Fall 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.

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

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

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

1011  01  MTWTh  10:30AM-11:35AM  1610  MICHIE L
1012  OL1  ARR  ARR  WILKS P

Online fee is $10.

**ACCT 261  Intro to Peachtree Accounting  1**

Lab Fee:  $8.60

This course offers an introduction to Peachtree Accounting, one of the accounting software packages for small businesses. Basic functions and capabilities of the software will be reviewed in a hands-on environment. This course is designed for the student with little or no prior experience with Peachtree Accounting. Prerequisite: ACCT& 201 or prior experience in business or accounting.

1055  01  TTh  11:45AM-12:35PM  1602  WILKS P

**ACCT 262  Introduction to Quickbooks   1**

Lab Fee:  $8.60

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

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

Agriculture

**AGR  241  Farm and Ranch Management  5**

Introduction to record keeping, economic concept application and analysis in the production agriculture business. Topics include goal setting, record process, budgeting cash flow, depreciation, profit/loss, ratios, enterprise and investment analysis, partial budgeting and computer/spreadsheet use. Prerequisite: ECON 202

1118  OL1  ARR  ARR  WILLIAMS A

Online fee is $10.
AGR 261  Plant Science  5

Develop an understanding of basic plant morphology and physiology emphasizing horticultural science and fruit tree crops. Topics include form and function of plants, plant metabolism, plant growth and development, reproduction, techniques of fruit tree improvement and plant/environment interaction.

1130  01I  DAILY  11:00AM-12:00PM  1812  STAFF

AGR 295  Work-Based Learning  1- 6

This course provides students with a valuable and practical work experience in Agriculture. Learned agriculture topics from Agriculture curriculum will be applied to and enhance the work experience. This is a paid or volunteer experience that is a supervised position both by the employer and the Agriculture instructor. May be repeated up to twelve (12) credits. Prerequisite: Ag advisor permission; Co-requisite: AGR 297

1150  01  ARR  ARR  RASMUSSEN C

AGR 297  Work-Based Learning Seminar  1

This is a seminar course that covers topics related to Agriculture and its application to professional employment. Group discussion will be emphasized including current issues and trends. May be repeated up to six (6) credits. Prerequisite: AGR advisor permission.

1153  01  ARR  ARR  RASMUSSEN C

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  10:30AM-11:35AM  1609  HOLLIWAY D

Art

ART 090  Pottery  0

Community Ed Fee: $65.00

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  MW  06:30PM-08:30PM  1908  JOHANSEN B

Start & end date: 09/24/12 to 10/17/12

1201  22  MW  06:30PM-08:30PM  1908  JOHANSEN B

Start & end date: 11/05/12 to 12/05/12

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
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<tr>
<th>CRN</th>
<th>Section</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Instructor</th>
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<tr>
<td>ART 101</td>
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<td>MTWTh</td>
<td>11:45AM-12:50PM</td>
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<td>PALKOVIC R</td>
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<td>1208 01</td>
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<tr>
<td>ART 104</td>
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<td>ART 121</td>
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<td>1906</td>
<td>HAGEL S</td>
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<td>1908</td>
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<td>ART 230</td>
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<td>1268 01</td>
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**ART 101 Design I 5**

Lab Fee: $8.00

An introduction to the study of the elements and principles of ART explored through various media in two dimensional problems. HP

**ART 104 Drawing I 5**

Lab Fee: $8.00

An introduction to drawing based on observation, emphasizing composition and form. HP

**ART 121 Ceramics I 2-5**

Lab Fee: $28.00

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

**ART 122 Ceramics II 2-5**

Lab Fee: $28.00

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

**ART 123 Ceramics III 2-5**

Lab Fee: $28.00

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

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

A survey of the history of western art and architecture from late nineteenth century to contemporary times. HU

**ART 230 Painting/Drawing Workshop 5**

Lab Fee: $8.00

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3
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

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<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Credits</th>
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<tr>
<td>ART 231</td>
<td>Oil Painting I</td>
<td>5</td>
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</table>

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

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<tr>
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<tr>
<td>ART 232</td>
<td>Oil Painting II</td>
<td>5</td>
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</table>

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

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<tr>
<th>Code</th>
<th>Name</th>
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<tbody>
<tr>
<td>ART 233</td>
<td>Oil Painting III</td>
<td>5</td>
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</tbody>
</table>

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

Astronomy

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<tr>
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<th>Credits</th>
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<tbody>
<tr>
<td>ASTR&amp;101</td>
<td>Intro to Astronomy</td>
<td>5</td>
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</table>

Lab Fee: $17.20

A survey course intended for the non-science major. Topics studied will include most of the following: historical astronomy, electromagnetic radiation, telescopes, the Earth-Moon system, the solar system, the sun, stars, stellar evolution, galaxies, quasars and cosmology. The laboratory portion of the course may include optics, visual astronomical observing techniques, use of the telescope, spectroscopy, and distance measurement. Credit not granted for both ASTR& 100 and ASTR& 101. Prerequisite: MATH 095 or placement test. LS

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<th>Code</th>
<th>Name</th>
<th>Credits</th>
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<tr>
<td>AUT 111</td>
<td>Automotive Engine Service</td>
<td>9</td>
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</table>

Lab Fee: $47.25

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

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<th>Code</th>
<th>Name</th>
<th>Credits</th>
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<tr>
<td>AUT 115</td>
<td>Automotive Shop Safety and Environmental Issues</td>
<td>1</td>
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</table>
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.

1347 01 MTWTh 01:00PM-04:00PM 3308 WYNDER D

Start & end date: 09/24/12 to 09/27/12

AUT 131 Manual Drive Train and Axles 8

Lab Fee: $42.00

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

1363 01 MTWTh 01:00PM-04:00PM 3308 WYNDER D

Start & end date: 10/01/12 to 12/14/12

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 220 Engine Performance 18

Lab Fee: $94.50

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

1385 01 MTWTh 09:00AM-04:00PM 4103 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.
Aviation Commercial Pilot

AVF 111  Pre-Flight Ground School  1

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

1400 01  TWThF   ARR   3015   SWEDBURG J

AVF 112  Private Pilot Ground School  5

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

1405 21  MW   04:00PM-06:30PM  3015   MACDOUGALL J
1406 22  TTh   04:00PM-06:30PM  3015   SWEDBURG JM

AVF 131  Private Pilot Helicopter (Stage I)  4

Lab Fee: $95.00

The student will be instructed in the basic flying procedures and skills necessary for the first solo flight in a helicopter. Prerequisite: possess a valid student Pilot Certificate and hold a current medical certificate originally issued as a Class I or II.

