

Accounting**ACCT 105 Introduction to Accounting 5**

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

1002 01 MTWTh 01:00PM-02:05PM 1610 WILKS P

ACCT&201 Prin of Accounting I 5

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

1012 01 MTWTh 11:45AM-12:50PM 1610 MICHIE L

ACCT&202 Prin of Accounting II 5

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

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

1018 OL1 ARR ARR WILKS P

Agriculture**AGR 263 Soils 5**

Lab Fee: \$10.00

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

1136 01H MTWTh 10:30AM-11:35AM 1508 STAFF

Lab F 08:00AM-10:00AM 1508 STAFF

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

AGR 272 Food Sustainability and Safety 5

Lab Fee: \$10.00

Students will study the challenges and importance of sustainable and safe food production. Topics include history of agriculture, geography of hunger,

the sustainability concept, agricultural systems, agroecology, biotechnology, and food safety.

1146 01H MW 11:45AM-12:50PM SACKMANN

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

Anthropology

ANTH&100 Survey of Anthropology 5

Lab Fee: \$10.00

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

1180 OL1 ARR ARR TATE-LIBBY J

Section OL1: All course work for this class will be completed online through Canvas. Students need to have access to a reliable internet connection.

Art

ART& 100 Art Appreciation 5

Lab Fee: \$10.00

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

1209 OL1 ARR ARR PALKOVIC F

Class meets online through Canvas.

ART 102 Design II 5

Lab Fee: \$8.00

An introduction to the study of color theory explored through projects. Design I, II, and III can be taken in any order. HP

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

ART 105 Drawing II 5

Lab Fee: \$8.00

Drawing II is a continuation in the exploration of drawing with emphasis on technique and interpretation of ideas using various media. You will learn drawing techniques with various media and develop an individual artistic voice by introducing content (meaning or message) into drawings. Drawing I, II, and III can be taken out of sequence. HP

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

ART 121 Ceramics I 1- 5

Lab Fee: \$28.00

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

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

ART 122 Ceramics II 1- 5

Lab Fee: \$28.00

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

1244 01 MW 01:00PM-03:50PM 1908 PALKOVIC F

ART 123 Ceramics III 1- 5

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

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

ART 217 Western Art:Renaissance to Mid 19th Century 5

A survey of the history of western art and architecture from Renaissance times to the mid nineteenth century. We will explore the art of Leonardo daVinci and Michelangelo to the beginnings of photography in the mid nineteenth century. HU

1264 01 MTWTh 11:45AM-12:50PM 1911 PALKOVIC R

ART 230 Painting/Drawing Workshop 5

Lab Fee: \$8.00

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

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

ART 231 Oil Painting I 5

Lab Fee: \$25.40

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

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

ART 232 Oil Painting II 5

Lab Fee: \$25.40

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

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

ART 233 Oil Painting III 5

Lab Fee: \$25.40

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

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

Automotive Technology

AUT 115 Automotive Shop Safety and Environmental Issues 1

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

1348 01 ARR ARR 3308 MARTIN J

AUT 121 Automotive Electrical and Electronic Systems 15

Lab Fee: \$78.75

This comprehensive course covers both theory and operation of the electrical systems in today's high-tech vehicles. Topics covered include D.C. electrical theory, D.C. circuitry, Ohms Law, solid state components, batteries, starting circuits, charging circuits, lighting circuits, vehicle wiring and ignition systems. Emphasis will be placed on using modern electrical test equipment and procedures to diagnose and repair complex electrical systems. This course is designed to prepare the student for the ASE/NATEF Electrical Systems Certification test, while instilling interpersonal and employability skills. There will be a heavy focus on customer service and quality control. This course teaches many fundamentals of electricity that are not taught in any other automotive class in this program. Prerequisite: AUT 115 Automotive Shop Safety and Environmental Issues. Co-Requisite: AUT 190 Automotive Lab

1352 01 MTWTh 09:00AM-03:00PM 3308 MARTIN J

AUT 132 Hydraulic Systems 3

Lab Fee: \$15.75

This course provides a student with the skills and knowledge necessary to maintain and service various hydraulic power transmission systems. Topics covered include hydraulic fundamentals, system operation, pump, valve and actuator service, as well as seals, lines and hydraulic system components. This course teaches many fundamentals of hydraulics that are not taught in any other automotive class in this program.
Prerequisite: AUT 115 Automotive Shop Safety and Environmental Issues Co-
Requisite: AUT 190 Automotive Lab

1366 01 MTWTh 08:00AM-09:00AM 3308 MARTIN J

AUT 190 Skills Laboratory I 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 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). Prerequisites: Concurrent enrollment in first year automotive program classes. classes.

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

AUT 212 Automatic Transmission Repair 9

Lab Fee: \$47.25

This course covers the theory, operation, service, and repair of various automatic transmission and transaxle assemblies. Classroom and laboratory instruction provide in-depth training using modern test equipment in the diagnosis and repair of these complex systems. This course will prepare students for the ASE/NATEF Automatic Transmission Repair Specialists Test.
Prerequisite: All First Year Certificate Auto Courses plus AUT 132

1378 01 MTWTh 09:00AM-12:00PM 4103 WYNDER D

AUT 213 Automotive Servicing I 6

Lab Fee: \$31.50

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

1382 01 MTWTh 01:00PM-04:00PM 3307 WYNDER D

AUT 290 Skills Laboratory II 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 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). Prerequisites: Concurrent enrollment in second year automotive program classes.

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

Aviation Commercial Pilot

AVF 111 Pre-Flight Ground School 1

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

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

AVF 113 Meteorology 5

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

1410 21 MW 04:00PM-06:30PM 3015 ALTROGGE B

1412 22 TTh 04:00PM-06:30PM 3015 GILLESPIE J

1414 23 MW 04:00PM-06:30PM 3015 GILLESPIE J

AVF 117 Aviation Emergency Preparedness & Response 1

Lab Fee: \$25.00

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

1420 01 Sa 08:00AM-05:00PM STAFF

AVF 142 Private Pilot Flight (Stage 2) 4

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

1430 01 MTWTh ARR 3001 SWEDBURG JM

AVF 190 Flight (Alternate) 1- 4

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

1438 01 MTWTh ARR 3001 SWEDBURG JM

AVF 221 Commercial Pilot Ground School 5

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

1450 21 MW 04:00PM-06:30PM 3024 LINTHICUM

1451 22 TTh 04:00PM-06:30PM 3016 LINTHICUM A

AVF 251 Commercial Pilot Flight (Stage 4) 4

Lab Fee: \$95.00

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

1470 01 MTWTh ARR 3001 SWEDBURG JM

AVF 252 Commercial Pilot Flight (Stage 5) 4

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

1474 01 MTWTh ARR 3001 SWEDBURG JM

AVF 254 Night Flying 1

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

1482 21 MTWTh ARR 3001 SWEDBURG JM

AVF 261 Instrument Flight (Stage 6) 4

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

1488 01 MTWTh ARR 3001 SWEDBURG JM

AVF 270 Flight Instructor 4

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

1492 01 ARR ARR 3001 SWEDBURG JM

AVF 271 Flight Instructor Instrument - Airplane 2

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

1496 01 MTWTh ARR 3001 SWEDBURG JM

AVF 275 Multi-Engine Flight Lab 2

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

1504 01 MTWTh ARR 3001 SWEDBURG JM

AVF 290 Flight (Alternate) 1- 4

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

1512 01 MTWTh ARR 3001 SWEDBURG JM

AVF 291 Multi-Engine - Instructor 2

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

1517 01 MTWTh ARR 3001 SWEDBURG JM

Aviation Maintenance

AMT 148 AMT General Electricity 1- 7

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

1548 01 ARR ARR 3200 STAFF

AMT 149 AMT Airframe Electricity 3

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

1554 01 ARR ARR 3200 BORG C

AMT 150 AMT General 4-16

Lab Fee: \$225.60

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

1558 01 MTWTh ARR 3200 STAFF

AMT 151 Airframe Mechanic I 4-22

Lab Fee: \$310.20

This course will cover aircraft airframe structures, including wood, fabric and sheet metal, airframe inspection, application of finishes and assembly of fixed wing and rotary wing components and structures, balancing and rigging of airframe structures and components. This course is FAA approved under 14 CFR Part 147. Prerequisite: instructor approval.

1564 01 MTWTh ARR 3200 BORG C

AMT 152 Airframe Mechanic II 4-21

Lab Fee: \$296.10

This course will cover aircraft airframe systems and components. To provide the skills in checking, overhaul, repairs, installation, removal, servicing, inspection, and troubleshooting of landing gear systems, hydraulic and pneumatic power systems, cabin atmosphere control systems, aircraft instruments, communication and navigation system lab, aircraft fuel systems, aircraft electrical systems, position and warning systems, ice and rain control systems, and fire protection systems. This course is FAA approved under 14 CFR Part 147. Prerequisite: instructor approval.

1568 01 MTWTh ARR 3200 BORG C

AMT 153 Airframe Mechanic III 4-24

Lab Fee: \$338.40

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

1574 01 MTWTh ARR 3200 BORG C

AMT 249 AMT Powerplant Electricity 2

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

1578 01 ARR ARR 3200 MOORE D

AMT 251 Powerplant Mechanics I 4-16

Lab Fee: \$225.60

As required by the Federal Aviation Administration, the Powerplant program is a minimum of 750 hr. of instruction with approximately 25% of the instruction in a class room environment and 75% of the instruction in a lab environment. There is approximately 30 hours of extra time at the end of

the Powerplant program, which is to be used for make-up time or for further competency enhancement. This course is FAA approved under 14 CFR Part 147. This course will cover two areas:

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

1584 01 MTWTh ARR 3200 MOORE D

AMT 252 Powerplant Mechanics II 4-14

Lab Fee: \$197.40

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

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

1588 01 MTWTh ARR 3200 MOORE D

AMT 253 Powerplant Mechanics III 4-16

Lab Fee: \$225.60

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

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

1594 01 MTWTh ARR 3200 MOORE D

AMT 254 Powerplant Mechanic IV 4-16

Lab Fee: \$225.60

As required by the Federal Aviation Administration, the Powerplant program is a minimum of 750 hr. of instruction with approximately 25% of the instruction in a class room environment and 75% of the instruction in a lab environment. AMT 254 is designed to allow students more time to achieve FAA required proficiency levels and to allow students to further their proficiency levels in aviation Powerplant related studies. This course will cover any area of the FAA required Powerplant curriculum that the student is deficient in, or if all required competencies have been met, the student may further their proficiency levels in any Powerplant related area of study. This course is FAA approved under 14 CFR Part 147. Prerequisite: AMT 251, 252, 253 and instructor permission.

1598 01 MTWTh ARR 3200 MOORE D

Basic Skills Education**DVS 080 College Transitions Math 1- 4**

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

5300 01H MTWTh 11:45AM-12:50PM 1855A INMAN E

5302 02H MTWTh 01:00PM-02:05PM 1855A INMAN E

5304 21H MW 06:00PM-08:20PM 1855B LEYVA F

DVS 015 Accelerated Learning Support 2

DVS 015 is designed to provide additional instruction and support for basic skills students in I-BEST or other college-level accelerated math and English classes. The course provides a review of core concepts and vocabulary introduced in the related college-level math and/or English courses and students engage in activities to help strengthen basic math and/or English skills. Prerequisite: Students must be concurrently enrolled in I-BEST or other college-level accelerated math and/or English classes.

5901 OL1 ARR ARR ERNETTE D

This course, REL 201 & ENGL 098 are part of a Learning Community and you are required to register for all courses in the learning community.

5902 OL2 ARR ARR ERNETTE D

This course, REL 201 & ENGL 099 are part of a Learning Community and you are required to register for all courses in the learning community.

Biology**BIOL&100 Survey of Biology 5**

Lab Fee: \$37.80

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

1600	01	MTTh	08:00AM-09:05AM	1218	ODEGAARD L
Lab		W	08:00AM-10:00AM	1211	ODEGAARD L
1601	02	MTTh	11:45AM-12:50PM	1203	WHITNEY M
Lab		W	10:30AM-12:30PM	1211	WHITNEY M
1602	03	MTTh	01:00PM-02:05PM	1217	WELCH C
Lab		W	01:00PM-03:00PM	1211	WELCH C
1603	OL1	ARR	ARR		HALEY G

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

BIOL&170 Human Biology 5

Lab Fee: \$10.00

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

1605	21H	TTh	06:00PM-08:20PM	1218	ODEGAARD L
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Students need to have access to a reliable computer and Internet connection.

