerequisite: WLD 112.

4895 01 MTWTh 10:25AM-11:45AM 3403 MCDANIEL S

Instructor permission required.

4897 02W Sa 08:00AM-02:30PM 3403 GILBERT C

4900 21 MW 06:35PM-09:35PM 3403 GILBERT C

4901 22 TTh 06:35PM-09:35PM 3403 GILBERT C

**WLD 130 Welding Theory III 5**

Basic welding blueprint reading and interpretations of conventional drafting, symbology, and specialized welding symbols: basic lines and views, dimensions, welding symbols, abbreviations, and pipe welding symbols, NDT symbols and ISO welding symbols. Prerequisite: WLD 120 or instructor permission

4912 01 MTWTh 04:30PM-05:30PM 3401 GILBERT C

**WLD 131 Welding Process III 3- 6**

Lab Fee: $72.00

*Variable Credit Lab Fees are calculated at the highest rate*

Using E-7018 electrodes, weld corner joints, bevel plates in all positions and ASME and WABO performance certification tests. Evening and weekend classes are 3 credits. These three credit courses may be repeated for credit up to six credits. Prerequisite: 6 credits of WLD 121

4920 01 MTWTh 12:30PM-03:00PM 3403 MCDANIEL S

Instructor permission required.

4922 02W Sa 08:00AM-02:30PM 3403 GILBERT C

4924 21 MW 06:35PM-09:35PM 3403 GILBERT C

4925 22 TTh 06:35PM-09:35PM 3403 GILBERT C

**WLD 132 Gas Tungsten Arc Welding I (TIG) 3**

Lab Fee: $36.00
Students will learn to apply the Gas Tungstenl Arc Welding (TIG) process on steel and aluminum. short circuit transfer mode . Prerequisite: WLD 122

4935 01 MTWTh 10:25AM-11:45AM 3403 MCDANIEL S

Instructor permission required.

4938 02W Sa 08:00AM-02:30PM 3403 GILBERT C

4941 21 MW 06:35PM-09:35PM 3403 GILBERT C

4942 22 TTh 06:35PM-09:35PM 3403 GILBERT C

**WLD 151 Technical Drawings Interpretation 3**

Basic technical drawings interpretation skills for welding engineering to develop abilities in reading and understanding technical drawings; emphasis on visualization and sketching of multi-view, isometric, schematic and pictorial drawings. Tech Prep credit available. Prerequisite: MAP 101 or instructors permission

4950 01 MTW 03:15PM-04:30PM 3401 MCDANIEL S

**WLD 190 Skill Improvement 1- 6**

Lab Fee: $72.00

*Variable Credit Lab Fees are calculated at the highest rate*

Extra welding time and instruction to enhance student's welding skills and/or update their qualification for testing. This is an open enrollment course offered throughout each quarter. May be repeated for credit; graded on pass-fail basis. Prerequisite: instructor approval.

4980 01 MTWTh 10:25AM-11:45AM 3403 MCDANIEL S

4981 02 MTWTh 12:30PM-03:00PM 3403 MCDANIEL S

4983 03W Sa 08:00AM-02:30PM 3403 GILBERT C

4986 21 MW 06:35PM-09:35PM 3403 GILBERT C

4987 22 TTh 06:35PM-09:35PM 3403 GILBERT C

**WLD 205 Weld Testing Methods 4**

Lab Fee: $48.00

Upon successful completion of the course the student will understand the various methods used to test welds. Students will be capable of applying a variety of destructive tests to asses the soundness, ductility, and strength of various weldments. Students will also have a working knowledge of the common methods used in industry to non-destructively examine weldments for acceptability. Prerequisite: WLD 130 or instructors permission.

4995 01 MTWTh 08:00AM-09:05AM 3403 MCDANIEL S

**WLD 212 Gas Metal Arc Welding II 3**

Lab Fee: $36.00

Students will learn to apply both types of Flux core arc welding process on steel and perform Gas Metal Arc Welding on aluminum and stainless steel. Prerequisite: WLD 132

5025 01 MTWTh 10:25AM-11:45AM 3403 MCDANIEL S

5027 02W Sa 08:00AM-02:30PM 3403 GILBERT C

5029 21 MW 06:35PM-09:35PM 3403 GILBERT C

5030 22 TTh 06:35PM-09:35PM 3403 GILBERT C

**WLD 241 Structural Weld Process I 6**

Lab Fee: $72.00

This course focuses on student learning of structural connection mockups applying the Shielded Metal Arc and Flux Cored Arc Welding processes. Evening and weekend classes are 3 credits. Students must complete all 6 credits prior to enrolling in WLD 243. Prerequisite: 6 credits of WLD 131 or instructor approval.