1422 01  ARR   ARR   3001   STAFF

AVF 132  Private Pilot Helicopter Stage 2  4

Lab Fee: $95.00

The student will continue development of flying skills to include solo flight, confined area operations, slope operations, night flying, and cross country navigation in a helicopter. Prerequisite: AVF 131

1423 01  ARR   ARR   3001   STAFF

AVF 133  Private Pilot Helicopter Stage 3  4

Lab Fee: $95.00

The student shall gain proficiency and skill in maneuvers and navigation to the level of the Private Pilot Helicopter Practical Test standards, and will complete certification requirements of the Private Pilot Certificate - Helicopter. Prerequisite: AVF 132

1424 01  ARR   ARR   3001   STAFF

AVF 141  Private Pilot Flight (Stage 1)  4

Lab Fee: $95.00

Scheduled flight time, ground critique, discussions, and observation time; both dual and solo flights. Instrument flight training is integrated with all phases of flying. Includes simulator time.
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<th>Code</th>
<th>Type</th>
<th>Credits</th>
<th>Time</th>
<th>Instructor</th>
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<tr>
<td>AVF 142</td>
<td>Private Pilot Flight (Stage 2)</td>
<td>4</td>
<td>MTWTh ARR</td>
<td>3001 SWEDBURG J</td>
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<td>Lab Fee: $95.00</td>
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<td></td>
<td>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</td>
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<tr>
<td>AVF 143</td>
<td>Private Pilot Flight (Stage 3)</td>
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<td>MTWTh ARR</td>
<td>3001 SWEDBURG J</td>
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<td>Lab Fee: $95.00</td>
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<td></td>
<td>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</td>
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<tr>
<td>AVF 190</td>
<td>Flight (Alternate)</td>
<td>4</td>
<td>MTWTh ARR</td>
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<td>Lab Fee: $95.00</td>
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<td>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</td>
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<tr>
<td>AVF 223</td>
<td>Instrument Ground School</td>
<td>5</td>
<td>MTWTh ARR</td>
<td>3001 SWEDBURG J</td>
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<td></td>
<td>Preparation for FAA instrument knowledge examination, includes: FAR's that apply to IFR; appropriate sections of AIM; air traffic control system and procedures; IFR navigation systems and instruments; use of en route and instrument approach charts, aircraft operations under IFR; procurement and use of aviation weather reports and forecasts, recognition of critical weather situations and wind shear avoidance, ADM and judgment, and CRM. Prerequisite: AVF 113 and AVF 114.</td>
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<tr>
<td>AVF 225</td>
<td>Effective Communications in Flight Instruction</td>
<td>5</td>
<td>TTh 4:10PM-06:40PM</td>
<td>3016 CRANE G</td>
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<td>This course covers the required areas of instructor knowledge, and is designed to aid the student in passing the appropriate FAA knowledge tests. It includes the learning process and emphasizes elements of effective communication. Methods of teaching and communicating are studied and practiced, as well as how to evaluate and critique through written and oral processes. Includes practice in classroom, one-to-one, and team teaching. Prerequisite: AVF 221, AVF 223, &amp; 252 or Chief Pilot approval.</td>
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<tr>
<td>AVF 227</td>
<td>Aircraft Systems For Pilots</td>
<td>5</td>
<td>MW 04:10PM-06:40PM</td>
<td>3016 CRANE G</td>
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<td>Introduces the systems of complex aircraft: fuel, hydraulic, brake, control, ignition, and electrical systems; covers nomenclature, preventive maintenance, engines, propellers, and related publications.</td>
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<tr>
<td>AVF 231</td>
<td>Commercial Pilot Helicopter (Stage 4)</td>
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<td>MW 04:00PM-06:30PM</td>
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<td>Lab Fee: $95.00</td>
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</table>
The student shall gain proficiency and skill in commercial pilot scenarios and build additional cross country flight experience in a helicopter. Prerequisite(s): Concurrent enrollment in instrument and commercial course required. Students enrolling in this flight course must possess a valid private pilot certificate rotorcraft-helicopter and hold a current medical certificate originally issued as a class I or II.

AVF 232 Commercial Pilot Helicopter (Stage 5) 4
Lab Fee: $95.00

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

AVF 251 Commercial Pilot Flight (Stage 4) 4
Lab Fee: $95.00

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

AVF 252 Commercial Pilot Flight (Stage 5) 4
Lab Fee: $95.00

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

AVF 253 Commercial Pilot Flight (Stage 7) 4
Lab Fee: $95.00

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

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

AVF 261 Instrument Flight (Stage 6) 4
Lab Fee: $95.00

Provides training in instrument flight procedures in preparation for the airplane instrument rating; includes simulator training. Prerequisite: AVF 252
AVF 270  Flight Instructor  4
Preparation for the Certified Flight Instructor rating; includes flight time and critique. Prerequisite: Commercial license and instrument rating and Chief Pilot approval.
1492  01 MTWTh ARR  3001  SWEDBURG 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.
1495  01 MTWTh ARR  3001  SWEDBURG J

AVF 272  Seaplane Flight  2
A dual flight lab course designed to develop flight skills in water operations and procedures, along with flight maneuvers in preparation for the FAA Seaplane Rating; includes flight time and critique. Prerequisite: Commercial Pilot Certificate or Chief Pilot approval.
1498  01 MTWTh ARR  3001  SWEDBURG 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.
1507  01 MTWTh ARR  3002  SWEDBURG J

AVF 290  Flight (Alternate)  4
Lab Fee: $95.00
Provides additional aircraft flight time to allow the student additional time to increase his/her skill or complete a course of study. Includes flight time and follow-up critique. Prerequisite: AVF 141.
1512  03 MTWTh ARR  3001  SWEDBURG J

AVF 291  Multi-Engine - Instructor  2
1517  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.
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.

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.

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.

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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AMT 251</td>
<td>Powerplant Mechanics I</td>
<td>4-16</td>
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<td>AMT 252</td>
<td>Powerplant Mechanics II</td>
<td>4-14</td>
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<tr>
<td>AMT 253</td>
<td>Powerplant Mechanics III</td>
<td>4-16</td>
</tr>
<tr>
<td>AMT 254</td>
<td>Powerplant Mechanic IV</td>
<td>4-16</td>
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</table>

Lab Fee: $176.00

*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 classroom environment and 75% of the instruction in a lab environment. There is approximately 30 hours of extra time at the end of the Powerplant program, which is to be used for make-up time or for further competency enhancement. This course is FAA approved under 14 CFR Part 147. Prerequisite: instructor approval.

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<thead>
<tr>
<th>Section</th>
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<th>Time</th>
<th>Instructor</th>
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</table>
Biology

BIOL&100  Survey of Biology  5

Lab Fee: $17.20

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  TTh   11:45AM-12:50PM  1910  Razo E
Lab  M  10:30AM-12:30PM  1211  Razo C
1602 02  TTh   01:00PM-02:05PM  1910  Razo C
Lab  M  01:00PM-03:00PM  1211  Razo E

BIOL&211  Majors Cellular  5

Lab Fee: $17.20

An introduction to basic cell chemistry, structure, communication, transport, energetics, metabolism, division, genetics, molecular genetics, and evolution. This course is intended for students pursuing careers in the allied health fields and satisfies the biology prerequisite for A&P 1 (BIOL& 241) and Microbiology (BIOL& 260). Math/Science distribution requirement may not include more than 5 credits from BIOL& 211 and BIOL& 222, although graduation credit can be awarded for both. Related investigations take place in a two-hour lab period each week. Prerequisite(s): A minimum grade of 2.0 in CHEM& 121 (or recent high school chemistry with a B or better, or instructor permission) required. High school biology highly recommended. Note: A minimum grade of 2.0 in this class is required for entry into BIOL& 241 and BIOL& 260.