BIOL&222 Majors Cell/Molecular 5

Lab Fee: \$37.80

The second quarter in a three-quarter general biology series, this series is designed for life-science majors, for pre-professional students, and for students intending to take advanced courses in the biological sciences. Topics of study include: cell chemistry and biological molecules, prokaryotic and eukaryotic cells, membrane transport, energetics and cell metabolism, cell communication, replication, gene expression, and gene regulation, cell division, genetics, and developmental genetics. Math/Science distribution requirement may not include more than 5 credits from BIOL& 211 and BIOL& 222 although graduation credit can be awarded for both. Related investigations take place in a three-hour lab period each week. NOTE: This majors' biology sequence may be taken in the following order: BIOL& 222, 223, and 221, with instructor's permission. Prerequisite: Successful completion of BIOL& 221 with a 2.0 or better and successful completion of either CHEM& 121 or CHEM&

161 with a 2.0 or better, or instructor's permission. NOTE: Students taking only BIOL& 222 as an alternative to BIOL& 211 must have instructor permission and must satisfy the prerequisites for BIOL&211. See BBCC Catalog for BIOL&211 prerequisites. LS

1620 01 MWTh 09:15AM-10:20AM 1203 WELCH C

Lab T 02:15PM-05:15PM 1211 WELCH C

BIOL&241 Human A & P 1 5

Lab Fee: \$37.80

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: *a grade of 2.0 or better in BIOL& 211 or BIOL& 222 and in CHEM& 121 or above, or a transcript within the last 5 years *a score of 4 or better in Advanced Placement Biology plus a year of high school Anatomy & Physiology and Chemistry within the last 2 years with a grade of B or better,with instructor permission. LS

1630 01 MW 01:00PM-02:15PM 1250 JACOBS B

Lab TTh 01:00PM-03:00PM 1209 JACOBS B

1632 02 MW 01:00PM-02:15PM 1250 JACOBS B

Lab MW 02:30PM-04:30PM 1209 JACOBS B

1634 03H ARR ARR JACOBS B

Lab TTh 01:00PM-03:00PM 1209 JACOBS B

Section 03H incorporates both traditional class time and a distance education component. Students attend weekly laboratory sessions and take tests on campus; class lectures and assignments are accessed online.

1635 04H ARR ARR JACOBS B

Lab MW 02:30PM-04:30PM 1209 JACOBS B

Section 04H incorporates both traditional class time and a distance education component. Students attend weekly laboratory sessions and take tests on campus; class lectures and assignments are accessed online.

BIOL&242 Human A & P 2 5

Lab Fee: \$37.80

The second quarter of a two-quarter sequence which includes the structure, function and pathology of the cardiovascular, lymphatic, respiratory, digestive, urinary and reproductive systems. Emphasis will be given to the homeostatic relationships between systems. Four hours of lab per week will be devoted to exploring these systems using the Visible Body program, a

synthetic cadaver, human autopsy slides and experimental procedures in cardiovascular and respiratory function as well as computer analysis of renal function. Lab is required for credit. Prerequisite: A minimum grade of 2.0 in BIOL& 241 or equivalent, or instructor permission. LS

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

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

1638 02H ARR ARR JACOBS B

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

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

Botany

BOT 130 Botany 5

Lab Fee: \$37.80

A study of the basic principles of plant life. Topics include: plant cells, tissues, and organs; plant physiology, transport, and reproduction; plant diversity and genetics, as well as a look at how society uses and relies on plants. Related investigations take place during two hours of lab each week. Laboratory topics reinforce classroom learning and include a study of plant structures and plant diversity. A greenhouse is available for class use during student plant propagation projects. LS

1660 01 MTW 11:45AM-12:50PM 1219 WELCH C

Lab Th 10:30AM-12:30PM 1211 WELCH C

Business

BUS& 101 Intro to Business 5

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

1702 01 MTWTh 11:45AM-12:50PM 1611 WILKS

BUS 102 Business Mathematics 5

Lab Fee: \$73.50

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

1707 26 ARR ARR CORRELL D

Class meets at SkillSource. Please call 766.6318 for more information.

BUS 120 Human Relations on the Job 4

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

1722 01 MTWTh 08:00AM-08:50AM 1611 STAFF
 1724 OL1 ARR ARR STAFF
 1725 26 ARR ARR CORRELL D

Class meets at SkillSource. Please call 766.6318 for more information.

BUS 121 Business English 5

Lab Fee: \$10.00

This course is designed to prepare students for today's offices where clear and concise writing is based on a sound understanding of grammar and is considered to be an essential job skill. Prerequisite: BCC English placement exam ENGL099 or successful completion of ENGL098 with a 2.0 or higher.

1728 01H TTh 10:30AM-11:35AM 1721 STAFF
 1732 26 ARR ARR CORRELL D

Class meets at SkillSource. Please call 766.6318 for more information.

BUS 135 Fndmntls of Logistics Trans, & Supply Chain Mgmt 1- 3

Lab Fee: \$44.10

This introductory course provides an overview of the fundamentals of commercial transportation, logistics, and supply chain management; an overview of the various operations and processes involved in efficient movement of cargo and impacts to the financial performance of business; and provides students with practical industry knowledge. Topics will include logistics and supply chain management, the physical side of materials management, inbound logistics and purchasing, physical distribution management, outbound logistics with regard to transportation, information technology systems, finance in logistics and supply chain management, and logistics and the supply chain in the global environment.

1747 26 ARR ARR CORRELL D

Class meets at SkillSource. Please call 766.6318 for more information.

BUS 161 Business Calculators 2

Lab Fee: \$11.00

Touch control training on the ten-key electronic display/printing calculator. Basic functions; development of proficiency with proration, percentage, interest, discount, present value, and profit computations. Prerequisite: Successful completion of MATH 094 or placement score into MATH 098 or above.

1750 01 MTWTh 02:15PM-03:05PM 1602 WILKS P

BUS 200 Supervision 5

The student will look at management in organizations and the information, tools, qualities, and skills needed to successfully manage others while fostering a positive work environment and contributing to organizational success. Prerequisite: BUS 120

1768 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

1772 01 MTWTh 08:00AM-09:05AM 1610 MICHIE L

Business Information Management

BIM 101 Basic Keyboarding 1- 2

Lab Fee: \$29.60

This course gives emphasis to learning the keyboard; namely, the alphabet, numbers, and symbols. This course is designed for the individual who has never taken a keyboarding class, who may want to renew keyboarding skills, or who wants to change keyboarding habits.

1795 01H MTWTh ARR 1613 DUVALL R

Start & end date: 01/07/19 to 02/28/19

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

1796 02H MTWTh ARR 1613 DUVALL R

Start & end date: 01/28/19 to 03/20/19

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

1800 26 ARR ARR CORRELL D

Class meets at SkillSource. Please call 766.6318 for more information.

BIM 102 Document Formatting 1- 4

Lab Fee: \$39.20

This course gives primary emphasis to the formatting of business documents using Microsoft Word 2016. Prerequisite: BIM 101 or Basic Keyboarding Skills.

1802 01H MTWTh ARR 1613 DUVALL R

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

1804 26 ARR ARR CORRELL D

Class meets at SkillSource. Please call 766.6318 for more information.

BIM 103 The Administrative Professional 2

Lab Fee: \$19.60

This course is an introduction to the administrative professional career.

1806 01H W 11:45AM-12:50PM 1612 DUVALL R

BIM 104 Intermediate Keyboarding 1- 3

Lab Fee: \$29.40

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

1814 01H MTWTh ARR 1613 DUVALL R

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

1815 02H MTWTh ARR 1613 DUVALL R

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

1816 26 MTWTh ARR CORRELL D

Class meets at SkillSource. Please call 766.6318 for more information.

BIM 106 Advanced Keyboarding 1- 3

Lab Fee: \$29.40

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

1817 01H MTWTh ARR 1613 DUVALL R

This is not an online course; it is a self-paced course that requires attendance. See your Canvas class site for information. Prerequisite: BIM 104.

1819 26 MTWTh ARR CORRELL D

Class meets at SkillSource. Please call 766.6318 for more information.

BIM 113 The Medical Office 5

Lab Fee: \$59.00

The course will cover the basic job skills and requirements needed to work in a medical office, making appointments, and referrals, HIPAA laws, retrieving billing and coding information, handling patient concerns and questions, proper telephone and collection techniques, managing health records and patient requirements for medical business office personnel. Additional topics include: the general flow of information, the role that computers play in a medical office, and how to use medical office software

for activities such as entering data, billing, filing claims, scheduling, and printing reports. Prerequisite: HED 119 or instructor permission and basic computer knowledge.

1820 21H TTh 06:00PM-08:00PM 1612 BAKER R

BIM 109 Internet Communications 1

Lab Fee: \$14.70

This course will introduce the functions of Outlook 2016 and other online communications and the fundamental use and sharing of online documents and data.

1822 26 MTWTh ARR CORRELL D

Class meets at SkillSource. Please call 766.6318 for more information.

1823 01H MTWTh ARR 1613 DUVALL R

Start & end date: 01/07/19 to 02/28/19

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

1824 02H MTWTh ARR 1613 DUVALL R

Start & end date: 01/28/19 to 03/20/19

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

BIM 110 Microsoft Office Essentials 1- 3

Lab Fee: \$29.40

This course is an introduction to Microsoft Office Suite 2016. This course is not intended for Business Information Management majors. Credit cannot be earned in both BIM 110 and BIM 108.

1826 01H MTWTh ARR 1613 DUVALL R

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

BIM 112 Proof & Edit 1- 3

Lab Fee: \$29.40

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

1830 01H MTWTh ARR 1613 DUVALL R

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

BIM 130 Filing 1- 2

Lab Fee: \$19.60

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

1850 01H MTWTh ARR 1613 DUVALL R

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

1853 26 MTWTh ARR CORRELL D

Class meets at SkillSource. Please call 766.6318 for more information.

BIM 173 Word Processing I 1- 5

Lab Fee: \$49.00

This course is an in-depth introduction to Microsoft Word. The focus is to learn functions of Word 2016, to apply these functions to business situations, and begin preparing students for the Microsoft Office Specialist exam. Tech Prep credit available. Prerequisite: BIM102 or instructor permission

1860 01H MTWTh ARR 1613 DUVALL R

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

BIM 177 Office Information Management Lab 1- 6

Lab Fee: \$58.80

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

1866 01H MTWTh ARR 1613 DUVALL R

See your Canvas class site for information.

BIM 180 Introduction to Microsoft Office 1- 5

Lab Fee: \$49.00

This course is an introduction to the basic functions of Microsoft Office 2016 - Word, Excel, Access, PowerPoint, and Integration. This course is intended for Business Information Management and Accounting students. Prerequisite: BIM102 and successful completion of MATH094 or BCCC Placement Exam into MATH 098 or higher.

1870 01H MTWTh ARR 1613 DUVALL R

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

1873 26 ARR ARR CORRELL D

Class meets at SkillSource. Please call 766.6318 for more information.

BIM 181 Introduction to Microsoft Office: Word 1- 3

Lab Fee: \$39.40

This course provides an introduction to Microsoft Word 2016. It is not intended for Business Information Management Program students.

1876 01H MTWTh ARR 1613 DUVALL R

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

BIM 182 Introduction to Microsoft Office: Excel 1- 3

Lab Fee: \$39.40

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

1881 01H MTWTh ARR 1613 DUVALL R

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

1883 26 ARR ARR CORRELL D

Class meets at SkillSource. Please call 766.6318 for more information.

BIM 183 Introduction to Microsoft Office: Access 1- 3

Lab Fee: \$39.40

This course provides an introduction to Microsoft Access 2016. It is not intended for Business Information Management Program students.

1886 01H MTWTh ARR 1613 DUVALL R

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

BIM 184 Introduction to Microsoft Office: PowerPoint 1- 3

Lab Fee: \$39.40

This course provides an introduction to Microsoft PowerPoint 2016. It is not intended for Business Information Management Program students.

1891 01H MTWTh ARR 1613 DUVALL R

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

BIM 190 Spreadsheets I 1- 5

Lab Fee: \$49.00

This course is an in-depth introduction to Microsoft Excel 2016. The focus is to learn functions of Excel, to apply this knowledge to business situations, and to begin preparing students for the Microsoft Office Specialist Expert exams. Prerequisite: Successful completion of BUS102-

Business Mathematics, or successful completion of MATH 094 or BCC Placement Exam into MATH 098 or higher.

