

Grayson College Course Catalog

ABDR - Auto Body Repair (WECM)

ABDR 1307 - Auto Body Welding

Fundamentals of automotive welding processes. Skill development in Oxy/acetylene, SMAW, GMAW, and cutting processes in a variety of applications.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

ABDR 1411 - Vehicle Measurement and Damage Repair Procedures

Introduction to damaged vehicle measurement and alignment systems.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 3.0

Prerequisites:

- [ABDR 1431](#) - Basic Refinishing
- [ABDR 1519](#) - Basic Metal Repair

Restrictions:

- Basic Metal Repair or consent of Instructor
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ABDR 1431 - Basic Refinishing

An introduction to current refinishing products, shop safety, and equipment used in the automotive refinishing industry. Emphasis on surface preparation, masking techniques, and refinishing of trim and replacement parts.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 3.0

ABDR 1519 - Basic Metal Repair

Basic current metal working techniques, shop safety, proper tool usage, product application, and skill development utilizing various body features including metal principles.

Grade Basis: L

Credit hours: 5.0

Lecture hours: 4.0

Lab hours: 4.0

ABDR 1555 - Minor Metal Repair

A course in sheet metal alignment principles using mechanical and hydraulic equipment. Emphasis on attachment devices used to straighten and align exterior body panels.

Grade Basis: L

Credit hours: 5.0

Lecture hours: 4.0

Lab hours: 4.0

Prerequisites:

- [ABDR 1431](#) - Basic Refinishing
- [ABDR 1519](#) - Basic Metal Repair

Restrictions:

- Basic Metal Repair or consent of Instructor
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ABDR 1558 - Intermediate Refinishing

Expanded training in mixing and spraying of automotive topcoats. Emphasis on formula ingredient, reducing, thinning, and special spraying techniques. Introduction to partial panel refinishing techniques and current industry paint removal techniques.

Grade Basis: L

Credit hours: 5.0

Lecture hours: 4.0

Lab hours: 4.0

Prerequisites:

- [ABDR 1431](#) - Basic Refinishing
- [ABDR 1519](#) - Basic Metal Repair

Restrictions:

- Basic Metal Repair or consent of Instructor
-

ABDR 2355 - Collision Repair Estimating

An advanced course in collision estimating and development of an accurate damage report

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

Prerequisites:

- [ABDR 1431](#) - Basic Refinishing
- [ABDR 1519](#) - Basic Metal Repair

Restrictions:

- Basic Metal Repair or consent of Instructor
-

ABDR 2502 - Auto Body Mechanical and Electrical Service

A course in the repair, replacement, and/or service of collision damaged mechanical or electrical systems. Topics include drive train removal, reinstallation and service; cooling system service and repair; exhaust system service; and emission control systems. Additional topics include wire and connector repair, reading wiring diagrams, and troubleshooting.

Grade Basis: L

Credit hours: 5.0

Lecture hours: 4.0

Lab hours: 4.0

Prerequisites:

- [ABDR 1431](#) - Basic Refinishing
- [ABDR 1519](#) - Basic Metal Repair

Restrictions:

- Basic Metal Repair or consent of Instructor
-

ABDR 1449 - Auto Plastic and Sheet Molded Repair

A comprehensive course in repair of non-metal composites.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 3.0

ACCT - Accounting

ACCT 2301 - Principles of Financial Accounting

This course is an introduction to the fundamental concepts of financial accounting as prescribed by U.S. generally accepted accounting principles (GAAP) as applied to transactions and events that affect business organizations. Students will examine the procedures and systems to accumulate, analyze, measure, and record financial transactions. Students will use recorded financial information to prepare a balance sheet, income statement, statement of cash flows, and statement of shareholders' equity to communicate the business entity's results of operations and financial position to users of financial information who are external to the company. Students will study the nature of assets, liabilities, and owners' equity while learning to use reported financial information for purposes of making decisions about the company. Students will be exposed to International Financial Reporting Standards (IFRS).

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

ACCT 2302 - Principles of Managerial Accounting

This course is an introduction to the fundamental concepts of managerial accounting appropriate for all organizations. Students will study information from the entity's accounting system relevant to decisions made by internal managers, as distinguished from information relevant to users who are external to the company. The emphasis is on the identification and assignment of product costs, operational budgeting and planning, cost control, and management decision making. Topics include product costing methodologies, cost behavior, operational and capital budgeting, and performance evaluation. Prerequisites: ACCT 2301 - Principles of Financial Accounting or ACNT 1303 - Introduction to Accounting I and ACNT 1304 - Introduction to Accounting II

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Prerequisites:

- [ACCT 2301](#) - Principles of Financial Accounting
OR
- [ACNT 1303](#) - Introduction to Accounting I **AND**
[ACNT 1304](#) - Introduction to Accounting II

ACNT - Accounting (WECM)

ACNT 1303 - Introduction to Accounting I

A study of analyzing, classifying, and recording business transactions in a manual and computerized environment. Emphasis on understanding the complete accounting cycle and preparing financial statements, bank reconciliation, and payroll. (R)

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ACNT 1304 - Introduction to Accounting II

A study of accounting for merchandising, notes payable, notes receivable, valuation of receivables and equipment, and valuation of inventories in a manual and computerized environment.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Prerequisites:

- [ACNT 1303](#) - Introduction to Accounting I
-

ACNT 1313 - Computerized Accounting Applications

Use of the computer to develop and maintain accounting records, and to process common business applications for managerial decision-making. (R) Prerequisites: ACCT 2301 - Principles of Financial Accounting or ACNT 1303 Introduction to Accounting I

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

Prerequisites:

- [ACCT 2301](#) - Principles of Financial Accounting **OR**
[ACNT 1303](#) - Introduction to Accounting I
-

ACNT 1329 - Payroll and Business Tax Accounting

A study of payroll procedures, taxing entities, and reporting requirements of local, state, and federal taxing authorities in a manual and computerized environment. Prerequisite: ACCT 2301 - Principles of Financial Accounting or ACNT 1303 - Introduction to Accounting I

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Prerequisites:

- [ACCT 2301](#) - Principles of Financial Accounting **OR**
[ACNT 1303](#) - Introduction to Accounting I
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ACNT 1331 - Federal Income Tax: Individual

A study of the federal tax law for preparation of individual income tax returns. Prerequisites: ACCT 2301 - Principles of Financial Accounting or ACNT 1303 - Introduction to Accounting I

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [ACCT 2301](#) - Principles of Financial Accounting **OR**
[ACNT 1303](#) - Introduction to Accounting I
-

ACNT 2302 - Accounting Capstone

Allows students to apply broad knowledge of the accounting profession through discipline specific projects involving the integration of individuals and teams performing activities to simulate workplace situations.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Only AAS Accounting majors may enroll in this course. This course should be taken during the semester of graduation.
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ACNT 1311 - Introduction to Computerized Accounting

Introduction to utilizing the computer in maintaining accounting records with primary emphasis on a general ledger package. Prerequisites: ACCT 2301 - Principles of Financial Accounting or ACNT 1303 - Introduction to Accounting I

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

Prerequisites:

- [ACCT 2301](#) - Principles of Financial Accounting **OR**
[ACNT 1303](#) - Introduction to Accounting I
-

ACNT 2309 - Cost Accounting

Budgeting, cost analysis, and cost control systems using traditional and contemporary costing methods and theories in decision making. Prerequisites: ACCT 2301 - Principles of Financial Accounting or ACNT 1303 - Introduction to Accounting I

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [ACCT 2301](#) - Principles of Financial Accounting **OR**
[ACNT 1303](#) - Introduction to Accounting I

AGCR - Agronomy and Crop Science (WECM)

AGCR 1303 - Crop Science

Fundamentals of the development, production, and management of field crops. Topics include the classification and distribution of field crops, botany, soils, plant breeding, pest management, and harvesting

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

AGCR 1407 - Range Management

Practical problems of managing native pastures and rangelands. Includes rangeland ecology, stocking rates, rotation systems, toxic plants, range reseeding, brush control, and ecological and physiological responses of range vegetation to grazing.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

AGMG - Agriculture Business and Management (WECM)

AGMG 1311 - Introduction to Agribusiness

Introduction to agribusiness management, marketing, and sales in the free enterprise system. Topics include economic principles, finance, risk management, record keeping, budgeting, employee/employer responsibilities, communications, human relation skills, and agricultural career opportunities.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

AGRI - Agriculture

AGRI 1315 - Horticulture (Lecture)

Structure, growth, and development of horticultural plants. Examination of environmental effects, basic principles of reproduction, production methods ranging from outdoor to controlled climates, nutrition, and pest management.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Corequisites:

- [AGRI 1115](#) - Horticulture Lab
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AGRI 1115 - Horticulture Lab

This laboratory-based course accompanies AGRI 1315. Laboratory activities will reinforce the structure, growth, and development of horticultural plants. Examination of environmental effects, basic principles of reproduction, production methods ranging from outdoor to controlled climates, nutrition, and pest management.

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Corequisites:

- [AGRI 1315](#) - Horticulture (Lecture)
-

AGRI 1319 - Introductory Animal Science

Scientific animal production and the importance of livestock and meat industries. Selection, reproduction, nutrition, management, and marketing of livestock.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Corequisites:

- [AGRI 1119](#) - Introductory Animal Science Lab
-

AGRI 1119 - Introductory Animal Science Lab

This laboratory-based course accompanies AGRI 1319 Introductory Animal Science (lecture). Laboratory activities will reinforce scientific animal production and the importance of livestock and meat industries. Selection, reproduction, nutrition, management, and marketing of livestock.

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Corequisites:

- [AGRI 1319](#) - Introductory Animal Science
-

AGRI 1329 - Principles of Food Science

Biological and scientific aspects of modern industrial food supply systems. Food classification, modern processing, nutritional quality, and quality control.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

AGRI 2317 - Intro to Agricultural Economics

Fundamental economic principles and their application in the agricultural industry.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

AGRI 2321 - Livestock Evaluation

Evaluation and grading of market cattle, swine, sheep, and goats and their carcasses and wholesale cuts. Emphasis will be placed on value determination. Selection and evaluation of breeding cattle, sheep, swine, and goats with emphasis on economically important traits.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

AGRI 2330 - Wildlife Conservation and Management

Principles and practices used in the production and improvement of wildlife resources. Aesthetic, ecological, and recreational uses of public and private lands.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

AGRI 1309 - Computers in Agriculture

Use of computers in agricultural applications. Introduction to programming languages, word processing, electronic spreadsheets, and agricultural software.

Grade Basis: L

Credit hours: 3.0

ARTC - Commercial Art (WECM)

ARTC 1325 - Introduction to Computer Graphics

A survey of computer design concepts, terminology, processes, and procedures. Topics include computer graphics hardware, electronic images, electronic publishing, vector-based graphics, and interactive multimedia.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

ARTV 1351 - Digital Video

Producing and editing video and sound for multimedia or web productions. Emphasizes capture, editing, and outputting of video using a desktop digital video workstation.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

ARTS - Studio Art & Art History

ARTS 1301 - Art Appreciation

A general introduction to the visual arts designed to create an appreciation of the vocabulary, media, techniques, and purposes of the creative process. Students will critically interpret and evaluate works of art within formal, cultural, and historical contexts.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

ARTS 1303 - Art History I

A chronological analysis of the historical and cultural contexts of the visual arts from prehistoric times to the 14th century.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

ARTS 1304 - Art History II

A chronological analysis of the historical and cultural contexts of the visual arts from the 14th century to the present day.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

ARTS 1311 - Design I

An introduction to the fundamental terminology, concepts, theory, and application of two-dimensional design.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 1.0
Lab hours: 5.0

ARTS 1312 - Design II

An introduction to the fundamental terminology, concepts, theory, and application of three-dimensional design.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 1.0
Lab hours: 5.0

ARTS 1316 - Drawing I

A foundation studio course exploring drawing with emphasis on descriptive, expressive and conceptual approaches. Students will learn to see and interpret a variety of subjects while using diverse materials and techniques. Course work will facilitate a dialogue in which students will engage in critical analysis and begin to develop their understanding of drawing as a discipline.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 1.0
Lab hours: 5.0

ARTS 1317 - Drawing II

A studio course exploring drawing with continued emphasis on descriptive, expressive and conceptual approaches. Students will further develop the ability to see and interpret a variety of subjects while using diverse materials and techniques. Course work will facilitate a dialogue in which students will employ critical analysis to broaden their understanding of drawing as a discipline.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

Prerequisites:

- [ARTS 1316](#) - Drawing I
-

ARTS 1325 - Drawing & Painting

Drawing and painting for non-art majors.

Grade Basis: AL

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

ARTS 2311 - Design III (Color Theory)

Studio art course that is a theoretical and practical study of color and composition in art and design. The course consists of studio-based projects using the formal and conceptual aspects of color. The course also examines the functions of color in art from different historical and cultural perspectives.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

ARTS 2316 - Painting I

Studio art course that introduces the fundamental principles, materials, and techniques of painting.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

ARTS 2317 - Painting II

Studio art course that furthers the study of the principles, materials, and techniques of painting.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

Prerequisites:

- [ARTS 2316](#) - Painting I
-

ARTS 2323 - Life Drawing

Studio art course that introduces the analytic study of the human form and the figure's potential for compositional and expressive use in drawing.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

ARTS 2333 - Printmaking I

A studio art course that introduces the materials, processes, and concepts pertaining to traditional and contemporary printmaking. The course explores the use of varied tools and techniques along with the formal and conceptual principles to create editioned and unique works

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

ARTS 2346 - Ceramics I

A studio art course that introduces basic building, throwing, and other techniques as it relates to the design and production of ceramic sculpture and pottery.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

ARTS 2347 - Ceramics II

A studio art course that furthers the study of building, throwing, and other techniques as it relates to the design and production of ceramic sculpture and pottery.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

Prerequisites:

- [ARTS 2346](#) - Ceramics I
-

ARTS 2366 - Watercolor

Studio art course that introduces the fundamental principles, materials, and techniques of watercolor and other water-based media.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

ARTS 2389 - Academic Cooperative

An instructional program designed to integrate on-campus study with practical hands-on work experience. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of studio art and/or art history.

Grade Basis: L

ARTS 1313 - Foundations of Art

Introduction to the creative media designed to enhance artistic awareness and sensitivity through the creative and imaginative use of art materials and tools. Includes art history and culture through the exploration of a variety of art works with an emphasis on aesthetic judgment and growth.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 3.0

ARTS 2326 - Sculpture

A studio art course that introduces the materials, processes, and issues pertaining to the making of three-dimensional objects and environments. The course explores the use of varied materials and techniques along with the formal and conceptual principles that form the basis of contemporary sculpture.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

BCIS - Business Computer Information Systems

BCIS 1305 - Business Computer Applications

Introduces and develops foundational skills in applying essential and emerging business productivity information technology tools. The focus of this course is on business productivity software applications, including word processing, spreadsheets, databases, presentation graphics, data analytics, and business-oriented utilization of the internet. (BCIS 1305 is included in the Business Field of Study.)

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

BIOL - Biology

BIOL 2301 - Anatomy and Physiology I (lecture)

Anatomy and Physiology I is the first part of a two-course sequence. It is a study of the structure and function of the human body including cells, tissues and organs of the following systems: integumentary, skeletal, muscular, nervous and special senses. Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis. Corequisite BIOL 2101

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Corequisites:

- [BIOL 2101](#) - Anatomy & Physiology Lab I

Restrictions:

- College readiness in reading required
-

BIOL 1322 - Nutrition & Diet Therapy

This course introduces general nutritional concepts in health and disease and includes practical applications of that knowledge. Special emphasis is given to nutrients and nutritional processes including functions, food sources, digestion, absorption, and metabolism. Food safety, availability, and nutritional information including food labels, advertising, and nationally established guidelines are addressed.

