

# Course Descriptions



## ***Methods of Determining Credit***

Course credit is based on semester hours. One semester hour of credit usually represents 50 minutes of class time per week for a semester. Some courses with laboratory sessions meet for longer periods of time per semester hour of credit.

## ***Course Listings***

All courses listed in this catalog appear alphabetically by subject code and in numerical sequence with listings broken down as follows:

1. The capital letters preceding the course indicate the subject area in which the course is offered and are used as a code.
2. The three digits immediately following the subject area code identify individual course offerings within the area of study. In general, the first digit, 1, indicates a first year subject and a 2, a second year subject.
3. The words following the course number are course titles and describe the course in as few words as possible.
4. The single digit on the far right of the second line indicates the number of credit hours the course carries.
5. For a complete listing of all Colorado Community College Common Courses, visit:

[www.cccs.edu/cccs/ccnsindex.html](http://www.cccs.edu/cccs/ccnsindex.html)

*The listing of a course in this or any other college publication does not constitute a guarantee, nor contract, that the particular course will be offered during the time listed. All courses are subject to scheduling changes or cancellations. Every effort to inform students of such changes and/or cancellations will be made.*

### **— (AAA) ADVANCING ACADEMIC ACHIEVEMENT —**

#### **AAA 101 - College 101: The Student Experience**

1 Credit

Introduces students to college culture and prepares them for the challenges they will face in higher education. Through a series of interactive seminars, students discover learning in a multicultural environment and use college and community resources to attain education and career goals.

#### **AAA 109 - Advanced Academic Achievement**

3 Credits

Examines theories and practices associated with successful learning to enhance college success. Recommended for new and returning students, this course study areas including education and career planning, effective communication, personal management, critical and creative thinking, development of community and awareness of diversity, leadership, and techniques for successful academic performance.

### **— (ABM) AGRI-BUSINESS MANAGEMENT —**

#### **ABM 111 - Records and Business Planning I**

9 Credits

Guides the student in the collection of necessary information to implement a computerized record keeping system. Discussion will include computer terminology, application software, balance sheet concepts, accounting principles, computerized accounting reports, and business plan components.

#### **ABM 112 - Records and Business Planning II**

9 Credits

Focuses on implementing a computerized record keeping system. Emphasis is placed on the application and maintenance of an accurate set of computerized financial records, use of a filing system and compiling a business plan.

**— (ABM) AGRI-BUSINESS MANAGEMENT —**

**ABM 121 - Financial Analysis I**

9 Credits

Covers calculating actual enterprise cost analysis to facilitate the development of whole business projected cash flow statements. All facets of record keeping and updating of data will be emphasized, including refining and maintaining of a current accounting system. This course includes the review and revision of business planning goals and objectives.

**ABM 122 - Financial Analysis II**

9 Credits

Presents business analysis through the development of accurate cost and market value accrual balance sheets for the beginning and ending period. Emphasis will be on the measurement and analysis of changes between the two balance sheets. Analysis will include the preparation of an accrual income statement. Financial ratios will be generated to understand their importance to business analysis. Data generated from an established record keeping system will provide the basis for the development of these accrual financial statements.

**ABM 131 Commodity Marketing I**

9 credits

Explores the terminology associated with commodity marketing and management of the risks associated with agricultural production and marketing. Discussion will include cash marketing alternatives as well as the basics of utilizing futures and options contracts. Includes the initial steps towards the development of a marketing plan. Continued maintenance of an established record keeping system is a must to provide cost of production data for enterprises. Cost of production figures for all enterprises will be determined. These enterprise calculations will result in the initial establishment of a cost of production trend for all enterprises.

**ABM 132 Commodity Marketing II**

9 credits

Explores marketing alternatives in greater depth. Price behavior will be analyzed using technical and fundamental analysis. The marketing plan will be completed through the application of local marketing alternatives, futures contracts, option contracts, and price behavior information. Cost of production figures for all enterprises will be calculated. Includes the initial steps toward developing an enterprise trend analysis.

**ABM 135 Marketing and Risk Management I**

9 credits

Teaches students to conduct marketing research and analysis for the initial steps for developing a marketing plan. The focus will be on defining markets, analyzing competition, identification of products/services, pricing, and customer wants and needs. In addition, added value products and niche markets will be explored. The maintenance, refining, or implementation of systems to provide accurate sales and expense information will be addressed. Sale and expense calculations will result in the establishment of sale/pricing trends for all enterprises along with margin calculations.

**ABM 136 Marketing and Risk Management II**

9 credits

Develops an overall marketing plan derived from marketing research and analysis conducted in ABM 135. It includes a look at advertising, promotion, e-commerce, and risk management. This will include the maintenance review of existing software used to track sales and cost information. A trend of historical sales and expenses will be implemented.

**ABM 137 Web Production/Utilization I**

9 credits

Improved understanding and use of the Internet for business productivity. Emphasis will be on understanding and utilizing the tools available and the technical capabilities of the present business in order to develop a web use plan for the business.

**ABM 138 Web Production/Utilization II**

9 credits

Focus is on the business web use plan. Emphasis will be placed on the improved utilization of the Internet and implementation and refinement of the web use plan relating to business operations and industry.

— (ABM) AGRI-BUSINESS MANAGEMENT —

**ABM 141 - Advanced Business Management I**

9 Credits

Explores further in-depth financial analysis of the business. Includes a review of existing financial trends and emphasis of proforma activities for further analysis of the business. The maintenance of accurate accrual records and historical data provide the data basis for the proforma activities and measuring the business performance past and present.

**ABM 142 - Advanced Business Management II**

9 Credits

Focuses on revision of the business plan on a periodic basis and strengthening of management skills by focusing on the five main sources of risk. The student will be exposed to various methods of finding resource materials needed to keep the business plan current and to manage for the future. The maintenance of accurate accrual records and historical data provides the foundation needed for analysis.

**ABM 143 Integrated Management I**

9 Credits

Focuses on the research and identification of data and software technology used in the business and industry. In addition to software applications and data use, research will include areas in online opportunities, credit resources and reduction, and managing risks.

**ABM 144 Integrated Management II**

9 Credits

Focuses on the analysis and evaluation of data and software currently used in the business. The primary focus will be the development of a management plan that incorporates improved use of software and data through the integration of current and/or new software applications.

**ABM 151 Rural Business Entrepreneurship I**

9 Credits

Guides the student in collection of data necessary for a new venture business plan. Focuses on identifying the components of a business plan, defining the business and markets, identifying customer wants and needs, and analyzing the competition. A technological emphasis in the development of a plan is used.

**ABM 152 Rural Business Entrepreneurship II**

9 Credits

Focuses on the financial component of the business plan. Emphasizes the development of financial statements, creation of financial projections with support documentation, and identification of finance issues. A technological approach is used.

**ABM 153 Leadership/Human Resource Management I**

9 Credits

Explores concepts and skills associated with effective leadership and ethics in the business environment. Focus is on concepts relating to leadership management, characteristics of functional teams, stress management, and identification of human resource tools.

**ABM 154 Leadership/Human Resource Management II**

9 Credits

Focus of this course is the evaluation and analysis of management practices in the current business environment. Concepts in the development of a leadership and evaluation plan will be looked at.

## — (ACC) ACCOUNTING —

### ACC 101 - Fundamentals of Accounting

3 Credits

Presents the basic elements and concepts of accounting, with emphasis on the procedures used for maintaining journals, ledgers, and other related records, and for the completion of end-of-period reports for small service and merchandising businesses.

### ACC 115 - Payroll Accounting

3 Credits

Studies federal and state employment laws and their effects on personnel and payroll records. The course is non-technical and is intended to give students a practical working knowledge of the current payroll laws and actual experience in applying regulations. Students are exposed to computerized payroll procedures.

### ACC 121 - Accounting Principles I

4 Credits

Introduces the study of accounting principles for understanding of the theory and logic that underlie procedures and practices. Major topics include the accounting cycle for service and merchandising companies, special journals and subsidiary ledgers, internal control principles and practices, notes and interest, inventory systems and costing, plant assets and intangible asset accounting, and depreciation methods and practices.

### ACC 122 - Accounting Principles II

4 Credits

Continues the study of accounting principles as they apply to partnerships and corporations. Major topics include stocks and bonds, investments, cash flow statements, financial analysis, budgeting, and cost and managerial accounting. Prerequisite: ACC 121 or equivalent

### ACC 125 - Computerized Accounting

3 Credits

Introduces the capabilities of computer applications in accounting. Includes solving accounting problems of a financial nature and hardware and software controls.

### ACC 132 – Tax Help Colorado

2 Credits

This course prepares the students for preparation of federal and state income tax returns for individuals. Emphasis is placed on form preparation with the use of tax software.

### ACC 133 – Individual Income Tax Site Lab

1 Credit

This course allows students to prepare actual federal and state income tax returns for individuals in a real time environment.

## — (AGB) AGRICULTURE BUSINESS —

### AGB 228 – Agri-Business Management

3 Credits

Provides the student with basic management principles and practical experience in applying principles of economics, business, marketing, and finance to the management of an agri-business operation.

## — (AGE) AGRICULTURE ECONOMICS —

### AGE 102 Agriculture Economics

3 Credits

Focuses on economic principles as applied to agriculture through price discovery with producer supply and consumer demand, governmental policies, rural development, and resource management.

### AGE 205 Farm and Ranch Management

3 Credits

Provide students with practical experience in applying principles of economics, business, marketing and finance to the management of a farm/ranch operation.

### AGE 208 Agricultural Finance

3 Credits

Emphasizes principles of finance and their application to agriculture and agribusiness, including the time value of money, net present value analysis, interest, credit lending institutions, financial statements and financial ratios.

Prerequisite: AGE 205 or permission from instructor

### AGE 210 - Agriculture Marketing

3 Credits

Studies the agricultural marketing system and methods of marketing crops and livestock. Emphasizes hedging with futures options.

## — (AGP) AGRICULTURE PRODUCTION—

### AGP 106 - Crop Scouting & Pest Control Methods

3 Credits

Teaches recognition of pests commonly found on major crops in Colorado, their life cycles and integrated pest control measures for these weeds, insects, and diseases.

### AGP 107 - Practical Irrigation Mgmt

2 Credits

Introduces the student to irrigation methods, scheduling, limited irrigation concepts, hydrology, safety, water quality, chemigation, and interrelationships between irrigation, soil fertility, and crops. A limited amount of water law is also covered.

### AGP 110 - Integrated Pest Mgmt

3 Credits

Identification and control of economically important weeds, insects and diseases through systems approach management concepts including cultivation, chemical and biological control mechanisms.

### AGP 146 - Artificial Insemination Mgmt

2 Credits

Provides a study of applied fundamentals of anatomy and reproduction as they pertain to artificial insemination. Emphasizes the handling of frozen semen, heat detection and nutritional management for AI. Individualized training is given in developing and perfecting insemination techniques in live cattle.

### AGP 147 - Practical Cattle Reproduction

2 Credits

Studies the fundamentals of cattle reproduction. Principles covered include: nutrition, breeding, system management, physiology of the reproductive tract, hormone function, fertilization, stages of pregnancy, and overall reproductive management of the cow herd. Emphasizes economic decision making and practical experience. Covers practical applications in reproductive management that may include: reproductive tract scoring, pelvic measuring, body condition scoring, artificial insemination and palpating cows.

**— (AGP) AGRICULTURE PRODUCTION—**

**AGP 148 - Cattle Reproduction Lab**

1 Credit

Development of skills necessary for reproductive management of cattle in Beef/Dairy operations. Covers the practical application of reproductive management techniques and practices utilized in the cattle industry.

**AGP 204 - Soil Fertility and Fertilizers**

4 Credits

Emphasizes soil fertility and plant nutrition in crop production, soil-plant relations, diagnostic techniques and methods of evaluating soil fertility. Includes composition, manufacture, marketing and use of fertilizer materials and their reactions with soils and plants.

**AGP 208 - Commercial Pesticide License Training**

3 Credits

Focuses on the requirements for the qualified supervisor license as outlined by the Colorado Department of Agriculture. Students may elect to take the certified operator tests if they do not meet the experience requirements for the qualified supervisors license. Emphasizes study for the general, weeds, agricultural insect, plant disease, and industrial right-of-way tests administered by the Colorado Department of Agriculture. Students may elect to take any other test available.

**AGP 215 - Animal Health**

3 Credits

Introduces the student to methods of prevention, recognition, and treatment of common livestock diseases.

**AGP 247 - Production Cattle Feeding**

3 Credits

Continues ASC212 with emphasis on production cattle feeding in large and medium size operations. The mechanics and management of feeding operations in Logan County are observed and studied. Three major areas are emphasized: 1) Feedlot layout and design, 2) Nutrition, and 3) Health.

**AGP 280 - Production Ag. Internship**

1-2 Credits

May be waived if the student exhibits substantial knowledge and understanding of production agriculture in their first term of OJT and through written documentation of work experience at the time of waiver application.

**— (AGR) AGRICULTURE —**

**AGR 224 - Integrated Ranch Management**

3 Credits

Provides training in management pertaining to the economics of a ranching enterprise. Topics include principles of system management, resource inventory and management, ranch decision making, nutrition, selection, record keeping, financial management, and marketing.

**AGR 260 World Interdependence - Population and Food**

3 Credits

Covers the study of world population and food production and distribution. Problems and opportunities concerning population and food are discussed in a global context.

— (AGY) AGRICULTURE CROPS & SOILS —

AGY 100 General Crop Production

4 Credits

Focuses on production and adaptation of cultivated crops, principles affecting growth, development, management, and utilization.

AGY 240 Introductory Soil Science

4 Credits

Focuses on formation, physical properties, chemical properties and management of soils emphasizing conditions that affect plant growth. Prerequisite or Corequisite: CHE 101. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1.

— (ANT) ANTHROPOLOGY —

ANT 101 - Cultural Anthropology

3 Credits

Studies human cultural patterns and learned behavior. Includes linguistics, social and political organization, religion, culture and personality, culture change, and applied anthropology. This course is one of the Statewide Guaranteed Transfer courses. GT-SS3

ANT 107 - Introduction to Archeology

3 Credits

Introduces the science of recovering the human prehistoric and historic past through excavation, analysis, and interpretation of material remains. The course provides a survey of the archaeology of different areas of the Old and New Worlds and the works of selected archaeologists, and discusses major archaeological theories.

~~This course is one of the Statewide Guaranteed Transfer courses. GT-SS3

ANT 111 - Physical Anthropology

3 Credits

Studies human biology and its effects on behavior. Includes principles of genetics and evolution, vertebrates and primates, human origins, human variation, and ecology. This course is one of the Statewide Guaranteed Transfer courses. GT-SS3

— (ART) ART —

ART 107 - Art Education Methods

3 Credits

Focuses on a multimedia approach to teaching art. Emphasizes strong creative presence, philosophy and techniques in drawing, painting, printmaking, and other media.

ART 110 - Art Appreciation

3 Credits

Introduces the cultural significance of the visual arts, including media, processes, techniques, traditions, and terminology. This course is one of the Statewide Guaranteed Transfer courses. GT-AH1.

ART 111 - Art History: Ancient to Medieval

3 Credits

Provides the knowledge base to understand the visual arts, especially as related to Western culture. Surveys the visual arts from the Ancient through the Medieval periods. This course is one of the Statewide Guaranteed Transfer courses. GT-AH1.



— (ART) ART —

**ART 112 - Art History: Renaissance to Modern**

3 Credits

Provides the knowledge base to understand the visual arts, especially as related to Western culture. Surveys the visual arts from the Renaissance to 1900.

~~This course is one of the Statewide Guaranteed Transfer courses. GT-AH1

**ART 121 - Drawing I**

3 Credits

Investigates the various approaches and media that students need to develop drawing skills and visual perception.

**ART 221 - Drawing II**

3 Credits

Explores expressive drawing techniques with an emphasis on formal composition, color media and content or thematic development.