1900 01H MTWTh ARR 1613 DUVALL R

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

BIM 210 Internet 1- 2

Lab Fee: \$29.60

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

1921 01H MTWTh ARR 1613 DUVALL R

Start & end date: 01/07/19 to 02/28/19

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

1922 02H MTWTh ARR 1613 DUVALL R

Start & end date: 01/28/19 to 03/20/19

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

BIM 280 Advanced Microsoft Office 1- 5

Lab Fee: \$49.00

This course is a continuation from BIM180 and introduces the advanced features and integration capabilities of Microsoft Office 2016. This course consists of five modules--Word, Excel, Access, PowerPoint, and Integration. Prerequisite: BIM180

1942 01H MTWTh ARR 1613 DUVALL R

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

BIM 285 MOS Prep & Certification 1- 5

Lab Fee: \$49.00

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

1944 01H MTWTh ARR 1613 DUVALL R

Chemistry

CHEM&105 Chemical Concepts 5

Lab Fee: \$10.00

This course is intended for non-science majors. The focus is on fundamental topics of chemistry such as; atoms and molecules, periodic table, organic chemistry, biochemistry, and radioactivity as they relate to current society. This class is intended to increase scientific literacy in non-science majors. This class can also provide some preparation for students with a limited chemistry background planning to continue on to CHEM& 121. Prerequisite: Passing grade in MATH 094 or placement in MATH 098. NS

1950 01 MTWTh 09:15AM-10:20AM 1202 GROCE L

CHEM&121 Intro to Chemistry 5

Lab Fee: \$37.80

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

Prerequisite: Passing grade in Math 098 or placement in Math 099. A passing grade in High School Chemistry or completion of CHEM& 105 is recommended.

1967 01 MWTh 11:45AM-12:50PM 1202 BAUER S

Lab T 11:45AM-01:45PM 1216 BAUER S

1968 02 MWTh 01:00PM-02:05PM 1203 BAUER S

Lab T 02:15PM-04:15PM 1216 BAUER S

1970 04 MTW 02:15PM-03:20PM 1218 KEEFE A

Lab Th 02:15PM-04:15PM 1216 KEEFE A

CHEM&131 Intro to Organic/Biochem 5

Lab Fee: \$37.80

This course is designed for Allied Health transfer students and for students wanting an introductory organic chemistry course in preparation for a complete organic chemistry sequence at a baccalaureate institution. Topics include an introduction to alkanes, alkenes and alkynes, an exploration of common functional groups, and organic nomenclature. The course also explores the relationship of organic compounds such as carbohydrates, lipids, proteins, and enzymes with the human body. CHEM& 131 includes 25-30 hours of laboratory. Laboratory exercises are designed to reinforce classroom learning as well as providing hands on experience with chemical reactions. Prerequisite: A grade of 2.0 or above in CHEM& 121 or instructor permission. LS

1975 01 MTW 09:15AM-10:20AM 1218 BAUER S

Lab Th 08:00AM-10:20AM 1216 BAUER S

CHEM&162 General Chem w/Lab II 5

Lab Fee: \$37.80

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

1991 01 MTTh 11:45AM-12:50PM 1218 GROCE L

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

1993 02 MTTh 01:00PM-02:05PM 1218 GROCE L

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

College Success Skills

CSS 100 College Success Skills 3

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

2015 01 MTW 09:15AM-10:05AM 1856 WORKMAN J

2016 02 MTW 10:30AM-11:20AM 1856 WORKMAN J

2017 03 MTW 11:45AM-12:35PM 1910 STAFF

2019 04 MTW 01:00PM-01:50PM 1911 STAFF

2020 21 TTh 07:30PM-08:45PM 1604 STAFF

2022 OL1 ARR ARR OLSON Z

Class meets online through Canvas.

2032 26 ARR ARR CORRELL D

Class meets at SkillSource. Please call 766.6318 for more information.

CSS 102 Focus on Success 3

Lab Fee: \$10.00

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

2056 OL1 ARR ARR ERNETTE D

Class meets online through Canvas.

CSS 105 Introduction to Healthcare Studies 3

Lab Fee: \$10.00

This course provides the foundation for understanding the educational responsibilities of choosing a career in the healthcare field. Students will identify the scope of education and practice of various members of the healthcare profession in order to develop an educational and career plan. Additional key topics include test-taking preparation, critical thinking, leadership skills, communication styles, ethical decision making, note-taking and study tactics, and accessing reference sources.

2065 21H T 05:30PM-06:30PM 1718 STAFF

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

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.

2066 01 ARR 07:30AM-04:00PM 1534 GARZA G

CDL 100 Commercial Driver's License (CDL) 17

Lab Fee: \$3075.44

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

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

Start & end date: 01/07/19 to 02/11/19

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

2071 02H DAILY 07:30AM-04:00PM 1534 GARZA G

Start & end date: 02/19/19 to 03/25/19

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

Computer Science

CS 104 Intro to Computer Hardware 3

Lab Fee: \$27.00

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

2110 21 T 05:00PM-08:20PM 1509 STAFF

Students need to have access to a reliable computer and Internet connection.

CS 105 Intro to Computer Operating Systems 3

Lab Fee: \$27.00

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

2114 21 Th 05:00PM-08:20PM 1508

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

CS 110 Networking Fundamentals 3

Lab Fee: \$37.00

An introduction to the basic concepts of computer networking, including: the OSI model, working with network-related hardware, network configuration with TCP/IP, network operating system basics, fault tolerance issues, and troubleshooting network problems. The course prepares students for the CompTIA Network+ certification exam.

2120 21H MW 06:30PM-08:30PM 1509 ELLESTAD M

Students need to have access to a reliable computer and Internet connection.

CS 115 Intro to Database Design & Management 5

Lab Fee: \$55.00

This course will examine the theory of database design and management, including how collections of data are organized, stored, and analyzed. Topics include the fundamentals of the relational model, Structured Query Language (SQL), data modeling, database design and administration, and web database processing. Introductory business and financial services applications will be used to illustrate course concepts through lectures and hands-on labs.

2135 21H MTWTh 03:00PM-04:45PM 1508 WANNER A

CS& 131 Computer Science I C++ 5

Lab Fee: \$45.00

An introduction to computer programming design and development with a primary focus on data structures and abstraction using the C++ object-oriented programming language. Topics include logical problem-solving, algorithm development, and programming basics, including an understanding of pointers, dynamic memory allocation, and data structures such as linked lists. Prerequisite: MATH& 141 or concurrent enrollment. SE

2141 01 MTWTh 01:00PM-02:45PM 1508 WANNER A

CS 132 Advanced Programming with C++ 5

Lab Fee: \$45.00

This course expands on the fundamentals covered in CS& 131. Students will develop intermediate C++ programs for both traditional data processing and object-oriented applications. Through the experience of creating these programs and methods the student will learn advanced features of C++ object-oriented programming to solve problems in various domains. Prerequisite: CS& 131

2143 01 MTWTh 01:00PM-02:45PM 1508 WANNER A

CS 156 Cisco Networking:Introduction to Networks 5

Lab Fee: \$45.00

Introduces the architecture, structure, functions, components, and models of the Internet and computer networks. The principles of IP addressing and fundamentals of Ethernet concepts, media, and operations are introduced. Students will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. This is the first of two courses comprising the Cisco CCENT certification and covers the technical knowledge and skills required to take the Cisco ICND1 exam. Prerequisite: CS 104 and CS 105

2160 21 TTh 05:00PM-08:00PM 1508 GUZMAN NOE

CS 158 Cisco Networking:Scaling Networks 5

Lab Fee: \$45.00

Describes the architecture, components, and operations of routers and switches in a large and complex network. Students learn how to configure routers and switches for advanced functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with OSPF, EIGRP, STP, and VTP in both IPv4 and IPv6 networks. Students will also develop the knowledge and skills needed to implement DHCP and DNS operations in a network. Prerequisite: CS 157

2162 21 TTh 05:00PM-08:00PM 1508 GUZMAN NOE

CS 235 Data Structures and Algorithms 5

Lab Fee: \$28.25

Basic data structures such as stacks, queues, linked lists, and trees are studied and applied to problems in data storage and manipulation.

Applications include basic searching and sorting algorithms. Design, analysis and implementation techniques are discussed to illustrate and apply the concepts of the course. Prerequisites: CS 132 and CS 142 or instructor permission.

2168 01 MTWTh 01:00PM-02:45PM 1508 WANNER A

CS 195 Internship: Work Based Learning 1- 4

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

2171 01 ARR ARR WANNER A

CS 197 Internship: Work Based Learning Seminar 1

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

2172 01 ARR ARR WANNER A

CS 205 Windows Server Admin 5

Lab Fee: \$55.00

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

2175 21H MW 06:30PM-07:50PM 1508 BETZING P

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

CS 207 Introduction to Security Administration 5

Lab Fee: \$55.00

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

2176 21H MW 05:00PM-06:20PM 1508 WANNER A

This is a hybrid class that incorporates traditional class time & a distance education component. Class meets each Wednesday and the remainder of the class is delivered online. Students must have access to a reliable internet connection.

Communications**CMST 100 Human Communications 4**

This course will provide students with applied communication skills. Students will learn practical application of small group presentations, conflict resolution and increased confidence in personal communication skills. Exemplifying self-concept, perception, verbal and non-verbal attributes and attitudes experienced between family, friends, and employment relationships.

2181 01 MTWTh 08:00AM-08:50AM 2032 DOTY M

2183 26 ARR ARR CORRELL D

Class meets at SkillSource. Please call 766.6318 for more information.

CMST&102 Intro to Mass Media 5

Lab Fee: \$10.00

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

2184 OL1 ARR ARR VALDEZ R

Class meets online through Canvas.

CMST&210 Interpersonal Communications 5

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

2186 01 MTWTh 11:45AM-12:50PM 2032 DOTY M

CMST&220 Public Speaking 5

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

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

2190 02H MTWTh 09:15AM-10:20AM 1606 JACKSON K

Students need to have access to a reliable computer and Internet connection.

2191 03 MTWTh 10:30AM-11:35AM 1606 CLOSE S

2192 04H W 01:00PM-03:30PM 2031 POTH MITCH

Students need to have access to a reliable computer and Internet

connection as this is a hybrid (online and face-to-face) course. Class meets on campus 1/9, 1/30, 2/6, 2/27, 3/13.

2196 21H W 06:00PM-08:30PM 1606 POTH MITCH

Students need to have access to a reliable computer and Internet connection as this is a hybrid (online and face-to-face) course. Class meets on campus 1/9, 1/30, 2/6, 2/27, 3/13.

Criminal Justice

CJ& 101 Intro Criminal Justice 5

Lab Fee: \$10.00

This course provides an overview of the criminal justice system discussing law enforcement, the courts, corrections, juvenile justice, and current issues. This course examines the Constitutional requirements, historical development of the system, the agencies, processes and theories within the criminal justice system. Emphasis is placed on how the various systems interrelate and interact with each other to attain the goal of an equitable delivery of crime-related public services. SS

2205 21H MW 04:30PM-06:50PM 1609 LEONARD R

Section 21H incorporates traditional class time and a distance education component. Students need to have access to a reliable internet connection. Attend the first day of scheduled class for further instructions.

2206 OL1 ARR ARR POPLAWSKI N

For section OL1, all coursework for this class will be completed online. Students need to have access to a reliable Internet connection.

CJ 215 Criminal Investigations 5

Lab Fee: \$10.00

This course will review the role investigations play in the criminal justice system. Topics covered will include investigative theory, collection and preservation of evidence, sources of information, interview and interrogation, uses of forensic sciences, case and trial preparations. Investigation techniques will be practiced as part of the course. Prerequisite: Completion of CJ& 101, or instructor permission.

2230 01H MTWTh 09:15AM-10:20AM 1611 FARMAN J

Section 01H incorporates traditional class time and a distance education component. Students need to have access to a reliable internet connection. Attend the first day of scheduled class for further instructions.

Early Childhood Education

ECED&107 Health/Safety/Nutrition 5

Lab Fee: \$10.00

Develop knowledge and skills to ensure good health, nutrition, and safety of children in group care and education programs. Recognize the signs of abuse and neglect, responsibilities for mandated reporting, and available community resources.

2273 21H T 06:00PM-08:00PM 1611 STAFF

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

ECED&120 Practicum-Nurturing Rel 2

Lab Fee: \$12.00

This course will provide students an opportunity to apply best practice for engaging in nurturing relationships with children in an early learning setting. Focus on keeping children healthy and safe while promoting growth and development. Students will be required to observe children infancy to age eight in an educational setting for three hours per week throughout the quarter. Prerequisite: ECED& 105 and instructor permission.

2278 21H T 04:00PM-06:00PM 1611 NIGHSWONGER

Permission required. Contact Jenny Nighswonger at 793.2216. Students are required to pass a WSP background check, obtain liability insurance & provide results of a negative Tuberculin skin test prior to registering for this course.

ECED&132 Infant/Toddlers Care 3

Lab Fee: \$10.00

Examine the unique developmental needs of infants and toddlers. Study the role of the caregiver, relationships with families, developmentally appropriate practices, nurturing environments for infants and toddlers, and culturally relevant care.