ACGM states: This course introduces general nutritional concepts in health and disease and includes practical applications of that knowledge. Special emphasis is given to nutrients and nutritional processes including functions, food sources, digestion, absorption, and metabolism. Food safety, availability, and nutritional information including food labels, advertising, and nationally established guidelines are addressed.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- College readiness in reading required.
-

BIOL 2121 - Microbiology Lab for Science Majors

Principles of microbiology, including metabolism, structure, function, genetics, and phylogeny of microbes. The course will also examine the interactions of microbes with each other, hosts, and the environment. Laboratory activities will reinforce principles discussed in lecture. ACGM states: Principles of microbiology, including metabolism, structure, function, genetics, and phylogeny of microbes. The course will also examine the interactions of microbes with each other, hosts, and the environment.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

BIOL 1306 - Biology I

Fundamental principles of living organisms will be studied, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Concepts of cytology, reproduction, genetics, ecology, and scientific reasoning are included. This course is accompanied by BIOL 1106

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Corequisites:

- [BIOL 1106](#) - Biology I (Lab)

Restrictions:

- College readiness in reading required
-

BIOL 2302 - Anatomy and Physiology II

Anatomy and Physiology II is the second part of a two-course sequence. It is a study of the structure and function of the human body including the following systems: endocrine, cardiovascular, immune, lymphatic, respiratory, digestive (including nutrition), urinary (including fluid and electrolyte balance), and reproductive (including human development and genetics). Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis. Corequisite of BIOL 2102

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [BIOL 2101](#) - Anatomy & Physiology Lab I
- [BIOL 2301](#) - Anatomy and Physiology I (lecture)

Corequisites:

- [BIOL 2102](#) - Anatomy & Physiology Lab 2

Restrictions:

- College readiness in reading required.
 - Must have earned a "C" or better in BIOL 2301/2101
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BIOL 1307 - Biology II

The diversity and classification of life will be studied, including animals, plants, protists, fungi, and prokaryotes. Special emphasis will be given to anatomy, physiology, ecology, and evolution of plants and animals. This course is accompanied by BIOL 1107

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Corequisites:

- [BIOL 1107](#) - Biology II (lab)

Restrictions:

- College readiness in reading required
-

BIOL 2404 - Anatomy & Physiology

Study of the structure and function of human anatomy, including neuroendocrine, integumentary, musculoskeletal, digestive, urinary, reproductive, respiratory, and circulatory systems. Content may be either integrated or specialized

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- College readiness in reading required
-

BIOL 1308 - Biology for Non-Science Majors I

Provides a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction. This course is accompanied by BIOL 1108

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Corequisites:

- [BIOL 1108](#) - Biology Lab for Non-Science Majors I (lab)

Restrictions:

- College readiness in reading required.
-

BIOL 2320 - Microbiology for Non-Science Majors

This course covers basic microbiology and immunology and is primarily directed at pre-nursing, pre-allied health, and non-science majors. It provides an introduction to historical concepts of the nature of microorganisms, microbial diversity, the importance of microorganisms and acellular agents in the biosphere, and their roles in human and animal diseases. Major topics include bacterial structure as well as growth, physiology, genetics, and biochemistry of microorganisms. Emphasis is on medical microbiology, infectious diseases, and public health. Corequisite BIOL 2120

Grade Basis: L

Credit hours: 3.0

Lab hours: 3.0

Prerequisites:

- [BIOL 2101](#) - Anatomy & Physiology Lab I
- [BIOL 2301](#) - Anatomy and Physiology I (lecture)

Corequisites:

- [BIOL 2120](#) - Microbiology Lab for Non-Science Majors

Restrictions:

- College readiness in reading required.
 - Must have earned a "C" or better in BIOL 2301/2101
-

BIOL 1309 - Biology for Non-Science Majors II

This course will provide a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology. This course is accompanied by BIOL 1109

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Corequisites:

- [BIOL 1109](#) - Biology Lab for Non-Science Majors II

Restrictions:

- College readiness in reading required
-

BIOL 2321 - Microbiology for Science Majors

Principles of microbiology, including metabolism, structure, function, genetics, and phylogeny of microbes. The course will also examine the interactions of microbes with each other, hosts, and the environment. Laboratory activities will reinforce principles discussed in lecture.

ACGM states: Principles of microbiology, including metabolism, structure, function, genetics, and phylogeny of microbes. The course will also examine the interactions of microbes with each other, hosts, and the environment.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [BIOL 1306](#) - Biology I
- [BIOL 1307](#) - Biology II
- [CHEM 1311](#) - General Chemistry I

Restrictions:

- College readiness in reading
-

BIOL 2101 - Anatomy & Physiology Lab I

The lab provides a hands-on learning experience for exploration of human system components and basic physiology. Systems to be studied include integumentary, skeletal, muscular, nervous, and special senses. This course is accompanied by BIOL 2301

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Corequisites:

- [BIOL 2301](#) - Anatomy and Physiology I (lecture)

Restrictions:

- College readiness in reading required
-

BIOL 1106 - Biology I (Lab)

This laboratory-based course accompanies Biology 1306, Biology I. Laboratory activities will reinforce the fundamental principles of living organisms, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Study and examination of the concepts of cytology, reproduction, genetics, and scientific reasoning are included.

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Corequisites:

- [BIOL 1306](#) - Biology I

Restrictions:

- College readiness in reading required.
-

BIOL 1107 - Biology II (lab)

This laboratory-based course accompanies Biology 1307, Biology II. Laboratory activities will reinforce study of the diversity and classification of life, including animals, plants, protists, fungi, and prokaryotes. Special emphasis will be given to anatomy, physiology, ecology, and evolution of plants and animals.

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Corequisites:

- [BIOL 1307](#) - Biology II

Restrictions:

- College readiness in reading required.
-

BIOL 1108 - Biology Lab for Non-Science Majors I (lab)

This laboratory-based course accompanies BIOL 1308. Laboratory activities will reinforce a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Corequisites:

- [BIOL 1308](#) - Biology for Non-Science Majors I

Restrictions:

- College readiness in reading required.
-

BIOL 1109 - Biology Lab for Non-Science Majors II

This laboratory-based course accompanies BIOL 1309, Biology for Non-Science Majors II. Laboratory activities will reinforce a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology.

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Corequisites:

- [BIOL 1309](#) - Biology for Non-Science Majors II

Restrictions:

- College readiness in reading required.
-

BIOL 2102 - Anatomy & Physiology Lab 2

The lab provides a hands-on learning experience for exploration of human system components and basic physiology. Systems to be studied include endocrine, cardiovascular, immune, lymphatic, respiratory, digestive (including nutrition), urinary (including fluid and electrolyte balance), and reproductive (including human development and genetics). This course is accompanied by BIOL 2302

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [BIOL 2101](#) - Anatomy & Physiology Lab I
- [BIOL 2301](#) - Anatomy and Physiology I (lecture)

Corequisites:

- [BIOL 2302](#) - Anatomy and Physiology II

Restrictions:

- College readiness in reading required.
 - Must have earned a "C" or better in BIOL 2301/2101
-

BIOL 2120 - Microbiology Lab for Non-Science Majors

Study of the morphology, physiology, and taxonomy of representative groups of pathogenic and nonpathogenic microorganisms. Pure cultures of microorganisms grown on selected media are used in learning laboratory techniques. Includes a brief preview of food microbes, public health, and immunology.

ACGM states: This course covers basics of culture and identification of bacteria and microbial ecology. This course is primarily directed at prenursing and other pre-allied health majors and covers basics of microbiology. Emphasis is on medical microbiology, infectious diseases, and public health. Corequisite BIOL 2320

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [BIOL 2101](#) - Anatomy & Physiology Lab I
- [BIOL 2301](#) - Anatomy and Physiology I (lecture)

Corequisites:

- [BIOL 2320](#) - Microbiology for Non-Science Majors

Restrictions:

- College readiness in reading required.
- Must have earned a "C" or better in BIOL 2301/2101

BMGT - Business Management (WECM)

BMGT 1305 - Communications in Management

Basic theory and processes of communication skills necessary for the management of an organization's workforce.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

BMGT 1327 - Principles of Management

Concepts, terminology, principles, theories, and issues in the field of management.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

BMGT 2309 - Leadership

Leadership and its relationship to management. Prepares the student with leadership and communication skills needed to motivate and identify leadership styles. (Capstone course for the Business Foundation Certificate.)

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

BMGT 1341 - Business Ethics

Discussion of ethical issues, the development of a moral frame of reference, and the need for an awareness of social responsibility in management practices and business activities. Includes ethical corporate responsibility. (Capstone course for the Business and Management AAS degree. Take during the semester of graduation.)

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

BNKG - Banking (WECM)

BNKG 1303 - Principles of Bank Operation

Overview of the fundamental banking functions and the role of regulation in the banking industry. Explanation of financial products and services to various markets. (Capstone course for General Banking Certificate)

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- Capstone for the General Banking Certificate
-

BNKG 1340 - Money and Financial Markets

Monetary policy and its related effects on financial intermediaries. Includes financial markets, regulatory functions, and structures. Addresses investment and funds management. (Capstone course for Bank Operations Certificate)

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- Capstone for the Bank Operations Certificate.
-

BNKG 1366 - Field Experience – Banking and Financial Support Services

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

Grade Basis: L

Credit hours: 3.0

Lab hours: 24.0

BNKG 1391 - Special Topics in Banking and Financial Support Services

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

BUSG - Business and Commerce (WECM)

BUSG 1302 - E-Business Management

Introduction to business. Includes the internet, infrastructure for electronic commerce, markup languages, web-based tools and software, security issues, and electronic payment systems. Also covers strategies for marketing, sales, and purchasing; legal, ethical, and tax issues; and management functions

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

BUSG 1303 - Principles of Finance

Financial dynamics of a business. Includes monetary and credit theory, cash inventory, capital management, and consumer and government finance. Emphasizes the time value of money.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

BUSG 1304 - Financial Literacy

A study of the financial principles when managing financial affairs. Includes topics such as budgeting, retirement, property ownership, savings and investment planning.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

BUSG 2305 - Business Law/Contracts

Principles of law which form the legal framework for business activity including applicable statutes, contracts, and agency. (Capstone Course for the Business and Management Certificate)

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

BUSG 2309 - Small Business Management

Starting, operating, and growing a small business. Includes essential management skills, how to prepare a business plan, accounting, financial needs, staffing, marketing strategies, and legal issues.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

BUSI - Business

BUSI 1301 - Business Principles

This course provides a survey of economic systems, forms of business ownership, and considerations for running a business. Students will learn various aspects of business, management, and leadership functions; organizational considerations; and decision-making processes. Financial topics are introduced, including accounting, money and banking, and securities markets. Also included are discussions of business challenges in the legal and regulatory environment, business ethics, social responsibility, and international business. Emphasized is the dynamic role of business in everyday life. (BUSI 1301 is included in the Business Field of Study.)

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

BUSI 2305 - Business Statistics

Descriptive and inferential statistical techniques for business and economic decision making. Topics include the collection, description, analysis, and summarization of data; probability; discrete and continuous random variables; the binomial and normal distributions; sampling distributions; tests of hypotheses; estimation and confidence intervals; linear regression; and correlation analysis. Statistical software is used to analyze data throughout the course. (BUSI 2305 is included in the Business Field of Study.)

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Prerequisites:

- [MATH 1314](#) - College Algebra **OR**
- [MATH 1324](#) - Mathematics for Business and Social Sciences I
- [BCIS 1305](#) - Business Computer Applications

CDEC - Child Development (WECM)

CDEC 1313 - Curriculum Resources for Early Childhood Programs

A study of the fundamentals of developmentally appropriate curriculum design and implementation in early care and education programs for children birth through age eight. Field observation required.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- Field experience required
-

CDEC 1317 - Child Development Associate Training 1

Based on the requirements for the Child Development Associate credential CDA. Topics include CDA overview, observation skills, and child growth and development. The four functional areas of study are creative, cognitive, physical, and communication

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

CDEC 1319 - Child Guidance

An exploration of guidance strategies for promoting prosocial behaviors with individual and groups of children. Emphasis on positive guidance principles and techniques, family involvement, and cultural influences. Field observation required.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- Field experience required
-

CDEC 1321 - The Infant and Toddler

A study of appropriate infant and toddler programs birth to age 3, including an overview of development, quality routines, learning environments, materials and activities, and teaching/guidance techniques.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 1323 - Observation and Assessment

A study of observation skills, assessment techniques, and documentation of children's development. Field observation required.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- Field experience required
-

CDEC 1330 - Growth and Development: 6-14 Years

Principles of child growth and development from age six through fourteen years. Focus on physical, cognitive, social, and emotional domains of development.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 1335 - Early Childhood Development: 3-5 Years

Principles of normal growth and development from three years through five years. Emphasizes physical, emotional, cognitive, and social development. Field observation required.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- Field observation required.
-

CDEC 1339 - Early Childhood Dev 0-3 Years

Principles of typical growth and development from conception through three years of age. Emphasizes physical, cognitive, and social and emotional development.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 1343 - Independent Study in Child Development

Study of an approved career topic. Research, presentation of findings, and practical applications are emphasized as they relate to the selected topic.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 1356 - Emergent Literacy Early Child

An exploration of principles, methods, and materials for teaching young children language and literacy through a play-based integrated curriculum to children from birth through age eight. Field observation required.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- Field experience required
-

CDEC 0101 - Child Development Associate 1

Grade Basis: L

CDEC 1358 - Creative Arts Early Child

An exploration of principles, methods, and materials for teaching music, movement, visual arts, and dramatic play through process-oriented experiences to support divergent thinking for children birth through age eight.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 1359 - Children with Special Needs

A survey of information regarding children with special needs including possible causes and characteristics of exceptionalities, intervention strategies, available resources, referral processes, the advocacy role, and legislative issues.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 2304 - Child Abuse and Neglect

Methods used in the identification of physical, emotional, and sexual abuse and neglect with an emphasis on developing skills for working with children and families. Includes methods of referral to public and private agencies that deal with investigation and treatment.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 2307 - Math and Science for Early Childhood

An exploration of principles, methods, and materials for teaching children math and science concepts and process skills through discovery and play.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 2315 - Diverse Cultural/Multilingual Education

An overview of diverse cultural and multilingual education including familial relationships, community awareness, diversity, and the needs of each and every child.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 2322 - Child Development Associate Training 2

A continuation of the study of the requirements for the Child Development Associate Credential (CDA). The six functional areas of study include safe, healthy learning environment, self, social and guidance..

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

CDEC 2324 - Child Dev Associate Training 3

Continuation of the requirements for the Child Development Associate credential CDA. The three functional areas of study include family, program management and professionalism

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

CDEC 2326 - Administration of Programs for Children 1

Application of management procedures for early care education programs. Includes planning, operating, supervising, and evaluating programs. Topics cover philosophy, types of programs, policies, fiscal management, regulations, staffing, evaluation, and communication.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- Field experience required.
-

CDEC 2328 - Admin of Program Children 2

An in-depth study of the skills and techniques in managing early care and education programs, including legal and ethical issues, personnel management, team building, leadership, conflict resolution, stress management, advocacy, professionalism, fiscal analysis and planning parent education/partnerships, and technical applications in programs.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Field Experience Required
-

CDEC 2336 - Admin of Program for Children 3

An advanced study of the skills and techniques in administering early care and education programs.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 2340 - Instructional Techniques for Children with Special Needs

Exploration of development and implementation of curriculum for children with special needs.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 2341 - The School Age Child

A study of programs for the school age child, including an overview of development, learning environments, materials, activities and guidance techniques.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 2380 - Cooperative Education Child-Care Provider Assistant - Capstone

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Field experience required.