1610 01  MTTh  09:15AM-10:20AM  1910  Haley G
Lab  W  09:15AM-11:15AM  1211  Haley G
1612 02  MTWTh  10:40AM-11:30AM  1250  DuVall K
Lab  W  01:30PM-03:30PM  1211  DuVall K
1613 03H  ARR  ARR  DuVall K
Lab  W  01:30PM-03:30PM  1211  DuVall K

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

BIOL&221  Majors Ecology/Evolution  5

Lab Fee: $17.20

The first quarter in a three-quarter general biology series, this series is designed for life-science majors, pre-professional students, and for students intending to take advanced courses in the biological sciences. Topics of study include: evolution, adaptation, population genetics, speciation, phylogenies, molecular evolution, biodiversity of life forms, ecology, biogeography, and conservation biology. 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 either CHEM& 121 or CHEM& 161 with a 2.0 or better or concurrent enrollment in CHEM& 121 or CHEM& 161. Recent high school biology or BIOL& 100 strongly recommended. LS

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

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

Lab Fee: $17.20

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 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

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

**BIOL& 260 Microbiology  5**

Lab Fee: $17.20

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

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

**Business**

**BUS& 101 Intro to Business 5**

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

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

**BUS 102 Business Mathematics 5**

Applications of quantitative reasoning and logic in business through a study of banking, discounts, commissions, markup, promissory notes, interest, taxes, insurance, payroll, depreciation and financial statements. Prerequisite: Successful completion of MATH 090 or BBCC math placement score into MATH 095 or above.

1705 01 MTWTh 01:00PM-02:05PM 1610 STAFF

**BUS 114 Business Ethics 5**

Studying and analyzing ethical issues facing today's business employers and employees and identifying various approaches available when dealing with or resolving ethical issues.

1712 OL1 ARR ARR JOHNSTON J

All coursework for this class will be completed online through Angel. Students need to have access to a good, reliable Internet connection. Check into Angel no later than the first day of class for further information. Online fee is $10.

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

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

1720 01 MTWTh 08:00AM-08:50AM 1611 AUVIL JOE

1722 OL1 ARR ARR SHANNON M

Online fee is $10.

**BUS 122 Business Communications 5**

This course promotes the development of business communication skills which include reading, writing, listening, speaking, and interacting within groups. Special emphasis is given to the creation of day-to-day business documents, such as letters, memos, reports and emails. Prerequisite: BUS 121 or ENGL& 101

1736 OL1 ARR ARR BERRY-GUERIN

All coursework for this class will be completed online through Angel. Students need to have access to a good, reliable Internet connection. Check into Angel no later than the first day of class for further
information. Online fee is $10.

**BUS 130 Introduction to Hospitality 5**

The students will learn the structure and operations of the three key sectors in the hospitality industry (food and beverage, lodging and travel), the economic impact of the industry, and career options. Prerequisite: BUS 121 or ENGL&101

1745 01 TTh 01:00PM-03:10PM 1612 STAFF

**BUS& 201 Business Law 5**

This course provides an introduction to the nature and sources of law and overview of law typically relating to the operation of businesses from the point of view of owners, managers, employees, customers, and suppliers with an emphasis on contracts and sales.SE

1770 01 MTWTh 01:00PM-02:05PM 1609 MICHIE L

**Business Information Management**

**BIM 101 Basic Keyboarding 1-2**

Lab Fee: $17.20

*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.

1805 01 MTWTh ARR 1613 BERRY-GUERIN

Start & end date: 09/24/12 to 10/25/12

1806 02 MTWTh ARR 1613 BERRY-GUERIN

Start & end date: 10/29/12 to 12/11/12

**BIM 102 Document Formatting 1-4**

Lab Fee: $34.40

*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 Intermediate Keyboarding 1-3**

Lab Fee: $25.80

*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.

1814 01 MTWTh ARR 1613 BERRY-GUERIN

Start & end date: 09/24/12 to 10/25/12
**BIM 106  Advanced Keyboarding  1- 3**
Lab Fee:  $25.80

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

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

**BIM 108  Introduction to Microsoft Applications  3**
Lab Fee:  $25.80

This course is an introduction to the Microsoft Office: This course is an introduction to the Microsoft Office 2010 Suite. Students will learn the principles and underlying concepts of spreadsheets, databases, word processing, multimedia presentations, and browsers. This course is not intended for Business Information Management majors.

**BIM 109  Internet Communications  1- 3**
Lab Fee:  $25.80

*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.

**BIM 111  Introduction to Computers in the Medical Office  1- 3**
Lab Fee:  $25.80

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

This course covers the general flow of information in a medical office and the role that computers play. Students will learn how to use medical office software for activities such as entering data, billing, filing claims, scheduling, and printing reports. Prerequisite: basic computer skills.
BIM 112 Proof & Edit 1-3

Lab Fee: $25.80

*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 1613 BERRY-GUERIN

BIM 116 Intro to the Medical Office 2

This class will focus on telephone and collection techniques for medical business office personnel. The course will cover receptionist skills, making appointments and referrals, retrieving billing information, collection practices, consumer protection, bankruptcy laws, and handling patient concerns and questions. Prerequisites: HED 150 & 151; introductory computing class or approval of instructor.

1845 21 T 06:00PM-08:00PM 1612 BOYCE L

BIM 124 Introduction to Spreadsheets w/Microsoft Excel 3

Lab Fee: $25.80

This course is an introduction to spreadsheet applications using Excel 2010. 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.

1850 01 MTWTh ARR 1613 BERRY-GUERIN

BIM 130 Filing 1-2

Lab Fee: $17.20

*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 & end date: 09/24/12 to 10/25/12

1851 02 MTWTh ARR 1613 BERRY-GUERIN

Start & end date: 10/29/12 to 12/11/12

BIM 173 Word Processing I 1-5

Lab Fee: $43.00

*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
All coursework for this class will be completed online through Angel. Students need to have access to a good, reliable Internet connection. Check into Angel no later than the first day of class for further information. Online fee is $10.

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

Lab Fee: $43.00

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

This course is an introduction to the basic functions of Microsoft Office 2010. This course consists of five modules - Word, Excel, Access, PowerPoint, and Integration. This course is intended for Business Information Management and Accounting students. Prerequisite: BIM 102 or OFF102 and successful completion of MATH 090 or BBCC placement exam into MATH 095 or higher.

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

Lab Fee: $25.80

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

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

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

Lab Fee: $25.80

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

This course provides an introduction to Microsoft Excel 2010. It is not intended for Business Information Management Program students. Prerequisite: Successful completion of MATH 090 or BBCC placement exam into MATH 095 or higher.

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

Lab Fee: $25.80

*Variable Credit Lab Fees are calculated at the highest rate*
This course provides a brief introduction to Microsoft Access. It is intended for students not majoring in the Business Information Management Program.