2282 OL1 ARR ARR GILES A

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

ECED&160 Curriculum Development 5

Lab Fee: \$10.00

Investigate learning theory, program planning, and tools for curriculum development promoting language, fine/gross motor, social-emotional, cognitive and creative skills and growth in young children (birth-age 8). Prerequisite: Concurrent enrollment in ECED& 190

2290 21H Th 05:00PM-07:00PM 1611 STAFF

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

ECED&190 Observation/Assessment 3

Lab Fee: \$10.00

Collect and record observation of and assessment data on young children in order to plan for and support the child, the family, the group and the community. Practice reflection techniques, summarizing conclusions and communicating findings

2304 21H Th 07:00PM-08:30PM 1611 STAFF

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

Economics**ECON 200 Introduction to Economics 5**

Lab Fee: \$10.00

Overview of the basic principles of the American economy to include supply and demand, money and banking, international trade, GDP, inflation, unemployment, and analysis of the market system. Strongly recommend placement in MATH098 or higher and placement in ENGL 099 or higher. THIS IS NOT A SUBSTITUTE FOR ECON& 201 OR 202. SS

2316 OL1 ARR ARR STAFF

Section OL1: All course work for this class will be completed online through Canvas. Students need to have access to a reliable internet connection.

ECON&201 Micro Economics 5

Lab Fee: \$10.00

Micro economic concepts are applied to business and household decision-making. Major topics include: scarcity and choice, production possibilities, supply and demand analysis, elasticity, consumer choice, production and costs, market structures. Prerequisite: Strongly recommend placement in MATH 098 or higher and placement in ENGL 099 or higher.SS

2321 OL1 ARR ARR PYLE T

ECON&202 Macro Economics 5

Introduction to the principles of Macro Economics including unemployment, inflation, aggregate demand/supply, Classical and Keynesian Theories, fiscal and monetary policy tools, money and banking, and current economic problems. Strongly recommend placement in MATH 098 or higher and placement in ENGL 099 or higher. SS

2325 01 MTWTh 08:00AM-09:05AM 1607 PYLE T

2326 OL1 ARR ARR PYLE T

Education

EDUC&202 Intro to Education 5

Lab Fee: \$10.00

This is a survey course in the history, philosophy, and principles of education. This course examines current issues and trends in American education. Students are given the opportunity to explore the variety of occupations available in their specialty or interest area within the realm of Pre-K to 12th grade education. Credit cannot be earned in both EDUC&201 and EDUC&202. Prerequisite: Successful completion of ENGL 099 or placement in ENGL& 101(Formerly : EDUC& 201)

2400 OL1 ARR ARR STAFF

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

EDUC 190 Classroom Experience 3

Lab Fee: \$30.00

This course will provide students with the opportunity to gain practical, hands-on experience working with children infancy to age eight in a variety of educational settings and to reflect on the experiences. Students will be required to assist a classroom teacher for six hours per week throughout the quarter. Can be repeated up to nine credits. (Prior to registering for this course, students must be cleared through the National Sex Offender Registry system, provide results of a negative Tuberculin skin test within the last year and obtain WEA liability insurance. Upon placement, students must pass a background check with their hosting agency). Prerequisite: ECED& 120 or EDUC& 202 or instructor permission.

2414 21H M 04:00PM-06:00PM 1611 NIGHSWONGER

Permission required. Contact Jenny Nighswonger at 793.2216. Students are required to pass a WSP background check, obtain liability insurance & provide results of a negative Tuberculin skin test prior to registering for this course.

2415 22H M 04:00PM-06:00PM 1611 NIGHSWONGER

Permission required. Contact Jenny Nighswonger at 793.2216. Students are required to pass a WSP background check, obtain liability insurance & provide results of a negative Tuberculin skin test prior to registering for this course.

2416 23H M 04:00PM-06:00PM 1611 NIGHSWONGER

Permission required. Contact Jenny Nighswonger at 793.2216. Students are required to pass a WSP background check, obtain liability insurance & provide results of a negative Tuberculin skin test prior to registering for this course.

Engineering**ENGR&111 Engineering Graphics I 5**

Lab Fee: \$60.00

This course studies the principles of mechanical drawings: geometric construction, orthographic projection, sectional views, auxiliary views, isometric and oblique drawings, dimensions, threads, fasteners, and lettering using AutoCad software. This software is used by engineers to communicate proposed designs and new ideas. (FORMERLY: ENGR 160)

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

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

ENGR&112 Engineering Graphics II 5

Lab Fee: \$100.00

This course uses computer software to draft parametric models in three dimensions using Solidworks software. This course covers file management methods, rapid prototyping, and 2D drawing development techniques. (Formerly: ENGR 265)SE

2460 21H MW 06:00PM-08:00PM 1203 STAFF

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

ENGR&215 Dynamics 5

Lab Fee: \$20.00

Dynamics is the study of the accelerated motion of particles and rigid bodies. The study of the motion in this course will deal with kinematics (the mathematical description of the motion) and kinetics (the analysis of the forces causing the motion). Vector notation and operations will be used extensively in this course, and calculus will be used regularly. Prerequisites: ENGR& 214, PHYS& 221, and MATH& 152 with grades of 2.0 or higher (Formerly EGR 212) NS

2472 OL1 ARR ARR STAFF

For section OL1, all coursework for this class will be completed online. Students need to have access to a reliable Internet connection.

ENGR 240 Applied Numerical Methods 5

Lab Fee: \$60.00

This course includes application of the following methods: elements of error analysis, real roots of an equation, polynomial approximation by finite difference and least square methods, interpolation, quadrature, numerical solution of ordinary differential equations, and numerical solutions of systems of linear equations. The student should expect to program a computer in addition to using a graphing calculator. Prerequisite: MATH& 163 with grade of 2.0 or higher; or instructor permission. NS

2481 01 MTWTh ARR 1203 HAMM J

English

ENGL 098 Basic English Skills 5

Lab Fee: \$23.00

English 098 Basic English Skills provides instruction in basic writing skills, particularly sentence patterns and paragraph development. The course also introduces students to concepts of grammar, mechanics, punctuation, spelling, word usage, vocabulary development, reading comprehension, and reading fluency. See course some sections of this course require co-enrollment in additional classes as part of a learning community. Prerequisite: English Placement Test

2523 01 MTWTh 09:15AM-10:20AM 1855B OLSON Z
 2524 02 MTWTh 10:30AM-11:35AM 1855B OLSON Z
 2525 03 MTWTh 11:45AM-12:50PM 1855B OLSON Z
 2526 04 MTWTh 01:00PM-02:05PM 1855B STAFF
 2527 05H Sa 10:00AM-02:00PM 1608 STAFF

Students need to have access to a reliable computer and Internet connection.

2528 21H TTh 06:00PM-07:10PM 1608 STAFF

Students need to have access to a reliable computer and Internet connection.

2529 22 TTh 06:00PM-08:20PM 1608 STAFF
 2530 OLB ARR ARR ERNETTE D

This course and REL& 201 OLB & DVS 015 are part of a learning community & you are required to register for all classes in the learning community. Students may earn ENGL& 101 credit depending on demonstrated competencies.

ENGL 099 English Skills 5

Lab Fee: \$23.00

This course includes a step-by-step review of grammatical relationships, sentence patterns, punctuation and usage with concentration on the writing of expository paragraphs and essays. Student writing will primarily be generated from the critical reading of texts taken from across the disciplines. A grade of 2.0 is required to move into ENGL & 101. See course notes: some sections of this course require co-enrollment in additional classes as part of a learning community. Prerequisite: Successful completion of English 098 or direct placement through the English Placement Test.

2532 01 MTWTh 09:15AM-10:20AM 1855B OLSON Z
 2533 02 MTWTh 10:30AM-11:35AM 1855B OLSON Z
 2535 03 MTWTh 11:45AM-12:50PM 1855B OLSON Z
 2536 04 MTWTh 01:00PM-02:05PM 1855B STAFF
 2537 05H Sa 10:00AM-02:00PM 1608 STAFF

Students need to have access to a reliable computer and Internet connection.

2538 21H TTh 06:00PM-07:10PM 1608 STAFF

Students need to have access to a reliable computer and Internet connection.

2539 22 TTh 06:00PM-08:20PM 1608 STAFF

2540 OLB ARR ARR ERNETTE D

This course and REL& 201 O2B & DVS 015 are part of a learning community & you are required to register for all classes in the learning community. Students may earn ENGL& 101 credit depending on demonstrated competencies.

ENGL&101 English Composition I 5

Lab Fee: \$23.00

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 2.0 in English 099-BS

2546 01 MTWTh 08:00AM-09:05AM 1855A STAFF

2549 02 MTWTh 09:15AM-10:20AM 1855A STAFF

2550 03 MTWTh 10:30AM-11:35AM 1608 STAFF

2551 04 MTWTh 11:45AM-12:50PM 1605 STAFF

2554 05 MW 01:00PM-03:20PM 1606 STAFF

2556 OL1 ARR ARR RASMUSSEN P

Class meets online through Canvas.

2557 OL2 ARR ARR STAFF

Class meets online through Canvas.

2558 OL3 ARR ARR ERNETTE D

This course and REL& 201 OL3 are part of a learning community and you are required to register for all classes in the learning community.

ENGL&102 Composition II 5

Lab Fee: \$23.00

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

2561 01 MTWTh 08:00AM-09:05AM 1606 CLOSE S

2562 02 MTWTh 09:15AM-10:20AM 1607 TWOHY S

2563 03 MTWTh 09:15AM-10:20AM 1909 SULLIVAN M

2565 04 MTWTh 10:30AM-11:35AM 1605 STAFF

2566 05 MTWTh 10:30AM-11:35AM 1607 TWOHY S
 2568 06 MTWTh 11:45AM-12:50PM 1607 CLOSE S
 2569 07 MW 01:00PM-03:20PM 1909 SULLIVAN M
 2570 08 TTh 01:00PM-03:20PM 1909 PALUMBO A
 2571 21 MW 06:00PM-08:30PM 1610 MURRAY A
 2572 OL1 ARR ARR RAMM J

Class meets online through Canvas.

ENGL 105 The Moral of the Story 5

Lab Fee: \$10.00

This course examines different ways that we can find meaning and value in the stories that surround us. We will use our own values and experiences, as well as other perspectives, to gain a better understanding of cultural artifacts such as movies, written texts, songs, comics/graphic novels, and even physical objects, such as cars or clothing. This class has no prerequisite and focuses more on ideas than writing skills. This course is not a replacement or prerequisite for required English composition courses. It is recommended for students who are exploring degree options or considering a career related to the liberal arts.HU

2574 21H T 06:00PM-08:30PM 1607 CLOSE S

Students need to have access to a reliable computer and Internet connection.

ENGL 198 Special Projects in English 1- 3

Special Projects in English individual projects by special arrangement with instructor. Prerequisite: Instructor permission and completed Learning Contract. HU

2578 01 ARR ARR ERNETTE D

This section provides learning opportunities with the BBCC Student Writing Contest: recruitment, document design, editing, evaluating, and research into small college literary journals.

ENGL 211 Creative Writing: Fiction 5

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

2590 01 MTWTh 10:30AM-11:35AM 1909 SULLIVAN M

ENGL&235 Technical Writing 5

Lab Fee: \$33.00

This course is designed to improve students' written technical communication skills as are related to a range of professional applications. The goal of technical writing is to communicate a message clearly, concisely, and

persuasively. This course emphasizes critical thinking skills as applied to technical writing, attention to research techniques, detail, professionalism, purpose, and audience. Students will learn to design, format, and produce documents common in business and industry. Prerequisite: ENGL& 101 BS/HU

2611 01H T 01:00PM-03:10PM 1606 TWOHY S

ENGL 261 Women's Literature 5

This course aims to study women's unique literary voice as a reflection of their history, their place in society, and their role in a changing world. In this survey literature course we will read fiction, memoirs, and poetry written by prominent women authors that take on topics of women's suffrage, health care, reproductive rights, domestic violence, body image, gender performativity, sexuality / gender identity, and other issues of female empowerment. Emphasis is on the development of critical thinking skills through a series of papers and projects that draw into question the development of differences between the sexes, the acquisition of gender roles, and the maintenance of gender stereotypes. HU

2648 01 MTWTh 11:45AM-12:50PM 1606 PALUMBO A

Environmental Science

ENVS&100 Survey of Environmental Science 5

Lab Fee: \$10.00

An introduction to the fundamental principles of environmental science, topics of study include some of the following topics: environmental, science, and information literacy, human population growth, environmental health, ecological economics and consumption, solid waste, ecosystems and nutrient cycling, population and community ecology, evolution and extinction, biodiversity and preserving biodiversity, freshwater resources and water pollution, food resources and sustainable agriculture, coal and petroleum, air pollution and climate change, nuclear power, alternative energy sources, environmental policy, and urbanization and sustainable communities.NS

2670 01 MTWTh 01:00PM-02:05PM 1611 WHITNEY M

2671 OL1 ARR ARR WHITNEY M

Section OL1: Students access course resources, participate in class discussions & submit assignments, quizzes, and tests online.