Prerequisite: ART 121

**ART 124 - Watercolor I**

3 Credits

Provides an introduction to the basic techniques and unique aspects of materials involved in the use of either transparent or opaque water media or both. Color theory is included.

**ART 131 - Visual Concepts 2-D Design**

3 Credits

Examines the basic elements of design, visual perception, and artistic form and composition as they relate to two-dimensional media.

**ART 132 - Visual Concepts 3-D Design**

3 Credits

Focuses on learning to apply the elements and principles of design to three dimensional problems.

**ART 150 - Digital Art Foundations I**

3 Credits

Explores visual problem solving using digital tools for fine art. Students will learn to draw and paint in a variety of artistic modalities using color and grayscale. Two-dimensional to three-dimensional observation exercises in composition will be explored. Students will develop their skills in gesture and contour drawing, painterly expression and artistic elements while using the computer as an art tool. Use of systematic applications for development and presentation of ideas is practiced using vector and raster software. No computer experience is necessary.

**ART 151 - Painting I**

3 Credits

Explores basic techniques, materials, and concepts used in opaque painting processes in oil or acrylic painting to depict form and space on a two-dimensional surface.

— (ART) ART —

**ART 161 - Ceramics I**

3 Credits

Introduces traditional and contemporary ceramic forms and processes including handbuilding and throwing on the potter's wheel.

**ART 175 - Special Topics**

3 Credits

Provides students with a vehicle to pursue in depth exploration of special topics of interest.

**ART 207 - Art History 1900 to Present**

3 Credits

Provides students with the knowledge base to understand the visual arts as related to Modern and Contemporary visual art. Surveys world art of the twentieth century, including Modernism to Post-Modernism. This course is one of the Statewide Guaranteed Transfer courses. GT-AH1.

**ART 208 - Culture Studies**

3 Credits

Studies the arts and history of a particular culture at the location of that culture. Students view the arts and architecture of the culture in the historical and spatial contexts for which they were designed and in galleries and museums.

**ART 209 - Studio Art**

3 Credits

Designed for advanced students interested in further exploring an art discipline to develop a more comprehensive portfolio.

Prerequisite: Permission of Instructor.

**ART 224 - Watercolor II**

3 Credits

Continues the study of watercolor techniques, emphasizing original compositions and experimentation with materials. Color theory is included.

**ART 251- Painting II**

3 Credits

Further explores techniques, materials, and concepts used in opaque painting processes in oil or acrylic painting, with emphasis on composition and content development.

Prerequisite: ART 151

**ART 275 - Special Topics**

3 Credits

Provides the student with a vehicle to pursue in depth exploration of special topics of interest.

**ART 289 - Capstone**

0-12 Credits

Provides a demonstrated culmination of learning within a given program of study.

Prerequisite: Permission of Instructor.

**— (ASC) ANIMAL SCIENCE —****ASC 100 Animal Sciences**

3 Credits

Studies the basic fundamentals of livestock production pertaining to principles of breeding, genetics, nutrition, health, and physiology of beef, sheep, swine, dairy, and horses. Focuses on the Animal Science Industry in general and each species industry in regard to history, current situation, and future direction.

**ASC 225 Feeds and Feeding**

4 Credits

Focuses on the basic nutrients, common feeds and feed additives, anatomy of digestive systems, and basic feeding practices for beef, sheep, and dairy. The lab portion of the class is devoted to calculating and balancing rations to fulfill nutrient requirement for farm animals for growth, finishing, reproduction, lactation, work, and wool production. Explores least cost ration balancing on the computer.

Prerequisite: ASC 100 or permission of instructor

**ASC 230 Farm Animal Anatomy & Physiology**

3 Credits

Introduces students to the basic concepts of farm animal anatomy and physiology with emphasis on concepts relating to nutrition, reproduction, Immunology, and growth of the basic farm species. ~Anatomy and Physiology is taught in the context of applying basic principles to production practices in the industry including reproductive management, livestock nutrition management, and animal health practices.

Prerequisite: ASC 100 or permission of instructor

**ASC 250 Live Animal and Carcass Evaluation**

3 Credits

Explores meat carcass evaluation and the related yield and quality grading system. Emphasizes selection of breeding stock based on performance data. Covers comparative selection, grading, and judging of market and breeding classes of livestock based on knowledge of phenotype, performance, information, and/or carcass merit.

Prerequisite: ASC 100 or permission of instructor

**ASC 288 Livestock Practicum**

2 Credits

Provides experiential learning with beef cattle, dairy cattle, swine and sheep.

Prerequisite: ASC 100 or permission of instructor

— (ASE) AUTOMOTIVE TECHNOLOGY —

**ASE 110 - Brakes I**

2 Credits

Covers basic operation of automotive braking systems. This includes operation, diagnosis and basic repair of disc, drum and basic hydraulic braking systems.

Corequisite: ASE 111, ASE 210

**ASE 111 - Automotive Brake Service II**

2 Credits

Teaches skills to perform service checks and procedures to automotive foundation braking system and to identify components and types of ABS and traction control systems

Corequisite: ASE 110, ASE 210

**ASE 120 - Basic Automotive Electricity**

2 Credits

Introduces vehicle electricity and includes basic electrical theory, circuit designs, and wiring methods. It also focuses on multimeter usage and wiring diagrams.

Prerequisite: ASE 160, ASE 161

Corequisite: ASE 123, ASE 220, ASE 221, ASE 231

**ASE 123 - Starting and Charging Systems**

2 Credits

Covers the operation, testing and servicing of vehicle battery, starting and charging systems. Includes voltage testing of starter and generator, load testing and maintenance of a battery.

Prerequisite: ASE 160, ASE 161

Corequisite: ASE 120, ASE 220, ASE 221, ASE 231

**ASE 130 - General Engine Diagnosis**

2 Credits

Teaches students how to perform basic engine diagnosis to determine condition of engine. This will include engine support systems.

Prerequisite: ASE 160, ASE 161

Corequisite: ASE 132, ASE 134, ASE 233, ASE 235

**ASE 132 - Ignition System Diagnosis and Repair**

2 Credits

Focuses on lecture and related laboratory experiences in the diagnosis, service, adjustments and repair of various automotive ignition systems.

Prerequisite: ASE 160, ASE 161

Corequisite: ASE 130, ASE 134, ASE 233, ASE 235

**ASE 134 - Automotive Fuel and Emissions Systems I**

2 Credits

Focuses on lecture and laboratory experiences in the diagnosis and repair of automotive fuel emission control systems, filter systems and spark plugs. Course also includes maintenance to diesel (DEF) systems.

Prerequisite: ASE 160, ASE 161

Corequisite: ASE 130, ASE 132, ASE 233, ASE 235

**— (ASE) AUTOMOTIVE TECHNOLOGY —****ASE 140 - Suspension and Steering I**

2 Credits

Focuses on lecture and related experiences in the diagnosis and service of suspensions and steering systems and their components.

Corequisite: ASE 141, ASE 240

**ASE 141 - Suspension and Steering II**

2 Credits

Covers design, diagnosis, inspection, and service of suspension and steering systems used on light trucks and automobiles. Course includes power steering and SRS service.

Corequisite: ASE 140, ASE 240

**ASE 150 - Manual Drive Train and Axle Maintenance**

2 Credits

Studies the operating principles and repair procedures relating to axle-shaft and universal joints.

Corequisite: ASE 151, ASE 152

**ASE 151 - Automotive Manual Transmission/Transaxles & Clutches**

2 Credits

Focuses on lecture and related laboratory experiences in the diagnosis and repair of automotive manual transmissions, transaxles and clutches and related components.

Corequisite: ASE 150, ASE 152

**ASE 152 - Manual Transmission, Transaxles and Clutches II**

2 Credits

Focuses on lecture and related laboratory experiences in the diagnosis and repair of automotive differentials, four wheel and all wheel drive units.

Corequisite: ASE 150, ASE 151

**ASE 160 - Automotive Engine Repair**

2 Credit

Focuses on lecture and laboratory experiences in the service of cylinder head, valve-train components and components of the cooling system. Course also includes engine removal and re-installation and re-mounting systems.

Corequisite: ASE 161, ASE 162

**ASE 161 - Engine Repair & Rebuild**

3 Credits

Focuses on lecture and laboratory experiences in the disassembly, diagnosis and reassembly of the automotive engine. Topics include the diagnostic and repair procedures for the engine block and head assemblies.

Corequisite: ASE 160, ASE 162

**ASE 162 - Automotive Engine Service**

2 Credits

Covers engine sealing requirements and repair procedures; engine fasteners, bolt torque and repair of fasteners. Course will also cover cooling system and basic engine maintenance.

Corequisites: ASE 160, ASE 161

— (ASE) AUTOMOTIVE TECHNOLOGY —

**ASE 210 - Automotive Power and ABS Brake Systems**

2 Credits

Covers the operation and theory of the modern automotive braking systems. Includes operation, diagnosis, service, and repair of the anti-lock braking systems, power assist units and machine operations of today's automobile.  
Corequisite: ASE 110

**ASE 220 - Specialized Electronics Training**

2 Credits

Provides a systematic approach to automotive electrical systems. Builds from the basic electrical principles and concepts through semiconductors and microprocessors. Features on-bench exercises. Students practice diagnostic procedures that have applications to present and future automotive electronics and electrical systems.  
Prerequisite: ASE 160, ASE 161  
Corequisite: ASE 120, ASE 123, ASE 221, ASE 231

**ASE 221 - Automotive and Diesel Body Electrical**

4 Credits

Provides a comprehensive study of the theory, operation, diagnosis, and repair of vehicle accessories  
Prerequisite: ASE 160, ASE 161  
Corequisite: ASE 120, ASE 123, ASE 220, ASE 231

**ASE 231 - Automotive Computers and Ignition Systems**

2 Credits

Focuses on lecture and laboratory experiences in the inspection and testing of typical computerized engine control systems.  
Prerequisite: ASE 160, ASE 161  
Corequisite: ASE 120, ASE 123, ASE 220, ASE 221

**ASE 233 - Auto Fuel Injection and Emissions Systems II**

4 Credits

Focuses on lecture and related laboratory experiences in the diagnosis and repair of electronic fuel injection systems and modern exhaust systems.  
Prerequisite: ASE 160, ASE 161  
Corequisite: ASE 130, ASE 132, ASE 134, ASE 235

**ASE 235 - Driveability & Diagnosis**

2 Credit

Emphasizes lecture and related laboratory experience in diagnostic techniques and the use of diagnostic scan tools, oscilloscopes, lab scopes, multi-meters and gas analyzers. Students diagnose live vehicle driveability problems.  
Prerequisite: ASE 160, ASE 161  
Corequisite: ASE 130, ASE 132, ASE 134, ASE 233

**ASE 240 - Suspension and Steering II**

2 Credit

Covers operation of steering and power steering systems. It will also include different alignment types and procedures.  
Corequisite: ASE 140

**— (ASE) AUTOMOTIVE TECHNOLOGY —**

**ASE 250 - Automatic Transmission/Transaxle Service**

1 Credit

Focuses on practical methods of maintaining, servicing, and performing minor adjustments on an automatic transmission and transaxle.

Corequisite: ASE 251, ASE 252

**ASE 251 - Automotive Transmission and Transaxle Repair**

3 Credits

Covers diagnosis, principles of hydraulics, principles of electronic components, power flow, theory of operation, remove and re-install transmission/transaxle, and replacement of components.

Corequisite: ASE 250, ASE 252

**ASE 252 - Advanced Automatic Transmissions/Transaxles**

2 Credits

Provides laboratory experiences with hands on approach in the areas that the student received training during previous automotive transmission classes.

Corequisite: ASE 250, ASE 251

**ASE 264 - Introduction Automotive Heating and Air Conditioning**

1 Credit

Covers basic operation of the Heating and Air Conditioning components.

Corequisite: ASE 265

**ASE 265 - Heating and Air Conditioning Systems**

4 Credits

Emphasizes lecture and related laboratory experiences in the diagnosis and service of vehicle heating and air conditioning systems and their components.

Corequisite: ASE 264

**— (ASL) AMERICAN SIGN LANGUAGE —**

**ASL 101 - Basic Sign Language I**

3 Credits

Provides students with the basic knowledge of communicating with the deaf community. Students will develop basic vocabulary and conversational skills and will be introduced to aspects for the deaf culture and community.

**ASL 102 - Basic Sign Language II**

3 Credits

Continues the sequence for students who want to learn basic conversational patterns to communicate with the deaf community. The material covers basic vocabulary and conversational skills, and aspects of the deaf culture and community.

Prerequisite: ASL 101 or permission of instructor.

— (AST) ASTRONOMY —

**AST 101 - Astronomy I w/Lab**

4 Credits

Focuses on the history of astronomy, the tools of the astronomer and the contents of the solar system including the planets, moons, asteroids, comets, and meteoroids. Incorporates laboratory experience. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1

**AST 102 - Astronomy II w/Lab**

4 Credits

Emphasizes the structure and life cycle of the stars, the sun, galaxies, and the universe as a whole, including cosmology and relativity. Incorporates laboratory experience. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1

**AST 150 - Astrobiology: Life in the Universe**

3 Credits

Introduces the interdisciplinary and scientific nature of the search for life in the universe, also known as astrobiology. Students will address the questions: "How does life begin and evolve?" "Is there life elsewhere in the universe?" Students will examine life on Earth, its origin and evolution. The possibilities of other life in the solar system and throughout the universe will be examined. Students will investigate the current state of exploration and the search for extraterrestrial life.

Prerequisite: AST 102

— (BIO) BIOLOGY —

**BIO 105 - Science of Biology**

4 Credits

Examines the basis of biology in the modern world and surveys the current knowledge and conceptual framework of the discipline. Explores biology as a science - a process of gaining new knowledge - as is the impact of biological science on society. Includes laboratory experiences. Designed for non-science majors. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1

**BIO 106 - Basic Anatomy And Physiology**

4 Credits

Focuses on basic knowledge of body structures and function, and provides a foundation for understanding deviations from normal and disease conditions. This course is designed for individuals interested in health care and is directly applicable to the Practical Nursing Program, Paramedic Program and the Medical Office Technology program.

**BIO 111 - General College Biology with Lab**

5 Credits

Examines the fundamental molecular, cellular and genetic principles characterizing plants and animals. Includes cell structure and function, and the metabolic processes of respiration, and photosynthesis, as well as cell reproduction and basic concepts of heredity. The course includes laboratory experience. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1

**BIO 112 - General College Biology II with Lab**

5 Credits

Continues Biology I. Includes ecology, evolution, classification, structure, and function in plants and animals. This course includes laboratory experience. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1



— (BIO) BIOLOGY —

**BIO 148 - Basic Ecology**

4 Credits

Studies the interrelationships between organisms and their environment. Includes population dynamics and the diversity of ecosystems. Laboratory includes field experience.

**BIO 154 - Biology of Plants**

4 Credits

Focuses on the diversity of plants, the structure and function of plants, the ecology of plants, and human use of plants. Emphasizes seed-producing vascular plants, especially flowering plants. Laboratory and field experience is included. Prerequisite: BIO 105 or permission of Instructor.

**BIO 160 - Introduction to Biotechnology**

3 Credits

Introduces the student to modern molecular biology technologies that include DNA, RNA, and proteins and prepares them for research and industry. Laboratory experience includes sterile technique, microscopy, media preparation, and bacterial culturing.

Prerequisite: BIO 111 or permission of Instructor.

**BIO 175 - Special Topics**

1-12 Credits

Provides students with a vehicle to pursue in depth exploration of special topics of interest.

**BIO 201 - Human Anatomy and Physiology I**

4 Credits

Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering experimentation, microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This course is one of the Statewide Guaranteed Transfer Courses. GT-SC1

Prerequisite: BIO 111 or pass a placement test.

**BIO 202 - Human Anatomy and Physiology II**

4 Credits

Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving experimentation, microscopy, observations, and dissection. This is the second semester of a two-semester sequence. GT-SC1.

Prerequisite: BIO 201 or equivalent or permission of instructor.

