

## Winter Quarter 2012

### 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.

1002 01 MTWTh 01:00PM-02:05PM 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

1012 01 MTWTh 09:15AM-10:20AM 1610 MICHIE L

#### **ACCT&202 Prin of Accounting II 5**

An introduction to the accounting for fixed assets and depreciation, intangible assets, current liabilities, corporations, partnerships, long-term liabilities, statement of cash flows, and financial statement analysis. This course is the second in a three-course series designed for all accounting and business majors. Prerequisite: ACCT& 201. SE

1016 01 MTWTh 10:30AM-11:35AM 1610 MICHIE L

1018 OL1 ARR ARR WILKS P

Online fee is \$10.

### Agriculture

#### **AGR 263 Soils 5**

Introduction to basic concepts of soil science, plant nutrition, and water management. Topics include: soil formation and development, soil structure and composition, physical properties of soils, soils minerals, soil chemistry, soil fertility, soil microorganisms, soil ecology, fertilizers, plant, soil and water relationships and irrigation management.

1136 011 DAILY 10:00AM-10:50AM 1812 GILLESPIE B

This class will be conducted in an interactive audio video format that will be linked to students in Wenatchee.

#### **AGR 272 Sustainable Agriculture and Food Systems 5**

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

1146 011 DAILY 11:00AM-12:00PM 1812 GILLESPIE B

This class will be conducted in an interactive audio video format that will be linked to students in Wenatchee.

## Anthropology

### **ANTH&100 Survey of Anthropology 5**

An introduction to anthropology using the origin and development of humankind and progresses through the physical and cultural growth of our species. Included in the course is a survey of the many interesting subfields in anthropology: Darwin's theory of evolution, fossil humans, genetics, language, non-human primates, human variation, different cultures, the origin of agriculture and the character of early civilization. SS

1180 01 MTWTh 01:00PM-02:05PM 1607 HOLLIWAY D

## Art

### **ART 090 Pottery 0**

Community Ed Fee: \$60.00

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

1200 21 W 06:30PM-08:30PM 1908 JOHANSEN B

Start & end date: 01/11/12 to 02/29/12

### **ART& 100 Art Appreciation 5**

A survey of the visual arts designed to develop appreciation and understanding for daily living and for discussing architecture, painting, sculpture, and other arts. Lectures, slides, movies, and experiments with Art media. Open to all students. HU

1207 OL1 ARR ARR PALKOVIC F

Section OL1: All course work for this class will be completed online through Angel. Students need to have access to a reliable internet connection. Online fee is \$10.

### **ART 102 Design II 5**

An introduction to the study of color theory explored through projects. HP

1218 01 MTWTh 09:00AM-10:20AM 1911 PALKOVIC R

### **ART 105 Drawing II 5**

A continuation in the exploration of drawing with emphasis on technique and interpretation of ideas using various media. HP

1232 01 MW 01:00PM-03:50PM 1906 HAGEL S

### **ART 121 Ceramics I 2-5**

Lab Fee: \$4.75

Experiments and design in clay applied to pottery and sculpture. Work in various hand construction methods, glazing and kiln firing. May be repeated for up to three quarters. Course may be audited with instructor's permission. HP

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

**ART 122      Ceramics II                      2- 5**

Lab Fee: \$4.75

Experiments and design in clay applied to pottery and sculpture. Work in various hand construction methods and in pottery wheel, glazing and kiln firing. May be repeated for up to three quarters. Course may be audited with instructor's permission. Prerequisite: ART 121 HP

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

**ART 123      Ceramics III                      2- 5**

Lab Fee: \$4.75

Experiments and design in clay applied to pottery and sculpture. Work in various hand construction methods and in pottery wheel, glazing and kiln firing. May be repeated for up to three quarters. Course may be audited with instructor's permission. Prerequisite: ART 122 HP

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

**ART 216      Western Art: Ancient to Medieval                      5**

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

1258 01 MTWTh 11:45AM-12:50PM 1911 PALKOVIC R

**ART 230      Painting/Drawing Workshop                      5**

A workshop class designed to allow experimentation with 2D media such as pencil, charcoal, pastels, watercolor, acrylic paint. Prerequisite: None but studio class such as drawing or painting recommended. HP

1285 01 TTh 01:00PM-03:50PM 1906 HAGEL S

**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

1288 01 TTh 01:00PM-03:50PM 1907 PALKOVIC R

**ART 232      Oil Painting II                      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 231 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

1298 01 TTh 01:00PM-03:50PM 1907 PALKOVIC R

## Automotive Technology

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

Lab Fee: \$5.25

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.

1348 01 ARR ARR 3308 WYNDER D

### **AUT 121 Automotive Electrical and Electronic Systems 15**

Lab Fee: \$78.75

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

1352 01 MTWTh 09:00AM-03:00PM 3308 WYNDER D

### **AUT 132 Hydraulic Systems 3**

Lab Fee: \$15.75

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

1366 01 MTWTh 08:00AM-09:00AM 3308 WYNDER D

### **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 WYNDER D

### **AUT 212 Automatic Transmission Repair 9**

Lab Fee: \$47.25

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

1378 01 MTWTh 09:00AM-12:00PM 4103 O'KONEK M

**AUT 213 Automotive Servicing I 6**

Lab Fee: \$31.50

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

1382 01 MTWTh 01:00PM-04:00PM 3307 O'KONEK M

**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 O'KONEK M

**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. All students must attend this course. Prerequisite: Accepted flight student status.

1400 01 ARR ARR 3015 SWEDBURG J

**AVF 112 Private Pilot Ground School 4**

Lab Fee: \$95.00

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 01 ARR ARR 3015 STAFF

**AVF 113 Meteorology 5**

This course is designed for pilots but it is helpful for the non-aviation major to understand the basics of meteorology. A study in the nature of atmosphere, winds, temperature, moisture, air masses and frontal systems, weather forecasting utilizing charts and reports available from FAA FSS's; incorporates techniques for flying in various weather conditions. Prerequisite: AVF 112 or Chief Pilot approval. NS

1410 21 MW 04:10PM-06:35PM 3015 GILLESPIE J

1412 22 TTh 04:00PM-06:25PM 3015 MACDOUGALL J

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

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.

1426 01 MTWTh ARR 3001 SWEDBURG J

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

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

1430 01 MTWTh ARR 3001 SWEDBURG J

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

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

1434 01 MTWTh ARR 3001 SWEDBURG J

**AVF 190 Flight (Alternate) 4**

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

1438 01 MTWTh ARR 3001 SWEDBURG J

**AVF 221 Commercial Pilot Ground School 4**

Preparation for the FAA commercial pilot knowledge test. Includes study of applicable FAR's, accident reporting requirements of the NTSB; basic aerodynamics and the principles of flight; meteorology and the use of weather reports and forecasts; safe and efficient operation of aircraft; weight and balance computations; use of performance charts, performance limitations; use of navigation facilities, ADM judgment and CRM; principles and functions of aircraft systems; maneuvers, procedures and emergency operations; night and high-altitude operations; the National Airspace System. Prerequisite: AVF 113 & AVF 114

1448 21 MW 04:10PM-06:10PM 3016 CRANE G

1450 22 TTh 04:10PM-06:10PM 3016 CRANE G

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

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 J

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

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 J

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

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 J

**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 J

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

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

1488 01 MTWTh ARR 3001 SWEDBURG J

**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 ARR ARR 3001 SWEDBURG J

**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.

1496 01 MTWTh ARR 3001 SWEDBURG J

**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 J

**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.

1508 01 MTWTh ARR 3002 SWEDBURG J

**AVF 290 Flight (Alternate) 4**

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 J

**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.

1550 01 ARR ARR 3200 MASON L

**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      MASON L

**AMT 150      AMT General                      4-16**

Lab Fee: \$168.00

\*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      BORG C

**AMT 151      Airframe Mechanic I                      4-21**

Lab Fee: \$220.50

\*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.

1564 01      MTWTh              ARR                                      3200      BORG C

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

Lab Fee: \$220.50

\*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: \$252.00

\*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.

1574 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 MASON L

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

Lab Fee: \$168.00

\*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. Prerequisite: instructor approval.

1584 01 MTWTh ARR 3200 MOORE D

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

Lab Fee: \$147.00

\*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. Prerequisite: instructor approval.

1588 01 MTWTh ARR 3200 MOORE D

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

Lab Fee: \$168.00

\*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. Prerequisite: instructor approval.

1594 01 MTWTh ARR 3200 MOORE D

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

Lab Fee: \$168.00

\*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 approval.

1598 01 MTWTh ARR 3200 MOORE D

Biology

**BIOL&100 Survey of Biology 5**

Lab Fee: \$16.50

A study of basic biological principles common to all organisms. This course is intended for non-majors who desire a lab science requirement. Topics of study include: basic chemistry of cells, cell structure and function, membrane transport, cell metabolism and division, genetics and gene function, evolution, and ecology. 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 MTWTh 10:40AM-11:30AM 1250 DUVALL K

Lab T 02:15PM-04:15PM 1211 DUVALL K

1601 02 TWTh 11:45AM-12:50PM 1250 RAZO C

Lab M 11:45AM-01:45PM 1211 RAZO C

1602 03H ARR ARR DUVALL K

Lab M 02:15PM-04:15PM 1211 DUVALL K

Section 03H 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&170 Human Biology 5**

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

1606 01 MTWTh 09:15AM-10:20AM 1219 HALEY G

**BIOL&222 Majors Cell/Molecular 5**

Lab Fee: \$16.50

The second 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: structure and function of biological molecules, structure and function of prokaryotic and eukaryotic cells, membrane transport, cell communication, cell metabolism and energetics, cell division, and classical

genetics, human genetics, molecular genetics, gene expression, and biotechnology. Math/Science distribution requirement may not include more than 5 credits from BIOL& 211 and BIOL& 222, although graduation credit can be awarded for both. Related investigations take place in a three-hour lab period each week. NOTE: This majors' biology sequence may be taken in the following order: BIOL& 222, 223, and 221, with instructor's permission. Prerequisite(s): Successful completion of BIOL& 221 with a 2.0 or better and successful completion of either CHEM& 121 or CHEM& 161 with a 2.0 or better, or instructor's permission. NOTE: Students taking only BIOL& 222 as an alternative to BIOL& 211 must have instructor permission and may satisfy the CHEM& 121 prerequisite with recent high school chemistry with a B or better. LS

|      |     |       |                 |      |          |
|------|-----|-------|-----------------|------|----------|
| 1620 | 01  | MTWTh | 09:15AM-10:05AM | 1215 | DUVALL K |
| Lab  |     | Th    | 02:15PM-05:15PM | 1211 | DUVALL K |
| 1621 | 02  | MTWTh | 09:15AM-10:05AM | 1215 | DUVALL K |
| Lab  |     | W     | 02:15PM-05:15PM | 1211 | DUVALL K |
| 1624 | 03H | ARR   | ARR             |      | DUVALL K |
| Lab  |     | Th    | 02:15PM-05:15PM | 1211 | DUVALL K |

Section 03H 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 \$10.

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

Lab Fee: \$16.50

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. LS

|      |     |     |                 |      |          |
|------|-----|-----|-----------------|------|----------|
| 1630 | 01  | MW  | 01:00PM-02:15PM | 1250 | JACOBS B |
| Lab  |     | MW  | 02:30PM-04:30PM | 1209 | JACOBS B |
| 1632 | 02  | MW  | 01:00PM-02:15PM | 1250 | JACOBS B |
| Lab  |     | TTh | 01:00PM-03:00PM | 1209 | JACOBS B |
| 1633 | 03H | ARR | ARR             |      | JACOBS B |
| Lab  |     | MW  | 02:30PM-04:30PM | 1209 | JACOBS B |

Section 03H 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.

|      |     |     |                 |      |          |
|------|-----|-----|-----------------|------|----------|
| 1634 | 04H | ARR | ARR             |      | JACOBS B |
| Lab  |     | TTh | 01:00PM-03:00PM | 1209 | JACOBS B |

Section 04H 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&242 Human A & P 2 5**

Lab Fee: \$16.50

The second quarter of a two-quarter sequence. Includes the structure, function and pathology of the cardiovascular, lymphatic, respiratory, digestive, urinary and reproductive systems. Emphasis will be given to the homeostatic relationships between systems. Four hours of lab per week will be devoted to human autopsy slides, required hands-on experience with cat and organ dissection and experimental procedures in cardiovascular function as well as computer analysis of renal function. Lab is required for credit. Prerequisite(s): A minimum grade of 2.0 in BIOL&241 or equivalent. LS

1636 01 MW 09:15AM-10:30AM 1250 JACOBS B

Lab TTh 09:15AM-11:15AM 1209 JACOBS B

**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

1702 01 MTWTh 08:00AM-09:05AM 1610 GOODRICH K

**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.

1722 01 MTWTh 08:00AM-08:50AM 1601 AUVIL J

1724 02 MTWTh 04:30PM-05:20PM 1610 AUVIL J

**BUS 121 Business English 5**

This Business English course is designed to prepare students for today's offices where clear and concise writing is based on a sound understanding of grammar and is considered to be an essential job skill. Prerequisite: Successful completion of ENGL 098 or placement into ENGL 099.

1728 01 MTWTh 10:30AM-11:35AM 1609 BERRY-GUERIN

1729 02 ARR ARR 1613 BERRY-GUERIN

Section 02: Instructor permission required.

**BUS 161 Business Calculators 2**

Lab Fee: \$8.25

Touch control training on the ten-key electronic display/printing calculator. Basic functions; development of proficiency with proration, percentage, interest, discount, present value, and profit computations. Prerequisite: Math placement of MPC 090 or above.