Grade Basis: L

Credit hours: 3.0

Lab hours: 15.0

Restrictions:

- Field experience required.
-

CDEC 2264 - Practicum-Child Care Provider

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Lab hours: 1.0

CHEF - Culinary Arts (WECM)

CHEF 1164 - Practicum (or Field Experience)

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

Grade Basis: L

Credit hours: 1.0

Lab hours: 10.0

CHEF 1205 - Sanitation and Safety

Study of personal cleanliness; sanitary practices in food preparation; causes, investigation, control of illness caused by food contamination (Hazard Analysis Critical Control Points); and work place safety standards.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Lab hours: 1.0

CHEF 1301 - Basic Food Preparation

A study of the fundamental principles of food preparation and cookery to include Brigade System, cooking techniques, material handling, heat transfer, sanitation, safety, nutrition, and professionalism. Professional chef uniform and kitchen tools required. Lab included. 3 credit hours.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

CHEF 1310 - Garde Manager

A study of specialty foods and garnishes. Emphasis on design, techniques, and display of fine foods. Lab included.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Prerequisites:

- [CHEF 1205](#) - Sanitation and Safety
 - [CHEF 1301](#) - Basic Food Preparation
-

CHEF 1314 - A La Carte Cooking

A course in a la carte or "cooking to order" concepts. Topics include menu and recipe interpretation and conversion, organization of work station, employment of appropriate cooking methods, plating, and saucing principles. Lab included.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

Prerequisites:

- [CHEF 1205](#) - Sanitation and Safety
 - [CHEF 1301](#) - Basic Food Preparation
-

CHEF 1345 - International Cuisine

The study of classical cooking skills associated with the preparation and service of international and ethnic cuisine. Topics include similarities between food production systems used in the United States and other regions of the world. Professional chef uniform and kitchen tools required. Lab included.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Prerequisites:

- [CHEF 1205](#) - Sanitation and Safety
 - [CHEF 1301](#) - Basic Food Preparation
-

CHEF 2231 - Advanced Food Preparation

Advanced concepts of food preparation and presentation techniques.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 4.0

CHEF 1302 - Principles of Healthy Cuisine

Introduction to the principles of planning, preparation, and presentation of nutritionally balanced meals. Alternative methods and ingredients will be used to achieve a healthier cooking style.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

CHEM - Chemistry

CHEM 1111 - General Chemistry Laboratory 1

Basic laboratory experiments supporting theoretical principles presented in ; introduction of the scientific method, experimental design, data collection and analysis, and preparation of laboratory report.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [MATH 1314](#) - College Algebra

Corequisites:

- [CHEM 1311](#) - General Chemistry I

Restrictions:

- High School chemistry is strongly recommended
-

CHEM 1112 - General Chemistry Laboratory 2

Basic laboratory experiments supporting theoretical principles presented in ; introduction of the scientific method, experimental design, chemical instrumentation, data collection and analysis, and preparation of laboratory report.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [CHEM 1311](#) - General Chemistry I

Corequisites:

- [CHEM 1312](#) - General Chemistry II

Restrictions:

- College readiness in reading and math required
-

CHEM 1311 - General Chemistry I

Fundamental principles of chemistry for majors in the sciences, health sciences, and engineering; topics include measurements, fundamental properties of matter, states of matter, chemical reactions, chemical stoichiometry, periodicity of elemental properties, atomic structure, chemical bonding, molecular structure, solutions, properties of gases, and an introduction to thermodynamics and descriptive chemistry. Corequisite CHEM 1111.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [MATH 1314](#) - College Algebra

Corequisites:

- [CHEM 1111](#) - General Chemistry Laboratory 1

Restrictions:

- High school chemistry is strongly recommended.
-

CHEM 1312 - General Chemistry II

Chemical equilibrium; phase diagrams and spectrometry; acidbase concepts; thermodynamics; kinetics; electrochemistry; nuclear chemistry; an introduction to organic chemistry and descriptive inorganic chemistry.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [CHEM 1111](#) - General Chemistry Laboratory 1
- [CHEM 1311](#) - General Chemistry I

Corequisites:

- [CHEM 1112](#) - General Chemistry Laboratory 2

Restrictions:

- CHEM 1109/1309/1409 Required.
-

CHEM 1406 - Introductory Chemistry I (lecture + lab, allied health emphasis)

Survey course introducing chemistry. Topics may include inorganic, organic, biochemistry, food/physiological chemistry, and environmental/consumer chemistry. Designed for allied health students and for students who are not science majors. Organic and biological chemistry are emphasized. This course provides the basic chemical background for understanding metabolism and other biological processes which occur in living organisms. Not to be taken by science majors.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Restrictions:

- College readiness in reading required.
-

CHEM 2123 - Organic Chemistry I (lab, 1 SCH version)

This laboratory-based course accompanies CHEM 2323, Organic Chemistry I. Laboratory activities will reinforce fundamental principles of organic chemistry, including the structure, bonding, properties, and reactivity of organic molecules; and properties and behavior of organic compounds and their derivatives. Emphasis is placed on organic synthesis and mechanisms. Includes study of covalent and ionic bonding, nomenclature, stereochemistry, structure and reactivity, reaction mechanisms, functional groups, and synthesis of simple molecules. Methods for the purification and identification of organic compounds will be examined.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [CHEM 1112](#) - General Chemistry Laboratory 2
- [CHEM 1312](#) - General Chemistry II

Corequisites:

- [CHEM 2323](#) - Organic Chemistry I

Restrictions:

- College readiness in reading is required
-

CHEM 2125 - Organic Chemistry II (lab, 1 SCH version)

This laboratory-based course accompanies CHEM 2325, Organic Chemistry II. Laboratory activities reinforce advanced principles of organic chemistry, including the structure, properties, and reactivity of aliphatic and aromatic organic molecules; and properties and behavior of organic compounds and their derivatives. Emphasis is placed on organic synthesis and mechanisms. Includes study of covalent and ionic bonding, nomenclature, stereochemistry, structure and reactivity, reaction mechanisms, functional groups, and synthesis of simple molecules.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [CHEM 2123](#) - Organic Chemistry I (lab, 1 SCH version)
- [CHEM 2323](#) - Organic Chemistry I

Corequisites:

- [CHEM 2325](#) - Organic Chemistry II

Restrictions:

- College readiness in reading is required
-

CHEM 2323 - Organic Chemistry I

Fundamental principles of organic chemistry will be studied, including the structure, bonding, properties, and reactivity of organic molecules; and properties and behavior of organic compounds and their derivatives. Emphasis is placed on organic synthesis and mechanisms. Includes study of covalent and ionic bonding, nomenclature, stereochemistry, structure and reactivity, reaction mechanisms, functional groups, and synthesis of simple molecules. This course is intended for students in science or pre- professional programs. Corequisite: CHEM 2123

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [CHEM 1112](#) - General Chemistry Laboratory 2
- [CHEM 1312](#) - General Chemistry II

Corequisites:

- [CHEM 2123](#) - Organic Chemistry I (lab, 1 SCH version)

Restrictions:

- College readiness in reading is required
 - Successful completion with a grade of C or better in CHEM 1312/1112 is required
-

CHEM 2325 - Organic Chemistry II

Advanced principles of organic chemistry will be studied, including the structure, properties, and reactivity of aliphatic and aromatic organic molecules; and properties and behavior of organic compounds and their derivatives. Emphasis is placed on organic synthesis and mechanisms. Includes study of covalent and ionic bonding, nomenclature, stereochemistry, structure and reactivity, reaction mechanisms, functional groups, and synthesis of simple molecules. This course is intended for students in science or pre-professional programs. Corequisite: CHEM 2125

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [CHEM 2123](#) - Organic Chemistry I (lab, 1 SCH version)
- [CHEM 2323](#) - Organic Chemistry I

Corequisites:

- [CHEM 2125](#) - Organic Chemistry II (lab, 1 SCH version)

Restrictions:

- College readiness in reading is required
 - Successful completion with a grade of C or better in CHEM2123/2323 or CHEM 2423 required
-

CHEM 2389 - Academic Cooperative

An instructional program designed to integrate on-campus study with practical hands-on work experience in the physical sciences. In conjunction with class seminars, the individual students will set specific goals and objectives in the scientific study of inanimate objects, processes of matter and energy, and associated phenomena.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJCR - Corrections (WECM)

CJCR 1307 - Correctional System

Corrections in the criminal justice system; organization of correctional systems; correctional role; institutional operations; alternatives to institutionalization; treatment and rehabilitation; current and future issues. End-Of-Course Outcomes: Describe historical trends; identify the organization and role of corrections; distinguish operations and procedure within correctional programs; and evaluate rehabilitation, alternatives to institutionalization, and future issues.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJCR 2324 - Community Resources in Corrections

An introductory study of the role of the community in corrections; community programs for adults and juveniles; administration of community programs; legal issues; future trends in community treatment. End-Of-Course Outcomes: Identify alternatives to incarceration; compare and contrast the strengths and weaknesses inherent in contemporary models of intermediate sanctions; and appraise future trends in community treatment options.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJLE - Police Science (WECM)

CJLE 1211 - Basic Firearms

Supplemental course taken in conjunction with Basic Peace Officer Courses I, II, III, IV and V. Satisfies or exceeds the Texas Commission on Law Enforcement (TCOLE) approved Basic Peace Officer Academy Course 1000643. Basic preparation for a new peace officer. Firearm safety, cleaning and care techniques, proper shooting principles, and firearm proficiency. This course was designed to be repeated multiple times if content varies.

Grade Basis: L
Credit hours: 2.0
Lecture hours: 1.0
Lab hours: 4.0

CJLE 1329 - Basic Peace Officer V

Supplemental course taken in conjunction with Basic Peace Officer Courses I, II, III, and IV. Satisfies or exceeds the Texas Commission on Law Enforcement approved Basic Peace Officer Academy Course #1000. ***THIS COURSE MAY BE OFFERED ONLY BY INSTITUTIONS LICENSED AS A POLICE ACADEMY BY Texas Commission on Law Enforcement.***

Grade Basis: L
Credit hours: 3.0
Lecture hours: 1.0
Lab hours: 8.0

CJLE 1506 - Basic Peace Officer I

Basic preparation for a new peace officer. Should be taken in conjunction with Basic Peace Officer II, III, IV, and V (supplement) to satisfy the Texas Commission on Law Enforcement approved Basic Peace Officer Training Academy. ***THIS COURSE MAY BE OFFERED ONLY BY INSTITUTIONS LICENSED AS A POLICE ACADEMY BY Texas Commission on Law Enforcement.***

Grade Basis: LP
Credit hours: 5.0
Lecture hours: 2.0
Lab hours: 9.0

CJLE 1512 - Basic Peace Officer II

Basic preparation for a new peace officer. Should be taken in conjunction with Basic Peace Officer I, III, IV, and V (supplement) to satisfy the Texas Commission on Law Enforcement approved Basic Peace Officer Academy. ***THIS COURSE MAY BE OFFERED ONLY BY INSTITUTIONS LICENSED AS A POLICE ACADEMY BY Texas Commission on Law Enforcement.***

Grade Basis: LP
Credit hours: 5.0
Lecture hours: 4.0
Lab hours: 3.0

CJLE 1518 - Basic Peace Officer III.

Basic preparation for a new peace officer. Should be taken in conjunction with Basic Peace Officer I, II, IV, and V (supplement) to satisfy the Texas Commission on Law Enforcement approved Basic Peace Officer Academy. ***THIS COURSE MAY BE OFFERED ONLY BY INSTITUTIONS LICENSED AS A POLICE ACADEMY BY Texas Commission on Law Enforcement.***

Grade Basis: LP
Credit hours: 5.0
Lecture hours: 2.0
Lab hours: 9.0

CJLE 1524 - Basic Peace Officer IV

Basic preparation for a new peace officer. Should be taken in conjunction with Basic Peace Officer I, II, III, and V (supplement) to satisfy the Texas Commission on Law Enforcement approved Basic Peace Officer Training Academy. ***THIS COURSE MAY BE OFFERED ONLY BY INSTITUTIONS LICENSED AS A POLICE ACADEMY BY Texas Commission on Law Enforcement.***

Grade Basis: LP

Credit hours: 5.0

Lecture hours: 2.0

Lab hours: 9.0

CJSA - Safety Studies (WECM)

CJSA 1308 - Criminalistics I

Introduction to the field of criminalistics. Topics include the application of scientific and technical methods in the investigation of crime including location, identification, and handling of evidence for scientific analysis.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJSA 1312 - Crime in America

American crime problems in historical perspective; social and public policy factors affecting crimes; impact and crime trends; social characteristics of specific crime; prevention of crime. End-of-Course Outcomes: Explain the psychological, social, and economic impact of crime in society; and identify characteristics and prevention of major crimes. Cross Reference: This course is parallel to the Academic Course Guide Manual (ACGM) course, CRIJ 1307.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJSA 1313 - Court Systems and Practices

The judiciary in the criminal justice system; structure of the American court system; prosecution; right to counsel; pre-trial release; grand juries; adjudication process; types and rules of evidence, sentencing. End-of-Course Outcomes: Describe the American judiciary system and its structure; identify the roles of judicial officers; identify the trial processes from pretrial to sentencing; and interpret the role of evidence.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJSA 1322 - Introduction to Criminal Justice

History and philosophy of criminal justice and ethical considerations; crime defined; its nature and impact; overview of criminal justice system; law enforcement; prosecution and defense; trial process; corrections. End-of-Course Outcomes: Describe and explain the history, philosophy and ethical considerations of criminal justice; define the nature and impact of crime on society and how it is integrated in to the criminal justice system; distinguish between the civil and criminal courts; and interpret the relationship between the components of the criminal justice system.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJSA 1327 - Fundamentals of Criminal Law

A study of the nature of criminal law; philosophical and historical development; major definitions and concepts; classification of crime; elements of crimes and penalties using Texas statutes as illustrations; criminal responsibility. End-of-Course Outcomes: Explain the historical and philosophical development of the nature of criminal law; describe definitions and concepts of criminal law, classifications of crimes, the elements of offenses and penalties using Texas statutes as illustrations; and discuss criminal responsibilities as they apply to the criminal statutes.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJSA 1342 - Criminal Investigation

Investigative theory; collection and preservation of evidence; source of information; interview and interrogation; uses of forensic sciences; case and trial preparation. End-Of-Course Outcomes: Define the goals and objectives of criminal investigations; illustrate the use of forensic science for various statutory offenses; and organize the criminal case including field notes, reports, crime scene activities, and mandatory documentation of statutory warning.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJSA 1359 - Police Systems and Practices

The police profession; organization of law enforcement systems; the police role; police discretion; ethics; police-community interaction; current and future issues. End-Of-Course Outcomes: Explain the application of ethics, discretion, and sensitivity to the police profession; and describe the organization of law enforcement systems and its relationship to current and future issues.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJSA 1393 - Special Topics in Criminal Justice

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be multiple times to improve student proficiency.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJSA 2300 - Legal Aspects of law Enforcement

Police authority; responsibilities; constitutional constraints; laws of arrest, search, and seizure; police liability. End-Of-Course Outcomes: Define police authority, explain the responsibilities and constitutional restraints as enumerated in the Texas Constitution, United States Constitution, and Bill of Rights. Outline the law of arrest and search and seizure developed through court decisions and describe the criminal and civil liability that result from improper acts and/or the failure to act.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJSA 2323 - Criminalistics II

Theory and practice of crime scene investigation. Topics include report writing, blood and other body fluids, document examination, etchings, casts and molds, glass fractures, use of microscope, and firearms identification.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJSA 2334 - Contemporary Issues in Criminal Justice

A series of lectures and class participation exercises presenting selected topics currently confronting criminal justice personnel and the public they serve.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJSA 2338 - Internship in Criminal Justice

An experience external to the college for an advanced student in a specialized field involving a written agreement between the educational institution and a criminal justice agency. Mentored and supervised by a workplace employee, the student achieves objectives that are developed and documented by the college and that are directly related to specific occupational outcomes. This may be a paid or unpaid experience. This course may be repeated if topics and learning outcomes vary.

Grade Basis: L

Credit hours: 3.0

Restrictions:

- Instructor permission required to enroll
- 144 Lab hours required

COSC - Computer Science

COSC 1336 - Program Fundamentals I

Introduces the fundamental concepts of structured programming. Topics include software development methodology, data types, control structures, functions, arrays, and the mechanics of running, testing, and debugging. This course assumes computer literacy.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

CPMT - Computer Installation and Repair (WECM)

CPMT 1303 - Intro to Computer Technology

A fundamental computer course that provides explanation of the utilization of computer hardware and software with an emphasis on terminology, acronyms, and hands on activity.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

CPMT 1311 - Intro to Computer Maintenance

Introduction to the installation, configuration, and maintenance of a microcomputer system.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

CPMT 1345 - Computer Systems Maintenance

A study of the components within a computer system. Development of testing and troubleshooting skills.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- Course text is the CompTIA Network+ exam prep guide
-

CPMT 1349 - Computer Networking Technology

Networking fundamentals, terminology, hardware, software, and network architecture. Includes local and wide area networking concepts and networking installations and operations.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

CPMT 1391 - Special Topics in Computer Installation and Repair Technology/Technician

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

CPMT 2345 - Computer Systems Troubleshooting

Principles and practices involved in computer system troubleshooting techniques and repair procedures involving advanced diagnostic test programs and the use of specialized equipment.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Prerequisites:

- [CPMT 1345](#) - Computer Systems Maintenance
-

CPMT 2350 - Industry Certification Preparation

Overview of the objectives for industry specific certification exam(s).