**BIO 204 - Microbiology**

4 Credits

Designed for health science majors. Examines microorganisms with an emphasis on their structure, development, physiology, classification, and identification. The laboratory experience includes culturing, identifying, and controlling microorganisms with an emphasis on their role in infectious disease. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1. Prerequisite: BIO 111 or BIO 201

— (BIO) BIOLOGY —

**BIO 211 - Cell Biology**

4 Credits

This course is an intensive study of the cell and its organelles. Emphasis will be on the molecular mechanisms involved in cell communication, metabolism, motility, genetics, growth, and reproduction. This course requires hands-on laboratory experience.

**BIO 216 - Human Pathophysiology**

4 Credits

Focuses on the alterations in physiological, cellular, and biochemical processes, the associated homeostatic responses, and the manifestations of disease. Prior knowledge of cellular biology, anatomy, and physiology is essential for the study of pathophysiology.

Prerequisite: BIO 201, BIO 202 or permission of instructor

**BIO 220 - General Zoology w/Lab**

5 Credits

Focuses on the study of invertebrate and vertebrate animals and examines structure, evolutionary development, ecology, classification, physiology, reproduction, and zoogeography. A survey of zoological diversity emphasizing the characteristics, zoological contributions, and classification of animal phyla and major classes, this course requires hands-on laboratory and field experience. GT-SC1. Designed for biology majors.

**BIO 221 - Botany w/Lab**

5 Credits

Studies nonvascular and vascular plants, emphasizing photosynthetic pathways, form and function, reproduction, physiology, genetics, diversity, evolution, and ecology. This course requires mandatory hands-on laboratory and field experience. GT-SC1. Designed for biology majors.

**BIO 265 - Techniques in Cell Culture and Protein Production**

4 Credits

Focuses on the methods commonly used in biotech manufacturing facilities. Includes eukaryotic cell culture, prokaryotic fermentation, and protein production and purification. Requires hands-on laboratory experience.

Prerequisite: BIO 111 or permission of Instructor.

**BIO 281 - Internship**

1-12 Credits

Provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor.

**— (BTE) BUSINESS TECHNOLOGY —**

**BTE 100 - Computer Keyboarding**

1 Credit

Designed for students who have minimal or no keyboarding skills. Introduces the touch method of keyboarding, as well as the basic operation and functions of the equipment. Emphasizes learning the alphanumeric keyboard, proper technique, and speed control.

**BTE 108 - Ten-Key by Touch**

1 Credit

Introduces touch control of the ten-key pad. Emphasizes the development of speed and accuracy using proper technique.

**BTE 225 - Office Management**

3 Credits

Emphasis is placed on functions of the office. Includes office organization, work in the office, office layout, equipment and supplies, procurement and control, work flow, forms design, record storage and retrieval systems, personnel administration and problems, and government control.

**BTE 287 - Cooperative Education/Internship**

1 Credits

Provides students with the opportunity to supplement course work with practical work experience related to their educational program and occupational objectives. Students are placed at approved work sites that are related to their program of study. They work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor/coordinator.

**— (BUS) BUSINESS —**

**BUS 115 - Introduction to Business**

3 Credits

Focuses on the operation of the American business system. Covers fundamentals of the economy, careers and opportunities, marketing, management, production, governmental regulations, tools of business and social responsibilities.

**BUS 216 - Legal Environment of Business**

3 Credits

Emphasizes public law, regulation of business, ethical considerations, and various relationships existing within society, government, and business. Specific attention is devoted to economic regulation, social regulation, regulation and laws impacting labor-management issues, and environmental concerns. Students develop an understanding of the role of law in social, political, and economic change.

**BUS 217 - Business Communication & Report Writing**

3 Credits

Emphasizes effective business writing and covers letters, memoranda, reports, application letters, and resumes. Includes the fundamentals of business communication and an introduction to international communication.

Prerequisite: ENG 090

**BUS 226 - Business Statistics**

3 Credits

Focuses on statistical study, descriptive statistics, probability, and the binomial distribution, index numbers, time series, decision theory, confidence intervals, linear regression, and correlation. Intended for the business major.

Prerequisite: MAT 120

— (CAD) COMPUTER ASSISTED DRAFTING —

**CAD 255 - Solidworks/Mechanical**

3 credits

Introduces basic non-parametric 3D concepts to build confidence in 3D thinking and progresses to three-dimensional parameters. The student learns to construct, modify, and manage complex parts in 3D space as well as to produce 2D drawings from the 3D models.

**CAD 259 - Advanced SolidWorks**

3 credits

This course focuses on the advanced applications of the parametric software SolidWorks. Includes management of design data, advanced assembly and analysis of model creations and constraints, documentation of bill of materials and parts lists, rendering and animation and testing a model assembly.

Prerequisite: CAD 257

— (CCR) COLLEGE COMPOSITION & READING —

**CCR 091 - Reading & Composition Lab**

1 Credit

Supports skill development for students registered in CCR 092 College Reading and Composition who score below RC 40 or SS 50. Topics covered in the course include those defined in CCR 092 and/or any foundational skills needed by the student. Any student enrolled in CCR 091 is required to co-enroll in CCR 092.

**CCR 092 - Reading & Composition**

5 Credits

Integrates and contextualizes college level reading and writing. Students will read and understand complex materials and respond to ideas and information through writing informative and/or persuasive texts.

**CCR 093 - Studio D**

3 Credits

Integrates and contextualizes reading and writing strategies tailored to a co-requisite 100-level course within one or more of the four discipline strands. The four discipline strands are defined as: Communications, Science, Social Science, and Arts and Humanities. Non-GT courses are not eligible for this consideration. Students will read and understand complex discipline-specific materials, and respond to ideas and information through writing informative and/or persuasive texts.

**CCR 094 - Studio 121**

3 Credits

Integrates and contextualizes reading and writing strategies tailored to co-requisite ENG 121 coursework. Students will read and understand complex materials, and respond to ideas and information through writing informative and/or persuasive texts.

— (CHE) CHEMISTRY —

**CHE 101 - Introduction to Chemistry I with Lab**

5 Credits

Includes the study of measurements, atomic theory, chemical bonding, nomenclature, stoichiometry, solutions, acid and base, gas laws, and condensed states. Laboratory experiments demonstrate the above concepts qualitatively and quantitatively. Designed for non-science majors, students in occupational and health programs, or students with no chemistry background. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1. Prerequisite: MAT 050 or Corequisite: MAT 050

**CHE 102 - Introduction to Chemistry II with Lab**

5 Credits

Focuses on introductory organic and biochemistry (sequel to Introduction to Chemistry I). This course includes the study of hybridization of atomic orbitals for carbon, nomenclature of both organic and biochemical compounds, physical and chemical properties of various functional groups of organic chemistry, and physical and chemical properties of biochemical compounds along with their biochemical pathways. Laboratory experiments are included. Prerequisite: CHE 101 or permission of instructor. GT-SC1.

**CHE 105 - Chemistry In Context with Lab**

5 Credits

Covers the study of measurements, matter, molecules, atoms, chemical bonding, nomenclature, energy, acids, bases, and nutrition. Course work examines chemistry in the modern world and surveys the current knowledge as well as the conceptual framework of the discipline. Chemistry as a science is explored, as is the impact of chemistry on society. This course includes laboratory experience and is designed for non-science majors. GT-SC1

**CHE 111 - General College Chemistry I with Lab**

5 Credits

Focuses on basic chemistry and measurement, matter, chemical formulas, reactions and equations, stoichiometry and thermochemistry. This course covers the development of atomic theory culminating in the use of quantum numbers to determine electron configurations of atoms, and the relationship of electron configuration to chemical bond theory and molecular orbital theory. The course includes gases, liquids, and solids and problem-solving skills are emphasized through laboratory experiments. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1. Prerequisite or Corequisite: MAT 121

**CHE 112 - General College Chemistry II with Lab**

5 Credits

Presents concepts in the areas of solution properties, chemical kinetics, chemical equilibrium, acid-base and ionic equilibrium, thermodynamics, electrochemistry, nuclear chemistry, and organic chemistry. This course emphasizes problem solving skills and descriptive contents for these topics. Laboratory experiments demonstrate qualitative and quantitative analytical techniques. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1. Prerequisite: CHE 111

**CHE 211 - Organic Chemistry I with Lab**

5 Credits

Focuses on compounds associated with the element carbon. Includes structure and reactions of aliphatic hydrocarbons and selected functional group families. Covers nomenclature of organic compounds, stereochemistry, reaction mechanisms such as SN1, SN2, E1 and E2. Laboratory experiments demonstrate the above concepts plus the laboratory techniques associated with organic chemistry. Prerequisite: CHE 112 or CHE 111 and Instructor Permission.

**CHE 212 - Organic Chemistry II with Lab**

5 Credits

Explores the chemistry of carbon-based compounds, their reactions and synthesis including the structure, physical properties, reactivities, and synthesis of organic functional groups not covered in Organic Chemistry I. The course explores functional groups including alcohols, ethers, aromatics, aldehydes, ketones, amines, amides, esters, and carboxylic acids and the reactions and reaction mechanisms of aromatic compounds. An introduction to biochemical topics may be included if time permits. Laboratory experiences demonstrate the above concepts and the laboratory techniques associated with organic chemistry. Prerequisite: CHE 211

— (CHW) COMMUNITY HEALTH WORK —

**CHW 100 - Intro to Community Health Work**

2 Credits

Introduces students to the basic concepts of community health work, to the roles of community health workers, and to basic practical skills necessary to the occupation.

**CHW 120 - Community Health Issues**

3 Credits

Introduces students to the multiple health issues for community health workers. Develops core competencies necessary to function as a Community Health Worker.

**CHW 130 - Community Health Resources**

3 Credits

Introduces students to the skills and resources necessary for community health work with clients in the community.

**CHW 135 - Basics of Chronic Disease**

1.5 Credits

Develop skills and resources necessary to understand medical information to be able to effectively communicate with patients and healthcare team members about the etiology, diagnosis, and treatment of chronic diseases [cancer, diabetes, heart disease, and pulmonary disease].

**CHW 136 - Psych Impact Chronic Disease**

1 Credit

Acquire knowledge regarding the psychosocial aspects of chronic disease. Differentiate between normal responses and problematic responses in order to identify resources, make appropriate referrals, and assist with patient decision-making.

**CHW 137 - End-of-Life/Palliative Care**

0.5 Credits

Explore end-of-life concepts such as advance planning, legal considerations, end-of-life choices, and palliative care, including physical, emotional, and spiritual aspects. Learn to facilitate discussion regarding end-of-life choices, including hospice care.

**CHW 138 - Patient Navigation**

3 Credits

Develop skills necessary to effectively communicate and build relationships with patients, locate health resources, solve problems, and manage information and records.

**CHW 297 - Community Hlt Worker Field Experience**

2 Credits

Provides students with the opportunity to apply Community Health Worker knowledge and to practice Community Health Worker skills in community settings. Prerequisite: Completion of CHW 100-138

— (CSL) COUNSELING —

**CSL 250 - Motivational Interviewing I**

1.5 credits

Provides the opportunity for students to learn both the model of Motivational Interviewing as well as the underlying Stages of Development model. Discussion of the populations of clients where these models have proven most effective will be discussed. Student opportunity for skills practice during class that includes skill sets specific to each stage of client readiness will be used. Presentation of assessment instruments to evaluate client readiness for change.

## — (CIS) COMPUTER INFORMATION SYSTEM —

### CIS 118 - Intro PC Applications

3 Credits

Introduces basic computer terminology, file management, and PC system components. Provides an overview of office application software including word processing, spreadsheets, databases, and presentation graphics. Includes the use of a web browser to access the Internet.

### CIS 135 - Complete PC Word Processing

3 Credits

Explores a complete array of word processing skills. The skills needed to create, edit, format, and printing documents are covered. Other topics include character, paragraph, and page formats, the use of spelling checkers and thesaurus, hyphenation, tables, mail merge, document design, and graphics.

Prerequisite: CIS 118 or permission of instructor.

### CIS 145 - Complete PC Database

3 Credits

Explores a complete array of database skills. Includes table, query, form, and report creation and modification. Other topics include application integration and automation of database tasks within the database.

Prerequisite: CIS 118 or permission of instructor.

### CIS 155 - PC Spreadsheet Concepts: Excel

3 Credits

Exposes the student to a wide range of uses of the electronic spreadsheet with special emphasis on using it as a business tool. Includes fundamentals and terms, creating and saving workbooks, entering and using formulas, formatting, printing, multiple-page workbooks, creating charts, entering and using functions, managing lists, and simple macros. Prerequisite: CIS 118 or permission of instructor.

### CIS 218 - Advanced PC Applications

3 Credits

Emphasizes solving business problems by integrating data from all of the software applications that facilitate the production of useful information. Advanced capabilities of a PC software applications suite are utilized. Printed documents, reports, slides, and forms are produced to communicate information.

## — (CSC) COMPUTER SCIENCE —

### CSC 160 - Computer Science I: (Java)

4 Credits

Introduces students to the discipline of computer science and programming. Algorithm development, data representation, logical expressions, sub-programs and input/output operations using a high-level programming language are covered. Intensive lab work outside of class time is required.

### CSC 161 - Computer Science II: (Java)

4 Credits

Continues algorithm development and problem solving techniques not covered in Computer Science I using a high-level programming language. Students are able to gain experience in the use of data structures and the design and implementation of larger software projects. Intensive computer laboratory experience is required for this course. Prerequisite: CSC 160

— (COM) COMMUNICATIONS —

**COM 115 - Public Speaking**

3 Credits

Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

**COM 125 - Interpersonal Communication**

3 Credits

Examines the communication involved in interpersonal relationships occurring in family, social, and career situations. Relevant concepts include self-concept, perception, listening, nonverbal communication, and conflict.

— (COS) COSMETOLOGY —

**COS 103 - Shampoo/Rinses/Conditioners**

1 Credit

Introduces various types of scalp treatments and shampoos. Enables student to recognize and treat disorders of hair and scalp. Covers product knowledge and proper massage techniques to help control disorders and to cleanse the hair and scalp. Includes terminology dealing with hair structure, scalp, and hair disorders. Provides training in a lab or classroom setting.

**COS 110 - Introduction to Hair Coloring**

2 Credits

Provides theory pertaining to the law of color, theory of color, chemistry of color, product knowledge, and analysis of hair and scalp. Covers basic techniques and procedures for the application of hair coloring.

**COS 111 - Intermediate I: Hair Coloring**

2 Credits

Focuses on theory and practical application of color products, formulations of color, level and shades of color. Examines techniques in a specialized class or in a supervised salon setting.

**COS 120 - Introduction to Hair Cutting**

2 Credits

Introduction to the theory relevant to patron protection, angles, elevations, and the analysis of hair textures as related to hair cutting. Covers the proper use and care of hair cutting implements. Focuses on basic hair cutting techniques using all cutting implements. Disinfection, sanitation procedures as they relate to cutting hair.

**COS 121 - Intermediate I: Hair Cutting**

2 Credits

Focuses on the related facial shapes, head and body forms to determine the clients appropriate haircut. Incorporates practical applications of hair cutting techniques in specialized classes or in the supervised salon (clinical setting).

**COS 130 - Introduction to Hair Styling**

2 Credits

Combines theory with the practical application of roller placement, shaping, pincurls, finger waves, air forming iron curling, soft pressing and hard pressing.

**COS 131 - Intermediate I: Hair Styling**

2 Credits

Focuses on the accepted methods of styling hair, air forming roller sets, finger waves pin curls braiding and hair pressing.



**— (COS) COSMETOLOGY —**

**COS 140 - Introduction to Chemical Texture**

1 Credit

Introduces a combination of theory and practice focusing on the analysis of hair and scalp, proper equipment and product knowledge. Includes basic techniques in permanent waving and chemical relaxing. Provides training in a classroom or lab setting on mannequins or live models.

**COS 141 - Intermediate I: Chemical Texture**

1 Credit

Emphasizes theory and practical application of permanent waves and chemical relaxers in specialized classes or a supervised salon setting. Enables the student to practice different wrapping techniques required by trend styles.