1750 01 MTWTh 11:45AM-12:35PM 1602 WILKS P

**BUS& 201 Business Law 5**

Introduction to Business Law. Fundamentals of those branches of law that relate closely to regular business transactions to include: torts, contracts, agency, employment, property, bankruptcy, decedent's estates and trusts. SE

1772 01 MTWTh 02:15PM-03:20PM 1610 MICHIE L

**BUS 215 Customer Service 3**

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.

1782 OL1 ARR ARR GEER T

Section OL1: All coursework is completed online. Please check your Big Bend email before classes begin for Getting Started instructions. Online fee is \$10.

**Business Information Management**

**BIM 101 Basic Keyboarding 1- 2**

Lab Fee: \$16.50

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

This course gives emphasis to learning the keyboard; namely, the alphabet and the numbers and symbols.

1806 01 MTWTh ARR 1613 BERRY-GUERIN

Start & end date: 01/04/12 to 02/09/12

1808 02 MTWTh ARR 1613 BERRY-GUERIN

Start & end date: 02/13/12 to 03/15/12

**BIM 102 Document Formatting 1- 4**

Lab Fee: \$33.00

\*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: Keyboarding skills.

1810 01 MTWTh ARR 1613 BERRY-GUERIN

**BIM 104 Advanced Keyboarding 1- 3**

Lab Fee: \$24.75

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

This course focuses on the improvement of speed and accuracy. Prerequisite: BIM 101 or keyboarding skills.

1815 01 MTWTh ARR 1613 BERRY-GUERIN

Start & end date: 01/04/12 to 02/09/12

1816 02 MTWTh ARR 1613 BERRY-GUERIN

Start & end date: 01/04/12 to 02/09/12

This section is not intended for Business Information Management program students.

1818 03 MTWTh ARR 1613 BERRY-GUERIN

Start & end date: 02/13/12 to 03/15/12

1819 04 MTWTh ARR 1613 BERRY-GUERIN

Start & end date: 02/13/12 to 03/15/12

This section is not intended for Business Information Management program students.

**BIM 108 Introduction to Microsoft Applications 3**

Lab Fee: \$20.40

This course is an introduction to the Microsoft Office Suite. Students will learn the principles and underlying concepts of spreadsheets, databases, word processors, multimedia presentations, and browsers. This course is not intended for Business Information Management majors. Prerequisite: None

1820 01 MW 11:45AM-01:00PM 1612 KEENEY M

This course is not designed for Business Information Management program students.

**BIM 109 Internet Communications 1- 3**

Lab Fee: \$24.75

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

This course will teach the functions of email communications and the fundamental use and sharing of Web Applications.

1823 01 MTWTh ARR 1613 BERRY-GUERIN

Start & end date: 01/04/12 to 02/09/12

1824 02 MTWTh ARR 1613 BERRY-GUERIN

Start & end date: 02/13/12 to 03/15/12

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

Lab Fee: \$24.75

\*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. Student 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.

1826 01 MTWTh ARR 1613 BERRY-GUERIN

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

Lab Fee: \$24.75

\*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 01 MTWTh ARR 1 1613 BERRY-GUERIN

**BIM 114 Medical Office Accounts Receivable I 2**

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

1836 21 T 06:00PM-08:00PM 1605 BOYCE L

**BIM 124 Introduction to Spreadsheets w/Microsoft Excel 3**

Lab Fee: \$20.40

This course is an introduction to spreadsheet applications. Students will learn spreadsheet concepts, functions, graphing, and data management. An emphasis is placed on practical applications for business. This course is not intended for Business Information Management majors. Prerequisite: None

1848 01 MW 01:15PM-02:30PM 1612 KEENEY M

This course is not designed for Business Information Management program students.

**BIM 130 Filing 1- 2**

Lab Fee: \$16.50

\*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 BERRY-GUERIN

Start &amp; end date: 01/04/12 to 02/09/12

1851 02 MTWTh ARR 1613 BERRY-GUERIN

Start &amp; end date: 02/13/12 to 03/15/12

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

Lab Fee: \$41.25

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

This course is an in-depth introduction to Microsoft Word 2010. The focus is to learn functions of Word, to apply these functions to business situations, and begin preparing students for the Microsoft Application Specialist exam. Tech Prep credit available. Prerequisite: BIM 102 or instructor approval.

1860 01 MTWTh ARR 1613 BERRY-GUERIN

1862 OL1 ARR ARR BERRY-GUERIN

Section OL1: All coursework is completed online. Please check your Big Bend email before classes begin for Getting Started instructions. Online fee is \$10.

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

Lab Fee: \$49.50

\*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 approval.

1866 01 MTWTh ARR 1613 BERRY-GUERIN

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

Lab Fee: \$41.25

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

Learning the basic functions of Microsoft Office is the focus of this course. This course consists of five modules: Word, Access, Excel, PowerPoint, and Integration. This course is geared to Business Information Management Students. Tech Prep credit available. Prerequisite: BIM 102

1870 01 MTWTh ARR 1613 BERRY-GUERIN

Variable credit class for Business Information Management majors.

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

Lab Fee: \$24.75

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

Students will learn the basic functions of Microsoft Word.

1876 01 MTWTh ARR 1613 BERRY-GUERIN

Start & end date: 01/04/12 to 02/09/12

This course is not designed for Business Information Management program students.

1877 02 MTWTh ARR 1613 BERRY-GUERIN

Start & end date: 02/13/12 to 03/15/12

This course is not designed for Business Information Management program students.

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

Lab Fee: \$24.75

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

Students will learn the basic functions of Microsoft Excel.



1880 01 MTWTh ARR 1613 BERRY-GUERIN

Start & end date: 01/04/12 to 02/09/12

This course is not designed for Business Information Management program students.

1881 02 MTWTh ARR 1613 BERRY-GUERIN

Start & end date: 02/13/12 to 03/15/12

This course is not designed for Business Information Management program students.

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

Lab Fee: \$24.75

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

Students will learn the basic functions of Microsoft Access.

1886 01 MTWTh ARR 1 1613 BERRY-GUERIN

Start & end date: 01/04/12 to 02/09/12

This course is not designed for Business Information Management program students.

1887 02 MTWTh ARR 1613 BERRY-GUERIN

Start & end date: 02/13/12 to 03/15/12

This course is not designed for Business Information Management program students.

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

Lab Fee: \$24.75

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

Students will learn the basic functions of Microsoft PowerPoint.

1890 01 MTWTh ARR 1613 BERRY-GUERIN

Start & end date: 01/04/12 to 02/09/12

This course is not designed for Business Information Management program students.

1891 02 MTWTh ARR 1613 BERRY-GUERIN

Start & end date: 02/13/12 to 03/15/12

This course is not designed for Business Information Management program students.

**BIM 190 Spreadsheets I 1-5**

Lab Fee: \$41.25

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

This course is an in-depth introduction to Microsoft Excel 2010. The focus is to learn functions of Excel, to apply this knowledge to business situations, and to begin preparing students for Microsoft Application Specialist exam.

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|------|-----|-------|-----|------|--------------|
| 1900 | 01  | MTWTh | ARR | 1613 | BERRY-GUERIN |
| 1902 | OL1 | ARR   | ARR |      | BERRY-GUERIN |

Section OL1: All coursework is completed online. Please check your Big Bend email before classes begin for Getting Started instructions. Online fee is \$10.

**BIM 194 Presentations 1- 5**

Lab Fee: \$41.25

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

This is an in-depth Microsoft PowerPoint 2010 course. The focus of this course is to learn presentation functions, to apply this material to business situations, and to prepare students for the Microsoft Application Specialist exam.

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|------|-----|-----|-----|------|--------------|
| 1906 | 01  | ARR | ARR | 1613 | BERRY-GUERIN |
| 1908 | OL1 | ARR | ARR |      | BERRY-GUERIN |

Section OL1: All coursework is completed online. Please check your Big Bend email before classes begin for Getting Started instructions. Online fee is \$10.

**BIM 195 Database Management 1- 5**

Lab Fee: \$41.25

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

This is an introduction to database concepts and to the integration of Access with other data.

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| 1910 | 01 | MTWTh | ARR | 1613 | BERRY-GUERIN |
|------|----|-------|-----|------|--------------|

**BIM 198 Special Topics 1- 5**

Lab Fee: \$41.25

\*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 approval.

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| 1916 | 01 | MTWTh | ARR | 1613 | BERRY-GUERIN |
|------|----|-------|-----|------|--------------|

**BIM 210 Internet 1- 2**

Lab Fee: \$16.50

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

This course will teach the functions of MS Outlook and accessing the Internet.

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|------|----|-------|-----|------|--------------|
| 1920 | 01 | MTWTh | ARR | 1613 | BERRY-GUERIN |
|------|----|-------|-----|------|--------------|

Start & end date: 01/04/12 to 02/09/12

1921 02 MTWTh ARR 1613 BERRY-GUERIN

Start & end date: 02/13/12 to 03/15/12

**BIM 220 Desktop Publishing 1- 5**

Lab Fee: \$41.25

\*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.

1926 01 MTWTh ARR 1612 BERRY-GUERIN

**BIM 261 The Automated Office 5**

Lab Fee: \$41.25

This course is an advanced, integrated office course designed to enable students to work and think independently as office assistants. Prerequisite: BUS 122 and BIM 180. BIM 173 is highly recommended.

1930 01 TTh 01:00PM-03:10PM 1612 TEITZEL P

**BIM 273 Word Processing II 1- 5**

Lab Fee: \$41.25

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

This is an in-depth Microsoft Word 2010 course. Students will learn the advanced functions and how to apply this material to business situations. This course will also help prepare students for the MCAS exam. Prerequisite: BIM 173 or instructor approval.

1938 01 MTWTh ARR 1613 BERRY-GUERIN

1940 OL1 ARR ARR BERRY-GUERIN

Section OL1: All coursework is completed online. Please check your Big Bend email before classes begin for Getting Started instructions. Online fee is \$10.

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

Lab Fee: \$41.25

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

This course is designed to complete sophisticated business projects using the integration capabilities of Microsoft Office. This course consists of five modules--Word, Excel, Access, PowerPoint and Integrated Project. Prerequisite: instructor approval.

1942 01 MTWTh ARR 1613 BERRY-GUERIN

**BIM 290 Spreadsheets II 1- 5**

Lab Fee: \$41.25

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

This is an in-depth Microsoft Excel 2010 course. Students will learn the advanced functions of Excel and will apply this material to business situations. The course will also help prepare students for the Microsoft Application Specialist exam. Prerequisite: BIM 190

1946 01 ARR ARR 1613 BERRY-GUERIN

1948 OL1 ARR ARR BERRY-GUERIN

## Chemistry

### **CHEM&121 Intro to Chemistry 5**

Lab Fee: \$16.50

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(s): Passing grade in MPC 095 or placement in MPC 099. A passing grade in high school chemistry or completion of CHEM& 105 or CHEM& 110 is recommended. LS

1966 01 MTWTh 09:15AM-10:05AM 1218 PETERSON J

Lab T 01:00PM-03:00PM 1216 PETERSON J

1968 02 MTWTh 10:30AM-11:20AM 1218 PETERSON J

Lab T 03:30PM-05:30PM 1216 PETERSON J

### **CHEM&162 General Chem w/Lab II 5**

Lab Fee: \$16.50

The second quarter in a three quarter general chemistry series examining the principles of General Chemistry with the primary emphasis on inorganic chemistry. Topics include: Chemical equilibrium, gas laws, molecular geometry, introduction to solution chemistry (acids and bases, precipitation reactions, redox chemistry), reaction rates and states of matter. Relevance of course material to current practices in chemistry is a fundamental focus. Prerequisite: CHEM& 161 or instructor permission. LS

1990 01 MTWTh 11:45AM-12:35PM 1215 PETERSON J

Lab W 02:15PM-05:15PM 1216 PETERSON J

1992 02 MTWTh 11:45AM-12:35PM 1215 PETERSON J

Lab Th 02:15PM-05:15PM 1216 PETERSON J

## College Success Skills

### **CSS 100 College Survival Skills 3**

A participant in this class will learn to be a more efficient, productive learner. The participant's individual learning style and personality type are identified. Areas of consideration and study include: time management; stress management; listening skills; note taking; memory; mnemonics; reading retention and comprehension; test-taking; test anxiety; math anxiety; the writing process; critical thinking, active learning, and values clarification.

2016 01 MTW 08:00AM-08:50AM 1611 CLAY A

|      |     |     |                 |      |            |
|------|-----|-----|-----------------|------|------------|
| 2018 | 02  | MTW | 09:15AM-10:05AM | 1605 | CLAY A     |
| 2020 | 03  | MTW | 01:00PM-01:50PM | 1801 | ERICKSON G |
| 2022 | OL1 | ARR | ARR             |      | ESPARZA S  |

Online fee is \$10.

**CSS 102 Focus on Success 3**

In this class, students will explore many of the non-academic factors that impact success in college. Increased awareness and practical application will be the logical outgrowth of work in the following areas: career and college course choices; relationships; diversity; values; stress management; substance abuse; sexual decisions; and diet and exercise. In addition, students will develop basic computer literacy as they explore the non-academic factors through a basic understanding of personal computers, word processing operations, email, and use of the internet.

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|------|-----|-----|-----|--|-----------|
| 2056 | OL1 | ARR | ARR |  | HAMMOND D |
|------|-----|-----|-----|--|-----------|

Online fee is \$10.

**CSS 104 Introduction to Computer Literacy 3**

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.