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

CPMT 2388 - Internship - Computer Installation and Repair Technology/Technician.

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Grade Basis: L

Credit hours: 3.0

CPMT 2389 - Internship

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Grade Basis: L

Credit hours: 3.0

Prerequisites:

- [CPMT 2388](#) - Internship - Computer Installation and Repair Technology/Technician.
-

CPMT 2688 - Internship - Computer Installation and Repair Technology/Technician

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Grade Basis: L

Credit hours: 6.0

CRIJ - Criminal Justice

CRIJ 1301 - Introduction to Criminal Justice

This course provides a historical and philosophical overview of the American criminal justice system, including the nature, extent, and impact of crime; criminal law; and justice agencies and processes.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

CRIJ 1306 - Court Systems and Practices

This course is a study of the court system as it applies to the structures, procedures, practices and sources of law in American courts, using federal and Texas statutes and case law.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

CRIJ 1307 - Crime in America

American crime problems in historical perspective, social and public policy factors affecting crime, impact and crime trends, social characteristics of specific crimes, and prevention of crime.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

CRIJ 1310 - Fundamentals of Criminal Law

This course is the study of criminal law including application of definitions, statutory elements, defenses and penalties using Texas statutes, the Model Penal Code, and case law. The course also analyzes the philosophical and historical development of criminal law and criminal culpability.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

CRIJ 1313 - Juvenile Justice System

Study of juvenile justice process to include specialized juvenile law, role of the juvenile law, role of the juvenile courts, role of police agencies, role of correctional agencies, and theories concerning delinquency.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

CRIJ 2301 - Community Resources in Corrections

An introductory study of the role of the community in corrections; community programs for adults and juveniles; administration of community programs; legal issues; future trends in community treatment.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

CRIJ 2313 - Correctional Systems and Practices

This course is a survey of institutional and noninstitutional corrections. Emphasis will be placed on the organization and operation of correctional systems; treatment and rehabilitation; populations served; Constitutional issues; and current and future issues.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CRIJ 2314 - Criminal Investigation

Investigative theory, collection and preservation of evidence, sources of information, interview and interrogation, uses of forensic sciences, case and trial preparation.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CRIJ 2323 - Legal Aspects of Law Enforcement

Police authority, responsibilities, constitutional restraints, laws of arrest, search and seizure, and police liability.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CRIJ 2328 - Police Systems and Practices

This course examines the establishment, role and function of police in a democratic society. It will focus on types of police agencies and their organizational structure, police-community interaction, police ethics, and use of authority.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CSME - Cosmetology (WECM)

CSME 1310 - Introduction to Haircutting and Related Theory

Introduction to the theory and practice of hair cutting. Topics include terminology, implements, section haircutting and finishing techniques.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

CSME 1348 - Principles of Skin Care

An introduction of the theory and practice of skin care.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Prerequisites:

- [CSME 1521](#) - Principles of Facial/Esthetics Technology
-

CSME 1521 - Principles of Facial/Esthetics Technology

An introduction to the principles of facial/esthetic technology. Topics include anatomy, physiology, theory, and related skills of facial/esthetic technology

Grade Basis: L

Credit hours: 5.0

Lecture hours: 3.0

Lab hours: 8.0

Prerequisites:

- [CSME 1348](#) - Principles of Skin Care
-

CSME 1401 - Orientation to Cosmetology

An overview of the skills and knowledge necessary for the field of cosmetology. Corequisite: CSME 1405, Fundamentals of Cosmetology

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 4.0

Prerequisites:

- [CSME 1405](#) - Fundamentals of Cosmetology
-

CSME 1405 - Fundamentals of Cosmetology

A course in the basic fundamentals of cosmetology. Topics include service preparation, manicure, facial, chemical services, shampoo, haircut, wet styling and comb outs

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 5.0

Prerequisites:

- [CSME 1401](#) - Orientation to Cosmetology
-

CSME 1431 - Principles of Nail Technology I

A course in the principles of nail technology. Topics include anatomy, physiology, theory, and skills related to nail technology.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 8.0

Prerequisites:

- [CSME 1430](#) - Orientation to Nail Technology
-

CSME 1430 - Orientation to Nail Technology

An overview of the fundamental skills and knowledge necessary for the field of nail technology

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 8.0

Prerequisites:

- [CSME 1431](#) - Principles of Nail Technology I
-

CSME 1434 - Cosmetology Instructor I

The fundamentals of instructing cosmetology

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 4.0

Prerequisites:

- [CSME 1430](#) - Orientation to Nail Technology

Restrictions:

- Valid Texas Cosmetology Commission License
 - High School Diploma or GED
-

CSME 1441 - Principles of Nail Technology II

A continuation of the concepts and principles of nail technology. Topics include advanced instruction in anatomy, physiology, theory, and related skills of nail technology.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 8.0

Prerequisites:

- [CSME 1430](#) - Orientation to Nail Technology
-

CSME 1443 - Manicuring and Related Theory

Presentation of the theory and practice of nail technology. Topics include terminology, application, and workplace competencies related to nail technology

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 5.0

Prerequisites:

- [CSME 1401](#) - Orientation to Cosmetology
-

CSME 1447 - Principles of Skin Care/Facials and Related Theory

In-depth coverage of the theory and practice of skin care, facials and cosmetics.

Grade Basis: L

Credit hours: 5.0

Lecture hours: 2.0

Lab hours: 5.0

Prerequisites:

- [CSME 1401](#) - Orientation to Cosmetology
-

CSME 1451 - Artistry of Hair, Theory and Practice

Instruction in the artistry of hair design. Topics include theory, techniques and application of hair design.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 4.0

Prerequisites:

- [CSME 1401](#) - Orientation to Cosmetology
-

CSME 1453 - Chemical Reformation and Related Theory

Presentation of the theory and practice of chemical reformation. Topics include terminology, application and workplace competencies related to chemical reformation.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 5.0

Prerequisites:

- [CSME 1401](#) - Orientation to Cosmetology
-

CSME 1535 - Orientation to the Instruction of Cosmetology

An overview of the skills and knowledge necessary for the instruction of cosmetology students

Grade Basis: L

Credit hours: 5.0

Lecture hours: 2.0

Lab hours: 9.0

Restrictions:

- Valid Texas Cosmetology Commission License
 - High School Diploma or GED
-

CSME 1545 - Principles of Facial/Esthetics Technology II

A continuation of the concepts and principles in skincare and other related technologies. Topics include advanced instruction in anatomy, physiology, theory, and related skills of facial/esthetic technology

Grade Basis: L

Credit hours: 5.0

Lecture hours: 3.0

Lab hours: 8.0

CSME 1547 - Principles of Skin Care/Facials & Related Theory

In-depth coverage of the theory and practice of skin care, facials, and cosmetics

Grade Basis: L

Credit hours: 5.0

Lecture hours: 3.0

Lab hours: 8.0

CSME 2343 - Salon Development

Exploration of salon development. Topics include professional ethics and goals, salon operations and record keeping.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

CSME 2401 - The Principles of Hair Coloring and Related Theory

Presentation of the theory and practice of hair color and chemistry. Topics include terminology, application, and workplace competencies related to hair color and chemistry

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

Prerequisites:

- [CSME 1401](#) - Orientation to Cosmetology
-

CSME 2414 - Cosmetology Instructor II

A continuation of the fundamentals of instructing cosmetology students.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 5.0

Restrictions:

- Valid Texas Cosmetology Commission License
 - High School Diploma or GED
-

CSME 2431 - Principles of Facials/Esthetics Technology III

Demonstrate professional ethics, salon management, and develop client relations and related skills in preparation for the Texas Cosmetology Commission examination.

Grade Basis: L

Credit hours: 5.0

Lecture hours: 3.0

Lab hours: 8.0

CSME 1410 - Introduction to Haircutting and Related Theory

Introduction to the theory and practice of hair cutting. Topics include terminology, implements, sectioning and finishing techniques.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 4.0

CSME 2501 - The Principles of Hair Coloring and Related Theory

Presentation of the theory, practice, and chemistry of hair color. Topics include terminology, application, and workplace competencies related to hair color.

Grade Basis: L

Credit hours: 5.0

Lecture hours: 3.0

Lab hours: 5.0

DFTG - Design Technology (WECM)

DFTG 1425 - Blueprint Reading and Sketching

An introduction to reading and interpreting working drawings for fabrication processes and associated trades. Topics to include welding drawing, HVAC, electrical and architectural/construction.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 4.0

Lab hours: 1.0

DFTG 1309 - Basic Computer-Aided Drafting

An introduction to computer-aided drafting. Emphasis is placed on setup; creating and modifying geometry; storing and retrieving predefined shapes; placing, rotating, and scaling objects, adding text and dimensions, using layers, coordinate systems, and plot/print to scale.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

DFTG 1317 - Architectural Drafting – Residential

Architectural drafting procedures, practices, terms, and symbols. Preparation of detailed working drawings for residential structures. Emphasis on light frame construction methods

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

DFTG 1405 - Technical Drafting

Introduction to the principles of drafting to include terminology and fundamentals, including size and shape descriptions, projection methods, geometric construction, sections, and auxiliary views.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 3.0

DFTG 1433 - Mechanical Drafting

Study of mechanical drawings using dimensioning and tolerances, sectioning techniques, orthographic projection, and pictorial drawings.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 3.0

Prerequisites:

- [DFTG 1309](#) - Basic Computer-Aided Drafting
 - [DFTG 1405](#) - Technical Drafting
-

DFTG 1445 - Parametric Modeling and Design

Parametric-based design software for 3D design and drafting.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 3.0

Prerequisites:

- [DFTG 2419](#) - Intermediate Computer-Aided Drafting

Restrictions:

- DFTG 2419 or consent of instructor
-

DFTG 2331 - Advanced Technologies in Architectural Design and Drafting

Use of architectural specific software to execute the elements required in designing standard architectural; exhibits utilizing custom features to create walls, windows and specific design requirements for construction in residential/commercial and industrial architecture.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Prerequisites:

- [DFTG 1309](#) - Basic Computer-Aided Drafting

Restrictions:

- DFTG 1309 or consent of instructor
-

DFTG 2402 - Machine Drafting

Production of detail and assembly drawings of machines, threads, gears, utilizing tolerances, limit dimensioning and surface finishes.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 3.0

Prerequisites:

- [DFTG 1433](#) - Mechanical Drafting
 - [DFTG 2419](#) - Intermediate Computer-Aided Drafting
-

DFTG 2430 - Civil Drafting

An in-depth study of drafting methods and principles used in civil engineering.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 3.0

Prerequisites:

- [DFTG 1309](#) - Basic Computer-Aided Drafting
 - [DFTG 1405](#) - Technical Drafting
-

DFTG 2419 - Intermediate Computer-Aided Drafting

A continuation of practices and techniques used in basic computer-aided drafting including the development and use of prototype drawings, construction of pictorial drawings, extracting data and basics of 3D.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 3.0

Prerequisites:

- [DFTG 1309](#) - Basic Computer-Aided Drafting
-

DFTG 2438 - Final Project – Advanced Drafting

A drafting course in which students participate in a comprehensive project from conception to conclusion. • Identify Problems • Use industry standard research techniques. • Create complete drawing packages

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 2.0

Prerequisites:

- [DFTG 2402](#) - Machine Drafting
-

DFTG 2440 - Solid Modeling/Design

A computer-aided modeling course. Development of three-dimensional drawings and models from engineering sketches and orthographic drawings and utilization of three-dimensional models in design work.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 3.0

Prerequisites:

- [DFTG 2402](#) - Machine Drafting
-

DFTG 2450 - Geometric Dimensioning and Tolerancing

Geometric dimensioning and tolerancing, according to standards, application of various geometric dimensions and tolerances to production drawings.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 4.0

Lab hours: 1.0

Prerequisites:

- [DFTG 2402](#) - Machine Drafting
-

DFTG 2486 - Internship – Drafting and Design Technology/Technician, General.

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Grade Basis: L

Credit hours: 4.0

Restrictions:

- This is a 20 hour per week internship program
- Consent of Professor

DNTA - Dental Assisting (WECM)

DNTA 1251 - Dental Office Management

Demonstrate telephone management, schedule appointments, receive payments for dental services, complete third party reimbursement forms, manage inventory, enter data for charges and payments, manage patient records, manage recall systems, comply with federal and state guidelines regarding healthcare providers and operate basic business equipment.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 2.0

Restrictions:

- Prerequisites: DNTA 1245, 1305, 1311, 1315, 1202, 1301
 - Program specific prerequisite requirements are listed on the program website.
 - Concurrent enrollment in DNTA 1349, 1347, 1353, 2230, and 1460 is required.
-

DNTA 1301 - Dental Materials

Composition, properties, procedures and safety standards related to dental materials. A grade of C or better is required for progression.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Restrictions:

- Concurrent enrollment in DNTA 1245, 1305, 1311, 1315 and 1202 is required.
 - Program specific prerequisite requirements are listed on the program website.
-

DNTA 1305 - Dental Radiology I

Introduction to radiation physics, protection, the operation of radiographic equipment, exposure, processing and mounting of dental radiographs. Specific federal and state safety and standard practices for the classroom and lab settings will be practiced. A grade of C or better is required for progression.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Restrictions:

- Concurrent enrollment in DNTA 1245, 1311, 1315, 1202 and 1301 is required.
 - Program specific prerequisite requirements are listed on the program website.
-

DNTA 1311 - Dental Science

A fundamental study of anatomical systems with emphasis placed on head and neck anatomy. Topics include embryology of the teeth along with basic dental terminology. A grade of C or better is required for progression.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Program specific prerequisite requirements are listed on the program website.
 - Concurrent enrollment in DNTA 1245, 1305, 1315, 1202 and 1301 is required.
-

DNTA 1315 - Chairside Assisting

A study of pre-clinical chairside assisting procedures, instrumentation, OSHA and other regulatory agencies' standards. A grade of C or better is required for progression.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Restrictions:

- Program specific prerequisite requirements are listed on the program website.
 - Concurrent enrollment in DNTA 1245, 1305, 1311, 1202 and 1301 is required.
-

DNTA 1245 - Preventive Dentistry

The study and prevention of dental diseases and community dental health. A grade of "C" or better is required for progression.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 2.0

Restrictions:

- Concurrent enrollment in DNTA 1305, 1311, 1315, 1202 and 1301 is required.
 - Program specific prerequisite requirements are listed on the program website.
-

DNTA 1347 - Advanced Dental Science

An advanced study of anatomical systems, pharmacology, or pathology, and developmental abnormalities. A grade of C or better is required to progress.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Prerequisites: DNTA 1245, 1305, 1311, 1315, 1202, 1301
 - Concurrent enrollment in DNTA 1251, 1349, 1353, 2230 and 1460 is required.
-

DNTA 1349 - Dental Radiology in the Clinic

The practical application of exposing, processing and mounting diagnostically acceptable radiographs obtained by utilizing various radiographic techniques. This course will encompass critical evaluation of all procedures. A grade of C or better is required for progression

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 4.0

Restrictions:

- Concurrent enrollment in DNTA 1251, 1347, 1353, 2230 and 1460 is required.
 - Prerequisites: DNTA 1202, 1245, 1301, 1305, 1311, 1315
 - Must be taken in sequence as listed in degree plan.
-

DNTA 2230 - Seminar for the Dental Assistant I

Analysis of case studies during the clinical phase of practicum/clinical. A grade of C or better is required to progress.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Restrictions:

- Concurrent enrollment in DNTA 1251, 1349, 1347, 1353, and 1460 is required.
 - Prerequisites: DNTA 1202, 1245, 1301, 1305, 1311, 1315
-

DNTA 1353 - Dental Assisting Applications

An expanded study of dental assisting techniques with emphasis on four-handed dentistry and utilization of armamentarium for general practice and specialty procedures. A grade of C or better is required to progress.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Restrictions:

- Concurrent enrollment in DNTA 1251, 1349, 1347, 2230 and 1460 is required.
 - Prerequisites: DNTA 1202, 1245, 1301, 1305, 1311, 1315
-

DNTA 1460 - Clinical-Dental Assisting / Assistant

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. A grade of C or better is required for progression

Grade Basis: L

Credit hours: 4.0

Lab hours: 16.0

Restrictions:

- Concurrent enrollment in DNTA 1251, 1349, 1347, 1353, and 2230 is required.
 - Prerequisites: DNTA 1202, 1245, 1301, 1305, 1311, 1315
-

DNTA 2260 - Clinical-Dental Assisting / Assistant

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Grade Basis: L

Credit hours: 2.0

Lab hours: 6.0

Restrictions:

- Prerequisites: DNTA 1202, 1245, 1251, 1301, 1305, 1311, 1315, 1347, 1349, 1353, 1460, 2230
-

DNTA 1202 - Communication and Behavior in the Dental Office

The study of interaction and communication in the dental office. A grade of "C" or better is required for progression.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Restrictions:

- Concurrent enrollment in DNTA 1301, 1315, 1311, 1305 and 1245 is required.
- Program specific prerequisite requirements are listed on the program website.