**COS 150 - Laws, Rules and Regulations**

1 Credit

Provides instruction on the laws, rules and regulations and how they govern the cosmetology and barber industry. The affects these have on the student, licensed individual, salons and school owners.

**COS 160 - Introduction to Disinfection, Sanitation & Safety**

2 Credits

Introduces the various methods of disinfection, sanitation, and safety as used in the cosmetology industry. Includes classroom study of bacteriology and the terminology dealing with cosmetology.

**COS 161 - Intermediate I: Disinfection, Sanitation & Safety**

1 Credit

Focuses on the theory and daily practice of proper methods of disinfection, sanitation and safety procedures as related to all phases of cosmetology. Covers terminology and training of disinfection, sanitation and safety procedures. Also includes customer service in a supervised salon (clinical) setting or specialized class.

**COS 203 - Shampoos/Rinses/Conditioners II**

1 Credit

Provides theory and practical training in shampoos, rinses and conditioners. Examines advanced techniques to prepare the student for employment. Includes preparation for the State Board Licensing Examination in shampoos, rinses and conditioners.

**COS 210 - Intermediate II: Hair Coloring**

2 Credits

Provides continued instruction in the theory and practical application of color products, formulations of color, level and shades of color. Enables students to practice techniques in a specialized class or in a supervised salon setting.

**COS 211 - Advanced Hair Coloring**

2 Credits

Provides continued instruction on advanced theory and practical techniques in hair coloring. Focuses on the recognition of color problems and color correction procedures. Covers advanced techniques and product knowledge to prepare the student for employment. Prepares the student for the State Board Licensing Examination pertaining to hair coloring.

**COS 220 - Intermediate II: Hair Cutting**

2 Credits

Provides continued instruction in the theory related to facial shapes, head and body forms to determine the client's appropriate haircut. Incorporates practical applications of hair cutting techniques.

— (COS) COSMETOLOGY —

**COS 221 - Advanced Hair Cutting**

2 Credits

Focuses on advanced cutting techniques using all the cutting tools. Emphasizes current fashion trends. Includes student preparation for the State Licensure examination.

**COS 230 - Intermediate II: Hair Styling**

2 Credits

Provides continued instruction on accepted methods of styling hair, air forming, roll set, finger waves and hair pressing. Examines techniques in specialized classes or in a supervised salon setting.

**COS 231 - Advanced Hair Styling**

1 Credit

Focuses on theory and advanced techniques in all phases of hair styling to prepare the student for employment. Training is a combination of supervised salon (clinical) work and specialized classes. Includes student preparation for the State Board Licensing Examination relating to hairstyling.

**COS 240 - Intermediate II: Chemical Texture**

1 Credit

Provides continued instruction in the theory and practical application of permanent waves and chemical relaxers in specialized classes or a supervised salon setting. Enables students to practice different wrapping techniques required by trend styles.

**COS 241 - Advanced Chemical Texture**

1 Credit

Focuses on advanced techniques to prepare the student for employment and the changes in current industry standards. Instruction is provided in specialized classes or supervised salon (clinical) setting. Includes student preparation for the State Board Licensing Examination pertaining to permanent waves and chemical relaxers.

**COS 250 - Management, Ethics, Interpersonal Skills & Salesmanship**

1 Credit

Emphasizes the importance of salon management and the knowledge and skills necessary to build a successful business. Focuses on the importance of interpersonal skills and basic techniques in salesmanship and customer services. Integrates job readiness skills and professional ethics.

**COS 260 - Intermediate II: Disinfection, Sanitation & Safety**

2 Credits

Provides continued study of theory and practice of proper methods of sterilization, disinfection, sanitation and safety procedures as related to all phases of the industry. Covers terminology and training of disinfection, sanitation and safety procedures. The individual responsibility to provide a safe work environment is practiced.

**COS 261 - Advanced Disinfection, Sanitation & Safety**

1 Credit

Provides advanced training on decontamination and safety practices in a supervised salon and/or classroom setting. Examines advanced techniques that prepare the student for employment. Includes student preparation for the State Board Licensing Examination in decontamination and safety for all aspects of the industry. Study of OSHA requirements for schools and salon are done in a theory or practical setting.

**— (COS) COSMETOLOGY —****COS 262 - Advanced II: Disinfection, Sanitation & Safety**

3 Credits

This course is the extra hours/credits required for the hairstylist program, per State Board of Colorado Barber/Cosmetology Board. Provides advanced training on decontamination and safety practices in a supervised salon and/or classroom setting. Examines advanced techniques that prepare the student for employment. Includes student preparation for the State Board Licensing Examination in decontamination and safety for all aspects of the industry. Study of OSHA requirements for schools and salon are done in a theory or practical setting.

**COS 289 - Capstone**

3 Credits

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

**COS 279 - Seminar/Workshop: Cosmetology Occupation**

1 Credit

This course provides students with an experiential learning opportunity.

**COS 288 - Cosmetology Practicum**

4 Credits

Provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor.

— (CRJ) CRIMINAL JUSTICE —

**CRJ 230 - Criminology**

3 Credits

Exploration of the question of crime causation from legal, social, political, psychological and theoretical perspectives. Understanding of the history and development of criminology.

— (ECE) EARLY CHILDHOOD EDUCATION —

**ECE 101 - Introduction to Early Childhood Education**

3 Credits

Provides an introduction to Early Childhood Education. Includes the eight key areas of professional knowledge: Child Growth and Development; Health, Nutrition and Safety; Developmentally Appropriate Practices; Guidance; Family and Community Relationships; Diversity; Professionalism; Administration and Supervision. Focuses on ages birth through age 8. Corequisite: ECE 102

**ECE 102 - Introduction to Early Childhood Lab Techniques**

3 Credits

Focuses on a classroom seminar and placement in a child care setting. The supervised placement provides the student with the opportunity to observe children, to practice appropriate interactions, and to develop effective guidance and management techniques. Addresses ages birth through age 8. Corequisite: ECE 101

**ECE 103 - Guidance Strategies for Young Children**

3 Credits

Explores guidance theories, applications, goals, techniques and factors that influence expectations, classroom management issues, and prosocial skills. Addresses ages birth through age 8.

**ECE 111 - Infant and Toddler Theory and Practice**

3 Credits

Presents an overview of theories, applications (including observations), and issues pertinent to infant and toddler development in group and/or family settings. Includes state requirements for licensing, health, safety and nutrition. Focuses on birth through age three. Corequisite: ECE 112

**ECE 112 - Intro to Infant/Toddler Lab Techniques**

3 Credits

Includes a classroom seminar and placement in an infant and/or toddler setting. The supervised placement provides the student with the opportunity to observe, to practice appropriate interactions and to develop effective guidance and nurturing techniques with infants and/or toddlers. Addresses ages prenatal through age 2. Corequisite: ECE 111

**ECE 205 - Nutrition, Health and Safety**

3 Credits

Focuses on nutrition, health and safety as a key factor for optimal growth and development of young children. Includes nutrient knowledge, menu planning, food program participation, health practices, management and safety, appropriate activities and communication with families. Addresses ages from prenatal through age 8.

**ECE 220 - Curriculum Development: Methods and Techniques**

3 Credits

Provides an overview of early childhood curriculum development. Includes processes for planning and implementing developmentally appropriate environments, materials and experiences, and quality in early childhood programs. Focuses on ages birth through age 8. Prerequisite and Corequisite: ECE 101 or permission of instructor

**— (ECE) EARLY CHILDHOOD EDUCATION —**

**ECE 225 - Language and Cognition for the Young Child**

3 Credits

Examines theories of cognitive and language development as a framework for conceptualizing the way children acquire thinking skills. Includes observing, planning, facilitating, creative representation, and evaluating strategies within the context of play. Focuses on language, science, math, problem solving and logical thinking. Addresses ages birth through age 8.

**ECE 226 - Creativity and the Young Child**

3 Credits

Provides an emphasis on encouraging and supporting creative self expression and problem solving skills in children. Explores creative learning theories and research. Focuses on developmentally appropriate curriculum strategies in all developmental domains. Addresses ages birth through age 8.

**ECE 228 - Language and Literacy**

3 Credits

Presents strategies for optimum language development, literacy, social and emotional development. Supports children's language and literacy in home, classroom, and community settings. Provides appropriate teacher/child verbal interactions, classroom environments, and activities. Addresses ages birth through age 8.

**ECE 238 Child Growth and Development**

3 credits

Covers the growth and development of the child from conception through the elementary school years. Emphasizes physical, cognitive, language, social and emotional domains and the concept of the whole child as well as how adults can provide a supportive environment through teaming and collaboration.

**ECE 240 - Administration of Early Childhood Care and Education Programs**

3 Credits

Examines Colorado's licensing requirements, as well as quality standards pertaining to the operation of programs for young children. Focuses on the director's administrative skills and role as a community advocate for young children. Addresses ages birth through age 12.

**ECE 241 - Administration: Human Relations for Early Childhood Education**

3 Credits

Focuses on the human relations component of an early childhood professional's responsibilities. Includes director-staff relationships, staff development, leadership strategies, parent-professional partnerships, and community interaction.

**ECE 260 - The Exceptional Child**

3 Credits

Presents an overview of critical elements related to educating young children with disabilities in the early childhood setting. Topics include the following: typical and atypical development, legal requirements, research based practices related to inclusion, teaming and collaboration, and accommodations and adaptations. Student will learn how a disability will impact a young child's learning process. Focus of the course is on birth through age 8.

**ECE 288 - Practicum: Early Childhood Education**

3 Credits

Provides students with advanced field experience opportunities in early childhood education programs.

**ECE 289 - Capstone: Early Childhood Education**

3 Credits

Incorporates a demonstrated culmination of learning within a given program of study.  
Prerequisite: Permission of instructor.

— (ECO) ECONOMICS —

ECO 201 - Principles of Macroeconomics

3 Credits

Focuses on the study of the American economy, stressing the interrelationships among household, business, and government sectors. Explores saving and investment decisions, unemployment, inflation, national income accounting, taxing and spending policies, the limits of the market and government, public choice theory, the Federal Reserve System, money and banking, and international trade.

This course is one of the Statewide Guaranteed Transfer courses. GT-SS1

ECO 202 - Principles of Microeconomics

3 Credits

Studies the firm, the nature of cost, and how these relate to the economy as a whole. Analyzes economic models of the consumer, perfect competition, monopoly, oligopoly and monopolistic competition. Explores economic issues including market power, population growth, positive and negative externalities, income distribution, poverty and welfare, discrimination, and international economic interdependence. This course is one of the Statewide Guaranteed Transfer courses. GT-SS1

— (EGG) ENGINEERING —

EGG 140 - Engineering Projects

3 Credits

Provides undergraduate engineering students with an opportunity to apply mathematical and scientific skills in engineering projects. Students work in teams on engineering projects under guidance of faculty.

— (EMS) EMERGENCY MEDICAL SERVICES —

EMS 121 - EMT Fundamentals

3 Credits

Introduces the Emergency Medical Technician (EMT) student to prehospital emergency care. The topics included in this course are Emergency Medical Services (EMS) systems, well-being of the EMT, communications, documentation, anatomy, airway management and patient assessment.

EMS 122 - EMT Medical Emergencies

4 Credits

Provides the Emergency Medical Technician (EMT) student with the knowledge and skills to effectively provide emergency care and transportation to a patient experiencing a medical emergency. This course focuses on the integration of the physical exam, medical history, and pathophysiology when assessing and treating the medical patient.

Prerequisite/Corequisite: EMS 121, EMT 170

EMS 123 - EMT Trauma Emergencies

2 Credits

Provides the Emergency Medical Technician (EMT) student with the knowledge and skills to provide appropriate emergency care and transportation of a patient who has suffered a traumatic injury. The concepts of kinematics and the biomechanics of trauma, along with pathophysiology and injury patterns will provide the student with the ability to assess and manage the trauma patient.

Prerequisite/Corequisite: EMS 122, EMT 170

**— (EMS) EMERGENCY MEDICAL SERVICES —****EMS 126 - EMT Basic Refresher**

2 credits

Provides the student with a refresher course designed to meet the recertification requirements for the State of Colorado and/or a portion of the recertification requirements for National Registry.

**EMS 170 - EMT Basic Clinical**

1 credit

Provides the EMT student with the clinical experience required of initial and some renewal processes.

Prerequisite: EMS 121 Corequisite: EMS 122 & 123

**EMS 203 - EMT Intermediate I**

6 Credits

Course provides preparatory information and is the first part of the EMT Intermediate program.

Prerequisite: EMS 170 or equivalent.

**EMS 205 - EMT Intermediate II**

6 Credits

Serves as the second course for EMT Intermediate certification.

Prerequisite: EMS 203

**EMS 270 - Clinical: EMS Intermediate**

3 credits

Provides the EMT-I student with the required field experiences as required by the Colorado Department of Health.

Corequisite: EMS 205 Prerequisite: EMS 203

**EMS 282 - EMT Intermediate Internship**

2 credits

Provides the EMT- Intermediate with a supervised clinical learning experience that meets or exceeds the requirements for the State of Colorado Department of Public Health and Environment. Enables the student to work with a preceptor for clinical and internship experience to develop an understanding of advanced life support patient care and assessment. Prerequisite: EMS 205, EMS 270

— (ENG) ENGLISH —

**ENG 115 - Technical English and Communication**

3 Credits

Focuses on the written and oral communication needs of students in vocational and technical fields. Enables the student to practice written, oral, reading, reasoning, and interpersonal communication skills in order to become successful (or to remain successful) in the workplace.

**ENG 121 - English Composition I**

3 Credits

Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. Includes a minimum of five compositions that stress analytical, evaluative, and persuasive/argumentative writing. This course is one of the Statewide Guaranteed Transfer courses. GT-CO1  
Prerequisite: Appropriate placement score, CCR 092, successful completion of CCR 093, or CCR 094 as a corequisite.

**ENG 122 - English Composition II**

3 Credits

Expands and refines the objectives of English Composition I. Emphasizes critical/logical thinking and reading, problem definition, research strategies, and writing analytical, evaluative, and/or persuasive papers that incorporate research. This course is one of the Statewide Guaranteed Transfer courses. GT-CO2. Prerequisite: ENG 121

— (ENV) ENVIRONMENTAL SCIENCE —

**ENV 101 - Introduction to Environmental Science**

4 credits

Provides an introduction to the basic concepts of ecology and the relationship between environmental problems and biological systems. Includes interdisciplinary discussions on biology, chemistry, geology, energy, natural resources, pollution, and environmental protection. Using a holistic approach, students will study how the foundations of natural sciences interconnect with the environment. This course includes laboratory experience.  
Prerequisite: MAT 055

— (EST) ESTHETICS —

**EST 110 - Introduction to Facials and Skin Care**

3 Credits

Provides a basic understanding of massage manipulations when providing facials and the study of skin in both theory and practical applications. Benefits derived from proper facial and good skin care routines. Training is conducted in a classroom or lab setting using mannequins or models.

**EST 111 - Intermediate Facials & Skin Care**

2 Credits

Covers theory and practical application pertaining to anatomy, skin disorders, skin types and facial shapes. Students help patrons to select the proper skin care treatment. Practical and theory application can be done in specialized classes or supervised salon (clinical) setting using models or customer service.



**— (EST) ESTHETICS —****EST 210 - Advanced Massage & Skin Care**

2 Credits

Provides the student with advanced techniques in massage, skin care, and lash/brow tinting. Theory and practical procedures ready the student for employment. Instruction is provided in specialized classes or in a supervised salon (clinical) setting. Student preparation for State Board Licensing Examination.

**EST 211 - Facial Make-up**

1 Credit

Provides instruction on cosmetics and their functions. The importance of color theory, facial types, and skin tones as they relate to facial makeup. Instruction from the basic makeup application to the corrective makeup procedure is taught. Disinfection and sanitation is taught as it pertains to all aspects of makeup.