5040 01 MTWTh 12:30PM-03:00PM 3403 MCDANIEL S

5042 02W Sa 08:00AM-02:30PM 3403 GILBERT C

5044 21 MW 06:35PM-09:35PM 3403 GILBERT C

5045 22 TTh 06:35PM-09:35PM 3403 GILBERT C

**WLD 242 Structural Welding I 3**

Lab Fee: $36.00

An introductory course focusing on fabrication of structural weldments utilizing shielded metal arc welding and flux cored arc welding on structural connections. Prerequisite: WLD 212

5050 01 MTWTh 10:25AM-11:45AM 3403 MCDANIEL S

5052 02W Sa 08:00AM-02:30PM 3403 GILBERT C

5054 21 MW 06:35PM-09:35PM 3403 GILBERT C

5055 22 TTh 06:35PM-09:35PM 3403 GILBERT C

**WLD 243 Structural Weld Process II 6**

Lab Fee: $72.00

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. Evening and weekend classes are 3 credits. Prerequisite: WLD 241 or instructor approval.

5060 01 MTWTh 12:30PM-03:00PM 3403 MCDANIEL S

5061 02W Sa 08:00AM-02:30PM 3403 GILBERT C

5062 21 MW 06:35PM-09:35PM 3403 GILBERT C

5063 22 TTh 06:35PM-09:35PM 3403 GILBERT C

**WLD 244 Submerged Arc Welding 3**

Lab Fee: $36.00

This course focuses on student learning of submerged arc welding process which entails an arc that takes place beneath a bed of granular flux. This is a high deposition industrial orientated welding process that is used to manufacture light to heavy weldments. Prerequisite: WLD 242 or instructor permission.

5070 01 MTWTh 10:25AM-11:45AM 3403 MCDANIEL S

5071 02W Sa 08:00AM-02:30PM 3403 GILBERT C

5072 21 MW 06:35PM-09:35PM 3403 GILBERT C

5073 22 TTh 06:35PM-09:35PM 3403 GILBERT C

**WLD 245 Structural Weld Process III 6**

Lab Fee: $72.00

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. Evening and weekend classes are 3 credits. Prerequisite: WLD 241 or instructor approval.

5080 01 MTWTh 12:30PM-03:00PM 3403 MCDANIEL S

5081 02W Sa 08:00AM-02:30PM 3403 GILBERT C

5082 21 MW 06:35PM-09:35PM 3403 GILBERT C

5083 22 TTh 06:35PM-09:35PM 3403 GILBERT C

**WLD 261 Production Weld Process I 6**

Lab Fee: $72.00

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. Evening and weekend classes are 3 credits. Students must complete all 6 credits prior to enrolling in WLD 263. Prerequisite: WLD 131 or instructor approval.

5095 01 MTWTh 12:30PM-03:00PM 3403 MCDANIEL S

5097 02W Sa 08:00AM-02:30PM 3403 GILBERT C

5099 21 MW 06:35PM-09:35PM 3403 GILBERT C

5100 22 TTh 06:35PM-09:35PM 3403 GILBERT C

**WLD 262 Production Welding I 3**

Lab Fee: $36.00

This course focuses on student learning of production welding within a shop setting. Prerequisite: WLD 212 or instructor permission

5105 01 MTWTh 10:25AM-11:45AM 3403 MCDANIEL S

5107 02W Sa 08:00AM-02:30PM 3403 GILBERT C

5109 21 MW 06:35PM-09:35PM 3403 GILBERT C

5110 22 TTh 06:35PM-09:35PM 3403 GILBERT C

**WLD 263 Production Weld Process II 6**

Lab Fee: $72.00

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. Evening and weekend classes are 3 credits. Students must complete all 6 credits prior to registering for WLD 265. Prerequisite: WLD 261 or instructor approval.

5115 01 MTWTh 12:30PM-03:00PM 3403 MCDANIEL S

5117 02W Sa 08:00AM-02:30PM 3403 GILBERT C

5118 21 MW 06:35PM-09:35PM 3403 GILBERT C

5119 22 TTh 06:35PM-09:35PM 3403 GILBERT C

**WLD 264 Advanced Weld Process 3**

Lab Fee: $36.00

An advanced course focusing on student learning of welding processes such as pulsed gas metal arc, pulsed gas tungsten arc, and welding on advanced materials i.e., titanium and inconel. Prerequisite: WLD 262 or instructors permission.

5125 01 MTWTh 10:25AM-11:45AM 3403 MCDANIEL S

5127 02W Sa 08:00AM-02:30PM 3403 GILBERT C

5128 21 MW 06:35PM-09:35PM 3403 GILBERT C

5129 22 TTh 06:35PM-09:35PM 3403 GILBERT C

**WLD 265 Production Weld Process III 6**

Lab Fee: $72.00

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. Evening and weekend classes are 3 credits. Prerequisite: WLD 263 or instructor approval.