DRAM - Drama

DRAM 1120 - Theatre Practicum

Laboratory course for extensive participation in theatre activities including use of scenery, lighting, properties, and other facets of technical theatre. May be repeated one time for credit. To be taken concurrently with DRAM 1330.

Grade Basis: L

Credit hours: 1.0

Lab hours: 4.0

Corequisites:

- [DRAM 1330](#) - Stagecraft I

Restrictions:

- May be repeated one time for credit.
 - To be taken concurrently with DRAM 1330.
-

DRAM 1121 - Theatre Practicum II

Practicum in theater open to all students with an emphasis on technique and procedures with experience gained in play productions. Lab to be taken concurrently with DRAM 1351. May be repeated one time for credit.

Grade Basis: L

Credit hours: 1.0

Lab hours: 4.0

Corequisites:

- [DRAM 1351](#) - Acting I

Restrictions:

- May be repeated one time for credit.
 - Lab to be taken concurrently with DRAM 1351.
-

DRAM 1310 - Theater Appreciation

Survey of theater including its history, dramatic works, stage techniques, production procedures, and relation to other art forms. Participation in productions may be required. Designed as a humanities requirement for theatre and non-theatre majors.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

DRAM 1330 - Stagecraft I

Study and application of the methods and components of theatrical production that may include one or more of the following: theater facilities, scenery construction and painting, properties, lighting, costume, makeup, sound, and theatrical management.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 3.0

Corequisites:

- [DRAM 1120](#) - Theatre Practicum

Restrictions:

- Must also enroll in DRAM 1120
-

DRAM 1341 - Stage Makeup

Design and execution of makeup for the purpose of developing believable characters. Includes discussion of basic makeup principles and practical experience of makeup application.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 3.0

DRAM 1351 - Acting I

An introduction to the fundamental principles and tools of acting as used in auditions, rehearsals, and performances. This may include ensemble performing, character and script analysis, and basic theater terminology. This exploration will emphasize the development of the actor's instrument: voice, body and imagination. (R)

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 3.0

DRAM 1352 - Acting II

Exploration and further training within the basic principles and tools of acting, including an emphasis on critical analysis of oneself and others. The tools include ensemble performing, character and script analysis, and basic theater terminology. This will continue the exploration of the development of the actor's instrument: voice, body and imagination. (R)

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 3.0

DRAM 2120 - Theatre Practicum III

Practicum in theater open to all students with emphasis on technique and procedures with experience gained in play productions.

Grade Basis: L

Credit hours: 1.0

Lab hours: 4.0

Restrictions:

- Open to students who have already taken two semesters of DRAM 1120. Laboratory course for extensive participation in theatre activities including use of scenery, lighting, properties, and other facets of technical theatre. May be repeated one time for credit.
-

DRAM 2121 - Theatre Practicum IV

Practicum in theater open to all students with an emphasis on technique and procedures with experience gained in play productions. May be repeated one time for credit. Lab to be taken concurrently DRAM 1352

Grade Basis: L

Credit hours: 1.0

Lab hours: 4.0

Corequisites:

- [DRAM 1352](#) - Acting II

Restrictions:

- May be repeated one time for credit.
 - Lab to be taken concurrently DRAM 1352
-

DRAM 2331 - Stagecraft II

Continued study and application of the methods and components of theatrical production that may include one or more of the following: theater facilities, scenery construction and painting, properties, lighting, costume, makeup, sound and theatrical management.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 3.0

Corequisites:

- [DRAM 1120](#) - Theatre Practicum

Restrictions:

- Must also enroll in DRAM 1120.
-

DRAM 2389 - Academic Cooperative

An instructional program designed to integrate on-campus study with practical hands-on work experience. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of drama.

Grade Basis: L

DRAM 2355 - Script Analysis

Examination of foundational skills for understanding the structure and content of play scripts for interpretation and conceptualization in theater productions by directors, designers, actors, and technicians. Introduces students to significant plays in the history of dramatic literature in the playwright's social and cultural context.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

DRAM 1322 - Stage Movement

Principles, practices, and exercises in awareness, relaxation, freedom, flexibility, and expressiveness in the actor's physical instrument.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

DRAM 2336 - Voice for the Actor

Principles, practices, and exercises in awareness, relaxation, freedom, flexibility, and expressiveness in the actor's vocal instrument

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

ECON - Economics

ECON 2301 - Principles of Macroeconomics

An analysis of the economy as a whole including measurement and determination of Aggregate Demand and Aggregate Supply, national income, inflation, and unemployment. Other topics include international trade, economic growth, business cycles, and fiscal policy and monetary policy

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- sophomore standing or consent of division dean.
-

ECON 2302 - Principles of Microeconomics

Analysis of the behavior of individual economic agents, including consumer behavior and demand, producer behavior and supply, price and output decisions by firms under various market structures, factor markets, market failures, and international trade.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- sophomore standing or consent of division dean.
-

ECON 2389 - Academic Cooperative

An instructional program designed to integrate on-campus study with practical hands-on experience in economics. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of human social behavior and/or social institutions

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

EDUC - Education

EDUC 1300 - Learning Frameworks

A study of the 1 research and theory in the psychology of learning, cognition, and motivation, 2 factors that impact learning, and 3 application of learning strategies. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for the introduction of college-level student academic strategies. Students use assessment instruments e.g., learning inventories to help them identify their own strengths and weaknesses as strategic learners. Students are ultimately expected to integrate and apply the learning skills discussed across their own academic programs and become effective and efficient learners. Students developing these skills should be able to continually draw from the theoretical models they have learned. Cross-listed as PSYC 1300. Only one of the cross-listed courses can be taken for credit. R

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

EDUC 1301 - Introduction to the Teaching Profession

An enriched, integrated pre-service course and content experience that: (1) provides active recruitment and institutional support of students interested in a teaching career, especially in high need fields; (2) provides students with opportunities to participate in early field observations at all levels of P-12 schools with varied and diverse student populations; (3) provides students with support from college and school faculty, preferably in small cohort groups, for the purpose of introduction to and analysis of the culture of schooling and classrooms; (4) course content should be aligned as applicable with State Board for Educator Certification Pedagogy and Professional Responsibilities standards. Course includes 16 hours of field experience which must be in P-12 classrooms in public schools.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- Students must have met TSI Reading & Writing requirements prior to enrolling
-

EDUC 2301 - Introduction to Special Populations

An enriched, integrated pre-service course and content experience that: (1) provides an overview of schooling and classrooms from the perspectives of language, gender, socioeconomic status, ethnic and academic diversity, and equity with an emphasis on factors that facilitate learning; (2) provides students with opportunities to participate in early field observations of P-12 special populations; (3) course content should be aligned as applicable with State Board for Educator Certification Pedagogy and Professional Responsibilities standards. Sixteen hours of field experience which must be with special populations in P-12 classrooms with special populations.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

EECT - Electrical, Electronic and Communications Technology (WECM)

EECT 1407 - Convergent Technologies

A study of telecommunications convergence technologies including telephone, LAN, WAN, wireless, voice, video, and internet protocol.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 2.0

ELPT - Electrical and Power Transmission Installation (WECM)

ELPT 2337 - Electrical Planning and Estimating

Planning and estimating for residential, commercial, and industrial wiring systems. Includes a variety of electrical techniques. List estimating procedures; formulate material and labor costs; identify types of bids; calculate cost adjustments and job costs; and demonstrate the use of estimating forms.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ELPT 1221 - Introduction to Electrical Safety and Tools

This course covers safety rules and regulations. Includes the selection, inspection, use and maintenance of common tools for electricians.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Lab hours: 1.0

ELPT 1325 - National Electric Code I

This is an introductory study of the National Electric Code (NEC) for those employed in the field requiring knowledge of the Code. Emphasis will be on wiring design, protection, methods, and materials; and equipment for general use, and basic calculations.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

ELPT 1329 - Residential Wiring

Wiring methods for single family and multi-family dwellings. Includes load calculations, service entrance sizing, proper grounding techniques, and associated safety procedures.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

ELPT 1341 - Motor Control

Operating principles of solid-state and conventional controls along with their practical applications. Includes braking, jogging, plugging, safety interlocks, wiring, and schematic diagram interpretations. Identify practical applications of jogging and plugging; describe the types of motor braking and their operating principles; explain different starting methods for large motors; and demonstrate proper troubleshooting methods on circuits using wiring and schematic diagrams

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

ELPT 2164 - Practicum Electrical & Power Transmission

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student

Grade Basis: L

Credit hours: 1.0

Restrictions:

- Requires 8 lab hours
-

ELPT 2305 - Motors and Transformers.

This course focuses on the operation of single- and three-phase motors and transformers. It includes transformer banking, power factor correction, and protective devices. Also included are lessons on three-phase power concepts, transformer and motor connections, transformer and motor metering, and transformer and motor troubleshooting theory

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 3.0

ELPT 2343 - Electrical Systems Design

This is a course in electrical design of commercial and/or industrial projects, including building layout, types of equipment, placement, sizing of electrical equipment, and all electrical calculations according to the requirements of the National Electrical Code (NEC).

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

ELPT 1345 - Commercial Wiring

Commercial wiring methods. Includes overcurrent protection, raceway panel board installation, proper grounding techniques, and associated safety procedures. Interpret electrical blueprints/drawings; compute the circuit sizes and overcurrent protection needed for the installation of branch circuits, feeders, and service entrance conductors; explain the proper installation of wiring devices according to the National Electrical Code (NEC) and local electrical codes; demonstrate grounding methods; identify commercial wiring methods including conduit bending; and demonstrate proper safety procedures.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

ELPT 1291 - Special Topics in Electrical and Power Transmission

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Lab hours: 1.0

ELPT 1311 - Basic Electrical Theory

Basic theory and practice of electrical circuits. Includes calculations as applied to alternating and direct current.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 2.0

ELPT 1441 - Motor Control

Operating principles of solid-state and conventional controls along with their practical applications. Includes braking, jogging, plugging, safety interlocks, wiring, and schematic diagram interpretations.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 2.0

ELPT 2319 - Programmable Logic Controllers I

Fundamental concepts of programmable logic controllers, principles of operation and numbering systems as applied to electrical controls.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

ELTN - Electrician (WECM)

ELTN 1343 - Electrical Troubleshooting

Maintenance, operation, troubleshooting, and repair of circuits of various residential, commercial, and industrial electrical systems.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

ELTN 1391 - Special Topics in Electrician and Power Transmission

Topics address recently identified current events, skills, knowledge, and-or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. The course was designed to be repeated multiple times to improve student proficiency.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

EMSP - Emergency Medical Technology (WECM)

EMSP 1149 - Trauma Life Support

Theory and skills necessary for the management of trauma emergencies. The student will manage a trauma patient in accordance with the requirements of the National Association of EMTs (NAEMT) Prehospital Trauma Life Support (PHTLS) guidelines.

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

Restrictions:

- Acceptance into the Paramedic Program.
-

EMSP 1161 - Clinical-Emergency Medical Technology/Technician

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. As outlined in the learning plan, the student will apply the theory, concepts and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry, and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry.

Grade Basis: P

Credit hours: 1.0

Lab hours: 6.0

Restrictions:

- Acceptance into the Paramedic program.
-

EMSP 1355 - Trauma Management

Knowledge and skills in the assessment and management of patients with traumatic injuries. The student will integrate the pathophysiological assessment findings to formulate a field impression; implement the treatment plan for the trauma patient; and integrate multiple determinants of trauma conditions into clinical care.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- Acceptance into the Paramedic program.
-

EMSP 1438 - Introduction to Advanced Practice

Fundamental elements associated with emergency medical services to include preparatory practices, pathophysiology, medication administration, and related topics. The student will describe the roles and responsibilities of advanced EMS personnel within the EMS system; apply concept of pathophysiology and pharmacology to the assessment and management of emergency patients; administer medications; employ effective communication; interpret medical/legal issues; demonstrate ethical behaviors; and discuss well-being of the paramedic

Grade Basis: L

Credit hours: 4.0

Lecture hours: 4.0

Lab hours: 1.0

Restrictions:

- Acceptance into the Paramedic program.
-

EMSP 1356 - Patient Assessment and Airway Management

Knowledge and skills required to perform patient assessment, airway management, and artificial ventilation. The student will perform a history and comprehensive physical exam on various patient populations; establish and/or maintain a patent airway; and demonstrate oxygenation and ventilation of a patient; differentiate respiratory distress, failure and arrest; and interpret results of monitoring devices.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- Acceptance into the Paramedic program.
-

EMSP 1501 - Emergency Medical Technician

This course is preparation for Certification as an Emergency Medical Technician (EMT) - Basic. The student will develop proficiency in cognitive, psychomotor and affective domains for the EMT in accordance with the current Emergency Medical Services guidelines.

Grade Basis: L

Credit hours: 5.0

Lecture hours: 4.0

Lab hours: 4.0

Restrictions:

- Pre-entrance physical exam and health statement, documentation of required immunizations, pass drug screen, pass criminal background check, documentation of CPR for Healthcare Providers from American Heart Association or Red Cross.
 - Concurrent enrollment in EMSP 2305 and 1460 is required.
-

EMSP 2305 - EMS Operations

Knowledge and skills to safely manage multi-casualty incidents and rescue situations; utilize air medical resources; identify hazardous materials and other specialized incidents.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Pre-entrance physical exam and health statement, documentation of required immunizations, pass drug screen, pass criminal background check, documentation of CPR for Healthcare Providers from American Heart Association or Red Cross.
 - Concurrent enrollment in EMSP 1501 and 1460 are required.
-

EMSP 2137 - Emergency Procedures

Application of emergency procedures. The student will integrate theory and skills mastered in other courses; and demonstrate comprehensive problem-solving techniques.

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- Acceptance into the Paramedic program.
-

EMSP 2143 - Assessment Based Management

A Capstone course covering comprehensive, assessment based patient care management. Includes specific care when dealing with pediatric, geriatric, and special-needs patients. The student will integrate pathophysiological principles and assessment findings to formulate a field impression; and implement a treatment plan.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Restrictions:

- Acceptance into the Paramedic program.
-

EMSP 2563 - Clinical-Emergency Medical Technology/Technician

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. As outlined in the learning plan, the student will apply the theory, concepts and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry, and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry.

Grade Basis: P

Credit hours: 5.0

Lab hours: 18.0

Restrictions:

- Acceptance into the Paramedic program.
-

EMSP 2544 - Cardiology

Assessment and management of patients with cardiac emergencies. Includes single and multi-lead ECG interpretation. The student will integrate the pathophysiological principles and assessment findings to formulate a field impression; and implement a treatment plan for the cardiac patient.