**EST 212 - Hair Removal**

3 Credits

Provides in-depth study and practice of hair removal and the practice of patron protection and safety. Training for general waxing and body waxing procedures are provided. Demonstration of disinfection and sanitation as it pertains to Colorado rules and regulations will be practiced.

**EST 230 - Esthetician Preparation for State Board**

2 Credits

Provides preparation for State Boards. Allows the student the opportunity to gain knowledge in the practical and/or written examination required by the Colorado Board of Barber/Cosmetology.

**EST 290 - Professional Development/Continuing Education**

— (GEO) *GEOGRAPHY* —

**GEO 105 - World Regional Geography**

3 Credits

Examines the spatial distribution of environmental and societal phenomena in the world's regions; environmental phenomena may include topography, climate, and natural resources; societal phenomena may include patterns of population and settlement, religion, ethnicity, language, and economic development. Analyzes the characteristics that define world regions and distinguishes them from each other. Examines the relationships between physical environments and human societies. Examines globalization, emphasizing the geopolitical and economic relationships between more developed and less developed regions. This course is one of the Statewide Guaranteed Transfer courses. GT-SS2

**GEO 106 - Human Geography**

3 Credits

Introduces students to geographic perspectives and methods in the study of human societies by examining the spatial characteristics of populations, language, religion, ethnicity, politics, and economics. Examines the relationships between physical environments and human societies.

~~This course is one of the Statewide Guaranteed Transfer courses. GT-SS2.

— (GEY) *GEOLOGY* —

**GEY 111 - Physical Geology w/Lab**

4 Credits

Studies the materials of the earth, its structure, surface features and the geologic processes involved in its development. This course includes laboratory experience. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1

Prerequisite: MAT 055

**GEY 112 - Historical Geology w/Lab**

4 Credits

Studies the physical and biological development of the earth through the vast span of geologic time. Emphasizes the investigation and interpretation of sedimentary rocks, the record of ancient environments, fossil life forms, and physical events, all within the framework of shifting crustal plates. Course includes laboratory experience. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1

Prerequisite: GEY 111 or permission of instructor.

**GEY 135 - Environmental Geology w/Lab**

4 Credits

Introduces the subject of geology as it relates to human activities. Geologic hazards such as floods, landslides, earthquakes, and volcanoes are investigated. Mineral, energy, soil, and water resources are discussed in terms of their geologic formation and identification, usage by society, and associated environmental impacts. Land use issues, waste, and pollution are also examined. ~~This course is part of the Statewide Guaranteed Transfer courses. GT-SC1

**— (HIS) HISTORY —****HIS 101 - Western Civilization: Antiquity-1650**

3 Credits

Explores a number of events, peoples, groups, ideas, institutions, and trends that have shaped Western Civilization from the prehistoric era to 1650. Reflects the multiple perspectives of gender, class, religion, and ethnic groups. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in this discipline. This course is one of the Statewide Guaranteed Transfer courses. GT-HI1

**HIS 102 - Western Civilization: 1650-Present**

3 Credits

Explores a number of events, peoples, groups, ideas, institutions, and trends that have shaped Western Civilization from 1650 to the present. Reflects the multiple perspectives of gender, class, religion, and ethnic groups. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in this discipline. This course is one of the Statewide Guaranteed Transfer courses. GT-HI1

**HIS 121 - US History to Reconstruction**

3 Credits

Explores events, trends, peoples, groups, cultures, ideas, and institutions in North America and United States history, including the multiple perspectives of gender, class, and ethnicity, between the period when Native American Indians were the sole inhabitants of North America, and the American Civil War. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in the discipline. This course is one of the Statewide Guaranteed Transfer courses. GT-HI1

**HIS 122 - US History since Civil War**

3 Credits

Explores events, trends, peoples, groups, cultures, ideas, and institutions in United States History, including the multiple perspectives of gender, class, and ethnicity, between the period of the American Civil War and the present. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in the discipline. This course is one of the Statewide Guaranteed Transfer courses. GT-HI1

**HIS 225 - Colorado History**

3 Credits

Presents the story of the people, society, and cultures of Colorado from its earliest Native Americans, through the Spanish influx, the explorers, the fur traders and mountain men, the gold rush, railroad builders, the cattlemen and farmers, the silver boom, the tourists, and the modern state. This course is one of the Statewide Guaranteed Transfer courses. GT-HI1

— (HPE) HUMAN PERFORMANCE AND EXERCISE —

**HPE 101- Introduction to Coaching**

2 Credits

Acquaints the learner with the knowledge, requirements and responsibilities of coaching, including sport philosophy, sport medicine, and sport management. Fulfills requirements for ACEP Leader Level I.

**HPE 200 - Perspectives in PE & Sport**

3 Credits

This course discusses the breadth, scope, and nature of the profession. It is an orientation to the history and philosophy of human performance and the factors that influence its evolution. Special consideration is given to the history of sport from antiquity to the present, particularly the Olympic Games.

— (HPR) HEALTH PROFESSIONAL —

**HPR 102 - CPR for Professionals**

0.5 Credits

Meets the requirements for American Red Cross Professional Rescuer CPR or American Heart Association Basic Life Support for those who work in Emergency Services, Health Care and other professional areas. Material presented in this course is basic patient assessment, basic airway management, rescue breathing, AED use and CPR for infant, children and adult patients.

**HPR 106-Law & Ethics for Health Professions**

2 Credits

Introduces student to the study and application medico-legal concepts in medical careers. This course seeks to establish a foundation for ethical behavior and decision making in health professions.

**HPR 112 - Phlebotomy**

4 Credits

Teaches the duties associated with the practice of venipuncture, capillary puncture, and special collection procedures. Students will have experience with quality control, infection control and safety procedures as well as laboratory computer systems. Students successfully completing this course may apply for a National Phlebotomy Registry Examination.

Prerequisite: MLT 131 with a 70% or better

**HPR 178 - Medical Terminology**

2 Credits

Introduces the student to the structure of medical terms with emphasis on using and combining the most common prefixes, roots and suffixes. Includes terms related to major body systems, oncology, psychiatry, as well as clinical laboratory and diagnostic procedures and imaging. Class structure provides accepted pronunciation of terms and relative use in the healthcare setting.

— (HUM) HUMANITIES —

**HUM 115 - World Mythology**

3 Credits

Introduces students to a multidisciplinary approach to world mythology. Common themes are illustrated and connected to religion, philosophy, art, literature, music, and contemporary culture. In addition, students will study various ways of interpreting myth. .~~This course is one of the Statewide Guaranteed Transfer courses. GT-AH2

**HUM 121 - Humanities: Early Civilizations**

3 Credits

Introduces students to the history of ideas that have defined cultures through a study of the visual arts, literature, drama, music, and philosophy. It emphasizes connections among the arts, values, and diverse cultures, including European and non-European, from the Ancient world to 1000 C.E.

~~This course is one of the Statewide Guaranteed Transfer courses. GT-AH2

**HUM 122 - Humanities: Medieval to Modern**

3 Credits

Examines written texts, visual arts and musical compositions to analyze and reflect the evolution and confluence of cultures in Europe, Asia and the Americas from 800 C.E. to 1750 C.E. Any two of the three Survey of Humanities courses equal a sequence.

~~This course is one of the Statewide Guaranteed Transfer courses. GT-AH2

**HUM 123 - Humanities: Modern World**

3 Credits

Examines written texts, visual arts and musical compositions to analyze and reflect the evolution and confluence of cultures in Europe, Asia and the Americas from 800 C.E. to 1750 C.E. Any two of the three Survey of Humanities courses equal a sequence.

~~This course is one of the Statewide Guaranteed Transfer courses. GT-AH2

— (HWE) HEALTH & WELLNESS —

**HWE 100 - Human Nutrition**

3 Credits

Introduces basic principles of nutrition with emphasis on personal nutrition. Satisfies nutrition requirement of students entering health care professions.

— (LEA) LAW ENFORCEMENT ACADEMY—

**LEA 101 - Basic Police Academy I**

6 Credits

Conforms to POST standards and Colorado state certification requirements as well as the basic skills and knowledge necessary to perform the entry level duties of a peace officer. Emphasis will be on simulating actual situations utilizing a lecture and laboratory mode of learning.

Prerequisite: Permission of Academy Director

**LEA 102 - Basic Police Academy II**

12 Credits

Conforms to POST standards and state certification requirements as well as the basic skills and knowledge necessary to perform the entry level duties of a peace officer. Emphasis will be on simulating actual situations utilizing a lecture and laboratory mode of learning.

Prerequisite: Permission of Academy Director

**LEA 105 - Basic Law**

8 Credits

Conforms to the Colorado POST standards and state certification requirements as well as the basic skills and knowledge necessary to perform the entry level duties of a peace officer. Emphasis will be on United States Constitution, arrest, search and seizure, interrogation and confessions, rules of evidence, Colorado Criminal Code, Colorado Traffic Code, Colorado Children's Code, Liquor Code and controlled substances.

Prerequisite: Permission of Academy Director

**LEA 106 - Arrest Control Techniques**

3 Credits

Exploration of the skills, knowledge and abilities necessary to effectively maintain control of a suspect when making an arrest. Explains the continuum of force and de-escalation of force.

Prerequisite: Permission of Academy Director

**LEA 107 - Law Enforcement Driving**

3 Credits

Exploration of the skills, knowledge and abilities required for operation of a law enforcement vehicle. Emphasizes defensive driving. Enables students to demonstrate skills by driving a vehicle under simulated conditions.

Prerequisite: Permission of Academy Director

**LEA 108 - Firearms**

3 Credits

Discusses the skills, knowledge and abilities necessary to safely use police firearms. Students will demonstrate skills by firing weapons on a firing range. The student will demonstrate basic safety techniques and will explain the firearms role within the continuum of force.

Prerequisite: Permission of Academy Director.

**LEA 175-001 - Heartsmart First Aid/CPR**

0.5 Credits

This is an eight-hour basic first aid, cardio pulmonary resuscitation (CPR) and biological contamination certification course. Heartsmart First Aid/CPR is an OJC Law Academy curriculum class open to currently employed peace officers and public individuals. Prerequisite: Permission of the Academy Director.

**— (LEA) LAW ENFORCEMENT ACADEMY—****LEA 175-002 - Command Spanish**

1 Credit

This is a 24-hour certification course limited to learning the basic Spanish phrases and questions necessary to communicate certain specific law enforcement protocols. Instruction includes cross-cultural issues pertaining to relationships between non-Spanish-officers and the Latino/Spanish speaking community. Command Spanish for Law Enforcement Officers is an OJC Law Academy curriculum class with outside enrollment limited to currently employed peace officers.

Prerequisite: Permission of the Academy Director.

**LEA 175-003 - Oleoresin Capsicum (OC) Pepper Spray**

0.5 Credits

This is an eight-hour certification course in the proper use of oleoresin capsicum (OC) defensive spray. OC is an OJC Law Academy curriculum class with outside enrollment limited to currently employed peace officers.

Prerequisite: Permission of the Academy Director.

**LEA 175-004 - TASER**

0.5 Credits

This is an eight-hour certification course in the proper use of TASER arrest control weapons. TASER training is an OJC Law Academy curriculum class with outside enrollment limited to currently employed peace officers.

Prerequisite: Permission of the Academy Director.

**LEA 175-005 - Anti-Bias Policing**

0.5 Credits

This is an eight-hour certification course in preventing the patterns and practices of racial profiling and biased based policing. Anti-Bias Policing is an OJC Law Academy curriculum class with outside enrollment limited to currently employed peace officers.

Prerequisite: Permission of the Academy Director.

**LEA 175-006 - Roadside Sobriety (SFST)**

1 Credit

This is a 24-hour certification course presenting the requirements for stopping, approaching, conducting roadside sobriety tests, and the follow-up procedures necessary for adjudication of D.U.I. charges and revocation requirements. SFST is an OJC Law Academy curriculum class with outside enrollment limited to currently employed peace officers.

Prerequisite: Permission of the Academy Director.

**LEA 175-007 - Career Management**

1 Credit

This is a 21-hour course involving methods for finding, securing and maintaining law enforcement employment. Career Management is an OJC Law Academy curriculum class with limited outside enrollment.

Prerequisite: Permission of the Academy Director.

— (LIT) LITERATURE —

**LIT 115 - Introduction to Literature I**

3 Credits

Introduces students to fiction, poetry, and drama. Emphasizes active and responsive reading. This course is one of the Statewide Guaranteed Transfer courses. GT-AH2

**LIT 202 - World Literature After 1600**

3 Credits

Examines significant writings in world literature from the seventeenth century to the present. Emphasizes careful reading and understanding of the works and their cultural backgrounds. This course is one of the Statewide Guaranteed Transfer courses. GT-AH2

**LIT 225 - Intro to Shakespeare**

3 credits

Explores a selection of works by William Shakespeare. It focuses on careful reading and interpretation of the plays and poems, includes pertinent information about Elizabethan England, and examines formal as well as thematic elements of the selected works. This course is one of the Statewide Guaranteed Transfer courses. GT-AH2

**LIT 230 - Comics/Graphic Novels**

3 Credits

Survey and analyze a particular kind of visual literature – that art form known the “Graphic Novel” or “Comic Art.” This course serves as an introduction to critical methods in popular culture studies, with a focus on the graphic novel as cultural product and practice. Together, we will explore the ways in which meanings emerge in several celebrated texts of the graphic novel genre, as well as some emerging classics. Our readings of these texts will be informed by a diversity of theoretical perspectives, including visual culture studies, postmodernism and intersectionality. We will interrogate the relationships between the concepts “graphic novel” or “comic book” and “popular culture,” with each of us bringing our lived experiences to our readings and discussions. In the context of contemporary U.S. society, we will see how critical studies of popular culture have a distinct place in the arts and humanities. We will consider the contradictory ways in which difference, power and knowledge are articulated in cultural production. Through in-depth studies of several primary texts we will learn how graphic storytellers use and manipulate historical and contemporary social issues as the building blocks for their art. Finally, we will apply these skills to create our own application of the art of graphic storytelling.

**LIT 255 - Children’s Literature**

3 Credits

Evaluates the criteria for selecting appropriate literature for children through exploration of genres, age levels, values taught through literature, and the literary and artistic quality of various texts.

**LIT 288 - Practicum**

1-12 Credits

Provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor.



— (MAN) MANAGEMENT —

**MAN 128 - Human Relations in Organizations**

3 Credits

Explores the importance of effective communication in our personal lives as well as in the world of business. Practical business applications such as employee motivation, handling customer complaints, and effectively resolving conflict in the workplace will be a major part of the curriculum.

**MAN 200 - Human Resource Management I**

3 Credits

Provides the student with a broad overview of the contemporary issues, theories and principles used to effectively manage human resources. Topics include recruiting, hiring, compensation and benefits, training and development, employee relations and legal issues.

**MAN 216 - Small Business Management**

3 Credits

Examines the elements necessary for the successful formation of a new small business. It is also designed to enhance the skills of those already involved in the operation of a small business. The course includes the development of a complete small business plan.

**MAN 224 - Leadership**

3 Credits

Focuses on the leadership skills necessary to bring about change in an organization. Students learn to develop and communicate a shared vision, to empower employees, to manage conflict, to negotiate, and to develop organizations so that all are working toward common goals. Prerequisite: Permission of Instructor.

**MAN 226 - Principles of Management**

3 Credits

Presents a survey of the principles of management. Emphasis is on the primary functions of planning, organizing, leading and controlling with a balance between the behavioral and operational approach. Prerequisite: MAN 224

**MAN 287 - Cooperative Education/Intern**

1-12 Credits

Provides students with the opportunity to supplement course work with practical work experience related to their educational program and occupational objectives. Students are placed at approved work stations which are related to their program of study. They work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor/coordinator.

— (MAR) MARKETING —

**MAR 216 - Principles of Marketing**

3 Credits

Presents the analysis of theoretical marketing processes and the strategies of product development, pricing, promotion and distribution, and their applications to businesses and the individual consumer.