First Aid

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

Lab Fee: \$9.80

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

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

Books are required. Class meets 1/11, 1/18, 1/25

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

Books are required. Class meets 1/12, 1/19, 1/26

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

Books are required. Class meets 2/1, 2/8, 2/15

2683 04 F 09:00AM-05:00PM 1507 BENKO A

Books are required. Class meets 2/22, 3/1, 3/8

French

FRCH&121 French I 5

Lab Fee: \$5.00

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

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

FRCH&122 French II 5

Lab Fee: \$5.00

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

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

FRCH&123 French III 5

Lab Fee: \$5.00

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

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

Geology

GEOL&101 Intro Physical Geology 5

Lab Fee: \$37.80

This course provides a study of the structure and composition of the earth's crust. Emphasis is placed on mountain building forces, weathering, natural hazards, rocks and minerals, and structural change. Upon completion, students should be able to explain the structure, composition, and formation of the earth's crust. There will be a required field trip that will take the time of a lecture and lab. Prerequisite: MATH 098 completion. LS

2771 01 MTWTh 01:00PM-01:50PM 1252 MARION B

Lab Th 02:00PM-04:00PM 1250 MARION B

There will be a scheduled field trip that will take the time of regular lab time towards the end of the quarter, details of the field trip will be discussed in class.

Health Education

HED 119 Medical Terminology 5

Lab Fee: \$10.00

This course offers a broad overview of the fundamentals of medical terminology. Topics covered include: prefixes, suffixes, combining forms, word roots, abbreviations and basic human anatomy and physiology as they pertain to all major body structures and functions.

2796 OL1 ARR ARR MOTZKUS P

Section OL1: All course work for this class will be completed online through Canvas. Students need to have access to a reliable internet connection.

HED 122 The Human Body and Disease II 5

Lab Fee: \$10.00

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

2810 01H T 01:00PM-03:00PM 1722 AUSERE S

Students need to have access to a reliable computer and Internet connection.

HED 239 Medical Ethics 2

Lab Fee: \$10.00

This course introduces ethical and legal issues facing medical professionals.

2850 21H M 05:30PM-06:50PM 1721 MOTZKUS P

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

History

HIST 110 The American Experience 5

Lab Fee: \$10.00

A brief history of the United States, this course combines a chronological and thematic approach to answer a few essential questions-the most important

of which being, what does it mean to be an American? Critical periods in American History are examined with an eye toward their lasting impact upon American culture and politics. These periods include the colonial and revolutionary era, the age of reform (1830s/40s), the Civil War and Reconstruction, the Age of Industrialization, and world wars, and the Cold War. Essential questions will examine such things as democracy, opportunity, justice and equality. SS

2895 OL1 ARR ARR RODMAN S

Section OL1: All course work for this class will be completed online through Canvas. Students need to have access to a reliable internet connection.

HIST&127 World Civilizations II 5

Lab Fee: \$10.00

World Civilizations II is a systematic study of the major patterns of global history in the modern period, from 1000 C.E. to 1850 C.E. This course analyzes the distinguishing characteristics of the world's major civilizations, and the gradual integration of the diverse cultures of the world into an interconnected system. Students will examine the major political, social, cultural, and economic developments, including the spread of Islam and European exploration in Africa, Asia, and the Americas. We will pay particular attention to colonialism, slavery, revolution, nationalism, globalization, democracy, and human rights. This course develops critical thinking, writing, and analytical skills by employing the same skills and methods used by historians to piece together an informed and coherent view of the past. SS

2927 01H TTh 10:30AM-11:35AM 1611 QUITADAMO J

Section 01H incorporates traditional class time and a distance education component. Students need to have access to a reliable internet connection. Attend the first day of scheduled class for further instructions.

HIST&136 US History 1 5

Lab Fee: \$10.00

Covering the first half of American history, this course takes students on a journey from the European foundations for colonization in the New World to the conclusion of the American Civil War. Along the way students are exposed to the philosophic, cultural, and political underpinnings of the American story, and personalities and events which bring that story to life. SS

2931 01H MW 11:45AM-12:50PM 1601 RILEY C

Section 01H incorporates traditional class time and a distance education component. Students need to have access to a reliable internet connection. Attend the first day of scheduled class for further instructions.

2932 OL1 ARR ARR RILEY C

Section OL1: All course work for this class will be completed online through Canvas. Students need to have access to a reliable internet connection.

HIST&137 US History 2 5

From the end of the Civil War to the end of the twentieth century, this course examines the development of the modern United States and its transformation from an isolationist agriculturally based society to global superpower. Along the way students are exposed to the philosophic, cultural, and political underpinnings of the American story, and personalities and events which bring that story to life. SS

2935 01 MW 01:00PM-03:30PM 1601 RILEY C

2937 OL1 ARR ARR RILEY C

Section OL1: All course work for this class will be completed online through Canvas. Students need to have access to a reliable internet connection.

HIST 250 Ancient Greece 5

Lab Fee: \$10.00

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

2990 01H MTWTh 09:15AM-10:20AM 1601 WAITES W

Section 01H incorporates traditional class time and a distance education component. Students need to have access to a reliable internet connection. Attend the first day of scheduled class for further instructions.

Humanities

HUM 108 Introduction to Gender Studies 5

This course introduces students to major issues, concepts, and basic terms central to the field of Gender Studies. Throughout the quarter, we will critically engage with social, cultural and historical ideas about what it means to be female and male, how these ideas shape everyday life experiences, and what consequences this has on relationships, work, and the structuring of a society. Emphasis will include the multiple ways that sex and gender interact with race, class, sexuality, nationality, and other social identities. HU

3029 01 MTWTh 09:15AM-10:20AM 1608 PALUMBO A

HUM 110 Greek Mythology 5

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

2998 01 MTWTh 01:00PM-02:05PM 1608 KNEPP D

Homeland Security

HSEM 102 Intro to Homeland Security Emergency Management 5

Lab Fee: \$10.00

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

3010 OL1 ARR ARR STAFF

HSEM 130 Technology in Emergency Management 3

Lab Fee: \$10.00

This class provides a detailed overview of the technology used, and also clearly explains how the technology is applied in the field of emergency management. Students will learn how to utilize technology in emergency planning, response, recovery and mitigation efforts and they'll uncover the key elements that must be in place for technology to enhance the emergency management process. Course overviews include: Web Emergency Operations Center (EOC), using technology with training and exercises, reverse 911 notification systems, video conferencing/downlinks and Geographic Information System (GIS)/ Global Positioning System (GPS) capabilities. Prerequisite: HSEM 102 Introduction to Emergency Management.

3020 OL1 ARR ARR STAFF

HSEM 180 Public Administration 3

Lab Fee: \$10.00

This course provides an overview in the structure and issues of public service. Course participants will examine the context of public administration: the political system, the role of federalism, bureaucratic politics and power, and the various theories of administration that guide public managers today. Course components include public administration, personnel, budgeting, decision-making, organizational behavior, leadership, and policy implementation. Lessons will be drawn from the most current applications of public administration today, such as Hurricane Katrina efforts and Homeland Security. Prerequisite: HSEM 102 Introduction to Emergency Management

3025 OL1 ARR ARR STAFF

HSEM 190 Homeland Security Emergency Mgmt Special Topics 1- 5

Lab Fee: \$10.00

Special topics will be developed for areas outside the usual course offerings in Homeland Security Emergency Management degree. Topics developed will focus on a specific current issue or concept in the areas of homeland security or emergency management. NOTE: A maximum of five (5) credit hours of HSEM 190 may be used as elective credit toward the HSEM degree. Prerequisite: : HSEM 102 Introduction to Emergency Management and 12 additional HSEM credits or HSEM Program Coordinator approval

3028 OL1 ARR ARR STAFF

HSEM 220 Developing and Managing Volunteer Resources 2

Lab Fee: \$10.00

This course will focus on methods and procedures for involving private-sector organizations and volunteers in emergency management programs in ways which benefit both parties. The focus of the course is on maximizing the effectiveness of volunteer resources by implementing a people-oriented system that addresses defining volunteer roles, designing a plan of action, recruiting volunteers, training individuals who volunteer and motivation and maintenance of a successful program. Participants will acquire skills and knowledge to make appropriate volunteer assignments that enhance the effectiveness of an integrated emergency management system. Prerequisite: HSEM 102 Introduction to Emergency Management

3033 OL1 ARR ARR STAFF

HSEM 230 Disaster Recovery and Response 2

Lab Fee: \$10.00

The purpose of this course is to enable students to understand and think critically about response and recovery operations in the profession of emergency management. Students will utilize problem based learning by analyzing actual disaster events and applying the theories, principals, and practice of response and recovery. In addition, students will learn about the issues faced by special populations and how to address these special needs in natural disaster response and recovery. Prerequisite: Completion of HSEM 102 and Completion of HSEM 120.

3035 OL1 ARR ARR STAFF

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

Lab Fee: \$10.00

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

3036 OL1 ARR ARR STAFF

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

Lab Fee: \$44.10

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

3042 26 ARR ARR CORRELL D

Class meets at SkillSource. Please call 766.6318 for more information.

IST 105 Basic Electricity--DC Circuit Analysis 5

Lab Fee: \$45.00

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

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

IST 106 Basic Electricity--AC Circuit Analysis 5

Lab Fee: \$45.00

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

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

IST 112 National Electric Code III 2

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

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

IST 120 Introduction Preventive/Predictive Maintenance 3

Lab Fee: \$27.00

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

3096 01 TTh 10:20AM-12:00PM 3500 AUTRY B

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

IST 136 Introduction to Industrial Boiler Technology 5

Lab Fee: \$45.00

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

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

IST 152 Programmable Automation Control 5

Lab Fee: \$45.00

Programmable Logic Controllers have become the backbone of modern industrial automation. This course explores PLC principles, networking, hardware and operation, with emphasis on ladder logic instruction sets, maintenance and

troubleshooting using the Allen-Bradley Compact Logix™ platform and Control Logix™ programming software. Prerequisite: ST 150 - Introduction to Programmable Logic Controllers, or Instructor permission.

3117 01 TTh 12:30PM-03:30PM 3604 ATRY B

IST 170 Introduction to Instrumentation 5

Lab Fee: \$45.00

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

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

IST 180 Machining I 5

Lab Fee: \$45.00

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

3126 21 TTh 05:00PM-08:00PM 3500 BARRY J

IST 182 Machining II 5

Lab Fee: \$45.00

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

3132 21 TTh 05:00PM-08:00PM 3500 BARRY J

IST 184 Machining Skill Enhancement 4

Lab Fee: \$36.00

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

3138 21 TTh 05:00PM-08:00PM 3500 BARRY J

IST 207 Industrial Electricity II 5

Lab Fee: \$45.00

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 MW 09:00AM-12:00PM 3606 AYERS J

IST 223 Electronics III (Industrial) 5

Lab Fee: \$45.00

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

3172 01 MW 09:00AM-12:00PM 3607 STAFF

IST 226 Introduction to Fiber Optics: Theory and Systems 5

Lab Fee: \$45.00

Introduction to fiber optics equipment and systems. Fiber perspective as a communications medium, with emphasis on the advantages of fiber compared to copper or radio linked systems. Review of the importance of electronics communications with explanations of basic concepts such as bits and bytes, analog and digital, and light. Prerequisite: IST 225--Electronic Communications II or Instructor permission

3186 01 MW ARR 3602 MATERN S

Math

MATH 010 Math Lab 0

Community Ed Fee: \$50.10

Permits the use of the STEM Center Resources by non-BBCC students during regular STEM Center hours.