1885 01 MTWTh ARR 1613 BERRY-GUERIN
Start & end date: 09/24/12 to 10/25/12

1886 02 MTWTh ARR 1613 BERRY-GUERIN
Start & end date: 10/29/12 to 12/11/12

**BIM 184 Introduction to Microsoft Office: PowerPoint 1-3**
Lab Fee: $25.80

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

This course gives a brief introduction to Microsoft Access. It is intended for students not majoring in the Business Information Management Program.

1890 01 MTWTh ARR 1613 BERRY-GUERIN
Start & end date: 09/24/12 to 10/25/12

1891 02 MTWTh ARR 1613 BERRY-GUERIN
Start & end date: 10/29/12 to 12/11/12

**BIM 210 Internet 1-2**
Lab Fee: $17.20

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

This course will teach the functions of accessing Internet.

1920 01 MTWTh ARR 1613 BERRY-GUERIN
Start & end date: 09/24/12 to 10/25/12

1921 01 MTWTh ARR 1613 BERRY-GUERIN
Start & end date: 10/29/12 to 12/11/12

**BIM 220 Desktop Publishing 1-5**
Lab Fee: $43.00

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

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

1925 01 MTWTh ARR 1613 BERRY-GUERIN

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

Lab Fee: $43.00

BIM 280 Advanced Microsoft Office 1-5

This course is a continuation of BIM180 and introduces the advanced features and integration capabilities of Microsoft Office 2010. This course consists of five modules--Word, Excel, Access, PowerPoint, and completion of an Integrated Project. Prerequisite: OFF180 or BIM180 and successful completion of BUS102-Business Mathematics, BBCC placement exam into MATH 099 or higher, or successful completion of MATH 095

Lab Fee: $43.00

BIM 290 Spreadsheets II 1-5

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

Lab Fee: $43.00

Chemistry

CHEM&121 Intro to Chemistry 5

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 MATH095 or placement in MATH099. A passing grade in high school chemistry or completion of CHEM& 105 or CHEM& 110 is recommended. LS
Lab Fee: $17.20

The first quarter in a three-quarter series examining the principles of General Chemistry with the primary emphasis on inorganic chemistry. This series is designed for physical science majors, pre-medical, pre-veterinary and pre-pharmacy students, and for students who are required to take one or more quarters of majors-level chemistry. Topics include matter and measurements, atoms, molecules and ions, chemical formulas, chemical reactions and equations, electronic structure of atoms and periodic properties of elements. Relevance of course material to current practices in chemistry is a fundamental focus. Prerequisite(s): Appropriate scores in the BBCC Mathematics Assessment or successful completion of MATH099 or MATH 091,092, 093. A passing grade in High School Chemistry or completion of CHEM& 121 recommended. LS

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**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.

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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.

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.

Orientation September 26 from 6:00-8:00 p.m. 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: $121.53

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

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.

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

Communications

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

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

Computer Science

CS 101  Intro to Computer Science  3

Lab Fee: $31.30

An introduction to computer science concepts and the role of computers in society. Topics include the history of computing, computer hardware, operating systems, the Internet, database management, an overview of programming languages and logic, careers in computer technology, and the ethics of computing. This course is designed for Computer Science majors, and will emphasize principles and underlying computer technology concepts.

Mandatory orientation on 9/24 in room 1511 at 5:00 p.m. This is a hybrid class that incorporates traditional class time & a distance education component. Students must have access to a reliable internet connection. Online fee is $10.

CS 104  Intro to Computer Hardware  3

Lab Fee: $21.30

This course covers basic concepts of computing hardware and addresses the impact of hardware design on applications and systems software. Students will learn how computers work and be able to replace parts and upgrade components. Students completing CS 104, CS 105, and CS 110 will have the knowledge and skills necessary for CompTIA A+ Certification exam preparation.

CS 105  Intro to Computer Operating Systems  3

Lab Fee: $21.30

An introduction to operating systems (O/S) design, structure, and mechanisms. Topics include computer software systems performance, memory, kernel structure, input/output (I/O) devices, file system functions,
virtualization, and securing the operating system. Students will install and configure major modern operating
systems. Students completing CS 104, CS 105, and CS 110 will have the knowledge and skills necessary for
CompTIA A+ Certification exam preparation.

2114 21  TTh  06:00PM-06:50PM  1511  STAFF

CS 110  Networking Fundamentals  3

Lab Fee: $21.30

An introduction to computer networking fundamentals emphasizing common network hardware and protocols.
Students will work in teams to examine and implement Local Area Networks (LAN's) and Wireless Area
Networks (WAN's). With Windows Server, students will use a variety of tools to create, design, and propose a
functional network. Students completing CS 104, CS 105, and CS 110 will have the knowledge and skills
necessary for CompTIA A+ Certification exam preparation. Prerequisite: CS 105 or concurrent enrollment.

2120 21  MW  07:00PM-08:50PM  1511  STAFF

CS 111  Intro to Programming  5

Lab Fee: $35.50

An introductory programming course using the Visual Basic.NET language to create event-driven programs
with a graphical user interface. Topics include variables, control structures, loops, object-oriented programming
techniques, forms, debugging, and an introduction to database programming using ADO.NET and SQL.
Prerequisite(s): MATH 095 or MAP 105, or concurrent enrollment, or instructor permission

2124 21  TTh  07:00PM-09:30PM  1510  STAFF

CS& 141  Computer Science I Java  5

This course introduces students to the fundamental concepts of object-oriented programming with the Java
programming language. The course will focus on the strengths of Java to create Java applets and servlets.
Students will master the basics of Java, developing solid programming skills that enable crossover
programming skills for other essential languages. Prerequisite: MATH 120 or concurrent enrollment. Online fee
is $10.

2150 OL1  ARR  ARR  STAFF

CS 195  Internship: Work Based Learning  1- 4

Students will participate in a supervised internship with regional computer and information technology
employers. Students are expected to develop a computer science career-based portfolio and employment
resume. Prerequisite(s): Enrollment in Computer Science program and completion of 30 or more program
credits with a minimum 2.5 GPA, instructor permission, and concurrent enrollment in CS 197

2171 01  ARR  ARR  SHANNON M

CS 197  Internship: Work Based Learning Seminar  1

Feedback and discussion to integrate and relate internship/work-based learning and classroom instruction.
Work ethic, leadership, safety, ethics, and other computer industry related topics are examined. Prerequisite(s):
Concurrent enrollment in CS 195

2172 01  ARR  ARR  SHANNON M

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

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

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

2206 OL1 ARR ARR LEONARD R

Section OL1: All coursework 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: $10.

Early Childhood Education

ECE 100 Intro to Issues & Trends in Early Childhood Ed 3

This course provides a survey of the field of early childhood education, issues, trends and policies. SE

2250 21H M 06:00PM-08:00PM 1611 KIMBALL T

This class incorporates traditional class time & a distance-education component. Students need to have access to a reliable Internet connection. Check your Big Bend email the week before classes & attend the first day of class for further instructions. Online fee is $10.