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|------|-----|---|-----------------|------|----------|
| 2064 | 01H | W | 06:00PM-07:00PM | 1802 | DELEON J |
|------|-----|---|-----------------|------|----------|

This class combines online and on ground instruction. For every hour of in class instruction students are expected to complete two additional hours of instruction online. Online fee is \$10.

**Commercial Driver's License**

**CDL 090 CDL Skill Improvement 1**

Lab Fee: \$171.53

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.

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|------|----|-----|-----------------|------|----------|
| 2065 | 01 | WTh | 07:30AM-04:30PM | 1534 | MILLER R |
|------|----|-----|-----------------|------|----------|

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

Lab Fee: \$2918.44

This course provides classroom study, driving instruction and experience. The course prepares students for the CDL driving examination and entry level employment. Prerequisite: Completed Commercial Driver's License (CDL) Program Application with supporting documents.

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| 2070 | 01 | DAILY | 07:30AM-04:00PM | 1534 | MILLER R |
|------|----|-------|-----------------|------|----------|

Start & end date: 01/16/12 to 02/24/12

For application contact Randy Miller at 793.2295 or Julia Gamboa at 793.2045.

## Communications

### **CMST 100 Human Communications 4**

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.

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|------|-----|-------|-----------------|------|------------|
| 2080 | 01  | MTWTh | 08:00AM-08:50AM | 1909 | BECK B     |
| 2082 | 02H | ARR   | ARR             |      | JOHNSTON J |

Most of this class is online with three required on campus meeting dates. Class will meet on campus 1/10 and 3/13 in room 1215 from 4:30 - 6:30 p.m. An additional session will be pre-arranged with the instructor the week of 2/6-2/9. Online fee is \$10.

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

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

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|------|----|----|-----------------|------|---------|
| 2087 | 21 | MW | 04:30PM-06:50PM | 1801 | LEITZ L |
|------|----|----|-----------------|------|---------|

### **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

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|------|-----|-------|-----------------|------|------------|
| 2090 | 01  | MTWTh | 09:15AM-10:20AM | 2032 | POTH M     |
| 2092 | 02  | MTWTh | 09:15AM-10:20AM | 1611 | JACKSON K  |
| 2094 | 03  | MTWTh | 10:30AM-11:35AM | 2032 | POTH M     |
| 2095 | 04  | MTWTh | 10:30AM-11:35AM | 2031 | POTH MITCH |
| 2096 | 05  | MTWTh | 11:45AM-12:50PM | 1801 | CLOSE S    |
| 2098 | 06  | MTWTh | 11:45AM-12:50PM | 2032 | POTH MITCH |
| 2099 | 21H | ARR   | ARR             |      | POTH MITCH |

## Criminal Justice

### **CJ& 101 Intro Criminal Justice 5**

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

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| 2206 | 01 | MTWTh | 02:15PM-03:20PM | 1611 | LEONARD R |
|------|----|-------|-----------------|------|-----------|

This class incorporates both traditional class time and a distance education component. Students need to have access to a reliable internet connection. Attend class on the first day at the above scheduled time for further instructions.

**CJ& 110 Criminal Law 5**

This course is an introduction to the criminal law system of the United States. Issues covered include: the historical evolution of the law, applications of criminal law, legal concepts underlying the law and the procedures under which criminal law violators are processed. Prerequisite: CJ& 101. SE

2216 OL1 ARR ARR LEONARD R

All course work for this class will be completed online through Angel. 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.

**Early Childhood Education**

**ECE 105 Health, Safety, and Nutrition 3**

This course will give a practical study of health and safety methods of caring for young children. This class includes assessment, prevention management and emergency management.

2254 21H ARR ARR KIMBALL T

Most of this class is online with four required on campus meeting dates. Class will meet on 1/5, 1/26, 2/16, 3/15 from 5:30-7:30 p.m. Class will meet at the Opportunity Center on 1/5 and 3/15 and in room 1609 on 1/26 and 2/16. Students in ECE 105 will be taught using the I-BEST model of instruction. Two faculty will be co-teaching the class. One faculty member focuses on technical skills, the other on basic and study skills. Students will be required to come to the Opportunity Center on campus 1/5 to complete the CASAS pre-test and again on 3/15 to complete the post-test.

**ECE 108 Infant & Toddler Caregiving 3**

This class is designed for caregivers working with children in the first three years of life. Early care and education professionals will learn about the emerging language of the young child, fostering secure caregiver-child relationships and the importance of culturally responsive partnerships with families. Caregivers will explore how to create safe, nurturing, predictable and culturally responsive environments to support social, emotional, physical and intellectual development in the earliest years.

2262 21H ARR ARR 1611 ROYLANCE M

Most of this class is online with four required on campus meeting dates. Tentative meeting dates: 1/10, 2/7, 3/6, 3/13 from 5:30-7:30 p.m. in room 1611.

**ECE 230 Curriculum, Observation and Assessment 5**

This course includes the planning, implementation and evaluation of teaching in an early childhood classroom through hands-on experience and the use of the Washington State Skill Standards. Students will examine developmentally appropriate practices and guidelines as outlined by the National Association for the Education of Young Children. Prerequisite: ECE 100 or EDUC& 201; Corequisite: Concurrent enrollment in EDUC190.

2300 21H ARR ARR GILES A

Most of this class is online with four required on campus meeting dates. Class will meet on 1/9, 1/23, 2/13, 3/19 from 5:30-7:30 p.m. Class will meet at the Opportunity Center on 1/9 and 3/19 and in room 1609 on 1/23 and 2/13. Students in ECE 230 will be taught using the I-BEST model of instruction. Two faculty will be co-teaching the class. One faculty member focuses on technical skills, the other on basic and study skills. Students will be

required to come to the Opportunity Center on campus 1/9 to complete the CASAS pre-test and again on 3/19 to complete the post-test.

## Economics

### **ECON 200 Introduction to Economics 5**

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 MPC 095 or higher and placement in ENGL 099 or higher. THIS IS NOT A SUBSTITUTE FOR ECON& 201 OR 202. SS

2318 OL1 ARR ARR DONAT G

Section OL1: All course work for this class will be completed online through Angel. 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. Fee is \$10

### **ECON&202 Macro 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 MPC 095 or higher and placement in ENG 099 or higher.

2325 01 MTWTh 08:00AM-09:05AM 1609 PYLE T

## Education

### **EDUC 106 Issues in Child Abuse 1**

An overview of the dynamics and impact of abuse on the behavior and learning of children and adolescents. Includes the role of the educator in prevention and intervention, with an emphasis on strategies for working with children impacted by issues of abuse.

2370 01W Sa 09:00AM-02:30PM 1611 ZAVALA LOPEZ

Class meets 1/28 & 2/4.

### **EDUC 190 Classroom Experience 1- 3**

Lab Fee: \$22.50

Students will assist a classroom teacher from 3-9 hours per week. Teacher and time assignments will be arranged individually. A written evaluation of the experience, an observation/conference by the program supervisor/coordinator, and a documented timesheet will be required. Prerequisite: ECE 100, EDUC& 201 or instructor approval. Students must complete and pass a Washington State Patrol or Department of Early Learning Background Check before being placed in a classroom environment. Tech Prep credit available

2414 01 T 04:00PM-05:00PM 1303 BUNCH J

### **EDUC&201 Intro to Education 3**

Teaching as a career and essential features of preparation for it. Includes a study of the teachers role and function in the school; preparation for professional competencies and certification; the American public school system; and the responsibilities of schools in a democratic society. Prerequisite: Placement in ENGL& 101. SE

2422 OL1 ARR ARR ANDERSON A



All course work for this class will be completed online through Angel. 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.

## English

### **ENGL 010 English Lab 0**

Community Ed Fee: \$42.30

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

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|------|----|-------|-----|------|--------------|
| 2500 | 01 | DAILY | ARR | 1832 | SHUTTL' TH K |
|------|----|-------|-----|------|--------------|

### **ENGL 065 Spelling Improvement 2**

Lab Fee: \$6.60

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.

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|------|----|-------|-----------------|------|--------------|
| 2502 | 01 | MTWTh | 08:00AM-09:05AM | 1817 | SHUTTL' TH K |
|------|----|-------|-----------------|------|--------------|

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| 2503 | 02 | MTWTh | 11:45AM-12:50PM | 1817 | SHUTTL' TH K |
|------|----|-------|-----------------|------|--------------|

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| 2504 | 03 | MTWTh | 02:15PM-03:20PM | 1817 | SHUTTL' TH K |
|------|----|-------|-----------------|------|--------------|

### **ENGL 087 Reading Improvement 3**

Lab Fee: \$9.90

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

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| 2508 | 01 | MTWTh | 08:00AM-09:05AM | 1817 | SHUTTL' TH K |
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|------|----|-------|-----------------|------|--------------|
| 2509 | 02 | MTWTh | 11:45AM-12:50PM | 1817 | SHUTTL' TH K |
|------|----|-------|-----------------|------|--------------|

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|------|----|-------|-----------------|------|--------------|
| 2510 | 03 | MTWTh | 02:15PM-03:20PM | 1817 | SHUTTL' TH K |
|------|----|-------|-----------------|------|--------------|

### **ENGL 093 Basic Writing 3**

Lab Fee: \$9.90

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.

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|------|----|-------|-----------------|------|--------------|
| 2512 | 01 | MTWTh | 08:00AM-09:05AM | 1817 | SHUTTL' TH K |
|------|----|-------|-----------------|------|--------------|

|      |    |       |                 |      |              |
|------|----|-------|-----------------|------|--------------|
| 2513 | 02 | MTWTh | 11:45AM-12:50PM | 1817 | SHUTTL' TH K |
|------|----|-------|-----------------|------|--------------|

|      |    |       |                 |      |              |
|------|----|-------|-----------------|------|--------------|
| 2514 | 03 | MTWTh | 02:15PM-03:20PM | 1817 | SHUTTL' TH K |
|------|----|-------|-----------------|------|--------------|

### **ENGL 095 Writing Improvement 3**

Lab Fee: \$9.90

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.

|      |    |       |                 |      |               |
|------|----|-------|-----------------|------|---------------|
| 2518 | 01 | MTWTh | 08:00AM-09:05AM | 1817 | SHUTTLE' TH K |
| 2519 | 02 | MTWTh | 11:45AM-12:50PM | 1817 | SHUTTLE' TH K |
| 2520 | 03 | MTWTh | 02:15PM-03:20PM | 1817 | SHUTTLE' TH K |

**ENGL 098 Basic English Skills 5**

Lab Fee: \$16.50

This course covers techniques for improving basic writing skills at the sentence, paragraph and essay level. Additional work will be done on improving reading comprehension, enriching vocabulary, and refining computer skills. Prerequisite: placement exam.

|      |    |       |                 |      |            |
|------|----|-------|-----------------|------|------------|
| 2524 | 01 | MTWTh | 09:15AM-10:20AM | 1856 | HAMMOND D  |
| 2525 | 02 | MTWTh | 10:30AM-11:35AM | 1801 | ERICKSON G |

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

Lab Fee: \$16.50

This class is a composition course designed to prepare students for college reading and writing using word processing. Students write personal and academic essays and prepare a writing portfolio. The course includes the study of sentence sense and mechanics, grammar, punctuation, paragraph and essay structure as well as activities that improve reading and vocabulary. Prerequisite: Satisfactory completion of ENGL 098 or placement in ENGL 099 through the English placement exam.

|      |     |       |                 |      |              |
|------|-----|-------|-----------------|------|--------------|
| 2530 | 01  | MTWTh | 08:00AM-09:05AM | 1801 | ERICKSON G   |
| 2532 | 02  | MTWTh | 09:15AM-10:20AM | 1801 | ERICKSON G   |
| 2534 | 03  | MTWTh | 10:30AM-11:35AM | 1856 | HAMMOND D    |
| 2536 | 04  | MTWTh | 11:45AM-12:50PM | 1856 | HAMMOND D    |
| 2538 | 05  | MTWTh | 01:00PM-02:05PM | 1605 | ANDERSON J   |
| 2540 | OL1 | ARR   | ARR             |      | VAN BLARICOM |

Online fee is \$10.

**ENGL&101 English Composition I 5**

Lab Fee: \$16.50

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.

|      |    |       |                 |       |             |
|------|----|-------|-----------------|-------|-------------|
| 2546 | 01 | MTWTh | 08:00AM-09:05AM | 1606  | GUTIERREZ O |
| 2548 | 02 | MTWTh | 09:15AM-10:20AM | 1855B | CLOSE S     |
| 2549 | 03 | MTWTh | 09:15AM-10:20AM | 1855A | STAFF       |

|      |     |       |                 |      |             |
|------|-----|-------|-----------------|------|-------------|
| 2550 | 04  | MTWTh | 10:30AM-11:35AM | 1605 | STAFF       |
| 2552 | 05  | MTWTh | 11:45AM-12:50PM | 1605 | STAFF       |
| 2554 | 06  | MTWTh | 01:00PM-02:05PM | 1606 | GUTIERREZ O |
| 2556 | OL1 | ARR   | ARR             |      | RAMM J      |

Online fee is \$10.

|      |     |     |     |  |             |
|------|-----|-----|-----|--|-------------|
| 2558 | OL2 | ARR | ARR |  | RASMUSSEN P |
|------|-----|-----|-----|--|-------------|

Online fee is \$10.