— (MAT) MATHEMATICS —

**MAT 025 - Algebraic Literacy Lab**

1 Credit

Supports skill development for students registered in MAT 055 STEM Prep. Topics covered in this course include those defined in MAT 055 and/or any pre-requisite skills needed by the student. For students with Accuplacer score EA 45-59, this course is a required co-requisite with MAT 055 STEM Prep.

**MAT 050 – Quantitative Literacy**

4 Credits

Develops number sense and critical thinking strategies, introduce algebraic thinking, and connect mathematics to real world applications. Topics in the course include ratios, proportions, percents, measurement, linear relationships, properties of exponents, polynomials, factoring, and math learning strategies. This course prepares students for Math for Liberal Arts, Statistics, Integrated Math, and college level career math courses. Required Accuplacer scores are EA 30-84 or AR > 40.

**MAT 055 – Algebraic Literacy**

4 Credits

Develops algebraic skills necessary for manipulating expressions and solving equations. Topics in the course include radicals, complex numbers, polynomials, factoring, rational expressions, quadratic equations, absolute value equations and inequalities, systems of linear equations, related applications, and math learning strategies. This course prepares students for College Algebra and Finite Math. Prerequisites: MAT 050 or Accuplacer EA 60-84. Students w/ EA 45-59 may be advised into MAT 055 but must co-enroll in MAT 025

**MAT 092 - Quantitative Lab**

1 Credit

Supports skill development for students registered in MAT 120, MAT 135, MAT 155, or MAT 156. Topics covered in this course include those defined in MAT 120/135/155/156 and/or any pre-requisite skills needed by the student. Students with Accuplacer scores EA 80-84, who are advised into MAT 120, MAT 135, MAT 155, or MAT 156, are required to co-enroll in this course.

**MAT 093 - Algebra Lab**

1 Credit

Supports skill development for students registered in MAT 121 or MAT 123. Topics covered in this course include those defined in MAT 121/123 and/or any pre-requisite skills needed by the student. Students with Accuplacer scores EA 80-84, who are advised into MAT 121/123, are required to co-enroll in this course.

**MAT 103 - Math for Clinical Calculations**

3 Credits

Provides a review of general mathematics, introductory algebra and an opportunity to learn systems of measurement and methods of solving problems related to drug dosage and intravenous fluid administration. It is designed for students in the health disciplines. Topics may include algebra, graphs, measurement and conversion between various systems of measurement.

Prerequisite: MAT 050 or appropriate placement score

**MAT 107 - Career Math**

3 Credits

Covers material designed for career technical or general studies students who need to study particular mathematical topics. Topics may include measurement, algebra, geometry, trigonometry, graphs, and/or finance. These are presented on an introductory level and the emphasis is on applications.

Prerequisite: MAT 050 or appropriate placement score

— (MAT) MATHEMATICS —

**MAT 120 - Math for Liberal Arts**

4 Credits

Develops mathematical and problem-solving skills. Appropriate technological skills are included. Content is selected to highlight connections between mathematics and the society in which we live. Topics include set theory and logic, mathematical modeling, probability and statistical methods, and consumer mathematics. Additional content will include one topic in geometry, numeration systems, decision theory, or management science. This course is one of the Statewide Guaranteed Transfer courses. GT-MA1

Prerequisite: MAT 050 or appropriate placement score

**MAT 121 - College Algebra**

4 Credits

Explores topics including intermediate algebra, equations, and inequalities, functions and their graphs, exponential and logarithmic functions, linear and non-linear systems, selection of topics from among graphing of the conic sections, introduction to sequences and series permutations and combinations, the binomial theorem and theory of equations. This course is one of the Statewide Guaranteed Transfer courses, GT-MA1

Prerequisite: MAT 055 or Accuplacer score greater than 84.

**MAT 122 - College Trigonometry**

3 Credits

Covers topics including trigonometric functions (with graphs and inverse functions), identities and equations, solutions of triangles, complex numbers, and other topics as time permits. This is a traditional prerequisite course to the calculus sequence.

Prerequisite: MAT 121 or equivalent

**MAT 123 - Finite Mathematics**

4 Credits

Covers topics including functions, matrix algebra, linear programming, and an introduction to probability and counting techniques. Emphasis is on applications. This course may include other topics such as statistics when time permits. This course is primarily intended for business, life science, or social science majors.

~~This course is one of the Statewide Guaranteed Transfer courses. GT-MA1

Prerequisite: MAT 055 or equivalent

**MAT 125 - Survey of Calculus**

4 Credits

Includes derivatives, integrals, and their applications, with attention restricted to algebraic, exponential, and logarithmic functions for business, life science and/or social science majors.

~~This course is one of the Statewide Guaranteed Transfer courses. GT-AH1

Prerequisite: MAT 121 or equivalent or appropriate placement score

— (MAT) MATHEMATICS —

**MAT 135 - Introduction to Statistics**

3 Credits

Explores and applies data presentation and summarization, introduction to probability concepts and distributions, statistical inference --estimation, hypothesis testing, comparison of populations, correlation and regression.

~~This course is one of the Statewide Guaranteed Transfer courses. GT-MA1

Prerequisite: MAT 120 or appropriate placement score

**MAT 201 - Calculus I**

5 Credits

Introduces single variable calculus and analytic geometry. It includes limits, continuity, derivatives, and applications of derivatives as well as indefinite and definite integrals and some applications.

~~This course is one of the Statewide Guaranteed Transfer courses. GT-MA1

Prerequisite: MAT 121 and MAT 122 or appropriate placement score

**MAT 202 - Calculus II**

5 Credits

Continues the study of single variable calculus which will include techniques of integration, polar coordinates, analytic geometry, improper integrals, and infinite series. ~~This course is one of the Statewide Guaranteed Transfer courses. GT-MA1

Prerequisite: MAT 201 or appropriate placement score

**MAT 203 - Calculus III**

4 Credits

Focuses on the traditional subject matter of Calculus. Topics include vectors, vector-valued functions, and multivariable calculus including partial derivatives, multiple integrals, line integrals and application.

~~This course is one of the Statewide Guaranteed Transfer courses. GT-MA1

Prerequisite: MAT 202 or appropriate placement score

**MAT 255 - Linear Algebra**

3 Credits

Explores vector spaces, matrices, linear transformations, matrix representation, eigenvalues, and eigenvectors.

Prerequisite: MAT 202

**MAT 265 - Differential Equations**

3 Credits

Explores techniques of problem solving and applications. Topics include first, second, and higher order differential equations, series methods, approximations, systems of differential equations, and Laplace transforms. ~~This course is one of the Statewide Guaranteed Transfer courses. GT-MA1

Prerequisite: MAT 202

**— (MLT) MEDICAL LABORATORY TECHNOLOGY —**

**MLT 131 - Introduction to Hematology**

2 Credits

Covers basic manual hematology test and basic instrumentation theory. OSHA safety and an introduction to phlebotomy is also included. MLT 131 is designed as an introduction course to hematology for MLT students and a complete hematology module for clinical assistant (CA) students.

**MLT 132 - Hematology II**

4 Credits

Covers advanced hematology theory and disease correlations. OSHA safety, phlebotomy and instrumentation are continued; differentials, other manual hematology testing and coagulation are also included. MLT 132 is the continued section of Hematology for the Medical Laboratory Technology students.

Prerequisite: MLT 131 with a 70% or better; Accuplacer RC 80+; SS 95+, EA 85+.

**MLT 141 - Immunology/Immunohematology**

4 Credits

Covers the basic principles of antigens, antibodies and the immune system. Serological techniques practiced and observed in the clinical laboratory such as: Flocculation, agglutination, precipitation and elisa, complement fixation and hemagglutination are discussed. Also included are basic theories of genetics, blood group systems and antibodies, compatibility testing, antibody screening and identification, transfusion reactions, hemolytic disease of the newborn, component therapy and donor selection. Proficient performance of related laboratory testing is mandatory. Prerequisite: BIO 111; Co-Req. MLT 132, BIO 202

**MLT 142 - Urinalysis**

2 Credits

Introduces kidney function and basic principles of urinalysis, complete urinalysis procedures including physical, chemical and microscopic examination of both normal and abnormal specimens are performed. Basic description and recognition of body fluids (i.e., CSF, Pleural, peritoneal and synovial fluids) are covered. MLT 142 is designed for both Medical Laboratory Technology (MLT) and Clinical Assistant (CA) students. Prerequisites: BIO111, BIO 201, CHEM 111 and MLT 132

**MLT 180 - Internship/ Blood Banking I**

1 Credit

Presents the clinical internship rotation in one or two blood banking facilities or lab. Student attends for 40 hours per week for 2 weeks. Additional practice of blood bank principles and procedures, experience with automated instrumentation and exposure to clinical environment provided.

Prerequisite: MLT 141

**MLT 182 - Intern-II Hemat/Coag/Urinalys**

3.5 Credits

Presents the clinical internship rotation in a hematology laboratory. Student attends for 40 hours per week for 5 weeks.

Additional practice of hematology principles and procedures, experience with automated instrumentation and exposure to clinical environment provided. Prerequisite: MLT 132, 142

— (MLT) MEDICAL LABORATORY TECHNOLOGY —

**MLT 231 - Clinical Microbiology**

4 Credits

Provides a brief introduction to the field of microbiology to include the morphology, physiology and genetics of microorganisms. This will be followed by the more technical aspects of clinical microbiology. Then, infectious diseases will be discussed to include normal flora, portals of entry and pathogenicity of diverse groups of bacteria. Viruses will also be discussed. Specimen types from different anatomical sites will be covered for the culture of bacteria in the clinical laboratory. Use of media for isolation and differential staining and tests for identification of bacteria will be performed in the student laboratory. Prerequisite: BIO 111; CoReq.: BIO 202

**MLT 232 - Parasitology/Mycology**

2 Credits

Provides an introduction to protozoa, helminthes, and blood tissue parasites: epidemiology of parasites and diseases in man: special emphasis on microscopic morphology in the detection and correct identification of parasites. An introduction to fungi yeasts and molds to include cutaneous systemic infections and common contaminants and opportunistic fungi. Subcutaneous infections will also be discussed. Laboratory will emphasize microscopic and culture methods to include specimens, staining, media and identification tests. Prerequisite: MLT 231

**MLT 241 - Intro to Clinical Chemistry**

2 Credits

Covers basic laboratory math, basic instrumentation, safety and quality control are discussed along with basic theory and result evaluation of electrolytes, kidney function and liver function test. MLT 241 is designed as an introduction course to clinical chemistry for MLT students and a complete chemistry module for Clinical Assistant (CA) students. Prerequisite: MAT 121; CHEM 111

**MLT 242 - Clinical Chemistry II**

4 Credits

Covers advanced Clinical Chemistry theory, organ functions and disease correlations are covered. Student lab manual chemistry testing is performed on the Gilford spectrophotometer. MLT 242 is the continued section of Clinical Chemistry for the Medical Laboratory Technology students. Prerequisite: MLT 241

**MLT 253 - Seminar/Comprehensive Exams**

1 Credit

Includes talks by guest speakers on current laboratory technology topics and employable skills such as resume writing or interviewing skills. The course grade also includes successful completion of 20 hours of community service and the three MLT Comprehensive Exams. Prerequisite: All 200 level MLT courses; CoReq.: MLT 182

**MLT 280 - Intern-III Clinical Chemistry**

3.5 Credits

Provides a clinical internship rotation in a chemistry laboratory. Student attends for 40 hours per week for 5 weeks. Additional practice of clinical chemistry principles and procedures, experience with automated instrumentation and exposure to clinical environment provided. Corequisite: MLT 242

**MLT 282 - Internship IV / Microbiology**

2 Credits

Provides a clinical internship rotation in a microbiology laboratory. Student attends for 40 hours per week for 5 weeks. Additional practice of clinical chemistry principles and procedures, experience with automated instrumentation and exposure to clinical environment provided. Prerequisite: MLT 231; CoReq.: MLT 232

**— (MOT) MEDICAL OFFICE TECHNOLOGY —**

**MOT 138 - Medical Assisting Laboratory Skills**

4 Credits

Introduces the student to basic routine laboratory skills and techniques for collection, handling, and examination of laboratory specimens often encountered in the ambulatory care setting. Emphasizes hands-on experience.

**MOT 139 - Medical Records**

4 credits

Explores the development and content of the medical record for the hospital, ambulatory care, long-term care, and mental health. Management of record content, medical forms and filing methods are also presented.

**MOT 208 - Introduction to CPT-4 Coding**

2 Credits

Teaches basic coding concepts using the CPT-4 coding system for insurance claims. The course will introduce student to the HCFA 1500 form, HCPCS codes, and modifiers to be used for insurance claim filing.

**MOT 209 - Introduction to ICD-9 Coding**

2 Credits

Covers how to use the ICD-9-CM coding system for insurance claims. The course will introduce student to using the HCFA 1500 form generated from the physician's office.

**— (MUS) MUSIC —**

**MUS 110 - Music Theory I**

3 Credits

Presents music fundamentals, diatonic four-part harmony, analysis, ear training, and keyboard harmony. For music majors transferring to a 4-year program.

**MUS 120 - Music Appreciation**

3 Credits

Covers the basic materials of music, musical forms, media, genres and musical periods. Emphasizes the development of tools for intelligent listening and appreciation.~~This course is one of the Statewide Guaranteed Transfer courses. GT-AH1

**MUS 151 - Ensemble I: Choir**

1 Credit

First year, first term. Rehearses and performs various types of musical literature.

**MUS 152 - Ensemble II: Choir**

1 Credit

Rehearses and performs various types of musical literature. First year, second term.

— (NAT) NAIL TECHNICIAN —

**NAT 110 - Introduction to Manicures & Pedicures**

3 Credits

Provides a basic introduction in the proper use of implements used in manicures and pedicures. Theory and practical application of proper set-up, safety, sanitation, nail shapes, anatomy, product knowledge and terminology dealing with manicures and pedicures is covered. Training is done in a classroom or lab setting using models or other techniques.

**NAT 111 - Intermediate Manicures & Pedicures**

2 Credits

Presents theory and practical application dealing with different types of manicures, pedicures, nail art and massage techniques. Theory and practical application of procedures, products, nail shapes and maintenance of natural nails is covered. Students learn to recognize different nail disorders and their proper treatment. Training is done in a specialized class or in supervised salon clinical setting, using models or customer service. Proper sanitation and sterilization as it pertains to all aspect of manicures, pedicures and nail art is taught.

**NAT 210 - Advanced Manicures & Pedicures**

2 Credits

Presents theory and practical application dealing with different types of manicures, pedicures massage techniques and nail art. Theory and practical application of procedures, products, nail shapes and maintenance of the natural nails is covered. Students learn to recognize different nail disorders and their proper treatment. Training is done in a specialized class or in supervised salon (clinical) setting, using models or customer service.

**NAT 211 - Application of Artificial Nails**

5 Credits

Provides advanced theory and practical application of nail wraps, tip overlays, acrylics and product knowledge to ready the student for employment. Theory and practical application of removal techniques for artificial nails is covered. Instruction is provided in specialized classes or in supervised salon (clinical) setting using models or customer service. Student preparation for state board licensing examination pertaining to artificial nails is covered.

**NAT 230- Nail Technician Preparation for State Board**

4 Credits

Provides preparation for State Boards. Allows the student the opportunity to gain knowledge in the practical and/or written examination required by the Colorado Board of Barber/Cosmetology.

**NAT 290 - Advanced Nail Technician Studies**

3 Credits

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.



**— (NRE) NATURAL RESOURCES —**

**NRE 251 - General Oceanography I**

4 Credits

Provides a comprehensive introduction to modern geological and chemical oceanography. Includes earth history, plate tectonics, geophysics, geochemistry, marine sediments, the hydrosphere, physical properties of salt water, major and minor components of seawater, and ocean-atmosphere interactions. This course includes laboratory experience. GT-SC1.

Prerequisite: MAT 055

**— NURSING ASSISTANT —**

**NUA 101 - Nurse Aide Health Care Skills**

4 Credits

Prepares the student to perform the fundamental skills of the nurse aide. Basic nursing skills, communication skills, restorative services, personal care skills, safety and emergency care issues are covered. Includes knowledge and/or principles of asepsis, OSHA and HIPAA regulations. Ethical behaviors, cultural sensitivity and principles of mental health will be addressed, as well as patient/resident rights.