ECE 135 Skills for Preschool Teachers 3

Examines the basics of developmentally appropriate practice in a preschool setting. Designed for students who are preparing to be a lead or assistant teacher in a child care center, private preschool, Head Start, ECEAP or pre-Kindergarten environment. Coursework includes competencies for preschool teachers in thirteen different functional areas.

2275 21 T 05:30PM-08:30PM 1611 MCLEAN C

ECE 160 Administration of Early Learning Programs 3

This course is designed to provide child care personnel with the information necessary to open, operate and manage child care centers and early learning programs that meet licensing, accreditation and other quality standards. Topics include: child development, health and safety, nutrition, diversity, behavior and guidance, developmentally appropriate practice, curriculum development, licensing requirements, budgeting, staff recruitment and retention, professional development, and positive communication.

2280 OL1 ARR ARR NIGHSWONGER

All coursework for this class will be completed online. Students need to have a reliable computer and Internet connection. Check your Big Bend email before classes for log-in information. Mandatory on campus orientation 9/28 5:30-7:30p.m. in room 1609. Online fee is $10.

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 MATH095 or higher and placement in ENGL 099 or higher. THIS IS NOT A SUBSTITUTE FOR ECON& 201 OR 202. SS

2315 OL1 ARR ARR STAFF

Online fee is $10.

**ECON&201 Micro Economics 5**

Study of the micro economy of an individual firm or industry. Output and price of a specific product, numbers of workers, revenue, and expenses of a business are the focus. Strongly recommend placement in MATH095 or higher and placement in ENGL 099 or higher. SS

2320 01 MTWTh 08:00AM-09:05AM 1609 STAFF

**Education**

**EDUC 102 Guiding Behavior of Young Children 3**

This course introduces students to strategies that are developmentally appropriate for guiding children in an early childhood environment. The strategies include techniques for guiding children's behavior, strengthening relationship-focused care, and understanding cultural relevance. Students also learn to individualize to meet the needs of children. Using research, theory and practice, students develop action plans for classroom management, indirect and direct guidance strategies and communication skills for promoting positive behaviors and intervention techniques for mistaken behaviors.

2353 OL1 ARR ARR ROYLANCE M

All coursework for this class will be completed online. Students need to have a reliable computer and Internet connection. Check your Big Bend email before classes for log-in information. Mandatory on campus orientation 9/27 6:00-8:00 p.m. in room 1611. Online fee is $10.

**EDUC&115 Child Development 5**

Comprehensive introduction to human development from conception through adolescence. Includes research, knowledge, theories and methods which guide our understanding of physical, cognitive and psychosocial development. SE

2380 01 MTWTh 01:00PM-02:05PM 1611 BECK B

**EDUC 150 Child, Family and Community Relationships 3**

Early childhood education professionals working with children birth to eight years and their families will learn about the importance of the adult relationships in child care settings. Classroom activities, lectures and reading material will provide students with an understanding of the concepts and the value of the caregiver-child relationship. Class activities, interactions with other caregivers and child observations will give students an opportunity to practice and strengthen their skills.

2395 OL1 ARR ARR BUNCH J

All coursework for this class will be completed online. Students need to have a reliable computer and Internet connection. Check your Big Bend email before classes for log-in information. Mandatory on campus orientation 9/26 5:30-7:30p.m. in room 1609. Online fee is $10.

**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. Tech Prep credit available. Instructor permission required. Contact Jenny Nighswonger 793-2216. Students are required to pass a background check, obtain liability insurance, and provide results of a negative Tuberculin skin test prior to placement.

**English**

**ENGL 010**  English Lab   0

Community Ed Fee: $44.10

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

**ENGL 065**  Spelling Improvement   2

Lab Fee: $6.80

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

**ENGL 087**  Reading Improvement   3

Lab Fee: $10.20

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

**ENGL 093**  Basic Writing   3

Lab Fee: $10.20

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.

**ENGL 095**  Writing Improvement   3
Through individual writing experiences and the practice of assigned exercises, the student will develop a procedure for writing and revising papers using word processing. Students may submit papers written during the quarter to portfolio assessment of preparedness for ENGL& 101.

Prerequisite: ENGL 093 or placement.

2517  01  MTWTh  08:00AM-09:05AM  1817  SHUTTL’TH K
2518  02  MTWTh  11:45AM-12:50PM  1817  SHUTTL’TH K
2519  03  MTWTh  02:15PM-03:20PM  1817  SHUTTL’TH K

**ENGL 098    Basic English Skills    5**

Lab Fee: $17.00

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.

2523  01  MTWTh  09:15AM-10:20AM  1855B  HAMMOND D
2524  02  MTWTh  10:30AM-11:35AM  1856  ERICKSON G

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

Lab Fee: $17.00

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  1855B  HAMMOND D
2531  02  MTWTh  09:15AM-10:20AM  1856  ERICKSON G
2532  03  MTWTh  10:30AM-11:35AM  1605  ANDERSON J
2533  04  MTWTh  11:45AM-12:50PM  1855B  HAMMOND D
2534  05  MTWTh  01:00PM-02:05PM  1855B  ANDERSON J
2535  06  MTWTh  02:15PM-03:20PM  1606  PARSONS R
2537  21  MW  06:00PM-08:30PM  1606  STAFF
2538  OL1  ARR  ARR  VAN BLARICOM

Online fee is $10.

**ENGL&101    English Composition I    5**

Lab Fee: $17.00
This composition course provides instruction in academic written communication by having students compose formal essays, with the goal of teaching students to communicate effectively and engage with issues and ideas. Prerequisite: placement exam or passing grade in ENGL 099.

ENGL 109 Applied Technical Writing 3
Lab Fee: $10.20

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.
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

ENGL 239  The Mystery Story as Literature  5
From Sherlock Holmes to C.S.I., mystery stories have been popular and enduring forms of entertainment - but they do much more than amuse. Beyond solving crimes, mysteries can offer insight into the nature of good and evil, raise questions about the human condition, and tell us some uncomfortable truths about history and culture. This class will use mystery stories, novels, and film that range from the classic (such as Agatha Christie and Dashiell Hammett) to contemporary (such as Stephen King and Kate Atkinson). HU

ENGL&244  American Literature I  5
An introduction to American literature from its beginnings to 1860. HU

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

First Aid
FAD  150  Industrial First Aid and C.P.R. Plus Bloodborne  2
Lab Fee:  $8.60
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.
Books are required. Class meets 9/28, 10/5, 10/12.

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

Books are required. Class meets 10/13, 10/20, 10/27.

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

Books are required. Class meets 10/19, 10/26, 11/2.

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

Books are required. Class meets 11/9, 11/16, 11/30.

French

FRCH&121 French I 5
Introduction to the language and culture of the French-speaking world. Skill development in listening, speaking, reading and writing. HU

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

FRCH&122 French II 5
Introduction to the language and culture of the French-speaking world. Skill development in listening, speaking, reading and writing. Prerequisite: 121 or departmental placement for 122. HU

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

FRCH&123 French III 5
Introduction to the language and culture of the French-speaking world. Skill development in listening, speaking, reading and writing. Prerequisite: 122 or departmental placement for 123. HU

2710 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 01 MTWTh 08:00AM-09:05AM 1910 BUNKELMAN J

2802 OL1 ARR ARR STAFF

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 MW 05:30PM-06:50PM 1722 MOTZKUS P
Online fee is $10.