### **ENGL&102 Composition II 5**

Lab Fee: \$16.50

This advanced composition course provides instruction in academic writing through literary analysis and increases students' exposure to literature. Prerequisite: 2.0 or higher score in ENGL& 101.

|      |     |       |                 |       |             |
|------|-----|-------|-----------------|-------|-------------|
| 2560 | 01  | MTWTh | 08:00AM-09:05AM | 1607  | CARPENTER J |
| 2562 | 02  | MTWTh | 09:15AM-10:20AM | 1607  | CARPENTER J |
| 2563 | 03  | MTWTh | 09:15AM-10:20AM | 1909  | SULLIVAN M  |
| 2565 | 04  | MTWTh | 10:30AM-11:35AM | 1909  | SULLIVAN M  |
| 2566 | 05  | MTWTh | 10:30AM-11:35AM | 1855A | ROBERTSON D |
| 2568 | 06  | MTWTh | 11:45AM-12:50PM | 1855A | ROBERTSON D |
| 2570 | 07  | MTWTh | 01:00PM-02:05PM | 1909  | CLOSE S     |
| 2572 | 21  | MW    | 07:00PM-09:30PM | 1855B | STAFF       |
| 2573 | OL1 | ARR   | ARR             |       | RAMM J      |

Online fee is \$10.

### **ENGL 109 Applied Technical Writing 3**

Lab Fee: \$9.90

The course will prepare technical/vocational students, and others for successful careers in their respective fields by developing skills in written communications commonly used in the workplace. Teaching strategies will address reading, interpreting, planning, organizing, composing, and word-processing technical writing as applied in business and industry. Prerequisite: ENGL 098 or placement in ENGL 099.

|      |    |     |                 |       |            |
|------|----|-----|-----------------|-------|------------|
| 2576 | 01 | MW  | 08:00AM-08:50AM | 1250  | ANDERSON J |
| Lab  |    | TTh | 08:00AM-08:50AM | 1201C | ANDERSON J |

### **ENGL 201 Academic Composition 5**

This advanced writing course focuses on critical thought and composition within academic/professional communities. Published works regarding current affairs, pressing social matters and/or political issues will be

critically read and then written about in a way that meets the expectations of an academic/professional community. Students will write a variety of papers, the last of which will be a researched argument. Must also take a literature class as one of the humanities breadth courses (this option recommended for students planning to transfer to Eastern Washington University and Heritage University). Prerequisite: ENGL& 101. SE(If not used as part of the English composition requirement)

2580 OL1 ARR ARR RASMUSSEN P

Online fee is \$10.

**ENGL 211 Creative Writing: Fiction 5**

A course that allows students to express themselves in story form and to learn the basic techniques of writing fiction. Prerequisite: ENGL& 101 or instructor permission. HU

2590 01 MTWTh 11:45AM-12:50PM 1909 SULLIVAN M

**ENGL 216 Film Study 3**

Viewing of a variety of films on a chosen theme. Discussion and analysis of themes and techniques that have made these films popular and of critical value. May be repeated once. HU

2600 01 T 03:30PM-06:30PM 1601 SULLIVAN M

**ENGL&245 American Literature II 5**

An introduction to American Literature from 1860 to the present. HU

2624 01 MTWTh 10:30AM-11:35AM 1607 CARPENTER J

**ENGL 274 Introduction to Greek Mythology 5**

An overview of the development of Greek mythology. The course deals with the roles of the various gods in Greek mythology, the relationships between gods and men, the significance of the heroes, and the importance of mythology in the development of ideas and values. HU

2656 01 MTWTh 10:30AM-11:35AM 1606 WOLFF D

**Environmental Science**

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

An introduction to the fundamental principles of environmental science. Topics include environmental policy, environmental systems, population and community ecology, biomes, human population growth, soil, food and agriculture, biodiversity and conservation, land use and resource management, air and water quality issues, global climate, renewable and nonrenewable energy sources, waste management, and sustainability. NS

2670 OL1 ARR ARR COBB S

Section OL1: Students submit assignments, participate in discussion forums, and view recorded lectures online; exams are taken at arranged times on campus. Online fee is \$10.

**First Aid**

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

Lab Fee: \$8.25

An Industrial First Aid course and Bloodborne Pathogen course designed to meet the Department of Labor and Industry, OSHA and WISHA requirements. Intended for supervisory personnel, employees, pre-nursing, Pre-Emergency Medical Technicians, and those interested in having first aid and C.P.R. training. This course is recognized in the U.S. and several foreign countries by federal and state agencies and company employers.

2680 01 F 09:00AM-05:00PM 1702 BENKO A

Books are required. Class meets 1/6, 1/13, 1/20.

2681 02 F 09:00AM-05:00PM 1702 BENKO A

Books are required. Class meets 1/27, 2/3, 2/10.

2682 03W Sa 09:00AM-05:00PM 1702 BENKO A

Books are required. Class meets 1/28, 2/4, 2/11.

2683 04 F 09:00AM-05:00PM 1702 BENKO A

Books are required. Class meets 2/17, 2/24, 3/2.

### Geology

#### **GEOL&101 Intro Physical Geology 5**

Lab Fee: \$16.50

Introduction to geology for majors and non-majors; physical applications of geology. Topics include minerals, rock types plate tectonics and deformation, rock and mineral formation, dynamic processes within the earth and the resulting structures and rock types, geologic time, earthquakes and volcanoes, erosion by wind, water and glaciers, and subsequent re-building. Labs will deal with identification of common rocks and minerals, the reading and interpretation of topographic, contour and stratigraphic maps and an over view of the local land form. Prerequisite: MPC 095 or instructor permission. LS

2772 01 MW 02:15PM-03:35PM 1252 MELIN J

Lab TTh 02:15PM-04:15PM 1252 MELIN J

### German

#### **GERM&121 German I 5**

Introduction to the language and culture of the German-speaking world. Skill development in listening, speaking, reading and writing. HU

2780 01 MTWTh 08:00AM-09:05AM 1604 MCCARTHY J

#### **GERM&122 German II 5**

Introduction to the language and culture of the German-speaking world. Skill development in listening, speaking, reading and writing. Prerequisite: GERM& 121 HU

2786 01 MTWTh 08:00AM-09:05AM 1604 MCCARTHY J

#### **GERM&123 German III 5**

Introduction to the language and culture of the German-speaking world. Skill development in listening, speaking, reading and writing. Prerequisite: GERM& 122 or placement in 123. HU

2790 01 MTWTh 08:00AM-09:05AM 1604 MCCARTHY J

### Health Education

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

This is the first of a three-part course sequence in which students examine body structure and functions as well as diseases. This includes the analysis and discussion of the anatomy and physiology of the endocrine system, hemodynamic fluid shift, the heart, urinary system, and reproductive system. Common diagnostic tests/treatments, pharmacological agents, and possible prognoses for common disease processes are included. There is no lab segment.

2800 OL1 ARR ARR SPENCER S

Section OL1: Log onto Angel for all class information. Online fee is \$10.

#### **HED 122 The Human Body and Disease II 5**

This is the second of a three-part course sequence. This includes the analysis and discussion of the anatomy and physiology of the immune system, the lymphatic system, respiratory system, reproductive system, and musculoskeletal system. Sensory, digestive, vascular and skeletal systems will also be covered. Common diagnostic tests/treatments, pharmacological agents, and possible prognoses for common disease processes are included. Prerequisite: HED 121

2810 01 MTWTh 08:00AM-09:05AM 1910 BUNKELMAN J

2812 OL1 ARR ARR FAIRBANKS V

Section OL1: Log onto Angel for all class information. Online fee is \$10.

#### **HED 150 Medical Terminology I 3**

This is the first of a two part course to prepare students to correctly use medical vocabulary. Prerequisite: None

2830 21 TTh 05:30PM-06:50PM 1721 STAFF

2832 OL1 ARR ARR SPENCER S

Section OL1: Log onto Angel for all class information. Online fee is \$10.

#### **HED 151 Medical Terminology II 3**

This is the second of a two part course to prepare students to correctly use medical vocabulary. Prerequisite: HED 150

2840 21 MW 05:30PM-06:50PM 1721 MOTZKUS P

2842 OL1 ARR ARR MANN M

Section OL1: Log onto Angel for all class information. Online fee is \$10.

#### **HED 239 Medical Ethics 2**

This course introduces ethical and legal issues facing medical professionals.

2850 OL1 ARR ARR SEIBOLD K

Section OL1: Log onto Angel for all class information. Online fee is \$10.

## History

### **HIST&117 Western Civilization II 5**

From early modern Europe to the Napoleonic wars in the 19th century, this course examines Western Civilization in transition: the Renaissance and Reformation; commercial expansion into the Americas, Africa, and Asia; absolutism, science, the Enlightenment, and the French Revolution. SS

2906 01 MTWTh 10:30AM-11:35AM 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. Students are encouraged to complete ENGL& 101 prior to taking this class. Strongly recommend placement in MPC 095 or higher and placement in ENGL 099 or higher. SS

2930 01 MTWTh 08:00AM-09:05AM 1608 RILEY C

This class incorporates both traditional class time and a distance education component. Students need to have access to a reliable internet connection. Attend class on the first day at the above scheduled time for further instructions.

2932 02 MTWTh 01:00PM-02:05PM 1608 WAITES W

### **HIST&137 US History 2 5**

From the end of the Civil War to present day, this course examines Reconstruction, the Gilded Age, America's rise to a world power, World War I, the triumph of Modernism, the Depression and New Deal, World War II, the Cold War, the turbulent 1960's, disillusioned 1970's, and the Reagan Revolution. More recent events are examined as ongoing and current events. Students are encouraged to complete ENGL& 101 prior to taking this class. Strongly recommend placement in MPC 095 or higher and placement in ENGL 099 or higher. SS

2936 01 MTWTh 01:00PM-02:05PM 1601 RILEY C

This class incorporates both traditional class time and a distance education component. Students need to have access to a reliable internet connection. Attend class on the first day at the above scheduled time for further instructions.

2938 OL1 ARR ARR RILEY C

All course work for this class will be completed online through Angel. 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.

### **HIST 250 Ancient Greece 5**

A survey course of Greek history, beginning with the first identifiably Greek peoples of the Bronze Age and continuing down through the Dark Ages, the Classical period in Greece, the rise of Macedonia and Alexander the Great and the Hellenistic Age. In addition to the historical developments, we will look at Greek myth and religion, art, philosophy, science and other aspects of Greek culture. SS

2990 01 MTWTh 09:15AM-10:20AM 1609 WAITES W

## Industrial Systems

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

Lab Fee: \$34.00

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 MW 12:30PM-03:30PM 3607 WRIGHT J

**IST 106 Basic Electricity--AC Circuit Analysis 5**

Lab Fee: \$34.00

Teaches alternating current theory, waveform quantities and characteristics, including network analysis with reactive components. Proper use of test equipment and troubleshooting simple circuits. Prerequisite: IST 105-Basic Electricity-DC; MAP 103-Technical Mathematics; or Instructor Permission

3058 01 TTh 12:30PM-03:30PM 3607 WRIGHT J

**IST 112 National Electric Code III 2**

Washington State electrical laws (WAC Codes 296-46, RCW 19.28) and National Electrical Code (NFPA 70) are applied to the working electrician. Prerequisite: IST 111 or instructor permission.

3084 01 MW 02:30PM-03:20PM 3606 AUTRY B

**IST 120 Introduction Preventive/Predictive Maintenance 3**

Lab Fee: \$20.40

Theory and practice of preventive and predictive maintenance concepts. Performing routine preventative maintenance and scheduling predictive maintenance outages. Prerequisite: IST 102-Technical Drawing Interpretation, MAP 103 Applied Mathematics, or instructor permission.

3096 01 TTh 10:20AM-12:00PM 3604 AUTRY B

3098 02 MW 12:30PM-02:10PM 3606 AUTRY B

**IST 136 Introduction to Industrial Boiler Technology 5**

Lab Fee: \$34.00

This course involves the fundamental principles of steam generation, boiler designs, components, operation, water treatment, safety procedures and related steam generation equipment. Prerequisite: IST 107 or instructor permission.

3108 01 MW 09:00AM-12:00PM 3500 AUTRY B

**IST 170 Introduction to Instrumentation 5**

Lab Fee: \$34.00

Fundamentals of process control as it applies to process variables, measurement dynamics, & automatic corrective measures in the industrial environment. Prerequisite: IST 107- Industrial Electricity I or instructor permission.

3120 01 TTh 09:00AM-12:00PM 3606 WRIGHT J

**IST 180 Machining I 5**

Lab Fee: \$34.00



Layout and fabrication techniques with the use of semi-precision and precision measurement tools. Introduction to Drill Press, Engine Lathe and Vertical Mill operations. Prerequisite(s): MAP 103-Applied Mathematics and IST 102- Technical Drawing Interpretation or instructor permission.

3125 01 F 08:00AM-02:30PM 3500 BARRY J

3126 21 TTh 05:00PM-08:00PM 3500 ATRY B

**IST 182 Machining II 5**

Lab Fee: \$34.00

Fundamentals of machining processes on lathes and vertical mills. Precision measurement with micrometers, vernier calipers, and dial indicators. Prerequisite: IST 180- Machining I or instructor permission.

3131 01 F 08:00AM-02:30PM 3500 BARRY J

3132 21 TTh 05:00PM-08:00PM 3500 ATRY B

**IST 184 Machining Skill Enhancement 4**

Lab Fee: \$27.20

Extra "hands on" time and instruction to supplement the students machining skill level using fundamental machining processes on lathes, vertical milling machines and other machine shop equipment. Prerequisite: IST 182-Machining II or instructor permission.