5135 01 MTWTh 12:30PM-03:00PM 3403 MCDANIEL S

5137 02W Sa 08:00AM-02:30PM 3403 GILBERT C

5138 21 MW 06:35PM-09:35PM 3403 GILBERT C

5139 22 TTh 06:35PM-09:35PM 3403 GILBERT C

**WLD 281 Pipe Welding I 3- 6**

Lab Fee: $72.00

*Variable Credit Lab Fees are calculated at the highest rate*

Students will be introduced to pipe welding 1G, 2G, 5G, and 6G positions using E-6010 electrodes with schedule 60, 80, 100, 120 and various size pipes. These three credit courses may be repeated for credit up to six credits. Evening and weekend classes are 3 credits. Students must complete all 6 credits prior to enrolling in WLD 283. Prerequisite: WLD 131

5150 01 MTWTh 12:30PM-03:00PM 3403 MCDANIEL S

5152 02W Sa 08:00AM-02:30PM 3403 GILBERT C

5153 21 MW 06:35PM-09:35PM 3403 GILBERT C

5154 22 TTh 06:35PM-09:35PM 3403 GILBERT C

**WLD 282 Gas Tungsten Arc Welding II (TIG) 3**

Lab Fee: $36.00

This course introduces students to carbon steel pipe welding in the 1G, 2G, 5G, and 6G positions using cup walk methods with 1/8" electrodes on various sizes of pipes. Prerequisite: WLD 212 or instructors permission.

5160 01 MTWTh 10:25AM-11:45AM 3403 MCDANIEL S

5162 02W Sa 08:00AM-02:30PM 3403 GILBERT C

5164 21 MW 06:35PM-09:35PM 3403 GILBERT C

5165 22 TTh 06:35PM-09:35PM 3403 GILBERT C

**WLD 283 Pipe Welding II 3- 6**

Lab Fee: $72.00

*Variable Credit Lab Fees are calculated at the highest rate*

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. Evening and weekend classes are 3 credits. Students must complete all 6 credits prior to enrolling in WLD 285. These three credit courses may be repeated for credit up to six credits. Prerequisite: WLD 281

5170 01 MTWTh 12:30PM-03:00PM 3403 MCDANIEL S

5172 02W Sa 08:00AM-02:30PM 3403 GILBERT C

5173 21 MW 06:35PM-09:35PM 3403 GILBERT C

5174 22 TTh 06:35PM-09:35PM 3403 GILBERT C

**WLD 284 Gas Tungsten Arc Welding (TIG) III 3**

Lab Fee: $36.00

Students will gain advanced skills on carbon steel pipe in the 2G, 5G, 6G positions, carbon steel pipe with stainless steel rods, and stainless steel pipe in the 2G, 5G, and 6G positions. Prerequisite: WLD 282 or instructors permission

5180 01 MTWTh 10:25AM-11:45PM 3403 MCDANIEL S

5182 02W Sa 08:00AM-02:30PM 3403 GILBERT C

5184 21 MW 06:35PM-09:35PM 3403 GILBERT C

5185 22 TTh 06:35PM-09:35PM 3403 GILBERT C

**WLD 285 Pipe Welding III 6**

Lab Fee: $72.00

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. Evening and weekend classes are 3 credits. Prerequisite: WLD 283

5190 01 MTWTh 12:30PM-03:00PM 3403 MCDANIEL S

5192 02W Sa 08:00AM-02:30PM 3403 GILBERT C

5193 21 MW 06:35PM-09:35PM 3403 GILBERT C

5194 22 TTh 06:35PM-09:35PM 3403 GILBERT C

**WLD 290 Skill Improvement II 1- 6**

Lab Fee: $72.00

*Variable Credit Lab Fees are calculated at the highest rate*

Extra welding time and instruction to enhance student's welding skills and/or update their qualification for testing. This is an open enrollment course offered throughout each quarter. May be repeated for credit; graded on pass-fail basis. Prerequisite: instructor approval.

5200 01 MTWTh 10:25AM-11:45AM 3403 MCDANIEL S

5201 02 MTWTh 12:30PM-03:00PM 3403 MCDANIEL S

5203 03W Sa 08:00AM-02:30PM 3403 GILBERT C

5204 21 MW 06:35PM-09:35PM 3403 GILBERT C

5205 22 TTh 06:35PM-09:35PM 3403 GILBERT C

**WLD 295 Work Based Learning 1- 6**

A supervised work experience in the welding technology field to enhance the application of classroom instruction and skills and/or area of specialization approved by the program instructor. May be repeated up to twelve (12) credits. Prerequisite(s): Instructor approval and concurrent enrollment in WLD 297.

5210 01 ARR ARR 3400 MCDANIEL S

**WLD 297 Work Based Learning Seminar 1**

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. Co-requisite: WLD 295.

5215 01 ARR ARR 3400 MCDANIEL S