**HED 151 Medical Terminology II 3**

Lab Fee: $10.00

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

Online fee is $10.

**History**

**HIST&116 Western Civilization I 5**

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

**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

Online fee is $10.

**Humanities**

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

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

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<th>Course Code</th>
<th>Section</th>
<th>Days and Times</th>
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<th>Instructor</th>
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<tr>
<td>3000 01</td>
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</table>

**Industrial Systems**

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

Introduction to basic industrial safety and health incorporating OSHA/WISHA rules and regulations, personal protective equipment, chemical safety, tool safety, material handling safety, machine safety, electrical safety, fire protection, health protection and safe working practices. Prerequisite: None

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<td>3040 01</td>
<td>MTWTh</td>
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**IST 102 Technical Drawing Interpretation 3**

Lab Fee: $21.30

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

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<th>Course Code</th>
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<th>Instructor</th>
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<tr>
<td>3046 01</td>
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**IST 105 Basic Electricity--DC Circuit Analysis 5**

Lab Fee: $35.50

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

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<th>Course Code</th>
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<tr>
<td>3052 01</td>
<td>TTh</td>
<td>12:30PM-03:30PM</td>
<td>3607</td>
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</tbody>
</table>

**IST 107 Industrial Electricity I 5**

Lab Fee: $35.50

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

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<th>Course Code</th>
<th>Section</th>
<th>Days and Times</th>
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<tr>
<td>3064 01</td>
<td>MW</td>
<td>12:30PM-03:30PM</td>
<td>3606</td>
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</table>

**IST 111 National Electric Code II 2**

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

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<th>Course Code</th>
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<td>3076 01</td>
<td>MW</td>
<td>03:35PM-04:25PM</td>
<td>3607</td>
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</table>

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

Lab Fee: $35.50

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

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<td>TTh</td>
<td>09:00AM-12:00PM</td>
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</table>
**IST 150  Introduction to Programmable Logic Controllers  5**

Lab Fee: $35.50

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

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

**IST 207  Industrial Electricity II  5**

Lab Fee: $35.50

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

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

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

Lab Fee: $35.50

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

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

**IST 280  Mechanical Power Transmission  5**

Lab Fee: $35.50

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

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

**Math**

**MATH 010  Math Lab  0**

Community Ed Fee: $44.10

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

3234  01  DAILY  ARR  BROWN D

**MATH 080  Basic Mathematics  5**

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

3236  01  MTWTh  08:00AM-09:05AM  1856  ERICKSON G
3237  02  MTWTh  11:45AM-12:50PM  1607  ERICKSON L
3238  21  MW  05:00PM-07:20PM  1610  ERICKSON L
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>MATH 090</td>
<td>Prealgebra</td>
<td>5</td>
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<tr>
<td>MATH 094</td>
<td>Prealgebra</td>
<td>5</td>
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</table>

**Lab Fee: $17.00**

This course includes the study of basic arithmetic and algebraic including operations with integers, fractions, decimals and percents; order of operations, measurement, the metric system, algebraic expressions, formulas and simple linear equations. **PREREQUISITE: Appropriate placement on the BBCC math placement exam**

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<th>Section</th>
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<td>3240</td>
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<td>3242</td>
<td>MTWTh</td>
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<td>3244</td>
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<td>06:00PM-08:30PM</td>
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</table>

**MATH 094 Prealgebra 5**

Lab Fee: $17.00

This course includes the study of basic arithmetic and algebraic topics including operations with integers, fractions, and percents; algebraic expressions; formulas; and simple linear equations. **PREREQUISITE(S): one of the following: BBCC math placement exam or successful completion of MPC/MATH 080 and MPC/MATH 080 final**

<table>
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<th>Section</th>
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<td>3248</td>
<td>MTWTh</td>
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<td>3250</td>
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<td>3252</td>
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<td>3254</td>
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<td>3256</td>
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Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is suggested you have Internet access outside of class.

**MATH 095  Elementary Algebra  5**

Lab Fee: $17.00

This course includes study of basic algebraic operations and concepts, and the structure and use of algebra. This includes the solutions to algebraic equations, factoring algebraic expressions, working with rational expressions and the graphing of linear equations. Prerequisite(s): BBCC placement exam or score of 70% or better on each module on the MPC/MATH 090 competency exam.

3260 01 MTWTh 10:30AM-11:35AM  1217   STAFF
3262 02 MTWTh 11:45AM-12:50PM  1252   WHITNEY B
3264 OL1 ARR   ARR              WALLACE T

Section OL1: Students view class lectures and submit assignments online; exams are taken on campus. Online fee is $10.

**MATH 096  Elementary Algebra I  5**

Lab Fee: $17.00

This course includes the study of basic algebraic operations and concepts, and the structure and use of algebra. This includes measurement and the metric system, solving and graphing linear equations, and working with polynomials. Prerequisite(s): one of the following: BBCC math placement exam or successful completion of at least four units in MATH 094 or Successful completion of MPC/MATH 090 (will start after Proficiency Exam #1)

3268 CL1 MTWTh 08:00AM-09:05AM  1801   WALLACE T

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

3269 CL2 MTWTh 09:15AM-10:20AM  1801   STAFF
3270 CL3 MTWTh 10:30AM-11:35AM  1801   STAFF
3272 CL4 MTWTh 11:45AM-12:50PM  1801   STAFF

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

**MATH 097   Elementary Algebra II   5**

Lab Fee: $17.00

This course includes the study of basic and intermediate algebraic operations and concepts, and the structure and use of algebra. This includes factoring algebraic expressions, working with rational expressions, systems of equations and applications. Prerequisite(s): one of the following: BBCC math placement exam or successful completion of at least five units in MATH 096 or successful completion of MPC/MATH 095 (will start after Proficiency Exam #2)

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

### MATH 098 Intermediate Algebra 5

Lab Fee: $17.00

This course includes the study of intermediate algebraic operations and concepts, and the structure and use of algebra. This includes functions, radicals and rational exponents, radical equations, complex numbers, quadratic equations and their applications, and an introduction to exponential and logarithmic functions. Prerequisite(s): one of the following: BBCC math placement exam or successful completion of at least five units in MATH 097 or Instructor Permission

### MATH 099 Intermediate Algebra 5

Lab Fee: $17.00

This course includes the study of intermediate algebraic operations and concepts, and the structure and use of algebra. This includes functions, radicals and rational exponents, radical equations, complex numbers, quadratic equations and their applications, and an introduction to exponential and logarithmic functions. Prerequisite(s): one of the following: BBCC math placement exam or successful completion of at least five units in MATH 097 or Instructor Permission
This course includes the study of systems of equations and applications, functions, radicals and rational exponents, radical equations, complex numbers, quadratic equations and their applications, and an introduction to exponential and logarithmic functions. Prerequisite: BBCC exam or score of 65% or better on each module of MPC 095 competency exam or a P in MATH 095.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Section</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Instructor</th>
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<td>01</td>
<td>MTWTh</td>
<td>09:15AM-10:20AM</td>
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<td>ABED S</td>
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<td>3298</td>
<td>02</td>
<td>MTWTh</td>
<td>10:30AM-11:35AM</td>
<td>1611</td>
<td>FARAG S</td>
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<tr>
<td>3299</td>
<td>03</td>
<td>MTWTh</td>
<td>01:00PM-02:05PM</td>
<td>1252</td>
<td>FARAG S</td>
</tr>
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</table>

**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 MATH 099 or MATH 093.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Section</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Instructor</th>
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<td>OL1</td>
<td>ARR</td>
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<td>HARBERTS B</td>
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</table>

Section OL1: Students view class lectures and submit assignments online; exams are taken on campus. Online fee is $10.