3137 01 F 08:00AM-02:30PM 3500 BARRY J

3138 21 TTh 05:00PM-08:00PM 3500 ATRY B

**IST 223 Electronics III (Industrial) 5**

Lab Fee: \$34.00

Instruction and training in troubleshooting, testing and repairing industrial control devices. Electrical motor drives, instrumentation, and programmable controllers will be covered. Prerequisite: IST 222- Electronics II or instructor permission.

3172 01 MW 09:00AM-12:00PM 3607 ROBERTS J

**IST 250 Programmable Logic Controllers II 5**

Lab Fee: \$34.00

Programmable logic controller principles, hardware and operation, with emphasis on ladder logic, instruction, maintenance and troubleshooting. Prerequisite: IST 150 or instructor permission.

3190 01 TTh 12:30PM-03:30PM 3604 ATRY B

Math

**MATH 010 Math Lab 0**

Community Ed Fee: \$42.30

Permits the use of the Math Lab Computer Resources by non-BBCC students during Math Lab hours.

3300 01 DAILY ARR 1201 BROWN D

**MATH&107 Math in Society 5**

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 all MPC 099 modules or all MPC 093 modules. MS/SQR

3302 OL1 ARR ARR HARBERTS B

Section OL1: Tests are taken on campus. Online fee is \$10.

**MATH 120 College Algebra 5**

Lab Fee: \$16.50

This course will present the student with the basic concepts and applications of college level algebra, introduction to functions, graphing, introduction to probability, and right triangle trigonometry. This course is designed to be a college level, terminal, math course for the liberal arts major and also to prepare the science, engineering or business student for more advanced work. Prerequisite: Appropriate scores in the BBCC Mathematics Assessment or successful completion of MPC 099 or 093. MS/SQR

3312 01 MTWTh 09:15AM-10:20AM 1213 FARAG S

3314 02 MTWTh 11:45AM-12:50PM 1213 FARAG S

**MATH&141 Precalculus I 5**

Lab Fee: \$16.50

This course will present the following concepts: non-linear inequalities, matrices and determinants, polynomial and rational functions, conic sections, theory of equations, sequences and series, mathematical induction. Prerequisite: Appropriate scores in the BBCC Mathematics Assessment or successful completion of MATH 120. MS/SQR

3316 01 MTWTh 09:15AM-10:20AM 1252 WHITNEY B

**MATH&146 Introduction to Statistics 5**

Lab Fee: \$16.50

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 MPC 099 or MPC 091, 092, and 093. MS/SQR

3330 01 MTWTh 08:00AM-09:05AM 1214 LANE S

3332 02 MTWTh 01:00PM-02:05PM 1213 FARAG S

**MATH 147 Finite Mathematics 5**

Lab Fee: \$16.50

This course introduces the student to applications of linear functions in business; applications of matrices to systems of equations, linear programming and optimization, game theory, Markov chains, Leontiff input/output models, etc; introduction to probability and decision analysis. Prerequisite: Appropriate scores in the BBCC Mathematics Assessment or successful completion of MPC 099 or MPC 093. MS/SQR

3340 01 MTWTh 08:00AM-09:05AM 1252 WHITNEY B

**MATH&152 Calculus II 5**

Lab Fee: \$16.50

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

3356 01 MTWTh 10:30AM-11:35AM 1215 ABED S

3358 OL1 ARR ARR ABED S

Students view class lectures online; exams are taken on campus. Online fee is \$10.

**Math (Applied)****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 of MPC 080 or BBCC Math placement score of MPC 090 or above.

3400 21 MW 06:00PM-08:20PM 3606 MATERN S

**MAP 108 Applied Mathematics (MA) 3**

This class provides review and instruction in whole numbers, fractions, ratios, decimals, proportions, percents, measurement and metrics, word problems (fractions, decimals, percentages) tables and graphs as they relate to employment as a Medical Assistant. Prerequisite: Successful completion of MPC 080 or BBCC Math Assessment placement into MPC 090 or above.

3416 21 TTh 05:30PM-06:50PM 1910 STAFF

3418 OL1 ARR ARR STAFF

Online fee is \$10.

**Math (Pre-College)****MPC 080 Basic Mathematics 5**

Review and instruction in whole numbers, decimals, and fractions. Learn strategies to deal with math anxiety and test taking.

3426 01 MTWTh 10:30AM-11:35AM 1212 ERICKSON L

3428 02 MTWTh 11:45AM-12:50PM 1212 ERICKSON L

**MPC 081 Basic Mathematics-Fractions 3**

This course is designed for students who did not make competency in the MPC 080 final, or whose BBCC mathematics placement exam indicated significant problems with fractions. This course provides review,

instruction, and strategies for solving exponents, fractions, and word problems. This class can be taught online or on campus through lecture instruction. Prerequisite: Receiving a score below 70% on a fraction module of the MPC 080 final or receiving a placement into MPC 080 solely because of problems with fractions. Instructor permission required.

3432 01 MTW 01:00PM-01:50PM 1212 ERICKSON L

**MPC 090 Prealgebra 5**

Lab Fee: \$16.50

The study of basic arithmetic and algebraic topics prerequisite to a beginning algebra course including operations with integers, fractions, decimals and percents; order of operations, measurement, the metric system, algebraic expressions, formulas and simple linear equations. Prerequisite: appropriate placement on the BBCC math placement exam.

3436 01 MTWTh 08:00AM-09:05AM 1212 STAFF

3438 02 MTWTh 09:15AM-10:20AM 1910 STAFF

3440 03 MTWTh 10:30AM-11:35AM 1214 MAYER A

3442 04 MTWTh 11:45AM-12:50PM 1219 ABED S

3444 OL1 ARR ARR WALLACE T

Section OL1: Tests are taken on campus. Online fee is \$10.

**MPC 092 Elementary Algebra II 5**

Lab Fee: \$16.50

A continuation of Elementary Algebra I. The study of algebraic factoring, rational expressions, and graphing of linear equations. The advanced study of math classroom survival skills. Prerequisite: Demonstrated competency in MPC 091 and permission of instructor.

3460 01 MTWTh 11:45AM-12:50PM 1201C WALLACE T

**MPC 095A Elementary Algebra 1**

Start & end date: 01/04/12 to 01/18/12

Lab Fee: \$3.30

This course is the study of basic algebraic operations and concepts, and the structure and use of algebra. This includes the solutions to algebraic equations and applications of linear equations to word problems. Prerequisite(s): BBCC placement exam or score of 70% or better on each module of the MPC 090 competency exam.

3475 01 MTWTh 08:00AM-09:05AM 1213 MAYER A

3480 02 MTWTh 09:15AM-10:20AM 1212 ABED S

3485 03 MTWTh 10:30AM-11:35AM 1219 ADAMS S

3490 04 MTWTh 11:45AM-12:50PM 1252 WHITNEY B

3495 05 MTWTh 01:00PM-02:05PM 1252 WHITNEY B

|      |     |       |                 |      |           |
|------|-----|-------|-----------------|------|-----------|
| 3500 | 06  | MTWTh | 02:15PM-03:20PM | 1601 | KNEPP D   |
| 3505 | 21  | TTh   | 07:00PM-09:30PM | 1215 | STAFF     |
| 3510 | OL1 | ARR   | ARR             |      | WALLACE T |

Section OL1: Tests are taken on campus. Online fee is \$2.

**MPC 095B Elementary Algebra 1**

Start & end date: 01/19/12 to 02/01/12

Lab Fee: \$3.30

This course is the study of basic algebraic operations and concepts, and the structure and use of algebra. This includes graphing linear equations, solving applications with linear equations and solving direct and indirect variation problems. Prerequisite(s): BBCC placement exam or competency on MPC 095 module A or continuous enrollment from module A.

|      |     |       |                 |      |           |
|------|-----|-------|-----------------|------|-----------|
| 3476 | 01  | MTWTh | 08:00AM-09:05AM | 1213 | MAYER A   |
| 3481 | 02  | MTWTh | 09:15AM-10:20AM | 1212 | ABED S    |
| 3486 | 03  | MTWTh | 10:30AM-11:35AM | 1219 | ADAMS S   |
| 3491 | 04  | MTWTh | 11:45AM-12:50PM | 1252 | WHITNEY B |
| 3496 | 05  | MTWTh | 01:00PM-02:05PM | 1252 | WHITNEY B |
| 3501 | 06  | MTWTh | 02:15PM-03:20PM | 1601 | KNEPP D   |
| 3506 | 21  | TTh   | 07:00PM-09:30PM | 1215 | STAFF     |
| 3511 | OL1 | ARR   | ARR             |      | WALLACE T |

Section OL1: Tests are taken on campus. Online fee is \$2.

**MPC 095C Elementary Algebra 1**

Start & end date: 02/02/12 to 02/15/12

Lab Fee: \$3.30

This course is the study of basic algebraic operations and concepts, and the structure and use of algebra. This includes working with exponents, multinomial expressions and scientific notation. Prerequisite: BBCC placement exam.

|      |    |       |                 |      |           |
|------|----|-------|-----------------|------|-----------|
| 3477 | 01 | MTWTh | 08:00AM-09:05AM | 1213 | MAYER A   |
| 3482 | 02 | MTWTh | 09:15AM-10:20AM | 1212 | ABED S    |
| 3487 | 03 | MTWTh | 10:30AM-11:35AM | 1219 | ADAMS S   |
| 3492 | 04 | MTWTh | 11:45AM-12:50PM | 1252 | WHITNEY B |
| 3497 | 05 | MTWTh | 01:00PM-02:05PM | 1252 | WHITNEY B |
| 3502 | 06 | MTWTh | 02:15PM-03:20PM | 1601 | KNEPP D   |

|      |     |     |                 |      |           |
|------|-----|-----|-----------------|------|-----------|
| 3507 | 21  | TTh | 07:00PM-09:30PM | 1215 | STAFF     |
| 3512 | OL1 | ARR | ARR             |      | WALLACE T |

Section OL1: Tests are taken on campus. Online fee is \$2.

**MPC 095D Elementary Algebra 1**

Start & end date: 02/16/12 to 02/29/12

Lab Fee: \$3.30

This course is the study of basic algebraic operations and concepts, and the structure and use of algebra. This includes factoring algebraic expressions, solving equations by factoring, and evaluating roots. Prerequisite(s): BBCC placement exam or competency on MPC 095 module C or continuous enrollment from module C.

|      |     |       |                 |      |           |
|------|-----|-------|-----------------|------|-----------|
| 3478 | 01  | MTWTh | 08:00AM-09:05AM | 1213 | MAYER A   |
| 3483 | 02  | MTWTh | 09:15AM-10:20AM | 1212 | ABED S    |
| 3488 | 03  | MTWTh | 10:30AM-11:35AM | 1219 | ADAMS S   |
| 3493 | 04  | MTWTh | 11:45AM-12:50PM | 1252 | WHITNEY B |
| 3498 | 05  | MTWTh | 01:00PM-02:05PM | 1252 | WHITNEY B |
| 3503 | 06  | MTWTh | 02:15PM-03:20PM | 1601 | KNEPP D   |
| 3508 | 21  | TTh   | 07:00PM-09:30PM | 1215 | STAFF     |
| 3513 | OL1 | ARR   | ARR             |      | WALLACE T |

Section OL1: Tests are taken on campus. Online fee is \$2.

**MPC 095E Elementary Algebra 1**

Start & end date: 03/01/12 to 03/15/12

Lab Fee: \$3.30

This course is the study of basic algebraic operations and concepts, and the structure and use of algebra. This includes simplifying rational expressions, setting up and solving proportions, and translating and simplifying dimensional analysis. Prerequisite(s): BBCC placement exam or competency on MPC 095 module D or continuous enrollment from module D.

|      |    |       |                 |      |           |
|------|----|-------|-----------------|------|-----------|
| 3479 | 01 | MTWTh | 08:00AM-09:05AM | 1213 | MAYER A   |
| 3484 | 02 | MTWTh | 09:15AM-10:20AM | 1212 | ABED S    |
| 3489 | 03 | MTWTh | 10:30AM-11:35AM | 1219 | ADAMS S   |
| 3494 | 04 | MTWTh | 11:45AM-12:50PM | 1252 | WHITNEY B |
| 3499 | 05 | MTWTh | 01:00PM-02:05PM | 1252 | WHITNEY B |
| 3504 | 06 | MTWTh | 02:15PM-03:20PM | 1601 | KNEPP D   |
| 3509 | 21 | TTh   | 07:00PM-09:30PM | 1215 | STAFF     |

3514 OL1 ARR ARR WALLACE T

Section OL1: Tests are taken on campus. Online fee is \$2.

**MPC 099A Intermediate Algebra 1**

Start & end date: 01/04/12 to 01/18/12

Lab Fee: \$3.30

A continuation of MPC 095. This course includes solving multipart inequalities, absolute value inequalities and systems of equations in 2 and 3 unknowns and applications with systems of equations. Prerequisite(s): BBCC placement exam or successful completion of all MPC 095 modules.

3525 01 MTWTh 08:00AM-09:05AM 1219 HAMM J

3530 02 MTWTh 09:15AM-10:20AM 1214 LANE S

3535 03 MTWTh 10:30AM-11:35AM 1252 HAMM J

3540 04 MTWTh 11:45AM-12:50PM 1214 LANE S

3545 05 MTWTh 01:00PM-02:05PM 1219 ABED S

3550 21 MW 06:00PM-08:30PM 1215 STAFF

3555 OL1 ARR ARR WALLACE T

Section OL1: Tests are taken on campus. Online fee is \$2.