Grade Basis: L

Credit hours: 5.0

Lecture hours: 4.0

Lab hours: 3.0

Restrictions:

- Acceptance into the Paramedic program.
-

EMSP 2434 - Medical Emergencies

Knowledge and skills in the assessment and management of patients with medical emergencies, including medical overview, neurology, gastroenterology, immunology, pulmonology, urology, hematology, endocrinology, toxicology, and other related topics. The student will integrate pathophysiology assessment finding to formulate a field impression; implement a treatment plan for the medical patient; and integrate multiple determinants of medical condition into clinical care.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 4.0

Lab hours: 1.0

Restrictions:

- Acceptance into the Paramedic program.
-

EMSP 2330 - Special Populations

Knowledge and skills necessary to assess and manage ill or injured patients in diverse populations to include neonatology, pediatrics, geriatrics, and other related topics. The student will integrate pathophysiology assessment findings to formulate a field impression, implement a treatment plan for diverse patients of special populations; and integrate multiple determinants of such conditions into clinical care.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- Acceptance into the Paramedic program.
-

EMSP 2206 - Emergency Pharmacology

A study of drug classifications, actions, therapeutic uses, adverse effects, routes of administration, and calculation of dosages. The student will utilize knowledge of pharmacological concepts to demonstrate safe administration of medications in emergency settings.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Lab hours: 1.0

Restrictions:

- Acceptance into the Paramedic program.
-

EMSP 2237 - Emergency Procedures

Application of emergency procedures. The student will integrate theory and skills mastered in other courses; and demonstrate comprehensive problem-solving techniques.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 2.0

Restrictions:

- Acceptance into the Paramedic program.
-

EMSP 2162 - Clinical-Emergency Medical Technology/Technician

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. As outlined in the learning plan, the student will apply the theory, concepts and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry, and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry.

Grade Basis: P

Credit hours: 1.0

Lab hours: 6.0

Restrictions:

- Acceptance into the Paramedic program.
-

EMSP 1460 - Clinical Emergency Medical Technology/Technician

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Grade Basis: P

Credit hours: 4.0

Lab hours: 24.0

Restrictions:

- Pre-entrance physical exam and health statement, documentation of required immunizations, pass drug screen, pass criminal background check, documentation of CPR for Healthcare Providers from American Heart Association or Red Cross.
- Must be taken in sequence as listed in degree plan.
- Concurrent enroll in EMSP 2305 and 1501 is required.

ENGL - English

ENGL 1301 - Composition I

Intensive study of and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis on effective rhetorical choices, including audience, purpose, arrangement, and style. Focus on writing the academic essay as a vehicle for learning, communicating, and critical analysis.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- The course requires a lab component
 - College readiness in reading and writing required.
-

ENGL 1302 - Composition II

Intensive study of and practice in the strategies and techniques for developing research-based expository and persuasive texts. Emphasis on effective and ethical rhetorical inquiry, including primary and secondary research methods; critical reading of verbal, visual, and multimedia texts; systematic evaluation, synthesis, and documentation of information sources; and critical thinking about evidence and conclusions.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Prerequisites:

- [ENGL 1301](#) - Composition I

Restrictions:

- The course requires a lab component
-

ENGL 2311 - Technical and Business Writing

Intensive study of and practice in professional settings. Focus on the types of documents necessary to make decisions and take action on the job, such as proposals, reports, instructions, policies and procedures, e-mail messages, letters, and descriptions of products and services. Practice individual and collaborative processes involved in the creation of ethical and efficient documents.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [ENGL 1301](#) - Composition I
-

ENGL 2322 - British Literature I

A survey of the development of British literature from the Anglo-Saxon period to the Eighteenth Century. Students will study works of prose, poetry, drama, and fiction in relation to their historical, linguistic, and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [ENGL 1301](#) - Composition I
-

ENGL 2323 - British Literature II

A survey of the development of British literature from the Romantic period to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [ENGL 1301](#) - Composition I
-

ENGL 2327 - American Literature I

A survey of American literature from the period of exploration and settlement through the Civil War. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from among a diverse group of authors for what they reflect and reveal about the evolving American experience and character.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [ENGL 1301](#) - Composition I
-

ENGL 2328 - American Literature II

A survey of American literature from the Civil War to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from among a diverse group of authors for what they reflect and reveal about the evolving American experience and character.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [ENGL 1301](#) - Composition I
-

ENGL 2332 - World Literature I

A survey of world literature from the ancient world through the sixteenth century. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [ENGL 1301](#) - Composition I
-

ENGL 2333 - World Literature II

A survey of world literature from the seventeenth century to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [ENGL 1301](#) - Composition I
-

ENGL 2341 - Forms of Literature

The study of one or more literary genres including, but not limited to, poetry, fiction, drama and film.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

ENGL 2351 - Mexican-American Literature

A survey of Mexican American/Chicanx literature from Mesoamerica to the present. Students will study literary works of fiction, poetry, drama, essays, and memoirs in relation to their historical, linguistic, political, regional, gendered, and cultural contexts. Texts will be selected from a diverse group of authors, literary movements, and media forms. Topics and themes may include the literary performance of identity and culture, aesthetic mediation of racialization, struggle and protest, and artistic activism.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [ENGL 1301](#) - Composition I

ENGR - Engineering

ENGR 1201 - Introduction to Engineering

This is an introduction to the engineering profession with emphasis on technical communication and team-based engineering design.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 3.0

ENGR 2301 - Engineering Mechanics – Statics

Basic theory of engineering mechanics, using calculus, involving the description of forces, moments, and couples acting on stationary engineering structures; equilibrium in two and three dimensions; free-body diagrams; friction; centroids; centers of gravity; and moments of inertia.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [PHYS 2125](#) - University Physics Laboratory I
- [PHYS 2325](#) - University Physics I

Corequisites:

- [MATH 2414](#) - Calculus II

Restrictions:

- A grade of C or better must be earned to progress to an ENGR course that uses this course as a prerequisite.
-

ENGR 2302 - Engineering Mechanics - Dynamics

Basic theory of engineering mechanics, using calculus, involving the motion of particles, rigid bodies, and systems of particles; Newton's Laws; work and energy relationships; principles of impulse and momentum; application of kinetics and kinematics to the solution of engineering problems.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [ENGR 2301](#) - Engineering Mechanics – Statics
-

ENGR 1304 - Engineering Graphics I

Introduction to computer-aided drafting using CAD software and sketching to generate two- and three-dimensional drawings based on the conventions of engineering graphical communication; topics include spatial relationships, multi-view projections and sectioning, dimensioning, graphical presentation of data, and fundamentals of computer graphics.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Restrictions:

- Prerequisite: MATH 1314 - College Algebra or equivalent academic preparation.
-

ENGR 2105 - Electrical Circuits 1 Lab

Laboratory experiments supporting theoretical principles presented in ENGR 2305 involving DC and AC circuit theory, network theorems, time, and frequency domain circuit analysis. Introduction to principles and operation of basic laboratory equipment; laboratory report preparation. Co-requisite: ENGR 2305

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Corequisites:

- [ENGR 2305](#) - Electrical Circuits I
-

ENGR 2305 - Electrical Circuits I

Principles of electrical circuits and systems. Basic circuit elements resistance, inductance, mutual inductance, capacitance, independent and dependent controlled voltage, and current sources. Topology of electrical networks; Kirchhoff's laws; node and mesh analysis; DC circuit analysis; operational amplifiers; transient and sinusoidal steady-state analysis; AC circuit analysis; first- and second-order circuits; Bode plots; and use of computer simulation software to solve circuit problems.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [MATH 2414](#) - Calculus II
- [PHYS 2125](#) - University Physics Laboratory I
- [PHYS 2325](#) - University Physics I

Corequisites:

- [MATH 2320](#) - Differential Equations
-

ENGR 2332 - Mechanics of Materials

Stresses, deformations, stress-strain relationships, torsions, beams, shafts, columns, elastic deflections in beams, combined loading, and combined stresses.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Prerequisites:

- [ENGR 2301](#) - Engineering Mechanics – Statics

ESOL - English for Speakers of other Languages

ESOL 0340 - Beginning Writing for Non-Native Speakers

Focuses on strategies and techniques of writing and composition. Open only to non-native speakers.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 1.0
Lab hours: 3.0

ESOL 0341 - Intermediate Writing for Non-Native Speakers

Focuses on strategies and techniques of writing and composition. Open only to non-native speakers

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

ESOL 0342 - Advanced Writing for Non-Native Speakers

Focuses on strategies and techniques of writing and composition. Open only to non-native speakers.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

ESOL 0345 - Advanced Writing for Non-Native Speakers

Focuses on strategies and techniques of writing and composition. Open only to non-native speakers.

Grade Basis: AL
Credit hours: 3.0
Lecture hours: 1.0
Lab hours: 3.0

Restrictions:

- This is a NCBO course, which is non-semester-length, non-course competency-based option and intervention.
-

ESOL 0310 - Beginning ESOL Oral Communication

Develops listening and speaking skills in speakers of languages other than English and prepares them to function in educational, vocational and/or personal English-speaking contexts.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

ENGL 1311 - Intermediate ESOL Oral Communication

Develops listening and speaking skills in speakers of languages other than English and prepares them to function in educational, vocational and/or personal English-speaking contexts.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

ESOL 0312 - Advanced ESOL Oral Communication

(CIP # 32.0108.55 12). Develops listening and speaking skills in speakers of languages other than English and prepares them to function in educational, vocational and/or personal English-speaking contexts.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ESOL 0315 - Advanced ESOL Oral Communication

Develops listening and speaking skills in speakers of languages other than English and prepares them to function in educational, vocational and/or personal English-speaking contexts. (This is a NCBO course, which is non-semester-length, non-course competency-based option and intervention.)

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ESOL 0320 - Beginning ESOL Reading and Vocabulary

Develops English reading proficiency and vocabulary for academic, career, or personal purposes in speakers of languages other than English and prepares them to function in a multicultural, multilingual society.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ESOL 0321 - Intermediate ESOL Reading and Vocabulary

Develops English reading proficiency and vocabulary for academic, career, or personal purposes in speakers of languages other than English and prepares them to function in a multicultural, multilingual society.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ESOL 0322 - Advanced ESOL Reading and Vocabulary

Develops English reading proficiency and vocabulary for academic, career, or personal purposes in speakers of languages other than English and prepares them to function in a multicultural, multilingual society.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ESOL 0325 - Advanced ESOL Reading and Vocabulary

Develops English reading proficiency and vocabulary for academic, career, or personal purposes in speakers of languages other than English and prepares them to function in a multicultural, multilingual society.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- This is a NCBO course, which is non-semester-length, non-course competency-based option and intervention.
-

ESOL 0330 - Beginning Grammar for Non-Native Speakers

Focuses on Standard English grammar usage for academic purposes. Open only to non-native speakers.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ESOL 0331 - Intermediate Grammar for Non-Native Speakers

Focuses on Standard English grammar usage for academic purposes. Open only to non-native speakers.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ESOL 0332 - Advanced Grammar for Non-Native Speakers

Focuses on Standard English grammar usage for academic purposes. Open only to non-native speakers.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ESOL 0335 - Advanced Grammar for Non-Native Speakers

Focuses on Standard English grammar usage for academic purposes. Open only to non-native speakers.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- This is a NCBO course, which is nonsemester-length, non-course competency-based option and intervention.

FDST - Food Science (WECM)

FDST 1270 - Wine Laws and Regulations

An overview of federal, state, and local regulations pertaining to wine production and sales. Topics include: state and federal winery permits, wine production, taxation, reporting, labeling, and sales and distribution.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

FDST 1320 - Principles of Enology I

Designed for training students entering the field of viticulture and enology in the history and development of the wine industry; factors affecting wine quality; winemaking operations including harvest, scheduling, crushing, fermentation, and record keeping.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

FDST 1323 - Principles of Viticulture I

Designed for training students entering the field of viticulture and enology in the basic principles underlying pruning, training, grafting, and propagation of vines; climatic requirements; utilization of crop; economic factors affecting choices of vineyard type and location.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

FDST 1370 - Grapevine Biology

The study of grapevine biology including taxonomy, distribution, morphology, physiology, genetics, and improvement.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

FDST 2286 - Internship – Food Science

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Grade Basis: L

Credit hours: 2.0

Lab hours: 8.0

FDST 2319 - Principles of Enology II

Continuation of FDST 1320. Designed for training students entering the field of viticulture and enology in safety, sanitation procedures, analysis, and operation of winery equipment.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Prerequisites:

- [FDST 1320](#) - Principles of Enology I
-

FDST 2320 - Principles of Viticulture II

Continuation of FDST 1323. Designed for training students entering the field of viticulture and enology in the economic and scientific principles of vineyard management practices including irrigation, mineral and carbohydrate nutrition, flower development and fruit set, viral and fungal diseases, and insect control.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Prerequisites:

- [FDST 1323](#) - Principles of Viticulture I
-

FDST 2330 - Analysis of Must and Wine

Designed for training students entering the field of viticulture and enology in the principles and practices of wine and fermented beverage analysis including tests for free and total SO₂, volatile and titratable acidity, pH, Brix and total alcohol.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

FDST 2335 - Winegrowing Regions of the World

A viticulture review of the management systems used in all of the leading wine regions of the world. To include Chablis, Mersault, Montrachet, California, Australia, Chile, Argentina, Medoc, Graves Sauternes, St. Emilion, Tuscany, Mosel, Rhinegau, Loire, Alsace, and how the practices of the regions are best used in Texas and Oklahoma. Formal wine tastings will be conducted each day to determine the strong and or weak components of each wine.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

FDST 2371 - Grape and Wine Chemistry

An overview of the chemistry of grapes and wine with a focus on the impact of viticultural and enological factors. Topics include acids, sugars, phenolics, fermentation end- products, additives, winemaking units and calculations, and soil chemistry.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

FDST 2433 - Wine Types and Sensory Evaluation

A study of the major types of wines with an emphasis on the development of sensory evaluation techniques.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 3.0

FDST 1291 - Special Topics in Food Service - Brandy

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 3.0

FDST 1291 - Special Topics in Food Science - Cider

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 3.0

FDST 1271 - Distillery Operations

Analyze the operation of various sizes and styles of stills as well as the safety requirements of operating a commercial distillery.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 2.0

FDST 1272 - Vodka Production

Demonstrate the production of vodka through the use of various substrates.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 2.0

FDST 1273 - Rum Production

Demonstrate the production of rum through the use of various sugar substrates.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 2.0

FDST 2374 - Whiskey Production

Demonstrate the production of whiskey through the use of various sugar substrates.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

FDST 2372 - Gin and Absinthe Production

Demonstrate the use of various botanicals in the distillation of gin.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

FDST 2373 - Brandy Production

Demonstrate the production of brandy through the use of various fruit substrates.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

FDST 1274 - Cider Production

Demonstrate the production of cider through the use of various substrates

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 2.0

FDST 2375 - Tequila Production

Demonstrate the production of tequila through the use of various sugar substrates.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

GEOG - Geography

GEOG 1302 - Human Geography

This course introduces students to fundamental concepts, skills, and practices of human geography. Place, space, and scale serve as a framework for understanding patterns of human experience. Topics for discussion may include globalization, population and migration, culture, diffusion, political and economic systems, language, religion, gender, and ethnicity.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

GEOG 1303 - World Regional Geography

This course is an introduction to the world's major regions seen through their defining physical, social, cultural, political, and economic features. These regions are examined in terms of their physical and human characteristics and their interactions. The course emphasizes relations among regions on issues such as trade, economic development, conflict, and the role of regions in the globalization process.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

GEOL - Geology

GEOL 1301 - Earth Science for Non-Science Majors I

Survey of geology, meteorology, oceanography, and astronomy. Corequisite of GEOL 1101

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Corequisites:

- [GEOL 1101](#) - Earth Sciences for Non-Science Majors I LAB

Restrictions:

- College readiness in reading required.
-

GEOL 1101 - Earth Sciences for Non-Science Majors I LAB

This laboratory-based course accompanies GEOL 1301, Earth Sciences I. Activities will cover methods used to collect and analyze data in geology, meteorology, oceanography, and astronomy. Corequisite of GEOL 1301

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Corequisites:

- [GEOL 1301](#) - Earth Science for Non-Science Majors I

Restrictions:

- College readiness in reading required.
-

GEOL 1305 - Environmental Science

A survey of the forces, including humans, which shape our physical and biologic environment, and how these affect life on Earth. Introduction to the science and policy of global and regional environmental issues, including pollution, climate change, and sustainability of land, water, and energy resources. Corequisite of GEOL 1105

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Corequisites:

- [GEOL 1105](#) - Environmental Science LAB

Restrictions:

- College readiness in reading required.
-

GEOL 1105 - Environmental Science LAB

This laboratory-based course accompanies GEOL 1305, Environmental Science (lecture). Activities will cover methods used to collect and analyze environmental data.