**MATH 120 College Algebra**  
5

Lab Fee: $17.00

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 MATH 099 or 093.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Section</th>
<th>Days</th>
<th>Time</th>
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<td>1252</td>
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</table>

**MATH&141 Precalculus I**  
5

Lab Fee: $17.00

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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Section</th>
<th>Days</th>
<th>Time</th>
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<td>08:00AM-09:05AM</td>
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</table>

**MATH&146 Introduction to Statistics**  
5

Lab Fee: $17.00

This course is an introduction to descriptive statistics, probability and its applications, statistical inference and hypothesis testing, predictive statistics and linear regression. Prerequisite: Appropriate scores in the BBCC Mathematics Assessment or successful completion of MPC 099 or MPC 091, 092, and 093.

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Instructor</th>
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<td>3330</td>
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<td>MTWTh</td>
<td>08:00AM-09:05AM</td>
<td>1219</td>
<td>LANE S</td>
</tr>
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</table>
This course will introduce the student to the basic concepts of the calculus. It will give the student an appreciation of the calculus and its applications in the real world and will prepare the student for future work in mathematics and the sciences. Course includes functions, limits, continuity, derivatives and their applications, and integration and its applications. Prerequisite(s): MATH& 142 or BBCC placement exam, or instructor permission. MS/SQR

Math (Applied)

MAP 100  Applied Mathematics (AMT)  2

This course will cover aircraft technical mathematics and is designed for the Aviation Maintenance Technology student. It will cover the fundamental mathematical principles required for the successful completion of the Aviation Maintenance Technology program. This course is FAA approved under 14 CFR Part 147. Prerequisite: Successful completion of MATH 080 or BBCC Math placement score into MATH 090 or above. Must be enrolled in the Aviation Maintenance Technology program.

MAP 101  Applied Mathematics (AUT/WLD)  5

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

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 MATH 080 or BBCC Math placement score of MATH 090 or above.

Medical Assistant

MA 111  Clinical Procedures I  2

Lab Fee: $56.00

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

MA 150 Pharmacology for Medical Assistants 3
This basic pharmacology course provides instruction on therapeutic action and major side effects of common drugs, principles of medication and dosage calculations for Medical Assisting. Prerequisite: MAP 108

3570 21 TTh 05:20PM-06:50PM 1722 ERWIN K

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

3605 01 MTWTh 11:45AM-12:50PM 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

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

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 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 10:30AM-11:35AM 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

MUSC 216  Group Piano V  2
Group piano instruction for intermediates and advanced students. Prerequisite: MUSC 215 or instructor approval. HP
3733  01  MW  03:30PM-04:35PM  1134  PATTERSON P

MUSC 217  Group Piano VI  2
Group piano instruction for intermediates and advanced students. Prerequisite: MUSC 216 or instructor approval. HP
3736  01  MW  03:30PM-04:35PM  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  1721  ERWIN K

NUR  101  Survival Skills for the Nursing Student  1
This course will offer the nursing student tools to effectively meet the challenges of nursing education. Study skills, critical thinking skills, learning styles, and test taking strategies will be explored. Prerequisite: Admittance into the BBCC Nursing Program.
3804  01  ARR  ARR  1700  CHRISTIAN 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.
3807  01H  ARR  ARR  MANN M
Class orientation and assignments are accessed online through Angel. Mandatory in class final on November 14 at 10:30 a.m. in room 1722. Online fee is $10.
3809  02H  ARR  ARR  MANN M
Class orientation and assignments are accessed online through Angel. Mandatory in class final on November 15 at 10:30 a.m. in room 1722. Online fee is $10.
NUR 110  Fundamentals of Nursing  5

Focus is on fundamental nursing theory for the practice of nursing. Basic human needs and ethical considerations are addressed with emphasis on the adult and elderly population. Prerequisites: Admission into the Level I ADN Nursing Program and current Washington NAC certificate.

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

Orientation for Level 1 students September 5, 6, and 7 from 8:00 a.m. to 4:00 p.m. in room 1718.

NUR 111  Fundamentals of Nursing Practicum  3

Lab Fee:  $28.50

Practical application in the clinical setting of nursing theory and skills taught in NUR 110 and NUR 135. Practicum focuses on nursing care to a variety of adult and geriatric patients. Prerequisites: Admission into the Level I ADN nursing program.

3815 01   ARR  ARR  BROOKS J
3816 02   ARR  ARR  ASAY M
3817 03   ARR  ARR  ASAY M

Annual malpractice insurance required.

NUR 114  Pharmacology  2

An introduction to nursing principles of medication administration. Explores the therapeutic actions, major side effects, and nursing implications of common drugs in major classifications. Principles of medication administration and dosage calculation are included. Prerequisite: High school algebra with a 2.0 G.P.A. or above or MATH 099 with a 2.0 G.P.A or above. Co-requisite: NUR 110 or instructor permission.

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

NUR 135  Nursing Skills Laboratory  1

Lab Fee:  $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 111). The content is based on theoretical nursing knowledge taught in NUR 110. Prerequisite: Admission into the level I ADN Program.

3851 01   ARR  ARR  1731  ASAY M

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

NUR 210  Advanced Nursing Concepts I  5

Focus is on advanced nursing theory as it relates to complicated health deviations in patients throughout the lifespan. Current professional issues and role development are incorporated in this course. Prerequisite: Admission into the Level II ADN program.

3900 01   M  09:15AM-03:00PM  1722  GONZALEZ M

NUR 211  Advanced Nursing Practicum I  5

Lab Fee:  $28.50
Practical application in the clinical setting of nursing theory and skills taught in previous nursing courses and introduced in NUR 210 and NUR 235. Practicum focuses on advanced nursing care to a variety of patients, in various settings, and throughout all stages of the lifespan. Prerequisites: Admission to the Level II ADN program.

3905 01 ARR ARR ELLISTON J
3906 02 ARR ARR GONZALEZ-ALL

NUR 215 Advanced Pharmacology Concepts 1

This course focuses on specific in-depth pharmacology information as it relates to the complex disease processes taught in Advanced Nursing Concepts I (NUR 210). Prerequisite: NUR 114

3912 01 ARR ARR 1700 BROOKS J

NUR 235 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 211). Content will expand upon theoretical nursing knowledge taught in NUR 210 and previously completed nursing courses. Prerequisites: Admission into the Level II ADN program.