**MPC 099B Intermediate Algebra 1**

Start & end date: 01/19/12 to 02/01/12

Lab Fee: \$3.30

This course includes simplifying radical and exponential expressions, rationalizing denominators, combining radicals of mixed index and complex numbers. Prerequisite(s): BBCC placement exam or successful completion of all MPC 095 modules.

3526 01 MTWTh 08:00AM-09:05AM 1219 HAMM J

3531 02 MTWTh 09:15AM-10:20AM 1214 LANE S

3536 03 MTWTh 10:30AM-11:35AM 1252 HAMM J

3541 04 MTWTh 11:45AM-12:50PM 1214 LANE S

3546 05 MTWTh 01:00PM-02:05PM 1219 ABED S

3551 21 MW 06:00PM-08:30PM 1215 STAFF

3556 OL1 ARR ARR WALLACE T

Section OL1: Tests are taken on campus. Online fee is \$2.

**MPC 099C Intermediate Algebra 1**

Start & end date: 02/02/12 to 02/15/12

Lab Fee: \$3.30

This course includes simplifying compound fractions, solving quadratic equations using factoring, completing the square, and the quadratic formula, and solving rational and radical equations. Prerequisite(s): BBCC placement exam or successful completion of MPC 099 module B or continuous enrollment.

|      |     |       |                 |      |           |
|------|-----|-------|-----------------|------|-----------|
| 3527 | 01  | MTWTh | 08:00AM-09:05AM | 1219 | HAMM J    |
| 3532 | 02  | MTWTh | 09:15AM-10:20AM | 1214 | LANE S    |
| 3537 | 03  | MTWTh | 10:30AM-11:35AM | 1252 | HAMM J    |
| 3542 | 04  | MTWTh | 11:45AM-12:50PM | 1214 | LANE S    |
| 3547 | 05  | MTWTh | 01:00PM-02:05PM | 1219 | ABED S    |
| 3552 | 21  | MW    | 06:00PM-08:30PM | 1215 | STAFF     |
| 3557 | OL1 | ARR   | ARR             |      | WALLACE T |

Section OL1: Tests are taken on campus. Online fee is \$2.

**MPC 099D Intermediate Algebra 1**

Start & end date: 02/16/12 to 02/29/12

Lab Fee: \$3.30

This course includes applications of quadratic equations. Prerequisite(s): BBCC placement exam or successful completion of MPC 099 module C or continuous enrollment.

|      |     |       |                 |      |           |
|------|-----|-------|-----------------|------|-----------|
| 3528 | 01  | MTWTh | 08:00AM-09:05AM | 1219 | HAMM J    |
| 3533 | 02  | MTWTh | 09:15AM-10:20AM | 1214 | LANE S    |
| 3538 | 03  | MTWTh | 10:30AM-11:35AM | 1252 | HAMM J    |
| 3543 | 04  | MTWTh | 11:45AM-12:50PM | 1214 | LANE S    |
| 3548 | 05  | MTWTh | 01:00PM-02:05PM | 1219 | ABED S    |
| 3553 | 21  | MW    | 06:00PM-08:30PM | 1215 | STAFF     |
| 3558 | OL1 | ARR   | ARR             |      | WALLACE T |

Section OL1: Tests are taken on campus. Online fee is \$2.

**MPC 099E Intermediate Algebra 1**

Start & end date: 03/01/12 to 03/15/12

Lab Fee: \$3.30

This course includes functions, graphing non-linear equation, solving right triangles, simplifying and solving exponential and logarithmic equations, and periodic and continuous interest computations. Prerequisite: BBCC placement exam or successful completion of all MPC 095 modules.

|      |    |       |                 |      |        |
|------|----|-------|-----------------|------|--------|
| 3529 | 01 | MTWTh | 08:00AM-09:05AM | 1219 | HAMM J |
|------|----|-------|-----------------|------|--------|



|      |     |       |                 |      |           |
|------|-----|-------|-----------------|------|-----------|
| 3534 | 02  | MTWTh | 09:15AM-10:20AM | 1214 | LANE S    |
| 3539 | 03  | MTWTh | 10:30AM-11:35AM | 1252 | HAMM J    |
| 3544 | 04  | MTWTh | 11:45AM-12:50PM | 1214 | LANE S    |
| 3549 | 05  | MTWTh | 01:00PM-02:05PM | 1219 | ABED S    |
| 3554 | 21  | MW    | 06:00PM-08:30PM | 1215 | STAFF     |
| 3559 | OL1 | ARR   | ARR             |      | WALLACE T |

Section OL1: Tests are taken on campus. Online fee is \$2.

### Medical Assistant

**MA 112 Clinical Procedures II 4**

Lab Fee: \$30.00

This course builds on and advances the skills learned in Clinical Procedures I. It explores in detail the topics of patient history, patient interviews and documentation, asepsis, infection and disease control, basic physical exams, principles of medical equipment use, emergencies and first aid, and principles of universal precautions for blood and bodily fluids. Prerequisite: MA 111

|      |     |    |                 |      |        |
|------|-----|----|-----------------|------|--------|
| 3566 | 01W | Sa | 08:00AM-03:00PM | 1722 | MANN M |
|------|-----|----|-----------------|------|--------|

### Music

**MUSC&105 Music Appreciation 5**

Music Appreciation is a course designed for students who have not had formal study in music or who wish to supplement performance experience with formal study in structure and history. Emphasis is placed on repeated listening experiences to acquire a thorough knowledge of selected works of music literature. HU

|      |    |       |                 |      |             |
|------|----|-------|-----------------|------|-------------|
| 3606 | 01 | MTWTh | 10:30AM-11:35AM | 1134 | PATTERSON P |
|------|----|-------|-----------------|------|-------------|

**MUSC 114 Mariachi Music Workshop 3**

Through a variety of learning experiences students will be introduced to traditional Mexican Mariachi music. Through reading, listening, singing and playing, students will experience, discover, explore and create music from this rich musical heritage. Students will work as a group in a supervised workshop environment to develop vocal and instrumental performing skills. May be repeated for credit. Prerequisite: None; previous musical experience will be helpful. HP

|      |    |     |                 |      |             |
|------|----|-----|-----------------|------|-------------|
| 3626 | 01 | TTh | 02:15PM-04:25PM | 1134 | PATTERSON P |
|------|----|-----|-----------------|------|-------------|

**MUSC 115 Group Piano I 2**

Group piano instruction for beginners and intermediates. Developmental musicianship. Prerequisite: instructor approval. HP

|      |    |    |                 |      |             |
|------|----|----|-----------------|------|-------------|
| 3630 | 01 | MW | 02:15PM-03:20PM | 1134 | PATTERSON P |
|------|----|----|-----------------|------|-------------|

Additional required hours are set by arrangement. Contact Pat Patterson at 793.2140 for more information.

**MUSC 116 Group Piano II 2**

Group piano instruction for beginners and intermediates. Developmental musicianship. Prerequisite: MUSC 115 or instructor approval. HP

3634 01 MW 03:30PM-04:35PM 1134 PATTERSON P

Additional required hours are set by arrangement. Contact Pat Patterson at 793.2140 for more information.

**MUSC 117 Group Piano III 2**

Group piano instruction for beginners and intermediates. Developmental musicianship. Prerequisite: MUSC 116 or instructor approval. HP

3638 01 MW 03:30PM-04:35PM 1134 PATTERSON P

Additional required hours are set by arrangement. Contact Pat Patterson at 793.2140 for more information.

**MUSC 124 Orchestra I 1**

A community and college orchestra that plays a variety of musical works for both string and full orchestra. One to two performances are given quarterly. Prerequisite: Performance ability on an orchestral instrument. HP

3650 21 M 06:00PM-08:00PM 1134 PATTERSON P

**MUSC 134 Beginning Group Guitar 2**

Beginning group instruction to develop basic proficiency in guitar technique and music reading. Prerequisite: Student must supply guitar. Nylon string classical guitar is preferred. HP

3670 21 TTh 04:45PM-05:50PM 1134 PATTERSON P

Additional required hours are set by arrangement. Contact Pat Patterson at 793.2140 for more information.

**MUSC 170 History of Jazz 5**

A survey course for non-majors and music majors covering the history of the origin of the American music Jazz and it's stylistic development up through the 1990's. The various periods of pre-jazz and jazz are related to social, political and economic forces during the nineteenth and twentieth centuries. Included are the sources of African-American musical forms such as spirituals, work songs, ragtime and blues. Recommended as a humanities elective, as part of African-American cultural history education or as general music education. HU

3720 01 MTWTh 11:45AM-12:50PM 1134 PATTERSON P

**MUSC 215 Group Piano IV 2**

Group piano instruction for intermediates and advanced students. Prerequisite: MUSC 117 or instructor approval. HP

3730 01 MW 03:30PM-04:35PM 1134 PATTERSON P

Additional required hours are set by arrangement. Contact Pat Patterson at 793.2140 for more information.

**MUSC 216 Group Piano V 2**

Group piano instruction for intermediates and advanced students. Prerequisite: MUSC 215 or instructor approval. HP

3734 01 MW 03:30PM-04:35PM 1134 PATTERSON P

Additional required hours are set by arrangement. Contact Pat Patterson at 793.2140 for more information.

**MUSC 224 Orchestra II 1**

A community and college orchestra that plays for community musicals and graduation as well as other functions throughout the year. May be repeated for credit. Prerequisite: MUSC 124 HP

3740 21 M 06:00PM-08:00PM 1134 PATTERSON P

**Nursing****NUR 100 Nursing Assistant 9**

Lab Fee: \$62.91

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. (Compass test score of 40 or above or placement in ENGL 98 or above)

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

\*\*\*\* F ARR ERWIN K

**NUR 103 HIV/AIDS Education 1**

An HIV/AIDS education course designed to meet the Washington State mandatory requirements for health care and childcare providers. Successful completion includes HIV/AIDS education certification.

3808 01H ARR ARR MANN M

Students view videos and take the final on campus; class orientation and assignments are accessed online through Angel. Mandatory in class final at 10:00 a.m. in room 1722 on March 2.

**NUR 115 Beginning Pharmacology Concepts I 1**

This course offers specific in-depth pharmacology information as it relates to common diseases discussed in the Beginning Nursing Concepts Course (NUR 121). Prerequisite: NUR 114

3826 01 ARR ARR 1700 BROOKS J

**NUR 120 Beginning Nursing Concepts I 6**

Focus is on nursing theory as it relates to the adult patient with commonly occurring health conditions, and includes an introduction to the care of the patient in the perioperative and maternal/newborn setting. Professional roles and progression are incorporated in this course. Prerequisite: BIOL& 260, with a 2.0 G.P.A. or above,

3830 01 ARR ARR 1700 ELLISTON J

**NUR 121 Beginning Nursing Practicum I 4**

Lab Fee: \$2.50

Practical application in the clinical setting of nursing theory and skills taught in previous nursing courses and introduced in NUR 120 and NUR 136. Practicum focuses on nursing care to a variety of patients in the medical/surgical, perioperative, and maternal newborn setting. Prerequisite: BIOL&260, with a 2.0 G.P.A. or above.

3834 01 ARR ARR BROOKS J

3835 02 ARR ARR ELLISTON J

3836 03 ARR ARR ASAY M

**NUR 136 Nursing Skills Laboratory 1**

Lab Fee: \$98.80

This course provides for the practice of nursing skills in a controlled setting in order to gain proficiency for delivery of nursing care in the clinical setting (NUR 121). The content is based on theoretical nursing knowledge taught in NUR 120. Prerequisite: BIOL& 260 with a 2.0 G.P.A. or above.

3856 01 ARR ARR 1731 BROOKS J

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

**NUR 220 Advanced Nursing Concepts II 5**

This course continues to focus on expansion of theoretical nursing knowledge related to complex disease states. Delegation and leadership concepts are incorporated in this course. Prerequisite: PSYC& 200, with a minimum 2.0 G.P.A. or above.

3916 01 ARR ARR 1700 GONZALEZ-ALLER

**NUR 221 Advanced Nursing Practicum II 5**

Lab Fee: \$2.50

Clinical focus is on application of principles and skills taught in previous nursing courses and introduced in NUR 220 and NUR 236. Practicum focuses on advanced nursing care to less stable patients in a variety of settings throughout the lifespan. Prerequisite: PSYC& 200 with a minimum 2.0 G.P.A.

3920 01 ARR ARR GONZALEZ-ALLER

3921 02 ARR ARR ELLISTON J

3922 03 ARR ARR BROOKS J

**NUR 236 Nursing Skills Laboratory 1**

Lab Fee: \$98.80

This course provides for the practice of nursing skills in a controlled setting in order to gain proficiency for delivery of patient care in the clinical setting (NUR 221). The content is based on theoretical nursing knowledge taught in NUR 220 and previous courses. Prerequisite: PSYC& 200, with a 2.0 G.P.A. or above.