3234 01 DAILY ARR GUADARRAMA V

MATH 094 Introduction to Algebra 5

Lab Fee: \$30.00

This course includes the study of basic arithmetic and algebraic concepts and operations including operations with integers, fractions, decimals, percents, order of operations, measurement, the metric system, algebraic expressions, formulas and simple linear equations. Credit cannot be earned in both MAP 117 and MATH 094. Prerequisite: DVS 080 or appropriate placement on the BBCC math placement exam. (formerly MPC 090, Math 090)

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

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

3249 CL2 MTWTh 09:15AM-10:20AM 1215 STAFF

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

3250 CL3 MTWTh 10:30AM-11:35AM 1215 STAFF

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

3251 CL4 MTWTh 11:45AM-12:50PM 1215 GEORGE A

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

3252 CL5 MTWTh 01:00PM-02:05PM 1215 STAFF

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

3255 CLN MW 06:00PM-08:30PM 1215 STAFF

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

MATH 098 Intermediate Algebra I 5

Lab Fee: \$30.00

This course includes the study of intermediate algebraic operations and concepts, and the structure and use of algebra. This includes solving, graphing, and solving applications of linear equations and systems of equations; simplifying, factoring, and solving quadratic functions, introduction to functions and models; and exponential and logarithmic functions along with applications. Students cannot earn credit for both MAP 119 and Math 098. Prerequisite: MATH 094 or placement (Formerly: Math 095, 096)

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

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

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

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

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

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

3291 CL4 MTWTh 11:45AM-12:50PM 1215 GEORGE A

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

3292 CL5 MTWTh 01:00PM-02:05PM 1215 STAFF

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

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

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

3294 OL1 ARR ARR HARBERTS B

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

MATH 099 Intermediate Algebra II 5

Lab Fee: \$30.00

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

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

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

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

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

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

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

3381 CL4 MTWTh 11:45AM-12:50AM 1215 GEORGE A

Course will be taught in the computer lab using the inverted instruction model, watching videos and completing homework assignments on the computer. These are NOT online sections, although it is

suggested you have Internet access outside of class.

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

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

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

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

MATH&107 Math in Society 5

Lab Fee: \$40.00

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

3300 01 MTWTh 09:15AM-10:20AM 1219 ABED S

3301 02 MTWTh 10:30AM-11:35AM 1202 STAFF

3304 21 MW 06:00PM-08:30PM 1219 ABED S

3305 OL1 ARR ARR WALLACE T

Section OL1: All course work for this class will be completed online through Canvas. Students need to have access to a reliable internet connection.

MATH&141 Precalculus I 5

Lab Fee: \$30.00

This course will present the following concepts: college level algebra, introduction to functions and graphing, the graphs and properties of polynomial, rational, radical, exponential and logarithmic functions. Prerequisites: MATH 099 MS/SQR

3319 01 MTWTh 09:15AM-10:20AM 1252 MAYHUGH D

3320 02 MTWTh 11:45AM-12:50PM 1252 MAYHUGH D

3321 OL1 ARR ARR HARBERTS B

Section OL1: All course work for this class will be completed online through Canvas. Students need to have access to a reliable internet connection.

MATH&142 Precalculus II 5

Lab Fee: \$30.00

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

3322 01 MTWTh 09:15AM-10:20AM 1910 HARBERTS B

3324 02 MTWTh 01:00PM-02:05PM 1911 MAYHUGH D

MATH&146 Introduction to Statistics 5

Lab Fee: \$30.00

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

3330 01 MTWTh 08:00AM-09:05AM 1252 ABED S

3331 02 MTWTh 10:30AM-11:35AM 1218 GEORGE A

3332 03 MTWTh 11:45AM-12:50PM 1250 WALLACE T

3333 04 MTWTh 01:00PM-02:05PM 1202 GEORGE A

MATH&148 Business Calculus 5

This is an introductory calculus course for business and economics students. It includes an introduction to rates of change, differentiation, integration, areas, and appropriate calculus techniques. There are also applications to marginal analysis in economics, optimization and other relevant applications. Prerequisite:: Math 141, placement in the class or instructor permission.SQR

3341 01 MTWTh 01:00PM-02:05PM 1609 HARBERTS B

MATH&151 Calculus I 5

Lab Fee: \$30.00

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

3350 01 MTWTh 10:30AM-11:35AM 1252 WALLACE T

MATH&152 Calculus II 5

Lab Fee: \$30.00

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

3355 01 MTWTh 10:30AM-11:35AM 1219 ABED S

MATH&163 Calculus 3 5

Lab Fee: \$30.00

This course will expand on the applications and techniques of differentiation learned in the first and second quarters. It will introduce the student to the calculus of sequences and series and the use of the MacLauren and Taylor series to approximate functions. It will introduce the student to the calculus of curvilinear functions and the concept of the vector and vector functions. It will also introduce the concept of a partial derivative and the maximization of functions given in more than one independent variable. Prerequisite: MATH& 152 or instructor permission. MS/SQR

3360 01 MTWTh 01:00PM-02:05PM 1910 WALLACE T

MATH 220 Linear Algebra 5

Lab Fee: \$30.00

A study of matrix algebra and systems of equations, abstract vector spaces including basis and dimension, linear transformations, eigenvalues and eigenvectors. Some applications of linear algebra to illustrate the above concepts. Prerequisite: MATH& 152 or instructor permission. MS/SQR

3365 01 MTWTh 08:00AM-09:05AM 1219 LANE S

Math (Applied)

MAP 100 Applied Mathematics (AMT) 2

This course will cover aircraft technical mathematics and is designed for the Aviation Maintenance Technology student. It will cover the fundamental mathematical principles required for the successful completion of the Aviation Maintenance Technology program. This course is FAA approved under 14 CFR Part 147. Prerequisite: Successful completion of DVS 080 or placement into MATH 094 or above. Must be enrolled in the Aviation Maintenance Technology program.

3386 01 ARR ARR 3200 DANNENBERG K

MAP 117 Applied Mathematics for Workforce Programs I 1- 5

This course includes the study of basic arithmetic and algebraic concepts and operations including operations with integers, fractions, decimals and percents, order of operations, measurement, the metric system, algebraic expressions, formulas and simple linear equations. Students will complete exercises and problems providing practice in workforce program-specific applications. Credit cannot be earned in both MAP 117 and MATH 094. Prerequisite: DVS 080 or placement.

3416 01 MTWTh 07:45AM-08:50AM 1511 STAFF

GIS 220 Remote Sensing 3

This course addresses key aspects of remote sensing. Topics include the electromagnetic spectrum, satellites and remote sensing systems, manned/unmanned aircraft and remote sensing systems, basic image

interpretation and analysis concepts, and remote sensing applications (i.e., agriculture, forestry, geology, etc.). Prerequisite: MAP 119 (Applied Mathematics for Workforce Programs) or Instructor Permission

3520 OL1 ARR ARR WILL-NOEL B

Medical Assistant

MA 112 Clinical Procedures II 4

Lab Fee: \$49.50

This course builds upon knowledge and skills acquired during Clinical Procedures I. Students will further their understanding of the medical front office by learning diagnosis and procedural coding, office management, scheduling and written communication. The students will also build upon previously learned clinical skills by understanding infection control, sterile field protocol, physical therapy and rehabilitation and administration of medication. During this class students will also learn and practice injection techniques.

Prerequisite: Minimum final grade of 2.0 in MA 111 or instructor permission required

3551 01 F 08:00AM-04:00PM 1722 ROSS B

3552 02B F 08:00AM-04:00PM 1722 ROSS B

Music

MUSC&105 Music Appreciation 5

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

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

3607 OL1 ARR ARR DZBENSKI M

Students need to have access to a reliable computer and Internet connection as this course is delivered all online.

MUSC 110 College Choir 1

Lab Fee: \$10.00

This traditional ensemble made up of mixed voices rehearses a wide variety of choral literature for study and performance. This ensemble will perform quarterly for campus and community events. This course may be repeated for up to six credits.HP

3610 21 T 06:00PM-08:00PM 1134 DZBENSKI M

MUSC 115 Group Piano I 2

Lab Fee: \$10.00

This course presents the basic concepts and skills to develop performing proficiency at the piano. Musical activities and projects will build growth

in technical skills such as major and minor scale patterns, musical skills such as sight reading and improvisation, theoretical concepts such as notation, rhythm patterns, melodic shapes and forms, and creative skills such as completing melodic phrases and inventing melodic variations. Repertoire will reflect the development of increasingly advanced solo and ensemble pieces.HP

3630 01 MW 02:15PM-03:30PM 1134 DZBENSKI M

Additional required hours to be arranged with instructor.

MUSC 116 Group Piano II 2

Lab Fee: \$10.00

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

3635 01 MW 02:15PM-03:30PM 1134 DZBENSKI M

Additional required hours to be arranged with instructor.

MUSC 117 Group Piano III 2

Lab Fee: \$10.00

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

3638 01 MW 02:15PM-03:30PM 1134 DZBENSKI M

Additional required hours to be arranged with instructor.

MUSC 170 History of Jazz 5

Lab Fee: \$10.00

This course covers the history and origin of Jazz and its stylistic development from the various periods of pre-jazz to today. The class will include an extensive study of important musicians, composers, arrangers, and styles which evolved the genre. The class will include detailed listening assignments and an introduction to jazz musical vocabulary and concepts.HU

3720 OL1 ARR ARR DZBENSKI M

Students need to have access to a reliable computer and Internet connection as this course is delivered all online.

MUSC 215 Group Piano IV 2

Lab Fee: \$10.00

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

3730 01 MW 02:15PM-03:30PM 1134 DZBENSKI M

Additional required hours to be arranged with instructor.

MUSC 216 Group Piano V 2

Lab Fee: \$10.00

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

3733 01 MW 02:15PM-03:30PM 1134 DZBENSKI M

Additional required hours to be arranged with instructor.

MUSC 217 Group Piano VI 2

Lab Fee: \$10.00

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

3736 01 MW 02:15PM-03:30PM 1134 DZBENSKI M

Additional required hours to be arranged with instructor.

Nursing

NUR 100 Nursing Assistant 9

Lab Fee: \$216.41

This course prepares students to take the Nursing Assistant examination as outlined by Federal and State guidelines. Training will include classroom, skills lab, and clinical experience. Prerequisites: Read, write, speak and understand English at the level necessary for performing duties of the nursing assistant. (Placement in English 99 or above)

3800 01 TTh 01:00PM-05:00PM 1721 SAUVAGE C

Lab F 06:00AM-03:00PM SAUVAGE C

The NAC lab fee includes: malpractice and liability insurance, drug testing, CPR certification, and registration for one state NAC test.

NUR 103 HIV/AIDS Education 1

Lab Fee: \$10.00

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 certificate.

3808 01H ARR ARR ROSS B

Class orientation and assignments are accessed online via Canvas. Mandatory in class final on February 27 at 4:00 p.m. in room 1802. Online fee is \$10.

NUR 120 Beginning Nursing Concepts I 6

Focus is on nursing theory as it relates to the adult patient with commonly occurring health conditions, and includes an introduction to the care of the patient in the perioperative and maternal/newborn setting. Professional roles and progression are incorporated in this course.

Prerequisite: BIOL& 260, with a 2.0 G.P.A. or above,

3830 01 F 09:00AM-04:00PM 1718 REAMES ZILLI

NUR 121 Beginning Nursing Practicum I 4

Lab Fee: \$2.50

Practical application in the clinical setting of nursing theory and skills taught in previous nursing courses and introduced in NUR 120 and NUR 136. Practicum focuses on nursing care to a variety of patients in the medical/surgical, perioperative, and maternal newborn setting.

Prerequisite: BIOL&260, with a 2.0 G.P.A. or above.

3834 01 ARR ARR REAMES ZILLI

3835 02 ARR ARR OLSON A

3836 03 ARR ARR STAFF

NUR 136 Nursing Skills Laboratory 1

Lab Fee: \$188.20

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

3856 01 ARR ARR 1731 REAMES ZILLI

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

NUR 220 Advanced Nursing Concepts II 5

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

3916 01 F 09:00AM-03:00PM 1721 GONZALEZ-ALL

NUR 221 Advanced Nursing Practicum II 5

Lab Fee: \$2.50

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

3920 01 ARR ARR GONZALEZ-ALL

3921 02 ARR ARR CAPELO H

3922 03 ARR ARR STAFF

NUR 236 Nursing Skills Laboratory 1

Lab Fee: \$188.20

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

3946 01 ARR ARR 1731 GONZALEZ-ALL

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

Nutrition**NUTR&101 Nutrition 5**

Lab Fee: \$10.00

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

3981 01 MTWTh 10:30AM-11:35AM 1855A MCCRAE K

3983 OL1 ARR ARR HALEY G

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

Philosophy**PHIL&101 Intro to Philosophy 5**

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

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

PHIL&120 Symbolic Logic 5

Lab Fee: \$10.00

This course is a study of the methods and principles used to distinguish correct from incorrect reasoning. Students are expected to prove their understanding of formal deductive symbolic logic by completing logic proofs in categorical, propositional, and predicate logic. HU/SQR
Prerequisites: Math 098 or above

4217 OL1 ARR ARR KNEPP D

(Formerly PHIL& 106). Class meets online.