3942 01 ARR ARR 1731 GONZALEZ M

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 1909 CHRISTIAN M
3983 21 TTh 06:30PM-08:50PM 1610 STAFF
3985 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 10:30AM-11:35AM 1608 KNEPP D
4202 02 MTWTh 01:00PM-02:05PM 1219 LANE S

PHIL&120 Symbolic 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

4215 01 MTWTh 11:45AM-12:50PM 1601 KNEPP D
4216 OL1 ARR ARR PALMER S

Online fee is $10.

PHIL 210 Ethics 5
A study of the principal ethical theories and their application to individual and social morality. HU

4224 21 TTh 04:30PM-06:50PM 1608 KNEPP D

Physical Education

PEH 090 Recreational Gym 0
Community Ed Fee: $26.50
This activity permits the use of BBCC Gym facilities during available hours by individuals who are not students registered at BBCC. Must be 18 years of age to enroll in recreational gym. Community service class.

4302 21 ARR ARR 2014 DE HOOG M

PEH 100 Lifetime Wellness 3
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 10:30AM-11:35AM 1606 STAFF
4311 OL1 ARR ARR NICHOLS L

Online fee is $10.

4312 OL2 ARR ARR NICHOLS L

Online fee is $10.

PEH 119 Softball 1
Lab Fee: $3.40
Fundamentals of team play, rules, and game strategies. Emphasis placed on participation by all. May be repeated for up to three (3) credits. AC

4349 01 MTWTh ARR 2014 IVERSON J

PEH 125 Conditioning 1
Lab Fee: $3.40
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

**PEH 133  Weight Training  1**

Lab Fee:  $3.40

This course is designed to introduce basic weight training techniques using universal and free (Olympic) weight equipment, as well as a variety of methods and programs of weight training. May be repeated for up to three (3) credits. AC

**PEH 155  Body Toning  1**

Lab Fee:  $3.40

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

**Physics**

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

Lab Fee:  $17.20

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

4501 01 MTWTh 01:00PM-02:05PM 1608 RILEY C

This class includes the use of an Angel online class site in addition to the traditional classroom. Students will report to the above referenced classroom on the first day of class for additional information.

POLS&203 International Relations 5

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

4505 01 MTWTh 09:15AM-10:20AM 1601 RILEY C

This class includes the use of an Angel online class site in addition to the traditional classroom. Students will report to the above referenced classroom on the first day of class for additional information.

4506 02 MTWTh 09:15AM-10:20AM 1605 WAITES W

This class includes the use of an Angel online class site in addition to the traditional classroom. Students will report to the above referenced classroom on the first day of class for additional information.

Psychology

PSYC&100 General Psychology 5

A broad survey course designed to study human behavior with reference to biology, learning, motivation, emotion, perception, intelligence, human development, mental processes, personality, abnormal behavior, and research. Strongly recommend placement in MATH 095 or higher and placement in ENGL 099 or higher. SS

4552 01 MTWTh 08:00AM-09:05AM 1608 STAFF

4554 OL1 ARR ARR LEONARD R

Section OL1: All coursework 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: $10.

PSYC&200 Lifespan Psychology 5

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

4580 01 MTWTh 11:45AM-12:50PM 1604 HOLLIWAY D

Religious Studies

REL 201 World Religions 5

A survey of the origin, development and present beliefs and practices of the world’s major religions: Hinduism, Buddhism, Confucianism, Taoism, Judaism, Christianity and Islam. HU
REL 211  Religion in America  5

A study of American religious groups, principally Christian denominations, including selected sects and cults. Various beliefs and practices will be examined in light of historical and social influences. HU

4615 01H  M  06:00PM-08:00PM  1601  JOHNSON J

This is a hybrid class that incorporates traditional class time and a distance education component. Students must have access to a reliable internet connection. 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 MATH 095 or higher and placement in ENGL 099 or higher. SS

4640 01  MTWTh  11:45AM-12:50PM  1606  STAFF
4642 02  MTWTh  02:15PM-03:20PM  1601  HOLLIWAY D
4645  OL1  ARR  ARR  HOLLIWAY D

Section OL1: All coursework 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.

Spanish

SPAN&121  Spanish I  5

Lab Fee: $10.00

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

4700 01  MTWTh  10:30AM-11:35AM  1604  LEAVITT A
4701 02  MTWTh  01:00PM-02:05PM  1604  LEAVITT A
4704 21  MW  06:00PM-08:30PM  1604  MCLAUCHLAN N

SPAN&122  Spanish II  5

Lab Fee: $10.00

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  09:15AM-10:20AM  1604  LEAVITT A

Welding

WLD 110  Welding Theory I  5
General view of industrial welding and cutting. Safety rules of oxy-fuel, electric cutting and welding, shielded metal arc welding principles and electrodes.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Session</th>
<th>Days</th>
<th>Time</th>
<th>Room</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
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<td>4832</td>
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<td>MTWTh</td>
<td>05:30PM-06:35PM</td>
<td>3401 KAUPP G</td>
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</table>

**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.

<table>
<thead>
<tr>
<th>Course Code</th>
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<td>4846</td>
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<td>3403 KAUPP G</td>
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</table>

**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.

<table>
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<tr>
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**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.

<table>
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**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.

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**WLD 130  Welding Theory III  5**

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

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**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.

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**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.

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**WLD 151 Technical Drawings Interpretation 3**

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

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**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.

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**WLD 205 Weld Testing Methods 4**

Lab Fee: $42.00

A survey of methods used to test welds. Course will cover a variety of destructive and non-destructive test methods used in the welding industry. Prerequisite: WLD 130

<table>
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**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.

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**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.

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.

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.

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.
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
5081 02W Sa 08:00AM-02:30PM 3403 KAUPP G
5082 21 MW 06:35PM-09:35PM 3403 KAUPP G
5083 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.

5095 01 MTWTh 12:30PM-03:00PM 3403 MCDANIEL S
5097 02W Sa 08:00AM-02:30PM 3403 KAUPP G
5099 21 MW 06:35PM-09:35PM 3403 KAUPP G
5100 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.

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5109 21 MW 06:35PM-09:35PM 3403 KAUPP G
5110 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.

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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

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.

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

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
WLD 283  Pipe Welding II  3- 6

Lab Fee: $63.00

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

Students will enhance carbon steel pipe welding in 1G, 2G, 5G, and 6G positions using E-6010 and E-7018 electrodes with schedule 60, 80, 100 and 120 pipes and various other sizes of pipes. These three credit courses may be repeated for credit up to six credits. Prerequisite: WLD 281

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

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

WLD 290  Skill Improvement II  1- 6

Lab Fee: $63.00
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.

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

A supervised work experience in the welding technology field to enhance the application of classroom instruction and skills and/or area of specialization approved by the program instructor. May be repeated up to twelve (12) credits. Prerequisite(s): Instructor approval and concurrent enrollment in WLD 297.

**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.