3946 01 ARR ARR 1731 GONZALEZ-ALLER

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

**Nutrition**

**NUTR&101 Nutrition 5**

An introductory course providing the most up-to-date, accurate and scientifically sound nutrition information focusing on how nutrition and lifestyle choices influence health and disease. Prerequisite: Completion of ENGL 099 or placement in ENGL& 101. NS

|      |     |       |                 |      |             |
|------|-----|-------|-----------------|------|-------------|
| 3980 | 01  | MTWTh | 08:00AM-09:05AM | 1215 | CHRISTIAN M |
| 3982 | 21  | TTh   | 06:30PM-08:50PM | 1252 | STAFF       |
| 3983 | OL1 | ARR   | ARR             |      | CHRISTIAN M |

Section OL1: Students view class lectures, submit assignments, and take exams online. 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. HU

|      |    |       |                 |      |        |
|------|----|-------|-----------------|------|--------|
| 4200 | 01 | MTWTh | 01:00PM-02:05PM | 1214 | LANE S |
|------|----|-------|-----------------|------|--------|

#### **PHIL&106 Intro to Logic 5**

This course is an introduction to the procedures used to evaluate persuasive arguments, including those made in political debates and advertising, and several methods of deductive reasoning. Students will learn how to identify common mistakes and will learn how to analyze more advanced formal arguments. HU/SQR

|      |     |       |                 |      |          |
|------|-----|-------|-----------------|------|----------|
| 4210 | 01  | MTWTh | 09:15AM-10:20AM | 1606 | WOLFF D  |
| 4212 | 21  | TTh   | 04:30PM-06:50PM | 1609 | KNEPP D  |
| 4214 | OL1 | ARR   | ARR             |      | PALMER S |

Online fee is \$10.

|      |     |     |     |  |         |
|------|-----|-----|-----|--|---------|
| 4216 | OL2 | ARR | ARR |  | KNEPP D |
|------|-----|-----|-----|--|---------|

Section OL2 students view class lectures and submit assignments online; exams are taken on campus. Online fee is \$10.

#### **PHIL 210 Ethics 5**

A study of the principal ethical theories and its application to individual and social morality. HU

|      |    |       |                 |      |         |
|------|----|-------|-----------------|------|---------|
| 4222 | 01 | MTWTh | 10:30AM-11:35AM | 1608 | KNEPP D |
| 4224 | 02 | MTWTh | 11:45AM-12:50PM | 1608 | KNEPP D |

### Physical Education

#### **PEH 090 Recreational Gym 0**

Community Ed Fee: \$25.40

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**

A course designed for the person who wishes to gain knowledge in lifetime general fitness. Review of health issues, health behavior, behavior modification, stress, exercise, nutrition, obesity, weight reduction and

maintenance, cancer, cardiovascular health, alcohol, drugs, and sexually transmitted diseases. Discussions will encourage critical thinking in the development of life-long personal wellness. The role of culture will be examined in relationship to health and wellness. SE

4310 01 MTW 01:00PM-01:50PM 1855B STAFF

4312 02 MTW 02:15PM-03:05PM 1855B STAFF

4314 OL1 ARR ARR NICHOLS L

Online fee is \$10.

4315 OL2 ARR ARR NICHOLS L

Online fee is \$10.

**PEH 102 Theory Of Basketball 3**

Designed for students to learn the basic skills required to teach or coach basketball. Emphasis is placed on analyzing fundamentals, gaining knowledge of offensive and defensive strategy and becoming more familiar with the responsibilities of a basketball program. SE

4320 01 MTWTh ARR 2014 POTH M

**PEH 104 Theory Of Women's Basketball 3**

This course is for those students intending to teach or coach women's basketball. Focus is on technical aspects of skilled performance, selection of appropriate teaching and coaching strategies, evaluation of performance and organization of the basketball program. Emphasis will be placed on dealing with problems unique to the female participant. SE

4324 01 MTWTh ARR 2014 WILKS P

Class is open to all students. See instructor on the first day of the quarter for instructions on completing the course.

**PEH 122 Volleyball 1**

Lab Fee: \$3.30

Development of volleyball skills, rules, strategies of play and etiquette through repetitive drills for basics and random drills for long-term learning. May be repeated for up to three (3) credits. AC

4356 01 TTh 12:00PM-12:50PM 2012 DE HOOG M

**PEH 125 Conditioning 1**

Lab Fee: \$3.30

An exercise, running, weight training, and skill related program designed to provide the student with the knowledge to develop and execute a physical fitness program that will enhance individual fitness levels, health and body proportions. May be repeated for up to three (3) credits. AC

4360 01 ARR ARR 2012 IVERSON J

4362 02 ARR ARR 2012 LINDGREN D

**PEH 131 Circuit Weight Training 1**

Lab Fee: \$3.30

This course includes warm-up, weight lifting at various circuit training stations that incorporates all major muscle groups for 30 seconds to one-minute intervals. May be repeated for up to three (3) credits. AC

|      |    |     |     |      |            |
|------|----|-----|-----|------|------------|
| 4365 | 01 | ARR | ARR | 2012 | POTH M     |
| 4366 | 02 | ARR | ARR | 2012 | WILKS P    |
| 4367 | 03 | ARR | ARR | 2014 | IVERSON J  |
| 4368 | 04 | ARR | ARR | 2012 | LINDGREN D |

**PEH 132 Fitness 1**

Lab Fee: \$3.30

An overall conditioning program with emphasis on developing strength, endurance, flexibility, and cardiovascular conditioning. May be repeated for up to three (3) credits. AC

|      |    |    |                 |      |       |
|------|----|----|-----------------|------|-------|
| 4372 | 01 | MW | 11:45AM-12:35PM | 2013 | STAFF |
|------|----|----|-----------------|------|-------|

**PEH 155 Body Toning 1**

Lab Fee: \$3.30

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  | 11:00AM-11:50AM | 2015 | NIELSEN C |
| 4391 | 02 | TTh | 11:00AM-11:50AM | 2015 | NIELSEN C |
| 4392 | 03 | MW  | 12:00PM-12:50PM | 2015 | NIELSEN C |
| 4393 | 04 | TTh | 12:00PM-12:50PM | 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.

**PEH 158 Racquetball 1**

Lab Fee: \$3.30

Designed to acquaint the student with the basic skills, rules, and knowledge of the sport of racquetball as a lifetime activity. May be repeated for up to three (3) credits. AC

|      |    |    |                 |      |           |
|------|----|----|-----------------|------|-----------|
| 4396 | 01 | MW | 10:30AM-11:20AM | 2013 | DE HOOG M |
|------|----|----|-----------------|------|-----------|

### Physics

**PHYS&100 Physics Non-Sci Majors 4**

Lab Fee: \$16.50

This course is a general survey course for the non-science major. The course helps develop an awareness of the physical concepts which govern our everyday experiences. Topics will include most of the following, depending on class preparation and interest: Newtonian mechanics, heat, wave theory, sound, light, static and current electricity, magnetism, atomic and nuclear physics, relativity. Conceptual reasoning is stressed, with mathematics kept to the level of elementary algebra. Laboratories emphasize concepts learned in lecture, and graphing and data handling techniques are learned. The course is offered primarily to meet Associate in Arts and Science laboratory science requirement. Prerequisite: MPC 095 or placement test. Corequisite: PHYS& 101 LS

4450 01 MTWTh 12:00PM-12:50PM 1217 HAMM J

**PHYS&101 Phys Lab Non-Sci Majors 1**

Corequisite: PHYS& 100. This laboratory course is the companion course to PHYS& 100. LS

4454 01 F 09:00AM-11:00AM 1217 HAMM J

**PHYS&222 Engineering Physics II 4**

Lab Fee: \$16.50

The second in a three-quarter calculus-based sequence in introductory physics intended for students majoring in science or engineering. Course content includes thermodynamics, waves, and optics. Prerequisite: PHYS& 221. Corequisite: PHYS& 232. LS

4466 01 MTWTh 09:15AM-10:05AM 1217 HAMM J

**PHYS&232 Engineering Phys Lab II 1**

This laboratory course is the companion course to PHYS& 222. Co-requisite: PHYS& 222. LS

4470 01 Th 02:15PM-05:15PM 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. SS

4500 01 MTWTh 09:15AM-10:20AM 1608 RILEY C

### 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. Strongly recommend placement in MPC 095 or higher and placement in ENGL 099 or higher. SS

4550 01 MTWTh 09:15AM-10:20AM 1601 HOLLIWAY D

4552 02 MTWTh 01:00PM-02:05PM 1609 LEONARD R

This class incorporates both traditional class time and a distance education component. Students need to have access to a reliable internet connection. Attend class on the first day at the above scheduled time for further instructions.



4554 OL1 ARR ARR LEONARD R

Section OL1: All course work for this class will be completed online through Angel. 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.

4556 OL2 ARR ARR STAFF

Section OL2: All course work for this class will be completed online through Angel. 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.

## 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. This idea that we are all profoundly affected by the society in which we live is called the "sociological perspective or imagination", and it is the guiding light of sociology. Strongly recommend placement in MPC 095 or higher and placement in ENGL 099 or higher. SS

4642 01 MTWTh 10:30AM-11:35AM 1611 HOLLIWAY D

4643 02 MTWTh 11:45AM-12:50PM 1611 BENDTSEN K

4644 03 MTWTh 02:15PM-03:20PM 1609 HOLLIWAY D

**SOC 220 Marriage and Family 5**

A sociological inquiry into the American institution of marriage and family life. The class includes studies of dating, the single life, sexuality, marriage, parenthood, communication, divorce and many other topics relevant to marriage, mating and family life today. Strongly recommend placement in MPC 095 or higher and placement in ENG 099 or higher. SS

4672 01 MTWTh 11:45AM-12:50PM 1606 BECK B

## Spanish

**SPAN&121 Spanish I 5**

Lab Fee: \$41.25

Introduction to the language and culture of the Spanish-speaking world. Skill development in listening, speaking, reading and writing. HU

4702 01 MTWTh 01:00PM-02:05PM 1604 LEAVITT A

**SPAN&122 Spanish II 5**

Lab Fee: \$41.25

Introduction to the language and culture of the Spanish-speaking world. Skill development in listening, speaking, reading and writing. Prerequisite: SPAN& 121 or placement for 122. HU

4710 01 MTWTh 10:30AM-11:35AM 1604 LEAVITT A

4712 02 MTWTh 02:15PM-03:20PM 1604 LEAVITT A

4714 21 MW 07:00PM-09:30PM 1604 MCLAUCHLAN N

**SPAN&123 Spanish III 5**

Lab Fee: \$41.25

Introduction to the language and culture of the Spanish-speaking world. Skill development in listening, speaking, reading and writing. Prerequisite: SPAN& 122 or placement for SPAN& 123. HU

4720 01 MTWTh 09:15AM-10:20AM 1604 LEAVITT A

**Welding**

**WLD 101 Oxy-Acetylene Welding For Auto Technicians 2**

Lab Fee: \$21.00

Fundamentals of oxy-acetylene welding and cutting. Lessons include carbon-steel welding and brazing, aluminum and cast-iron welding and cast-iron welding and oxy-acetylene, plasma arc cutting. Practical knowledge of safety in the use and handling of equipment and compressed gases will be stressed throughout the quarter. Prerequisite: enrollment in Automotive Technology.

4800 01 MW 03:05PM-04:25PM 3403 KAUPP G

**WLD 102 Arc/GMAW Welding For Auto Technicians 2**

Lab Fee: \$21.00

This course covers the fundamentals of the GMAW semi-automatic process for welding carbon steel, stainless steel and aluminum. Using these materials, the student will learn to run stringer beads, butt, lap and 'T' joints, in all positions with various modes of metal deposition and using different gasses. Prerequisite: enrollment in Automotive Technology.

4810 01 TTh 03:05PM-04:25PM 3403 KAUPP G

**WLD 103 Beginning AMT Welding 3**

Lab Fee: \$31.50

Fundamentals of oxy-acetylene welding with carbon steel and aluminum, as well as brazing and braze welding with carbon steel; soldering with stainless steel and carbon steel; Gas Tungsten Arc Welding (GTAW) with aluminum, stainless steel, and carbon steel. This course is FAA approved under 14 CFR Part 147. Prerequisite: Enrollment in AMT 151 or AMT 152.

4820 01 MW 12:25PM-03:00PM 3403 KAUPP G

4822 02 TTh 12:25PM-03:00PM 3403 KAUPP G

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

Lab Fee: \$63.00

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

Introduction to arc welding processes; welding of E-6010 and various kinds and size of electrodes in all positions, manipulative skills including stringer beads and weave beads on plate and joints with AC and DC welding machines. Night students must earn a total of six credits before going on to the next course. These three credit courses may be repeated for credit up to six credits. Tech Prep credit available.

|      |     |       |                 |      |            |
|------|-----|-------|-----------------|------|------------|
| 4840 | 01  | MTWTh | 12:30PM-03:00PM | 3403 | MCDANIEL S |
| 4842 | 02  | ARR   | ARR             | 3403 | MCDANIEL S |
| 4843 | 03W | Sa    | 08:00AM-02:30PM | 3403 | KAUPP G    |
| 4846 | 21  | MW    | 06:35PM-09:35PM | 3403 | KAUPP G    |
| 4848 | 22  | TTh   | 06:35PM-09:35PM | 3403 | KAUPP G    |

**WLD 112 Thermal Cutting and Welding 3**

Lab Fee: \$31.50

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

|      |     |       |                 |      |            |
|------|-----|-------|-----------------|------|------------|
| 4856 | 01  | MTWTh | 10:25AM-11:45AM | 3403 | MCDANIEL S |
| 4858 | 02W | Sa    | 08:00AM-02:30PM | 3403 | KAUPP G    |
| 4860 | 21  | MW    | 06:35PM-09:35PM | 3403 | KAUPP G    |
| 4862 | 22  | TTh   | 06:35PM-09:35PM | 3403 | KAUPP G    |

**WLD 120 Welding Theory II 5**

Fundamentals of G.M.A.W. and F.C.A.W. processes with their related equipment. Shielding gasses, filler materials, and general welding procedures including carbon steel, stainless steel, and aluminum. Learn about steel making, elements, functions of steel, types and various steels and identification numbering system. Prerequisite: Instructor approval

|      |    |       |                 |      |            |
|------|----|-------|-----------------|------|------------|
| 4870 | 01 | MTWTh | 09:15AM-10:20AM | 3401 | MCDANIEL S |
| 4872 | 21 | TTh   | 04:30PM-06:35PM | 3401 | KAUPP G    |