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Corequisites:

- [GEOL 1305](#) - Environmental Science

Restrictions:

- College readiness in reading required.
-

GEOL 1304 - Historical Geology

A comprehensive survey of the history of life and major events in the physical development of Earth as interpreted from rocks and fossils. Corequisite of GEOL 1104

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Corequisites:

- [GEOL 1104](#) - Historical Geology LAB

Restrictions:

- College readiness in reading required.
-

GEOL 1104 - Historical Geology LAB

This laboratory-based course accompanies GEOL 1304, Historical Geology. Laboratory activities will introduce methods used by scientists to interpret the history of life and major events in the physical development of Earth from rocks and fossils.

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Corequisites:

- [GEOL 1304](#) - Historical Geology

Restrictions:

- College readiness in reading required.
-

GEOL 1303 - Physical Geology

Introduction to the study of the materials and processes that have modified and shaped the surface and interior of Earth over time. These processes are described by theories based on experimental data and geologic data gathered from field observations. Corequisite of GEOL 1103

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Corequisites:

- [GEOL 1103](#) - Physical Geology LAB

Restrictions:

- College readiness in reading required.
-

GEOL 1103 - Physical Geology LAB

This laboratory-based course accompanies GEOL 1303, Physical Geology. Laboratory activities will cover methods used to collect and analyze earth science data.

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Corequisites:

- [GEOL 1303](#) - Physical Geology

Restrictions:

- College readiness in reading required.

HAMG - Hospitality Administration (WECM)

HAMG 1213 - Front Office Procedures

Functions of front office operations as they relate to customer service. Includes a study of front office interactions with other departments in the lodging operation. 3 credit hours.

Grade Basis: L
Credit hours: 2.0
Lecture hours: 3.0
Lab hours: 1.0

HAMG 1319 - Computers in Hospitality

An introduction to computers and their relationship as an information system to the hospitality industry. The course includes an overview of industry-specific software. 3 credit hours.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 2.0
Lab hours: 3.0

HAMG 1221 - Introduction to Hospitality Industry

Introduction to the elements of the hospitality industry. 3 credit hours.

Grade Basis: L
Credit hours: 2.0
Lecture hours: 2.0
Lab hours: 1.0

HAMG 1324 - Hospitality Human Resources Management

Principles and procedures of human resource management in the hospitality industry. 3 credit hours.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

HAMG 1340 - Hospitality Legal Issues

A course in legal and regulatory requirements that impact the hospitality industry. Topics include: Occupational Safety and Health Administration (OSHA), labor regulations, tax laws, tip reporting, franchise regulations, and product liability laws. 3 credit hours.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

HAMG 2167 - Practicum (or Field Experience) - Hospitality Administration/Management, General

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

Grade Basis: L
Credit hours: 1.0
Lecture hours: 12.0

HAMG 2301 - Principles of Food and Beverage Operations

An introduction to food and beverage management in various hospitality environments. Emphasizes cost controls from procurement to marketing and sales. Examines forecasting, menu planning and pricing, logistical support, production, purchasing, and quality assurance. 3 credit hours.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

HAMG 2305 - Hospitality Management and Leadership

An overview of management and leadership in the hospitality industry with an emphasis on management philosophy, policy formation, communications, motivation, and team building. 3 credit hours.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

HAMG 2307 - Hospitality Marketing and Sales

Identification of the core principles of marketing and sales and their impact on the hospitality industry. 3 credit hours.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

HAMG 2332 - Hospitality Financial Management

Methods and applications of financial management within the hospitality industry. Primary emphasis on sales accountability, internal controls, and report analysis. 3 credit hours.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

HAMG 2337 - Hospitality Facilities Management

Identification of building systems, facilities and sustainability management, and security and safety procedures. 3 credit hours.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

HART - Heating, Ventilation and Refrigeration Technology (WECM)

HART 1401 - Basic Electricity for HVAC

Principles of electricity as required by HVAC technicians including proper use of test equipment, A/C and D/C circuits, and component theory and operation. Advanced electrical instruction and skill building in installation and servicing of air conditioning and refrigeration equipment including detailed instruction in motors and power distribution, motors, motor controls and application of solid state devices. The student will exhibit knowledge of basic principles of electricity, electrical current, circuitry, and A/C devices; apply Ohm's law to electrical calculations; perform electrical continuity, voltage and current tests with appropriate meters and demonstrate electrical safety.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 4.0

HART 1407 - Refrigeration Principles

An introduction to the refrigeration cycle, basic thermodynamics, heat transfer, temperature/pressure relationship, safety, refrigeration containment, and refrigeration components. The student will identify the components and explain the application and operation of the basic refrigeration cycle; explain theories of thermodynamics and heat transfer; demonstrate proper application and use of tools, test equipment, and safety procedures; and demonstrate accepted refrigeration applications.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 4.0

HART 1441 - Residential Air Conditioning

A study of components, applications, and installation of mechanical air conditioning systems including operating conditions, troubleshooting, repair, and charging of air conditioning systems. Demonstrate systems applications; implement and demonstrate industry accepted refrigerant charging procedures; demonstrate air conditioning system installation procedures; and demonstrate component and part diagnostics and replacement.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 2.0

Prerequisites:

- [HART 1401](#) - Basic Electricity for HVAC
 - [HART 1407](#) - Refrigeration Principles
-

HART 1445 - Gas and Electric Heating

A study of the procedures and principles used in servicing heating systems including gas fired and electric furnaces. The student will identify different types of gas furnaces; identify and discuss component operation of gas furnaces; service and troubleshoot gas furnaces; perform safety inspections on gas and electric furnaces; identify unsafe operation of gas furnaces; identify and discuss component operation of electric furnaces; and service and troubleshoot electric furnaces.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 2.0

Prerequisites:

- [HART 1401](#) - Basic Electricity for HVAC
 - [HART 1407](#) - Refrigeration Principles
-

HART 2442 - Commercial Refrigeration

Theory of and practical application in the maintenance of commercial refrigeration; high, medium, and low temperature applications and ice machines. The student will explain and apply high, medium, and low temperature systems operation, and explain and apply ice machine and packaged refrigeration system operation.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 2.0

Prerequisites:

- [HART 1401](#) - Basic Electricity for HVAC
 - [HART 1407](#) - Refrigeration Principles
-

HART 2445 - Air Conditioning Systems Design

A study of the properties of air and results of cooling, heating, humidifying or dehumidifying; heat gain and heat loss calculations including equipment selection and balancing the air system. The student will calculate heat loss and heat gain; design a complete duct system; size heating and cooling equipment of the structure; perform a load calculation using Manual J.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 4.0

Lab hours: 1.0

Prerequisites:

- [HART 1401](#) - Basic Electricity for HVAC
 - [HART 1407](#) - Refrigeration Principles
-

HART 2436 - Air Conditioning Troubleshooting

An advanced course in application of troubleshooting principles and use of test instruments to diagnose air conditioning and refrigeration components and system problems including conducting performance tests.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 2.0

Prerequisites:

- [HART 1401](#) - Basic Electricity for HVAC
 - [HART 1407](#) - Refrigeration Principles
-

HART 2449 - Heat Pumps

A study of heat pumps, heat pump control circuits, defrost controls, auxiliary heat, airflow, and other topics related to heat pump systems. The student will be able to explain a reverse cycle system; list the mechanical and electrical components for the heat pump operation; and explain the operation of heat pump modes including cooling, heating, defrost, emergency heat, and auxiliary heat mode. Identify and explain the different methods of accomplishing defrost; charge a system correctly in the heating and cooling mode; troubleshoot electrical and mechanical components; perform tests for adequate airflow, and determine the balance point and co-efficiencies of performance (C.O.P.); and define attributes of geothermal heat pump systems.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 2.0

Prerequisites:

- [HART 1401](#) - Basic Electricity for HVAC
- [HART 1407](#) - Refrigeration Principles

HIST - History

HIST 1301 - United States History I

A survey of the social, political, economic, cultural, and intellectual history of the United States from the pre-Columbian era to the Civil War/Reconstruction period. United States History I includes the study of pre-Columbian, colonial, revolutionary, early national, slavery and sectionalism, and the Civil War/Reconstruction eras. Themes that may be addressed in United States History I include: American settlement and diversity, American culture, religion, civil and human rights, technological change, economic change, immigration and migration, and creation of the federal government.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

HIST 1302 - United States History II

A survey of the social, political, economic, cultural, and intellectual history of the United States from the Civil War/Reconstruction era to the present. United States History II examines industrialization, immigration, world wars, the Great Depression, Cold War and post-Cold War eras. Themes that may be addressed in United States History II include: American culture, religion, civil and human rights, technological change, economic change, immigration and migration, urbanization and suburbanization, the expansion of the federal government, and the study of U.S. foreign policy.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

HIST 2301 - Texas History

A survey of the political, social, economic, cultural, and intellectual history of Texas from the pre-Columbian era to the present. Themes that may be addressed in Texas History include: Spanish colonization and Spanish Texas; Mexican Texas; the Republic of Texas; statehood and secession; oil, industrialization, and urbanization; civil rights; and modern Texas.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

HIST 2311 - Western Civilization I

A survey of the social, political, economic, cultural, religious, and intellectual history of Europe and the Mediterranean world from human origins to the 17th century. Themes that should be addressed in Western Civilization I include the cultural legacies of Mesopotamia, Egypt, Greece, Rome, Byzantium, Islamic civilizations, and Europe through the Middle Ages, Renaissance, and Reformations.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

HIST 2312 - Western Civilization II

A survey of the social, political, economic, cultural, religious, and intellectual history of Europe and the Mediterranean world from the 17th century to the modern era. Themes that should be addressed in Western Civilization II include absolutism and constitutionalism, growth of nation states, the Enlightenment, revolutions, classical liberalism, industrialization, imperialism, global conflict, the Cold War, and globalism.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

HIST 2321 - World Civilization I

A survey of the social, political, economic, cultural, religious, and intellectual history of the world from the emergence of human cultures through the 15th century. The course examines major cultural regions of the world in Africa, the Americas, Asia, Europe, and Oceania and their global interactions over time. Themes include the emergence of early societies, the rise of civilizations, the development of political and legal systems, religion and philosophy, economic systems and trans-regional networks of exchange. The course emphasizes the development, interaction and impact of global exchange.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

HIST 2322 - World Civilization II

A survey of the social, political, economic, cultural, religious, and intellectual history of the world from the 15th century to the present. The course examines major cultural regions of the world in Africa, the Americas, Asia, Europe, and Oceania and their global interactions over time. Themes include maritime exploration and transoceanic empires, national/state formation and industrialization, imperialism, global conflicts and resolutions, and global economic integration. The course emphasizes the development, interaction and impact of global exchange.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

HITT - Health Information and Medical Records Technology (WECM)

HITT 1305 - Medical Terminology I

(FALL ONLY) Study of medical terms through word origin and structure. Introduction to abbreviations and symbols, surgical and diagnostic procedures, and medical specialties.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

HITT 1311 - Health Information Systems

(SUMMER ONLY) Introduction to health IT standards, health-related data structures, software applications, and enterprise architecture in health care and public health.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

HITT 1341 - Coding and Classification Systems

(SPRING ONLY) Fundamentals of coding rules, conventions, and guidelines using clinical classification systems.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

HITT 1353 - Legal and Ethical Aspects of Health Information

(SUMMER ONLY) Concepts of privacy, security, confidentiality, ethics, health care legislation, and regulations relating to the maintenance and use of health information.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

HITT 2346 - Advanced Medical Coding

(Summer Only) Advanced concepts of ICD and CPT coding rules, conventions, and guidelines in complex case studies. Investigation of government regulations and changes in health care reporting.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

HPRS - Health Services (WECM)

HPRS 1209 - Interpretation of Laboratory Results

An introduction to interpretation of commonly ordered laboratory results.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Restrictions:

- (Internet Class Only)
-

HPRS 1303 - End of Life Issues

Grief, loss, and end of life issues. Includes instruction in preparing caregivers to function in settings where communication skills are used to give psychosocial support to persons and their families at the end of life.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- (Internet Class Only)
-

HPRS 2300 - Pharmacology for Health Professions

This 3 credit hour course is an intermediate level course for students preparing for a career in healthcare and healthcare professionals involved in the administration of medications or the care of clients receiving medications. Areas of study include drug classifications, actions, therapeutic uses, adverse effects, methods of administration, client education, and calculation of dosages.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- (Internet Class Only)
-

HPRS 2301 - Pathophysiology

Study of the pathology and general health management of diseases and injuries across the lifespan. Topics include etiology, symptoms, and the physical and psychological reactions to diseases and injuries.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- (Internet Class Only)
-

HPRS 2302 - Medical Terminology

A study of medical terminology, word origin, structure, and application with an emphasis on building a professional vocabulary required for employment within the allied health care field.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- (Internet Class Only)
-

HPRS 2321 - Medical Law and Ethics for Health Professionals

Principles, procedures, and regulations governing the legal and ethical relationships among physicians, patients, and health care professionals. Includes current ethical issues related to the various healthcare professions and patient confidentiality.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- (Internet Class Only)

HRPO - Human Resources Management

HRPO 2301 - Human Resources Management

Behavioral and legal approaches to the management of human resources in organizations.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

HUMA - Humanities

HUMA 1301 - Introduction to the Humanities I

This stand-alone course is an interdisciplinary survey of cultures focusing on the philosophical and aesthetic factors in human values with an emphasis on the historical development of the individual and society and the need to create.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

HUMA 1302 - Introduction to the Humanities II

This stand-alone course is an interdisciplinary survey of cultures focusing on the philosophical and aesthetic factors in human values with an emphasis on the historical development of the individual and society and the need to create.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

IFWA - Institutional Food Workers (WECM)

IFWA 1210 - Nutrition and Menu Planning

Application of principles of nutrition in planning menus for the food service industry.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Lab hours: 1.0

IMED - Digital Media (WECM)

IMED 1301 - Introduction to Digital Media

Theories, elements, and hardware/software components of digital media. Emphasis on conceptualizing and producing digital media presentations.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

IMED 1305 - Digital Media Courseware Development I

Instruction in courseware development. Topics include interactivity, branching, navigation, evaluation techniques and interface/information design using industry standard authoring software.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

IMED 1341 - Interface Design

Interface design process including selecting interfaces that are relative to a project's content and delivery system. Emphasis on aesthetic issues such as iconography, screen composition, colors, and typography.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

IMED 1316 - Web Design I

Instruction in web design and related graphic design including mark-up languages, and browser issues.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

IMED 2301 - Instructional Design

Instructional design process based on learning theories, including evaluation of models and design examples.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

IMED 2309 - Internet Commerce

An overview of the internet as a marketing and sales tool with emphasis on developing a prototype for electric commerce.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- Web page design experience and familiarity with database concepts.
-

IMED 2313 - Project Analysis and Design

Application of the planning and production processes for digital media projects. Emphasis on copyright and other legal issues, content design and production management. Capstone Course

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

IMED 2315 - Web Page Design II

Mark-up language and advanced layout techniques for creating web pages. Emphasis on identifying the target audience and producing web sites, according to accessibility standards, cultural appearance, and legal issues.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

INMT - Manufacturing Engineering Technology

INMT 1391 - Special Topics in Manufacturing Technology

Topics address recently identified current events, skills, knowledge and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

INMT 2388 - Internship- Manufacturing Technology/Technician

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Grade Basis: L

Credit hours: 3.0

Lab hours: 20.0

Restrictions:

- Internship of 160 hours required.