Corequisite: NUA 102.

**NUA 102 - Certification Exam Prep**

.5 credits

Helps prepare the student for the state certification exam through mock testing. Corequisite: NUA 101.

**NUA 170 - Nurse Aide Clinical Experience**

1 Credit

Applies knowledge and skill gained in NUA 101 to patient care.

Corequisite: Prerequisite or Corequisite: NUA 101, NUA 102.

— (NUR) NURSING —

The following Nursing Program courses include a combination of theory, laboratory practice and clinical practice for each course. Students must pass each of the theory, laboratory and clinical portions of each course to receive a passing grade in that course.

Most of the Nursing Program courses are sequential and must be completed successfully before proceeding into the next course.

Theory hours for each course are calculated on a 1:1 credit to contact ratio, laboratory and clinical hours are calculated on a 1:2 credit to contact ratio.

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**NUR 101 - Pharmacology Calculations**

1 Credit

Prepares nurse to provide safe, patient-centered nursing care related to dosage calculations. This course introduces critical thinking applied to dosage calculations and communication used when interacting with patients and members of the healthcare team related to various aspects of safe administration of medications. Information technology used to document medications administered and patient technology used to deliver medications are also practiced.

Prerequisite: Admission to the Nursing Program

**NUR 106 - Medical and Surgical Nursing Concepts**

9 Credits

NUR106 is the first medical/surgical nursing course. Building on NUR109, this course provides for the acquisition of basic medical/surgical nursing theory, as well as application of mental health concepts, communication, collaboration, caring, and critical thinking/clinical reasoning necessary for safe, patient-centered care to a developmentally and culturally diverse adult patient population experiencing various medical/surgical interventions. Incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the nurse. Application of knowledge and skills occurs in the nursing skills laboratory and a variety of clinical settings. Prerequisite: Admission to the Nursing Program & NUR 109

**NUR 109 - Fundamentals of Nursing**

8 Credits

Nursing 109 introduces the fundamental concepts necessary for safe, patient-centered nursing care to a diverse patient population while integrating legal and ethical responsibilities of the nurse. Introduces caring, critical thinking, the nursing process, quality improvement, and communication used when interacting with patients and members of the interdisciplinary team, and relates evidence-based nursing practice. Application of knowledge and skills occurs in the nursing skills laboratory and a variety of clinical settings providing care to stable patients with common health alterations. Prerequisite: Admission to the Nursing Program

**NUR 112 - Basic Concepts of Pharmacology**

2 Credits

Overview of the basic principles of pharmacology including major drug classifications and prototypes of commonly used medications. Principles of medication administration include aspects of best practice for safe, quality, patient-centered care. Central points include safety, quality improvement factors in the administration of medications, patient teaching, and variations encountered when administering medications to diverse patient populations across the lifespan.

Prerequisite: Admission to the Nursing Program

**— (NUR) NURSING —**

**NUR 150 - Nursing Care of Obstetric and Pediatric Clients**

7 Credits

Nursing 150 provides for the acquisition of maternal/child nursing theory, as well as application of mental health concepts, communication, collaboration, caring, and critical thinking/clinical reasoning necessary for safe, family-centered nursing care to childbearing families and children that is developmentally and culturally appropriate. Incorporates evidence-based practice, standards of practice, quality improvement, and legal and ethical responsibilities of the nurse. Application of knowledge and skills occurs in the nursing skills laboratory and in a variety of maternal/child and pediatric clinical settings. Prerequisite: Admission to the Nursing Program & NUR 109

**NUR 169 - Transition to Practical Nursing**

5 Credits

Facilitates the transition into the role of the practical nurse with emphasis on distinguishing the defined practical nurse scope of practice related to clinical practice, communication, nursing process, ethical/legal issues, and leadership skills. The student practices in the role of the practical nurse in the associated clinical experience. Prerequisite: NUR 109  
Corequisite: 106, 112, 150

**NUR 189 – Transition from LPN to ADN**

4 credits

Facilitates transition of the LPN to new roles and responsibilities of the ADN, the nursing process, critical thinking, legal and ethical issues in nursing practice, and the nursing care of childbearing families and pediatric clients. Application of knowledge and skills occurs in the laboratory and maternal/child and pediatric clinical settings. Prerequisite: LPN Licensure or permission of Nursing Director

**NUR 206 - Advanced Concepts of Medical Surgical Nursing I**

8 Credits

NUR 206 builds on NUR106 focusing on advanced concepts of nursing applied to care of patients with high acuity medical/surgical conditions. Builds on medical/surgical nursing theory, mental health concepts, communication, collaboration, caring, and critical thinking/clinical reasoning necessary for safe, patient-centered nursing care to developmentally and culturally diverse adult patients. Incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the professional nurse as applied in a variety of healthcare settings. Application of knowledge and skills occurs in the nursing skills laboratory and in a variety of clinical settings. Prerequisite: Admission to the Nursing Program & Completion of all level-one NUR courses

**NUR 211 - Nursing Care of Psychiatric Clients**

4 Credits

Develops concepts of psychosocial integrity and emphasizes the function and responsibility of nursing in promoting and maintaining mental health of individuals and families. This course emphasizes communication and caring through the application of the therapeutic relationship and nursing process in the care and treatment of common psychiatric clinical conditions/disorders. Prerequisite: Admission to the Nursing Program Prerequisite/Corequisite: NUR 206

**NUR 212 - Pharmacology II**

2 Credits

Builds on previously introduced pharmacological concepts and applies that learning to pharmacologic therapy to provide safe, quality, evidence-based nursing care to patients with complex healthcare needs. Focuses on safety and quality improvement factors in the administration of medications within a variety of healthcare systems. Advanced dosage calculations included.

Prerequisite: Admission to the Nursing Program & NUR 112

— (NUR) NURSING —

**NUR 216 - Advanced Concepts of Medical Surgical Nursing II**

6 Credits

Nursing 216 is a continuation of Nursing 206, focusing on complex medical/surgical conditions of the high acuity patient. Builds on medical/surgical nursing theory, mental health concepts, communication, collaboration, caring, and critical thinking/clinical reasoning necessary for safe, patient-centered nursing care to developmentally and culturally diverse adult patients experiencing high acuity medical/surgical conditions. Incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the professional nurse as applied in the acute care and high acuity settings. Application of knowledge and skills occurs in a variety of clinical settings. Prerequisite: Admission to the Nursing Program & NUR 206

**NUR 230 - Leadership, Management and Trends**

5 Credits

Nursing 230 is a seminar and practice capstone course that provides an integrative experience applying all dimensions of the professional nurse in the care of diverse patient populations across a variety of healthcare settings. All major concepts of the nursing program are addressed. Leadership and the management of multiple patients are emphasized. Application of knowledge and skills occurs in the clinical setting to facilitate an effective transition from student to registered professional nurse. Prerequisite: Admission to the Nursing Program & NUR 206, 211, 212

Corequisite: NUR 216

— (PED) PHYSICAL EDUCATION —

**PED 100 - Fitness Concepts**

1 Credit

Focuses on providing information and guidelines for moving toward a more healthy lifestyle. Includes classroom instruction, an individual fitness evaluation, computerized analysis of results, and a prescribed exercise program utilizing the equipment and exercise options available in the Fitness Center.

**PED 101- Conditioning Lab**

1 Credit

Offers an independent self-paced format of conditioning exercises to meet individual needs. Emphasizes the value of lifetime fitness and its contribution to achieving personal health and wellness. Students utilize cardiorespiratory, muscular strength and endurance exercises to promote positive changes in health-related fitness components.

**PED 102 - Weight Training I**

1 Credit

Offers basic instruction and practice in weight training. Students utilize weight training equipment in accordance to their abilities and goals. Emphasizes weight training equipment orientation, correct lifting techniques, and basic program design for men and women. 30 Contact Hours

**PED 103 - Weight Training II**

2 Credits

Offers guided instruction and independent practice in weight training for men and women. Students practice various weight training techniques in accordance with their abilities. Emphasizes physiological considerations, equipment orientation, correct lifting techniques, program design, and nutrition.

**PED 104 - Cross Training**

1 Credit

Introduces basic cross-training techniques designed to improve physical work capacity of an individual. Enables the student to gain an understanding of the basic principles of cross training, the effects cross training has upon the body's energy systems and muscles, program design and terminology.

**— (PED) PHYSICAL EDUCATION —****PED 110 - Fitness Center Activity I**

1 Credit

Focuses on improving total fitness via an aerobic circuit training program. Includes an individual fitness evaluation, computerized analysis of results, and a prescribed exercise program. Covers the basic components of fitness including flexibility, muscular strength, muscular endurance, cardiovascular fitness, and body composition. Weight machines, stationary bicycles, and computerized cardiovascular equipment are incorporated to elicit improvements in fitness.

**PED 111 - Fitness Center Activity II**

1 Credit

Serves as an advanced course for individuals interested in reaching a higher level of total fitness via an aerobic circuit training program. Includes an individual fitness evaluation, computerized analysis of results, and a prescribed exercise program. Focuses on the basic components of fitness including flexibility, muscular strength, muscular endurance, cardiovascular fitness, and body composition. Weight machines, stationary bicycles, and computerized cardiovascular equipment are used to elicit improvements in fitness.

**PED 112 - Fitness Center Activity III**

1 Credit

Serves as an advanced exercise course designed for individuals interested in attaining a high level of total fitness. Includes an individual fitness evaluation, computerized analysis of results, and a prescribed exercise program. Focuses on the basic components of fitness including flexibility, muscular strength and endurance, cardiovascular fitness, and body composition. The primary mode of training is Aerobic Circuit Training. The circuit training is supplemented with additional work on specialized weight machines, dumbbells, treadmills, rowers, stair climbers, cross trainers, Nordic track, versa climbers, and running track available in the Fitness Center.

**PED 113 - Fitness Center Activity IV**

1 Credit

Focuses on advanced instruction designed for individuals interested in attaining a high level of total fitness. Includes an individual fitness evaluation, computerized analysis of results, and a prescribed exercise program. Focuses on the basic components of fitness including flexibility, muscular strength, muscular endurance, cardiovascular fitness, and body composition. The primary mode of training is Aerobic Circuit Training. The circuit training is supplemented with additional work on the specialized weight machines, dumbbells, treadmills, rowers, stair climbers, cross trainers, Nordic track, versa climbers, and running track found in the Fitness Center.

**PED 176 - Special Topics**

1 Credit

Provides students with a vehicle to pursue in depth exploration of special topics of interest.

**PED 202 - Golf I**

1 Credit

Introduces a basic course in golf designed for those who have had little or no formal instruction or for those with some experience who are interested in improving some aspect of their game. Includes driving range, putting green, and on-course play.

**PED 203 - Golf II**

1 Credit

Covers skills designed for individuals with an advanced level of golfing skills who are interested in improving their game. Driving range, putting green and on course instruction and play will be included. Use of woods, irons, wedges and putting will be stressed. All instruction will be by certified golf instructors.

— (PED) *PHYSICAL EDUCATION* —

**PED 230 - Volleyball I**

1 Credit

Introduces and improves student skill level in volleyball. The primary emphasis is on teaching the student the elements of volleyball including rules, offensive and defensive play, passing, serving, setting, attacking, team play and game strategies.

**PED 231 - Volleyball II**

1 Credit

Introduces and improves student's advanced skills in volleyball. The primary emphasis is on teaching students quick offensives and advanced defensive systems in order to play volleyball at a competitive level.

**PED 232 - Baseball**

1 Credit

Assesses the student's skill level in baseball. Emphasizes skill testing and game participation.

**PED 233 - Softball**

1 Credit

Introduces and improves skill level in softball. Emphasizes the elements of softball including rules of play, variations of play, equipment, skill technique, and offensive and defensive play and strategies.

**PED 234 - Basketball**

1 Credit

Introduces basketball and focuses on improving student skill level. Emphasizes teaching the student the elements of basketball rules, offensive and defensive footwork, shooting, passing, dribbling, rebounding, team play, and game strategies.

**PED 235 - Soccer**

1 Credit

Gives the student the opportunity to gain knowledge and skills in the subject of soccer, including history, governing organizations, laws of the game, skills techniques, offensive and defensive tactics and conditioning.

**PED 237 - Varsity Sports**

1 Credit

Allows the student-athletes an opportunity to participate in a competitive varsity sports program.

— (PHI) *PHILOSOPHY* —

**PHI 111 - Introduction to Philosophy**

3 Credits

Introduces significant human questions and emphasizes understanding the meaning and methods of philosophy. Includes human condition, knowledge, freedom, history, ethics, the future, and religion.~~This course is one of the Statewide Guaranteed Transfer courses. GT-AH3

**PHI 112 - Ethics**

3 Credits

Examines human life, experience, and thought in order to discover and develop the principles and values for pursuing a more fulfilled existence. Theories designed to justify ethical judgments are applied to a selection of contemporary personal and social issues.~~This course is one of the Statewide Guaranteed Transfer courses. GT-AH3.

— (PHI) PHILOSOPHY —

**PHI 113 - Logic**

3 Credits

Studies effective thinking using language-oriented logic. Provides tools and develops skills for creative and critical thinking. Emphasizes the development of decision-making and problem-solving. --This course is one of the Statewide Guaranteed Transfer courses. GT-AH3

— (PHY) PHYSICS —

**PHY 105 - Conceptual Physics w/Lab**

4 Credits

Focuses on mechanics, heat, properties of matter, electricity and magnetism, light and modern physics. Incorporates laboratory experience. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1

Prerequisite: MAT 055

**PHY 111- Physics: Algebra-Based I w/ Lab**

5 Credits

Explores the physical world through reasoning, mathematics and experimentation. Examines kinematics, force, circular motion, energy, momentum, torque, rotational dynamics, simple harmonic motion, temperature, heat and thermodynamics. The concepts and theories presented are explored through demonstrations and hands-on experiments. It is a general physics course that is recommended for all of the health sciences and all other interested students. Students entering engineering or one of the advanced sciences should register for PHY 211. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1

Prerequisite: MAT 121

**PHY 112- Physics: Algebra-Based II with Lab**

5 Credits

Expands upon PHY 111 and explores sound waves, electric fields, electric circuits, magnetic fields, light, optics, and modern physics. Explores the concepts and theories presented in class through demonstrations and hands-on experiments. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1

Prerequisite: PHY 111

**PHY 211- Physics: Calculus-Based I with Lab**

5 Credits

Explores the physical world through reasoning, mathematics and experimentation. Covers kinematics, force, gravity, energy, momentum, torque, rotational dynamics, and fluids, and may include thermodynamics. The concepts and theories presented in class are explored through demonstrations and hands-on experiments. This first semester calculus-based physics course is recommended for students entering engineering or one of the advanced sciences. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1

Prerequisite: MAT 201 or Corequisite: MAT 201

**PHY 212- Physics: Calculus-Based II with Lab**

5 Credits

Expands upon PHY 211 and examines waves, electric fields, electric circuits, magnetic fields, light and optics, and modern physics. The concepts and theories presented in class are explored through demonstrations and hands-on experiments.

This course is one of the Statewide Guaranteed Transfer courses. GT-SC1

Prerequisite: PHY 211 or Corequisite: MAT 202

— (POS) POLITICAL SCIENCE —

**POS 105 - Introduction to Political Science**

3 Credits

Focuses on a survey of the discipline of political science, including political philosophy and ideology, democratic and non-democratic governments, and processes, and international relations. This course is one of the Statewide Guaranteed Transfer courses. GT-SS1

**POS 111 - American Government**

3 Credits

Includes the background of the U.S. Constitution, the philosophy of American government, general principles of the Constitution, federalism, and civil liberties. Examines public opinion and citizen participation, political parties, interest groups, and the electoral process, and the structure and functions of the national government. This course is one of the Statewide Guaranteed Transfer courses. GT-SS1

**POS 125 - American State and Local Government**

3 Credits

Emphasizes the structure and function of state, county, and municipal governments including their relations with each other and with national government. Includes a study of Colorado government and politics.