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

Lab Fee: \$63.00

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

Welding open root corner joints and beveled 3/8" plate, using E-6010 electrodes and ASME performance certification plate tests. These three credit courses may be repeated for credit up to six credits. Prerequisite: WLD 111.

|      |     |       |                 |      |            |
|------|-----|-------|-----------------|------|------------|
| 4880 | 01  | MTWTh | 12:30PM-03:00PM | 3403 | MCDANIEL S |
| 4882 | 02W | Sa    | 08:00AM-02:30PM | 3403 | KAUPP G    |
| 4884 | 21  | MW    | 06:35PM-09:35PM | 3403 | KAUPP G    |
| 4886 | 22  | TTh   | 06:35PM-09:35PM | 3403 | KAUPP G    |

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

Lab Fee: \$31.50

Materials of carbon steel and stainless steel with 0.035 solid wire and aluminum with 0.030 solid wires. Various joints and thicknesses of materials welded in all positions, using different modes and gases.

|      |     |       |                 |      |            |
|------|-----|-------|-----------------|------|------------|
| 4896 | 01  | MTWTh | 10:25AM-11:45AM | 3403 | MCDANIEL S |
| 4898 | 02  | ARR   | 12:30PM-03:00PM | 3403 | MCDANIEL S |
| 4900 | 03W | Sa    | 08:00AM-02:30PM | 3401 | KAUPP G    |
| 4902 | 21  | MW    | 06:35PM-09:35PM | 3403 | KAUPP G    |
| 4904 | 22  | TTh   | 06:35PM-09:35PM | 3403 | KAUPP G    |

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

Lab Fee: \$63.00

\*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. These three credit courses may be repeated for credit up to six credits. Prerequisite: WLD 121.

|      |     |       |                 |      |            |
|------|-----|-------|-----------------|------|------------|
| 4920 | 01  | MTWTh | 12:30PM-03:00PM | 3403 | MCDANIEL S |
| 4922 | 02W | Sa    | 08:00AM-02:30PM | 3403 | KAUPP G    |
| 4924 | 21  | MW    | 06:35PM-09:35PM | 3403 | KAUPP G    |
| 4926 | 22  | TTh   | 06:35PM-09:35PM | 3403 | KAUPP G    |

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

Lab Fee: \$31.50

The beginning G.T.A.W. process. Freehand techniques for aluminum, carbon steel, stainless steel, copper, and titanium. Using these materials, running beads, butt, lap, edge, corner and T joints in all positions. Also cup walk motion with 3/8" plate in vertical and horizontal positions.

|      |     |       |                 |      |            |
|------|-----|-------|-----------------|------|------------|
| 4936 | 01  | MTWTh | 10:25AM-11:45AM | 3403 | MCDANIEL S |
| 4938 | 02  | ARR   | 12:30PM-03:00PM | 3403 | MCDANIEL S |
| 4940 | 03W | Sa    | 08:00AM-02:30PM | 3403 | KAUPP G    |
| 4942 | 21  | MW    | 06:35PM-09:35PM | 3403 | KAUPP G    |
| 4944 | 22  | TTh   | 06:35PM-09:35PM | 3403 | KAUPP G    |

**WLD 152 Welding Layout I 3**

Lab Fee: \$31.50

Specialized welding drafting techniques: intersections and developments; patterns for geometric shapes used in cardboard, sheet metal, and structural shapes; fabrication and model construction. Prerequisite: WLD 151.

|      |    |     |                 |      |            |
|------|----|-----|-----------------|------|------------|
| 4960 | 01 | MTW | 03:15PM-04:30PM | 3401 | MCDANIEL S |
| 4962 | 21 | MW  | 04:45PM-06:30PM | 3401 | KAUPP G    |

**WLD 190 Skill Improvement 1- 6**

Lab Fee: \$63.00

\*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  | ARR | ARR             | 3403 | MCDANIEL S |
| 4982 | 02  | ARR | ARR             | 3403 | MCDANIEL S |
| 4984 | 03W | Sa  | 08:00AM-02:30PM | 3403 | KAUPP G    |
| 4986 | 21  | MW  | 06:35PM-09:35PM | 3403 | KAUPP G    |
| 4987 | 22  | TTh | 06:35PM-09:35PM | 3403 | KAUPP G    |

**WLD 206 Welding Codes and Standards 4**

Lab Fee: \$42.00

ASME, AWS, API, and WABO code interpretation of structural steels and testing and inspection of welded structures. Prerequisite: WLD 130

|      |    |       |                 |      |            |
|------|----|-------|-----------------|------|------------|
| 5006 | 01 | MTWTh | 08:00AM-09:05AM | 3401 | MCDANIEL S |
|------|----|-------|-----------------|------|------------|

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

Lab Fee: \$31.50

Flux cored arc welding with carbon steel and stainless steel using 0.045 flux cored wire following A.W.S. and W.A.B.O. procedure code. Various joints, thicknesses of materials in all positions. Also 1" plate W.A.B.O. unlimited field certification test. Prerequisite: WLD 122.

|      |     |       |                 |      |            |
|------|-----|-------|-----------------|------|------------|
| 5026 | 01  | MTWTh | 10:25AM-11:45AM | 3403 | MCDANIEL S |
| 5028 | 02W | Sa    | 08:00AM-02:30PM | 3403 | KAUPP G    |
| 5030 | 21  | MW    | 06:35PM-09:35PM | 3403 | KAUPP G    |
| 5032 | 22  | TTh   | 06:35PM-09:35PM | 3403 | KAUPP G    |

**WLD 241 Structural Weld Process I 6**

Lab Fee: \$63.00

This course focuses on student learning of structural connection mockups applying the Shielded Metal Arc and Flux Cored Arc Welding processes. Prerequisite: WLD 131 or instructor approval.

|      |     |       |                 |      |            |
|------|-----|-------|-----------------|------|------------|
| 5040 | 01  | MTWTh | 12:30PM-03:00PM | 3403 | MCDANIEL S |
| 5042 | 02W | Sa    | 08:00AM-02:30PM | 3403 | KAUPP G    |
| 5044 | 21  | MW    | 06:35PM-09:35PM | 3403 | KAUPP G    |

5046 22 TTh 06:35PM-09:35PM 3403 KAUPP G

**WLD 242 Structural Welding I 3**

Lab Fee: \$31.50

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 or instructor approval.

5050 01 MTWTh 10:25AM-11:45AM 3403 MCDANIEL S

5052 02W Sa 08:00AM-02:30PM 3403 KAUPP G

5054 21 MW 06:35PM-09:35PM 3403 KAUPP G

5056 22 TTh 06:35PM-09:35PM 3403 KAUPP G

**WLD 243 Structural Weld Process II 6**

Lab Fee: \$63.00

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. Prerequisite: WLD 241 or instructor approval.

5060 01 MTWTh 12:30PM-03:00PM 3403 MCDANIEL S

5062 02W Sa 08:00AM-02:30PM 3403 KAUPP G

5064 21 MW 06:35PM-09:35PM 3403 KAUPP G

5066 22 TTh 06:35PM-09:35PM 3403 KAUPP G

**WLD 244 Submerged Arc Welding 3**

Lab Fee: \$31.50

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 approval.

5070 01 MTWTh 10:25AM-11:45AM 3403 MCDANIEL S

5072 02W Sa 08:00AM-02:30PM 3403 KAUPP G

5074 21 MW 06:35PM-09:35PM 3403 KAUPP G

5076 22 TTh 06:35PM-09:35PM 3403 KAUPP G

**WLD 245 Structural Weld Process III 6**

Lab Fee: \$63.00

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. Prerequisite: WLD 241 or instructor approval.

5080 01 MTWTh 12:30PM-03:00PM 3403 MCDANIEL S

|      |     |     |                 |      |         |
|------|-----|-----|-----------------|------|---------|
| 5082 | 02W | Sa  | 08:00AM-02:30PM | 3403 | KAUPP G |
| 5084 | 21  | MW  | 06:35PM-09:35PM | 3403 | KAUPP G |
| 5086 | 22  | TTh | 06:35PM-09:35PM | 3403 | KAUPP G |

**WLD 261      Production Weld Process I                      6**

Lab Fee: \$63.00

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. Prerequisite: WLD 131 or instructor approval.

|      |     |       |                 |      |            |
|------|-----|-------|-----------------|------|------------|
| 5096 | 01  | MTWTh | 12:30PM-03:00PM | 3403 | MCDANIEL S |
| 5098 | 02W | Sa    | 08:00AM-02:30PM | 3403 | KAUPP G    |
| 5100 | 21  | MW    | 06:35PM-09:35PM | 3403 | KAUPP G    |
| 5102 | 22  | TTh   | 06:35PM-09:35PM | 3403 | KAUPP G    |

**WLD 262      Production Welding I                                      3**

Lab Fee: \$31.50

This course focuses on student learning of production welding within a shop setting. Prerequisite: WLD 212 or instructor approval.

|      |     |       |                 |      |            |
|------|-----|-------|-----------------|------|------------|
| 5106 | 01  | MTWTh | 10:25AM-11:45AM | 3403 | MCDANIEL S |
| 5108 | 02W | Sa    | 08:00AM-02:30PM | 3403 | KAUPP G    |
| 5110 | 21  | MW    | 06:35PM-09:35PM | 3403 | KAUPP G    |
| 5112 | 22  | TTh   | 06:35PM-09:35PM | 3403 | KAUPP G    |

**WLD 263      Production Weld Process II                                      6**

Lab Fee: \$63.00

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. Prerequisite: WLD 261 or instructor approval.

|      |     |       |                 |      |            |
|------|-----|-------|-----------------|------|------------|
| 5116 | 01  | MTWTh | 12:30PM-03:00PM | 3403 | MCDANIEL S |
| 5118 | 02W | Sa    | 08:00AM-02:30PM | 3403 | KAUPP G    |
| 5120 | 21  | MW    | 06:35PM-09:35PM | 3403 | KAUPP G    |
| 5122 | 22  | TTh   | 06:35PM-09:35PM | 3403 | KAUPP G    |

**WLD 264      Advanced Weld Process    3**

Lab Fee: \$31.50

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

|      |     |       |                 |      |            |
|------|-----|-------|-----------------|------|------------|
| 5126 | 01  | MTWTh | 10:25AM-11:45AM | 3403 | MCDANIEL S |
| 5128 | 02W | Sa    | 08:00AM-02:30PM | 3403 | KAUPP G    |
| 5130 | 21  | MW    | 06:35PM-09:35PM | 3403 | KAUPP G    |
| 5132 | 22  | TTh   | 06:35PM-09:35PM | 3403 | KAUPP G    |

**WLD 265      Production Weld Process III                      6**

Lab Fee: \$63.00

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. Prerequisite: WLD 263 or instructor approval.

|      |     |       |                 |      |            |
|------|-----|-------|-----------------|------|------------|
| 5136 | 01  | MTWTh | 12:30PM-03:00PM | 3403 | MCDANIEL S |
| 5138 | 02W | Sa    | 08:00AM-02:30PM | 3403 | KAUPP G    |
| 5140 | 21  | MW    | 06:35PM-09:35PM | 3403 | KAUPP G    |
| 5142 | 22  | TTh   | 06:35PM-09:35PM | 3403 | KAUPP G    |

**WLD 281      Pipe Welding I                                      3- 6**

Lab Fee: \$63.00

\*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. Prerequisite: WLD 131

|      |     |       |                 |      |            |
|------|-----|-------|-----------------|------|------------|
| 5150 | 01  | MTWTh | 12:30PM-03:00PM | 3403 | MCDANIEL S |
| 5152 | 02W | Sa    | 08:00AM-02:30PM | 3403 | KAUPP G    |

**WLD 282      Gas Tungsten Arc Welding II (TIG)                      3**

Lab Fee: \$31.50

This course introduces students to carbon steel pipe welding in 1G, 2G, 5G, and 6G positions using cup walk methods with 1/8" electrodes on schedule 60 and other various sizes of pipe. Prerequisite: WLD 132

|      |    |       |                 |      |            |
|------|----|-------|-----------------|------|------------|
| 5160 | 01 | MTWTh | 10:25AM-11:45AM | 3403 | MCDANIEL S |
| 5162 | 02 | MTWTh | 12:30PM-03:00PM | 3403 | MCDANIEL S |

**WLD 283      Pipe Welding II    6**

Lab Fee: \$63.00

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. 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 |
|------|----|-------|-----------------|------|------------|



**WLD 284 Gas Tungsten Arc Welding (TIG) III 3**

Lab Fee: \$31.50

Students will use 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

5180 01 MTWTh 10:25AM-11:45AM 3403 MCDANIEL S

**WLD 285 Pipe Welding III 6**

Lab Fee: \$63.00

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. Prerequisite: WLD 283

5190 01 MTWTh 12:30PM-03:00PM 3403 MCDANIEL S

**WLD 290 Skill Improvement II 1- 6**

Lab Fee: \$31.50

\*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

5202 02 MTWTh 12:30PM-03:00PM 3403 MCDANIEL S

5204 03W Sa 08:00AM-02:30PM 3403 KAUPP G

5206 21 MW 06:35PM-09:35PM 3403 KAUPP G

5208 22 TTh 06:35PM-09:35PM 3403 KAUPP G

**WLD 295 Work Based Learning 1- 6**

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

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.

5216 01 ARR ARR 3400 MCDANIEL S