PHIL 210 Ethics 5

An introduction to ethical theories and some contemporary moral problems such as abortion, euthanasia, war, and capital punishment. Topics vary. HU

4225 01 MTWTh 11:45AM-12:50PM 1608 KNEPP D

PHIL 211 Ethics for Criminal Justice 5

A study of the principal ethical theories and their application to individual and social morality tied to the field of Criminal Justice. Prerequisite: CJ& 101

4228 01 MTWTh 10:30AM-11:35AM 1609 LEONARD R

Physical Education**PEH 090 Recreational Gym 0**

Community Ed Fee: \$34.20

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

4302 21 ARR ARR 2014 DE HOOG M

PEH 100 Lifetime Wellness 3

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

4312 01 MTW 01:00PM-01:50PM 1607 OTERO M

4313 02 MTW 02:15PM-03:05PM 1607 OTERO M

4314 OL1 ARR ARR NICHOLS L

Class meets online through Canvas.

4315 OL2 ARR ARR NICHOLS L

Class meets online through Canvas.

PEH 102 Theory Of Basketball 3

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

4320 21 M 04:00PM-07:00PM 2032 SCOTT M

Students must attend a mandatory orientation meeting on Monday 1/7 or Tuesday 1/8. Two workout sessions and two lectures sessions are required each week. Instructor is available for students at posted times. Refer to your Canvas class site for details.

4324 02 MTWTh ARR 2014 WILKS P

Students must attend a mandatory orientation meeting on Monday 1/7 or Tuesday 1/8. Two workout sessions and two lectures sessions are required each week. Instructor is available for students at posted times. Refer to your Canvas class site for details.

PEH 125 Conditioning 1

Lab Fee: \$4.60

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

4356 01 ARR ARR 2012 STAFF

Students must attend a mandatory orientation meeting on Monday 1/7 or Tuesday 1/8. Students must work out for two sessions each week on an arranged basis. Instructor is available for students at posted times. Schedules are posted in Bldg 2000.

4360 02 ARR ARR 2012 STAFF

Students must attend a mandatory orientation meeting on Monday 1/7 or Tuesday 1/8. Students must work out for two sessions each week on an arranged basis. Instructor is available for students at posted times. Schedules are posted in Bldg 2000.

4362 03 ARR ARR 2012 STAFF

Students must attend a mandatory orientation meeting on Monday 1/7 or Tuesday 1/8. Students must work out for two sessions each week on an arranged basis. Instructor is available for students at posted times. Schedules are posted in Bldg 2000.

4363 04 ARR ARR 2012 STAFF

Students must attend a mandatory orientation meeting on Monday 1/7 or Tuesday 1/8. Students must work out for two sessions each week on an arranged basis. Instructor is available for students at posted times. Schedules are posted in Bldg 2000.

PEH 131 Circuit Weight Training 1

Lab Fee: \$4.60

Circuit weight training is designed to introduce the student to the basic principles and training methods for weight training so to establish a program to enhance build and maintain muscular strength and endurance. May be repeated for up to three (3) credits.AC

4365 01 ARR ARR 2012 STAFF

Students must attend a mandatory orientation meeting on Monday 1/7 or Tuesday 1/8. Students must work out for two sessions each week on an arranged basis. Instructor is available for students at posted times. Schedules are posted in Bldg 2000.

4366 02 ARR ARR 2012 STAFF

Students must attend a mandatory orientation meeting on Monday 1/7 or Tuesday 1/8. Students must work out for two sessions each week on an arranged basis. Instructor is available for students at posted times. Schedules are posted in Bldg 2000.

PEH 135 Beginning Yoga 1

Lab Fee: \$4.60

Introductory and intermediate yoga postures will be introduced to promote balance, strength, flexibility, and joint stability. Students will also be introduced to basic breath work and meditation practices to enhance stress relief and focus. Students will be exposed to the relationship between the mind and body and the role yoga can play in promoting lifelong health.AC

4377 01 MW 01:00PM-01:50PM 1101 DELEON J

PEH 137 Beginning Brazilian Jiu-Jitsu 1

Lab Fee: \$4.60

Designed to teach students the art and sport of Brazilian Jiu-Jitsu (BJJ). The purpose of this class shall be to provide a structured and safe environment for learning and practicing the grappling art of Brazilian Jiu-Jitsu, along with some techniques from Judo, Sambo and Wrestling. This class will focus on providing opportunities for students to gain effective self-defense and grappling experience, increase physical health, provide stress relief and promote a positive lifestyle of continual improvement. Emphasizes self-control and situational awareness in grappling-based self-defense using non-violent neutralization positions and techniques for life-threatening situations. AC

4382 01 TTh 01:00PM-01:50PM 2015 ALVAREZ L

PEH 155 Body Toning 1

Lab Fee: \$4.60

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

4390 01 MW 11:45AM-12:35PM 2015 NIELSEN C

4391 02 TTh 11:45AM-12:35PM 2015 NIELSEN C

4394 26 ARR ARR GRAHAM M

Section 26 will be taught at Jazzercise, 824 W 3rd Ave, Moses Lake. Students enrolling in this section will pay Jazzercise for sessions. Contact Mary Graham at 855.6552 for enrollment information.

PEH 158 Racquetball 1

Lab Fee: \$4.60

Racquetball is designed to introduce the student to the knowledge and basic skills of badminton and to develop those skills to a level that enables the student to participate in the sport at a beginning level. May be repeated for up to three (3) credits. AC

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

Physics

PHYS&222 Engineering Physics II w/Lab 5

Lab Fee: \$29.60

The second in a three-quarter calculus-based sequence in introductory physics intended for students majoring in science or engineering. Course content includes waves, optics, thermodynamics, and may include a unit on gravitation. Prerequisite: Successful completion of Engineering Physics I (PHYS& 221)LS

4466 01 MWTh 09:15AM-10:20AM 1217 HAMM J

Lab T 03:30PM-05:30PM 1217 HAMM J

Political Science

POLS&202 American Government 5

This course focuses upon the institutions which form the national government of the United States. Students participate in activities and discussions intended to broaden their understanding of what it means to serve in government and the importance of the role government plays in the functioning of the country. SS

4502 01 MTWTh 11:45AM-12:50PM 1103 QUITADAMO J

4503 02 MTWTh 11:45AM-12:50PM 1103 QUITADAMO J

4504 03 MTWTh 11:45AM-12:50PM 1103 WAITES W

Psychology**PSYC&100 General Psychology 5**

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

4553 01 MTWTh 10:30AM-11:35AM 1722 ECCLES N

4554 02H MTWTh 02:15PM-03:20PM 1601 HOLLIWAY D

Section 02H incorporates traditional class time and a distance education component. Students need to have access to a reliable internet connection. Attend the first day of scheduled class for further instructions.

4557 OL1 ARR ARR LEONARD R

Section OL1: All course work for this class will be completed online through Canvas. Students need to have access to a reliable internet connection.

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

4576 01 TTh 10:35AM-12:50PM 1601 HOLLIWAY D

4577 OL1 ARR ARR HOLLIWAY D

Section OL1: All course work for this class will be completed online through Canvas. Students need to have access to a reliable internet connection.

PSYC 225 Psychology & The Legal System 5

Lab Fee: \$10.00

This course is a survey of the major topics represented in the field of psychology and law. This course focuses on how psychological research (across sub-disciplines such as clinical, social, cognitive, and community psychology) can contribute to a better understanding of issues related to law or legal process, how the legal system can be informed by the results of psychological research, and how psychological research can be more reactive to legal issues. Prerequisite/corequisite: PSYC& 100 or CJ& 101. SS

4599 OL1 ARR ARR LEONARD R

Section OL1: All course work for this class will be completed online through Canvas. Students need to have access to a reliable internet connection.

Religious Studies**REL 201 World Religions 5**

Lab Fee: \$10.00

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

4606 OLB ARR ARR KNEPP D

All course work for this class will be completed online through Canvas. This course and ENGL 098 OLB and DVS 015 are part of a learning community and you are required to register for all classes in the learning community.

4608 O2B ARR ARR KNEPP D

All course work for this class will be completed online through Canvas. This course and ENGL 099 OLB and DVS 015 are part of a learning community and you are required to register for all classes in the learning community.

4609 OL3 ARR ARR KNEPP D

This course and ENGL& 101 OL3 are part of a learning community and you are required to register for all classes in the learning community.

Medical Simulation

SIM 110 Fundamentals of SIM Programming 2

Lab Fee: \$66.00

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

4618 01H ARR ARR 1701 BORSCHOWA D

Contact Dana Borschowa at 509.793.2125 for registration information.

SIM 120 Medical Equipment Research 2

Lab Fee: \$10.00

This course will help students develop an understanding of human body systems in relation to equipment utilized in the healthcare profession in order to apply it to the medical simulation environment. Specifically, by researching common healthcare content areas such as general head-to-toe assessment equipment, IV therapy and medication administration equipment, and emergency resuscitation equipment, students will be able to exhibit critical thinking and problem solving skills to locate, analyze and apply medical equipment information. Student must pass this course with a minimum 2.0 grade in order to be applied to degree completion.

4620 OL1 ARR ARR STAFF

Contact Dana Borschowa at 509.793.2125 for registration information.

SIM 222 Clinical Focused Simulation 5

Lab Fee: \$177.00

This course will focus on the practical application of skills taught in previous simulation courses as applied to the Allied Healthcare setting. Comprehension, application, and leadership are all key skills that are required for students to begin to demonstrate as they engage in the process of running their own simulations for Allied Health end users. Prerequisite: SIM 161 and SIM 211. Co-Requisite: SIM 220 and 221

4622 01H Sa ARR 1701 STAFF

SIM 230 Learning Management Systems 5

Lab Fee: \$10.00

Medical simulation is a complex integration of technology that requires the use of online support materials. It is the Simulation Technician's role to organize and present this support material electronically with the use of a Learning Management System. This course is designed to train students how to develop and implement instructional support materials for high and low fidelity simulations by using Learning Management Systems. A strong focus will be placed on accessibility, instructional strategies, and assessment. Prerequisite: SIM 221 and SIM 222

4625 01H ARR ARR STAFF

SIM 295 Practicum in Community Simulation 2

In this capstone course, students work on simulation projects in a healthcare setting, under the direct supervision of a healthcare professional, to practice the application of learned medical simulation theory and lab skills. Prerequisite: SIM 221 and SIM 222. Co-Requisite: SIM 297 and SIM 232

4629 01 ARR ARR STAFF

Sociology

SOC& 101 Intro to Sociology 5

Lab Fee: \$10.00

Sociology is the scientific study of human groups and their social systems. Sociologists study how groups are organized and structured, their character and interaction, how groups change, and their impact on individuals. The course focuses on applying the "sociological imagination" which in turn helps students understand and appreciate different societies and cultures both contemporary and historical. Prerequisites: There are no prerequisites. Strongly recommended placement in MATH 098 or higher and placement in English 099 or higher.SS

4640 01H MTWTh 08:00AM-09:05AM 1609 FARMAN J

Section 01H incorporates traditional class time and a distance education component. Students need to have access to a reliable internet connection. Attend the first day of scheduled class for further instructions.

4642 02H MTWTh 10:30AM-11:35AM 1910 FARMAN J

Section 02H incorporates traditional class time and a distance

educatiOn component. Students need to have access to a reliable internet connEction. Attend the first day of scheduled class for further instructions.

4643 OL1 ARR ARR HOLLIWAY D

Section OL1: All course work for this class will be completed online through Canvas. Students need to have access to a reliable internet connection.

4644 OL2 ARR ARR TATE-LIBBY J

Section OL2: All course work for this class will be completed online through Canvas. Students need to have access to a reliable internet connection. Online fee is \$10.

Spanish

SPAN&121 Spanish I 5

Lab Fee: \$5.00

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

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

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

SPAN&122 Spanish II 5

Lab Fee: \$5.00

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

4712 01 MTWTh 10:30AM-11:35AM 1604 LEAVITT A

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

SPAN&123 Spanish III 5

Lab Fee: \$5.00

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

4722 01 MTWTh 09:15AM-10:20AM 1604 LEAVITT A

4724 21 MW 06:00PM-08:30PM 1604 MCLAUHLAN N

Mechatronics

MCT 102 Mechatronics II 5

Lab Fee: \$78.00

This (second) course in mechatronics will address microcontroller programming, data acquisition, sensors, actuators, computer science and control architectures. Students will design and demonstrate a microcontroller system built as part of a team project. Prerequisite: Completion of MCT 101 or instructor permission.

4773 01H TTh 10:30AM-11:35AM 3024 BAKER G

Contact Gary Baker at 793.2114 for registration information.

Unmanned Systems

UMS 208 Unmanned Aerial Systems (UAS) Mission Planning 5

Lab Fee: \$78.00

Using mission planning software, students will plan a variety of UAS missions in support of simulated operations. This will include (but not limited to) operations in support of agriculture, real estate marketing, search and rescue (SAR), law enforcement, construction, avalanche control, natural disaster response, power line and transportation infrastructure inspection. Prerequisite UMS 112 (UAS Ground School) and UMS 226 (UAS Remote Sensing) or instructor permission.