**POS 205 - International Relations**

3 Credits

Examines relationships among modern nation states. Topics include diplomacy, nationalism, ideologies, power and influence, conflict and cooperation, the role of nonstate actors, the international economy and theoretical attempts to understand international behavior. This course is one of the Statewide Guaranteed Transfer courses. GT-SS1

— (PSY) PSYCHOLOGY —

**PSY 101 - General Psychology I**

3 Credits

Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This course is one of the Statewide Guaranteed Transfer courses. GT-SS3.

**PSY 102 - General Psychology II**

3 Credits

Focuses on the scientific study of behavior including cognition, language, intelligence, psychological assessment, personality, abnormal psychology, therapy, life span development, and social psychology. This course is one of the Statewide Guaranteed Transfer courses. GT-SS3.

**PSY 235 - Human Growth and Development**

3 Credits

Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This course is one of the Statewide Guaranteed Transfer courses. GT-SS3

Prerequisite: Three hours of psychology or permission of instructor

**PSY 238 - Child Development**

3 Credits

Focuses on the growth and development of the individual from conception through childhood, emphasizing physical, cognitive, emotional, and psychosocial factors. This course is one of the Statewide Guaranteed Transfer courses.

GT-SS3

Prerequisite: Three hours of psychology or permission of instructor



**— (PSY) PSYCHOLOGY —**

**PSY 239 - Adolescent and Adult Psychology**

3 Credits

Examines the growth and development of the individual from adolescence to death, emphasizing physical, cognitive, emotional and psychosocial factors. Prerequisite: Three hours of psychology or permission of instructor

**PSY 249 - Abnormal Psychology**

3 Credits

Examines abnormal behavior and its classification, causes, treatment, and prevention. Prerequisite: PSY 101. This course is one of the Statewide Guaranteed Transfer courses. GT-SS3

**— (RAM) RANGE MANAGEMENT —**

**RAM 205 - Range Management**

3 Credits

Presents the historical and current status of the range livestock industry. Management principles for private and public rangelands, range plant identification and range plant communities are covered.

**— (REA) READING —**

**REA 151 - College Reading**

3 Credits

Covers information processing systems, analytical reasoning strategies, concept development and retention, and patterns of organization with emphasis on applying reading strategies to college expository text.

**— (REC) RECREATION —**

**REC 120 - Intro to Sport Management**

3 Credits

Provides the student with knowledge of management in the areas of facilities, professional organizations, educational institutions, promotions, as well as the different managerial styles that can be applied. This course will also provide the student with individual topics such as quality control, leadership, strategic planning, information systems, and sport research.

**— (REE) REAL ESTATE —**

**REE 201 - Real Estate Brokers I**

6 Credits

Enables the student, in conjunction with REE 202 - Real Estate Brokers II, to meet the educational requirements of the Colorado Real Estate Commission for a Colorado Real Estate Brokers` license. This course includes Real Estate Law and Practice, practical applications, and Current Legal Issues.

Corequisite: REE 202

**REE 202 - Real Estate Brokers II**

6 Credits

Enables the student, in conjunction with REE 201 - Real Estate Brokers I, to meet the educational requirements of the Colorado Real Estate Commission for a Colorado Real Estate Brokers` license. This course includes Colorado Contracts and Regulations, Closings, and Recordkeeping and Trust Accounts. Corequisite: REE 201.

— (SBM) SMALL BUSINESS MANAGEMENT —

**SBM 121 Small Business Planning I**

9 Credits

Provides business owners systematic instruction to give them the tools to make sound business decisions based on the fields of study in Small Business Management. This course guides the student in the collection of necessary information to implement a computerized record keeping system, and to prepare a business plan. Discussions will include computer terminology, balance sheet concepts, accounting principles, computerized account reports, legal structures of a business, the basics of contract law, basic human resource management and the business plan components.

**SBM 122 Small Business Planning II**

9 Credits

Guides the student in the collection of necessary information to implement a computerized record keeping system, and to prepare a business plan. Discussions will include computer terminology, balance sheet concepts, accounting principles, computerized account reports, legal structures of a business, the basics of contract law, basic human resource management and the business plan components. Focuses on implementing a computerized record keeping system.

**SBM 131 - Records and Computerization I**

9 Credits

Guides the student in the collection of necessary information to implement a computerized record keeping system for the small business owner/operator. Discussion will included computer terminology, application software, balance sheet concepts, accounting principles, computerized accounting reports and business plan components.

**SBM 132 - Records and Computerization II**

9 Credits

Covers the implementation of a computerized record keeping system for the small business owner/operator. Emphasis will be placed on the application and maintenance of an accurate set of computerized financial records, use of a filing system, and compiling a business plan. This course is a continuation of SBM 131.  
Prerequisite: SBM 131

**SBM 141 - Financial Analysis and Planning I**

9 Credits

Covers how actual enterprise cost analysis is calculated to facilitate the development of whole business projected cash flow statements. All facets of record keeping and updating of data will be emphasized, including refining and maintaining of a current accounting system. This course includes the review and revision of business planning goals and objectives.

Prerequisite: SBM 132 or instructor's approval

**SBM 142 - Financial Analysis and Planning II**

9 Credits

Covers business analysis through the development of accurate cost and market value accrual balance sheets for the beginning and ending period for the small business owner/operator. Emphasis will be on the measurement and analysis of changes between the two balance sheets. Analysis will include the preparation of an accrual income statement. Financial ratios will be generated to understand their importance to business analysis. Data generated from an established record keeping system will provide the basis for the development of these accrual financial statements. Prerequisite: SBM 141

**— (SBM) SMALL BUSINESS MANAGEMENT —**

**SBM 151 - Marketing and Risk Management I**

9 Credits

Emphasizes the identification of the strengths and weaknesses of the business and applying them in the development of plans for the business. Includes the development of marketing goals and objectives. The development of budgets, including marketing, into the total operating budget and activities of the business. Provide a review of existing financial trends and activities for further analysis of the small business, measuring past and present performance, and developing risk management plans.

Prerequisite: SBM 142 or instructor's approval

**SBM 152 - Marketing and Risk Management II**

9 Credits

Continues from SBM 151 and provides more in-depth processes and planning to strengthen the operator's business through evaluation and planning based on the strengths and weaknesses of the business. The business operator will develop appropriate business, marketing, and risk management goals and objectives and be ready to initiate their implementation.

Prerequisite: SBM 151

**SBM 153 - Marketing, Risk Management and E-Commerce I**

9 Credits

Introduces the development of web pages using structured design to document layout. This course provides the student with hands on, practical application in creating and maintaining a web page for small business owners. May include such concepts as, web page layout, text manipulation hyperlinks, graphics, graphics formats, data tables and file downloading requirements, development of the basic marketing plan, defining your market, listing your page with search engines, and working with multimedia and the web site.

**SBM 154 - Marketing, Risk Management and E-Commerce II**

9 Credits

Introduces the development of web pages using structured design to document layout. This course is a continued study in e-commerce and marketing for small business owners. It provides the student with hands on, practical application in creating and maintaining a web page for small business owners.

**— (SCI) SCIENCE —**

**SCI 105 - Science in Society**

3 Credits

Examines issues relating to the way science affects society. Students will investigate issues in information technology, the environment, physics and astronomy, biology, medicine and the interaction of science with politics. The class will focus on gathering accurate scientific information and applying critical thinking skills and the scientific method to analyze how science plays both positive and negative roles in society. Emphasis will be on student research, inquiry and analysis of science related issues. This course is one of the guaranteed statewide transfer agreements: GT-SC2.

— (SOC) SOCIOLOGY —

**SOC 101 - Introduction to Sociology I**

3 Credits

Examines the basic concepts, theories, and principles of sociology as well as human culture, social groups, and the social issues of age, gender, class, and race.~~This course is one of the Statewide Guaranteed Transfer courses. GT-SS3.

**SOC 102 - Introduction to Sociology II**

3 Credits

Examines social institutions and organizations from the macro perspective. Emphasizes issues of social change, demography, social movements, and conflicts and trends within education, religion, family, political, and economic structures.~~This course is one of the Statewide Guaranteed Transfer courses. GT-SS3

**SOC 215-Contemporary Social Problems**

3 Credits

Explores current social issues that result in societal problems. It focuses on such issues as civil liberties, gender discrimination, substance abuse, crime, poverty, and social change. This course is one of the Statewide Guaranteed Transfer courses. GT-SS3

Prerequisite: SOC 101 or PSY 101

**SOC 231 Sociology-Deviant Behavior**

3 Credits

Examines the nature, identification, and explanation of deviant categories. Theories, and philosophies as well as methods of treatment related to deviancy will also be considered. The course will study society's attempts to control, change, and institutionalize those acts, individuals or groups that a population may deem unacceptable.

Prerequisite: SOC 101 or PSY 101

— (SPA) SPANISH —

**SPA 111 - Spanish Language I**

5 Credits

Develops students' interpretive, interpersonal, and presentational communicative abilities in the language. Integrates these skills in the cultural contexts in which the language is used. Offers a foundation in the analysis of culture.

**SPA 112 - Spanish Language II**

5 Credits

Expands students' interpretive, interpersonal, and presentational communicative abilities in the language across the disciplines. Integrates these skills with the study of the cultures in which the language is used. Offers a foundation in the analysis of culture and develops intercultural communicative strategies.

Prerequisite: SPA 111 or permission of instructor

**SPA 115 – Spanish for the Professional I**

3 credits

Introduces students to a working knowledge of the target language, cultural behaviors and values useful in various professional fields such as health care, law enforcement, bilingual education, business, and others.

**— (SPA) SPANISH —**

**SPA 211 - Spanish Language III**

3 Credits

Continues Spanish Language I and II in the development of increased functional proficiency in listening, speaking, reading and writing the Spanish language. Note: The order of the topics and the methodology will vary according to individual texts and instructors. Prerequisite: SPA 112 or permission of instructor

**SPA 212 - Spanish Language IV**

3 Credits

Continues Spanish Language I, II and III in the development of increased functional proficiency in listening, speaking, reading and writing the Spanish language. Note: The order of the topics and the methodology will vary according to individual texts and instructors. Prerequisite: SPA 211 or permission of instructor

**— (SLP) STUDENT LEADERSHIP PROGRAM —**

**SLP 106- Student Government I**

1 Credit

Provides the academic vehicle to complement the work of and support students serving in a student government organization. Students will learn to work together in a governance environment overseeing the allocation of funding for campus events, and serving as a resource for other campus leadership teams (first year, first semester).

**SLP 107 - Student Government II**

1 Credit

Provides the academic vehicle to complement the work of and support students serving in a student government organization. Students will learn to work together in a governance environment overseeing the allocation of funding for campus events, and serving as a resource for other campus leadership teams (first year, second semester).

**SLP 206 - Student Government III**

1 Credit

Provides the academic vehicle to complement the work of and support students serving in a student government organization. Students will learn to work together in a governance environment overseeing the allocation of funding for campus events, and serving as a resource for other campus leadership teams (second year, first semester).

**SLP 207 - Student Government IV**

1 Credit

Provides the academic vehicle to complement the work of and support students serving in a student government organization. Students will learn to work together in a governance environment overseeing the allocation of funding for campus events, and serving as a resource for other campus leadership teams (second year, second semester).

— (THE) THEATRE —

**THE 105 - Introduction to Theatre Arts**

3 Credits

Includes discussions, workshops, and lectures designed to discover, analyze and evaluate all aspects of the theatre experience: scripts, acting, directing, staging, history, criticism and theory. This course is one of the Statewide Guaranteed Transfer courses. GT-AH1

**THE 111 - Acting I**

3 Credits

Covers basic acting techniques and approaches including scene study, improvisation, and script analysis. It includes practical application through classroom performance.

**THE 112 – Acting II**

3 credits

Continues to explore basic acting techniques and approaches including scene study, improvisation, and intermediate script analysis. It includes practical application through classroom performance.

**THE 131 - Theatre Production I**

3 Credits

Allows students to put into practice theories of theatre production. Participation in set construction, scenic artistry, costuming, lighting, sound, acting, stage managing, and administration is available. Instructor permission required.

**THE 132 – Theatre Production II**

3 Credits

Allows students to put into practice theories of theatre production. Participation in set construction, scenic artistry, costuming, lighting, sound, acting, stage managing, and administration is available. Instructor permission required.

**THE 141 - Improvisation I**

1 Credit

Helps students learn improvisation skills for performance and character development. Emphasis is placed on Second City style of improvisation.

**THE 142 - Improvisation II**

1 Credit

Helps students continue developing improvisation skills learned in THE 141. Exercises are more advanced and difficult. Level of instruction is appropriate for experienced and/or advanced actors.

**THE 175 - Special Topics**

0-12

Provides the student with a vehicle to pursue in depth exploration of special topics of interest.

**THE 188 – Practicum**

1-3 credits

Provides students an opportunity to gain practical experience in applying their skills and/or to develop specific skills in a practical work setting. The instructor will work with the student to select an appropriate work site, establish learning objectives and to coordinate learning activities with the practicum supervisor. Prerequisite: Permission of the instructor.

**THE 211 - Development of Theatre I**

3 Credits

Surveys the history and evolution of drama from Ancient Greece to the Renaissance, emphasizing all aspects of the art from period values to analysis of dramatic literature and performance.~~This course is one of the Statewide Guaranteed Transfer courses. GT-AH1

## — (THE) THEATRE —

### THE 212 - Development of Theatre II

3 Credits

Surveys the history and evolution of drama from the Renaissance to the present, emphasizing all aspects of the art from period values to the analysis of dramatic literature and performance.~~This course is one of the Statewide Guaranteed Transfer courses. GT-AH1

### THE 231 – Theatre Production III

3 Credits

Allows students to put into practice theories of theatre production. Participation in set construction, scenic artistry, costuming, lighting, sound, acting, stage managing, and administration is available. Instructor permission required.

### THE 232 – Theatre Production IV

3 Credits

Allows students to put into practice theories of theatre production. Participation in set construction, scenic artistry, costuming, lighting, sound, acting, stage managing, and administration is available. Instructor permission required.

## — (WQM) WATER QUALITY MANAGEMENT —

### WQM 109 - Water Distribution

3 Credits

Covers the purpose, selection and location of water storage facilities and the operation and maintenance of related equipment. Topics include storage facilities and capabilities, booster pumps, water mains and appurtenances, joints, pipe protection and installation, valves, fittings and hydrants. Water quality standards, contaminants and degradation inspection and monitoring, system troubleshooting, surveillance, cross connections, pressure main breaks, corrosion control, disinfection and emergency planning are also covered.

### WQM 118 - Wastewater Collection Systems

3 Credits

Covers the purpose, components and design of collection systems. Topics include safety procedures, inspection and testing, pipeline cleaning and maintenance, underground repair, lift stations and sewer rehabilitation.

### WQM 120 – Water Quality Equipment Maintenance

4 Credits

Provides an in-depth understanding of mechanical and electrical equipment maintenance. Topics include correct use of power and hand tools, preventive maintenance and repair maintenance of pumps, motors, chlorinators, motor control units and other treatment plant equipment and safety procedures.

### WQM 124 - Water Certification Review for Class C and D

3 Credits

Helps prepare students for the operator's certification test in water at the C and D level. Topics include water principles, mathematics, hydraulics, water filtration, chemical treatment, source control, basic operations, Colorado Primary Drinking Water Regulations, housekeeping, and laboratory analysis.

### WQM 125 - Wastewater Certification Review for Class C and D

3 Credits

Helps prepare students for the operator's certification test in wastewater at the C and D level. Topics include wastewater principles, mathematics, hydraulics, conventional treatment of wastewater, wastewater sedimentation, Colorado Water Quality Control Act, biological treatment of wastewater, effluent standards for wastewater, sludge handling and disposal, disinfection, pumps, safety, housekeeping, and laboratory analysis.