4785 OL1 ARR ARR STAFF

UMS 210 Unmanned Aerial Systems (UAS) Laws & Policies 5

Lab Fee: \$10.00

This course addresses local, state and federal unmanned aerial system (UAS) laws, regulations, policy statements, orders and guidance, as well as civil rights, liberties, ethics, and aircraft/pilot certification

4788 OL1 ARR ARR STAFF

Welding

WLD 101 Oxy-Acetylene Welding For Auto Technicians 2

Lab Fee: \$24.00

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

4800 01 MW 03:05PM-04:25PM 3403 GILBERT C

WLD 102 Arc/Gmaw Welding For Auto Technicians 2

Lab Fee: \$24.00

This course covers the fundamentals of the GMAW semi-automatic process for welding carbon steel, stainless steel and aluminum. Using these materials, the student will learn to run stringer beads, butt, lap and

'T' joints, in all positions with various modes of metal deposition and using different gasses. Prerequisite: enrollment in Automotive Technology.

4810 01 TTh 03:05PM-04:25PM 3403 GILBERT C

WLD 103 Beginning AMT Welding 2

Lab Fee: \$24.00

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

4820 01 MTWTh 12:30PM-03:00PM 3403 GILBERT C

WLD 111 Welding Process I1- 6

Lab Fee: \$72.00

An introduction to the Shielded Metal Arc Welding process. Students will perform beads, fillets and Plate tests in all position with E6010 and E7018 Electrodes. Students must complete all 6 credits of WLD 111 prior to enrolling in WLD 121.

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

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

4846 21 MW 06:35PM-09:35PM 3403 GILBERT C

WLD 112 Thermal Cutting and Welding 3

Lab Fee: \$36.00

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

4856 01 MTWTh 10:25AM-11:45AM 3403 MCDANIEL S

4858 02W Sa 08:00AM-02:30PM 3403 GILBERT C

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

WLD 120 Welding Theory II 5

Fundamentals of G.M.A.W. and F.C.A.W. processes with their related equipment. Basics of electrical theory and welding machines. Shielding gasses, filler materials, and general welding procedures including carbon steel, stainless steel, and aluminum. Prerequisite: WLD 110 or instructors permission.

4870 01 MTWTh 09:15AM-10:20AM 3401 MCDANIEL S

WLD 121 Welding Process II 3- 6

Lab Fee: \$72.00

An introduction to welding open root joints. Students use E6010 to complete open root corner joints out of position and open root plate tests out of

position. Students must complete all 6 credits of WLD 121 prior to enrolling in WLD 131. Prerequisite: 6 credits of WLD 111.

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

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

4884 21 MW 06:35PM-09:35PM 3403 GILBERT C

WLD 122 Gas Metal Arc Welding I 3

Lab Fee: \$36.00

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

4896 01 MTWTh 10:25AM-11:45AM 3403 MCDANIEL S

4898 02 ARR 12:30PM-03:00PM 3403 MCDANIEL S

4900 03W Sa 08:00AM-02:30PM 3401 GILBERT C

4902 21 MW 06:35PM-09:35PM 3403 GILBERT C

WLD 131 Welding Process III 3- 6

Lab Fee: \$72.00

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: 6 credits of WLD 121

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

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

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

WLD 132 Gas Tungsten Arc Welding I (TIG) 3

Lab Fee: \$36.00

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

4936 01 MTWTh 10:25AM-11:45AM 3403 MCDANIEL S

4938 02 ARR 12:30PM-03:00PM 3403 MCDANIEL S

4940 03W Sa 08:00AM-02:30PM 3403 GILBERT C

4942 21 MW 06:35PM-09:35PM 3403 GILBERT C

WLD 152 Welding Layout I 3

Lab Fee: \$36.00

Specialized welding drafting techniques: intersections and developments; patterns for geometric shapes used in cardboard, sheet metal, and structural

shapes; fabrication and model construction. Prerequisite: MAP 101 or instructors permission

4960 01 MTW 03:15PM-04:30PM 3401 MCDANIEL S

WLD 190 Skill Improvement 1- 6

Lab Fee: \$72.00

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.

4980 01 ARR ARR 3403 MCDANIEL S

4982 02 ARR ARR 3403 MCDANIEL S

4984 03W Sa 08:00AM-02:30PM 3403 GILBERT C

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

WLD 206 Welding Codes and Standards 4

Lab Fee: \$48.00

Upon successful completion of the course the student will be able to follow codes to interpret their workmanship. Use procedure qualifications and performance qualifications. Use DT and NDT methods to inspect the students own weldments. Use visual inspection of welded structures. Prerequisite: WLD 205 or instructors permission

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

WLD 212 Gas Metal Arc Welding II 3

Lab Fee: \$36.00

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

5026 01 MTWTh 10:25AM-11:45AM 3403 MCDANIEL S

5028 02W Sa 08:00AM-02:30PM 3403 GILBERT C

5030 21 MW 06:35PM-09:35PM 3403 GILBERT C

WLD 241 Structural Weld Process I 6

Lab Fee: \$72.00

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

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

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

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

WLD 242 Structural Welding I 3

Lab Fee: \$36.00

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

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

5052 02W Sa 08:00AM-02:30PM 3403 GILBERT C

5054 21 MW 06:35PM-09:35PM 3403 GILBERT C

WLD 243 Structural Weld Process II 6

Lab Fee: \$72.00

A structural welding course focusing on student application of Shielded Metal and Flux Cored Arc Welding processes on large outdoor structural weldments in accordance with drawings. Prerequisite: WLD 241 or instructor approval.

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

5062 02W Sa 08:00AM-02:30PM 3403 GILBERT C

5064 21 MW 06:35PM-09:35PM 3403 GILBERT C

WLD 244 Submerged Arc Welding 3

Lab Fee: \$36.00

This course focuses on student learning of submerged arc welding process which entails an arc that takes place beneath a bed of granular flux. This is a high deposition industrial orientated welding process that is used to manufacture light to heavy weldments. Prerequisite: WLD 242 or instructor permission.

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

5072 02W Sa 08:00AM-02:30PM 3403 GILBERT C

5074 21 MW 06:35PM-09:35PM 3403 GILBERT C

WLD 245 Structural Weld Process III 6

Lab Fee: \$72.00

A structural welding course focusing on student application of Shielded Metal and Flux Cored Arc Welding processes on large outdoor structural weldments in accordance with drawings. Prerequisite: WLD 243 and WLD 152 or instructor permission

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

5082 02W Sa 08:00AM-02:30PM 3403 GILBERT C

5084 21 MW 06:35PM-09:35PM 3403 GILBERT C

WLD 261 Production Weld Process I 6

Lab Fee: \$72.00

An introductory course focusing on student learning of production welding techniques by applying the Gas Metal Arc, Flux Cored Arc, and Gas Tungsten Arc Welding processes. Prerequisite: WLD 131 or instructor approval.

5096 01 MTWTh 12:30PM-03:00PM 3403 MCDANIEL S

5098 02W Sa 08:00AM-02:30PM 3403 GILBERT C

5100 21 MW 06:35PM-09:35PM 3403 GILBERT C

WLD 262 Production Welding I 3

Lab Fee: \$36.00

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

5106 01 MTWTh 10:25AM-11:45AM 3403 MCDANIEL S

5108 02W Sa 08:00AM-02:30PM 3403 GILBERT C

5110 21 MW 06:35PM-09:35PM 3403 GILBERT C

WLD 263 Production Weld Process II 6

Lab Fee: \$72.00

An intermediate course that focuses on student learning of production welding techniques by applying the Gas Metal Arc, Flux Cored Arc, and Gas Tungsten Arc Welding processes on large parts in accordance with drawings. Prerequisite: WLD 261 or instructor approval.

5116 01 MTWTh 12:30PM-03:00PM 3403 MCDANIEL S

5118 02W Sa 08:00AM-02:30PM 3403 GILBERT C

5119 03 MTWTh 10:25AM-11:45AM 3403 MCDANIEL S

5120 21 MW 06:35PM-09:35PM 3403 GILBERT C

WLD 264 Advanced Weld Process 3

Lab Fee: \$36.00

An advanced course focusing on student learning of welding processes such as pulsed gas metal arc, pulsed gas tungsten arc, and welding on advanced materials i.e., titanium and inconel. Prerequisite: WLD 262 or instructors permission.

5126 01 MTWTh 10:25AM-11:45AM 3403 MCDANIEL S

5128 02W Sa 08:00AM-02:30PM 3403 GILBERT C

5130 21 MW 06:35PM-09:35PM 3403 GILBERT C

WLD 265 Production Weld Process III 6

Lab Fee: \$72.00

An advanced production welding course focusing on application of Gas Metal Arc, Flux Cored Arc, and Gas Tungsten Arc Welding processes on small parts in accordance with drawings. Parts will be welded in student manufactured fixtures. Prerequisite: WLD 263 or instructor approval.

5136 01 MTWTh 12:30PM-03:00PM 3403 MCDANIEL S
 5138 02W Sa 08:00AM-02:30PM 3403 GILBERT C
 5140 21 MW 06:35PM-09:35PM 3403 GILBERT C

WLD 281 Pipe Welding I 3- 6

Lab Fee: \$72.00

Students will be introduced to pipe welding 1G, 2G, 5G, and 6G positions using E-6010 electrodes with schedule 60, 80, 100, 120 and various size pipes. These three credit courses may be repeated for credit up to six credits. Prerequisite: WLD 131

5150 01 MTWTh 12:30PM-03:00PM 3403 MCDANIEL S
 5152 02W Sa 08:00AM-02:30PM 3403 GILBERT C
 5153 21 MW 06:35PM-09:35PM 3403 GILBERT C

WLD 282 Gas Tungsten Arc Welding II (TIG) 3

Lab Fee: \$36.00

This course introduces students to carbon steel pipe welding in the 1G, 2G, 5G, and 6G positions using cup walk methods with 1/8" electrodes on various sizes of pipes. Prerequisite: WLD 212 or instructors permission.

5160 01 MTWTh 10:25AM-11:45AM 3403 MCDANIEL S
 5162 02 MTWTh 12:30PM-03:00PM 3403 MCDANIEL S
 5163 03W Sa 08:00AM-02:30PM 3403 GILBERT C
 5164 21 MW 06:35PM-09:35PM 3403 GILBERT C

WLD 283 Pipe Welding II 3- 6

Lab Fee: \$72.00

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

5170 01 MTWTh 12:30PM-03:00PM 3403 MCDANIEL S
 5172 02W Sa 08:00AM-02:30PM 3403 GILBERT C
 5173 21 MW 06:35PM-09:35PM 3403 GILBERT C

WLD 284 Gas Tungsten Arc Welding (TIG) III 3

Lab Fee: \$36.00

Students will gain advanced skills on carbon steel pipe in the 2G, 5G, 6G positions, carbon steel pipe with stainless steel rods, and stainless steel pipe in the 2G, 5G, and 6G positions. Prerequisite: WLD 282 or instructors permission

5180 01 MTWTh 10:25AM-11:45AM 3403 MCDANIEL S
 5182 02W Sa 08:00AM-02:30PM 3403 GILBERT C
 5183 21 MW 06:35PM-09:35PM 3403 GILBERT C

WLD 285 Pipe Welding III 3- 6

Lab Fee: \$72.00

This course focuses on pipe welding 1G, 2G, 5G, and 6G positions using E-6010 and E-7018 rods and a combination of G.T.A.W and S.M.A.W. process with schedule 40, 60, 80, 100, 120 and various other sizes of pipes. Prerequisite: WLD 283

5190 01 MTWTh 12:30PM-03:00PM 3403 MCDANIEL S
 5192 02W Sa 08:00AM-02:30PM 3403 GILBERT C
 5193 21 MW 06:35PM-09:35PM 3403 GILBERT C
 5195 03 MTWTh 10:25AM-11:45AM 3403 MCDANIEL S

WLD 290 Skill Improvement II 1- 6

Lab Fee: \$72.00

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.

5200 01 MTWTh 10:25AM-11:45AM 3403 MCDANIEL S
 5202 02 MTWTh 12:30PM-03:00PM 3403 MCDANIEL S
 5204 03W Sa 08:00AM-02:30PM 3403 GILBERT C
 5206 21 MW 06:35PM-09:35PM 3403 GILBERT C

WLD 295 Work Based Learning 1- 6

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

5210 01 ARR ARR 3400 MCDANIEL S

WLD 297 Work Based Learning Seminar 1

Feedback and discussion to integrate and relate Work Based Learning and classroom based instruction. Work ethic, leadership, safety and occupational

health, environmental issues, and other student generated topics are examined. May be repeated up to six (6) credits. Co-requisite: WLD 295.

5216 01 ARR ARR 3400 MCDANIEL S