INRW - Integrated Reading and Writing

INRW 0310 - Integrated Reading and Writing

Integration of critical reading and academic writing skills. Successful completion of this course enables a student to enroll in INRW 0210. INRW 0310 is typically paired with HUMA 1301.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- A student must enroll in the appropriate corequisite credit-bearing course, which is usually HUMA 1301.
-

INRW 0210 - Integrated Reading and Writing

Integration of critical reading and academic writing skills. Successful completion of this course fulfills TSI requirements for reading and writing. This course is typically paired with ENGL 1301.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Restrictions:

- A student must enroll in the appropriate corequisite credit-bearing course, which is usually ENGL 1301.

INSR - Insurance (WECM)

INSR 1351 - Essentials of Risk Management

Risk management decision-making process with emphasis on identification and analysis of loss exposures and development of alternative techniques for the treatment of each exposure.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

ITNW - Computer Systems Networking (WECM)

ITNW 1392 - Special Topics in Computer Systems/Networking and Telecommunications

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. (R)

Grade Basis: L
Credit hours: 3.0
Lecture hours: 2.0
Lab hours: 3.0

ITNW 1308 - Implementing and Supporting Client Operating Systems

The fundamentals of managing and configuring network clients.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

ITNW 1325 - Fundamentals of Networking Technologies

Instruction in networking technologies and their implementation. Topics include the OSI reference model, network protocols, transmission media, and networking hardware and software.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 2.0
Lab hours: 3.0

ITNW 1351 - Fundamentals of Wireless LANs

Design, plan, implement, operate, and troubleshoot Wireless Local Area Networks (WLANs). Includes WLAN design, installation, and configuration; and WLAN security issues and vendor interoperability strategies.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

ITNW 1354 - Implementing and Supporting Servers

Implement, administer, and troubleshoot information systems that incorporate servers in a networked computing environment.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

ITNW 2305 - Network Administration

Topics include network components, user accounts and groups, network file systems, file system security, and network printing.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

ITNW 2355 - Server Virtualization

An in-depth study of the installation, configuration, management and troubleshooting of a virtualized server environment.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Prerequisites:

- [ITNW 1354](#) - Implementing and Supporting Servers
OR
- [ITNW 2305](#) - Network Administration

Restrictions:

- ITNW 1354 (Implementing and Supporting Servers) -or- ITNW 2305 (Network Administration) is acceptable as a prerequisite.

ITSC - Information Sciences (WECM)

ITSC 1309 - Integrated Software Applications 1

Introduction to business productivity software suites using word processing, spreadsheets, databases, and/or presentation software.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

ITSC 1325 - Personal Computer Hardware

Current personal computer hardware including assembly, upgrading, setup, configuration, and troubleshooting.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

ITSC 1391 - Special Topics in Computer and Information Systems, General

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. Course may be repeated for credit when topics vary. This course was designed to be repeated multiple times to improve student proficiency.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Restrictions:

- Will vary based on topics covered and will be annotated in each semester's class schedule
 - Lab required
-

ITSC 1407 - UNIX Operating System I

Introduction to the UNIX operating system including multi-user concepts, terminal emulation, use of system editor, basic UNIX commands, and writing script files. Includes introductory system management concepts.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 3.0

ITSC 2321 - Integrated Software Applications II

Intermediate study of computer applications from business productivity software suites. Instruction in embedding data and linking and combining documents using word processing, spreadsheets, databases, and/or presentation media software.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Restrictions:

- Fall Only
-

ITSC 1305 - Introduction to PC Operating Systems

Introduction to personal computer operating systems including installation, configuration, file management, memory and storage management, control of peripheral devices, and use of utilities.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

ITSC 1316 - Linux Installation and Configuration

Introduction to Linux operating system. Includes Linux installation, basic administration, utilities and commands, upgrading, networking security, and application installation. Emphasizes hands-on setup, administration, and management of Linux.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

ITSC 1342 - Shell Programming

Reading, writing, and debugging shell scripts. Development of scripts to automate frequently executed sequences of commands. Covers conditional logic, user interaction, loops, and menus to enhance the productivity and effectiveness of the user. Intended for programmers who are familiar with operating environments and reading and writing various shell scripts.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Prerequisites:

- [ITSC 1316](#) - Linux Installation and Configuration
-

ITSC 2325 - Advanced Linux

Provides instruction in advance open-source Linux operating system. Develops directory services for clients, support users remotely, and install and configure network services.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Prerequisites:

- [ITSC 1316](#) - Linux Installation and Configuration
-

ITSC 2339 - Personal Computer Help Desk Support

Diagnosis and solution of user hardware and software related problems with hands-on and/or simulated projects.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ITSE - Computer Programming (WECM)

ITSE 2317 - JAVA Programming

Java programming for applications and web applets.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ITSE 2386 - Internship – Computer Programming/Programmer, General

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Grade Basis: L

Credit hours: 3.0

Lab hours: 18.0

ITSW - Data Processing Technologies (WECM)

ITSW 1304 - Introduction to Spreadsheets

Instruction in the concepts, procedures, and application of electronic spreadsheets.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

ITSW 1307 - Introduction to Database

Introduction to database theory and the practical applications of a database.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ITSW 2380 - Cooperative Education - Data Processing and Data Processing Technology/ Technician

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 5.0

Restrictions:

- Sophomore standing or consent of instructor.
 - This course requires 283 hours of lab work.
-

ITSW 2437 - Advanced Database

Advanced concepts of database design and functionality.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 2.0

ITSY - Information Security Systems (WECM)

ITSY 2343 - Computer System Forensics

In-depth study of system forensics including methodologies used for analysis of computer security breaches. Gather and evaluate evidence to perform postmortem analysis of a security breach.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

ITSY 1300 - Fundamentals of Information Security

An introduction to Information security including vocabulary and terminology, ethics, the legal environment and risk management. Identification of exposures and vulnerabilities and appropriate countermeasures are addressed. The importance of appropriate planning, policies and controls is discussed.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ITSY 2317 - Wireless Security Development

Development of information security policies, standards, and guidelines for an organization. Includes Demilitarized Zone (DMZ), antivirus, Virtual Private Network (VPN), wireless communications, remote access, and other critical administrative and operational security policies. Identification of exposures and vulnerabilities and appropriate countermeasures are addressed. Emphasizes wireless security goals of availability, integrity, accuracy, and confidentiality in the design, planning, implementing, operating, and troubleshooting of wireless LAN along with appropriate planning and administrative controls.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

LSKL - Learning Skills

LSKL 0032 - Non-Course Based Remediation

Non-course based remediation designed for the developmental students seeking support for course work and/or assistance with test preparation. Intervention strategies include peer tutoring, multi-media instruction, and seminars. As in learning skills courses and labs, this non-course based remediation cannot substitute for the required course/lab in the specific skill area, i.e. reading, writing and math. To be arranged in time and format under the direction of LAC staff.

Grade Basis: L

LSKL 0115 - Learning Skills Laboratory I

Learning program designed for self-improvement in study skills and classroom learning strategies. Topics include note-taking, time-management, goal-setting, and test-taking. Teaching methods include workshops, discussion, multimedia instruction, and computerized learning styles analysis.

Grade Basis: L

Credit hours: 1.0

Lab hours: 1.0

LSKL 0215 - Learning Skills Laboratory II

Individualized learning program for self-improvement in study skills and classroom learning. Topics include note-taking, preparing for exams, goal-setting, and research paper skills.

Grade Basis: L

Credit hours: 2.0

Lab hours: 2.0

LSKL 0300 - Learning Skills Laboratory II

Emphasis on coping with the demands of a college environment and developing classroom behaviors and study habits that lead to success. Topics covered include setting goals, managing time, handling stress, taking notes, marking textbooks, and passing exams.

Grade Basis: L

Credit hours: 3.0

Lab hours: 3.0

MATH - Mathematics

MATH 0120 - Mathematical Literacy Lab

This course is designed to supplement the concepts learned in MATH 1332 and MATH 1342.

Grade Basis: L

Lab hours: 1.0

Restrictions:

- Concurrent enrollment in MATH 1332 or MATH 1342 is required.
-

MATH 0420 - Mathematical Literacy for College Students

The course supports students in developing skills, strategies, and reasoning needed to succeed in mathematics, including communication and appropriate use of technology. Topics include the study of numeracy and the real number system; algebraic concepts, notation, and reasoning; quantitative relationships; mathematical models; and problem solving.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 4.0

Lab hours: 1.0

Restrictions:

- A grade of C or better must be earned to progress to a MATH course that uses this course as a prerequisite.
-

MATH 1314 - College Algebra

In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included.

Grade Basis: ALP

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- Prerequisites: Meet TSI college-readiness standard for mathematics, or equivalent
 - A grade of C or better must be earned to progress to a MATH course that uses this course as a prerequisite.
-

MATH 1316 - Plane Trigonometry

In-depth study and applications of trigonometry including definitions, identities, inverse functions, solutions of equations, graphing, and solving triangles. Additional topics such as vectors, polar coordinates and parametric equations may be included.

Grade Basis: ALP

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Prerequisite: Meet TSI college-readiness standard for mathematics, or equivalent
 - A grade of C or better must be earned to progress to a Math course that uses this course as a prerequisite.
-

MATH 1324 - Mathematics for Business and Social Sciences I

The application of common algebraic functions, including polynomial, exponential, logarithmic, and rational, to problems in business, economics, and the social sciences are addresses. The application include mathematics of finance, including simple and compound interest and annuities; systems of linear equations; matrices; linear programming, and probability, including expected value.

Grade Basis: ALP

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Prerequisites: Meet TSI college-readiness standard for mathematics, or equivalent
 - A grade of C or better must be earned to progress to a MATH course that uses this course as a prerequisite.
-

MATH 1325 - Calculus for Business and Social Sciences

This course is the basic study of limits and continuity, differentiation, optimization and graphing, and integration of elementary functions, with emphasis on applications in business, economics, and social sciences. This course is not a substitute for MATH 2413, Calculus I.

Grade Basis: ALP

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Prerequisite: MATH 1314 - College Algebra or MATH 1324 - Mathematics for Business and Social Sciences I
-

MATH 1332 - Quantitative Reasoning

Intended for Non STEM (Science, Technology, Engineering, and Mathematics) majors. Topics include introductory treatments of sets and logic, financial mathematics, probability and statistics with appropriate applications. Number sense, proportional reasoning, estimation, technology, and communication should be embedded throughout the course. Additional topics may be covered

Grade Basis: ALP

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Prerequisite: Meet TSI College-readiness standard for mathematics; or equivalent.
-

MATH 1342 - Elementary Statistical Methods

Collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Use of appropriate technology is recommended. (RM)

Grade Basis: ALP

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- A grade of C or better must be earned to progress to a MATH course that uses this course as a prerequisite.
 - Prerequisites: Meet TSI College-readiness standard for mathematics; or equivalent.
-

MATH 1350 - Mathematics for Teachers I

This course is intended to build or reinforce a foundation in fundamental mathematics concepts and skills. It includes the conceptual development of the following: sets, functions, numeration systems, number theory, and properties of the various number systems with an emphasis on problem solving and critical thinking.

Grade Basis: ALP

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [MATH 1314](#) - College Algebra

Restrictions:

- A grade of C or better must be earned to progress to a MATH course that uses this course as a prerequisite.
-

MATH 1351 - Mathematics for Teachers II

This course is intended to build or reinforce a foundation in fundamental mathematics concepts and skills. It includes the concepts of geometry, measurement, probability, and statistics with an emphasis on problem solving and critical thinking.

Grade Basis: ALP

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [MATH 1314](#) - College Algebra

Restrictions:

- A grade of C or better must be earned to progress to a MATH course that uses this course as a prerequisite.
-

MATH 2305 - Discrete Mathematics

A course designed to prepare math, computer science, and engineering majors for a background in abstraction, notation, and critical thinking for the mathematics most directly related to computer science. Topics include: logic, relations, functions, basic set theory, count ability and counting arguments, proof techniques, mathematical induction, combinatorics, discrete probability, recursion, sequence and recurrence, elementary number theory, graph theory, and mathematical proof techniques.

Grade Basis: ALP

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [MATH 2413](#) - Calculus I

Restrictions:

- A grade of C or better must be earned to progress to a MATH course that uses this course as a prerequisite.
-

MATH 2312 - Pre-Calculus Math

In-depth combined study of algebra, trigonometry, and other topics for calculus readiness.

Grade Basis: ALP

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- Prerequisite: MATH 1314 - College Algebra or the equivalent preparation
 - A grade of C or better must be earned to progress to a MATH course that uses this course as a prerequisite.
-

MATH 2318 - Linear Algebra

Introduces and provides models for application of the concepts of vector algebra. Topics include finite dimensional vector spaces and their geometric significance; representing and solving systems of linear equations using multiple methods, including Gaussian elimination and matrix inversion; matrices; determinants; linear transformations; quadratic forms; eigenvalues and eigenvector; and applications in science and engineering.

Grade Basis: ALP

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [MATH 2413](#) - Calculus I

Restrictions:

- A grade of C or better must be earned to progress to a MATH course that uses this course as a prerequisite.
-

MATH 2320 - Differential Equations

Ordinary differential equations, including linear equations, systems of equations, equations with variable coefficients, existence and uniqueness of solutions, series solutions, singular points, transform methods, and boundary value problems; application of differential equations to real-world problems.

Grade Basis: ALP

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Prerequisites:

- [MATH 2414](#) - Calculus II

Restrictions:

- A grade of C or better must be earned to progress to a MATH course that uses this course as a prerequisite.
-

MATH 2413 - Calculus I

Limits and continuity; the Fundamental Theorem of Calculus; definition of the derivative of a function and techniques of differentiation; applications of the derivative to maximizing or minimizing a function; the chain rule, mean value theorem, and rate of change problems; curve sketching; definite and indefinite integration of algebraic, trigonometric, and transcendental functions, with an application to calculation of areas.

Grade Basis: ALP

Credit hours: 4.0

Lecture hours: 4.0

Lab hours: 1.0

Prerequisites:

- [MATH 2312](#) - Pre-Calculus Math

Restrictions:

- A grade of C or better must be earned to progress to a MATH course that uses this course as a prerequisite.
-

MATH 2414 - Calculus II

Differentiation and integration of transcendental functions; parametric equations and polar coordinates; techniques of integration; sequences and series; improper integrals

Grade Basis: ALP

Credit hours: 4.0

Lecture hours: 4.0

Prerequisites:

- [MATH 2413](#) - Calculus I

Restrictions:

- A grade of C or better must be earned to progress to a MATH course that uses this course as a prerequisite.
-

MATH 2415 - Calculus III

Advanced topics in calculus, including vectors and vector-valued functions, partial differentiation, Lagrange multipliers, multiple integrals, and Jacobians; application of the line integral, including Green's Theorem, the Divergence Theorem, and Stokes' Theorem.

Grade Basis: ALP

Credit hours: 4.0

Lecture hours: 4.0

Prerequisites:

- [MATH 2414](#) - Calculus II
-

MATH 0240 - Transition to College Algebra Lab

This course is designed to supplement the concepts learned in Math 1314.

Grade Basis: L

Lab hours: 2.0

Restrictions:

- Concurrent enrollment in MATH 1314 is required.

MCHN - Machine Tool Technology (WECM)

MCHN 1320 - Precision Tools and Measurement

An introduction to the modern science of dimensional metrology. Emphasis on the identification, selection, and application of various types of precision instruments associated with the machining trade. Practice of basic layout and piece part measurements while using standard measuring tools.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

MCHN 1302 - Print Reading for Machining Trades

A study of blueprints for machining trades with emphasis on machine drawings.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

MCHN 1371 - Manufacturing Skills Standards Council Certification

A course that is focused on the core skills and knowledge needed by the nation's front-line production and material handling workers. Addresses core technical competencies of higher skilled production workers in all sectors of manufacturing (Safety, Quality Practices & Measurement, and Manufacturing Processes & Production)

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

MCHN 1438 - Basic Machine Shop I

A course that introduces the student to machining fundamentals. The student will use basic machine tools including the lathe, milling machine, drill press, power saw, and bench grinder. Machine terminology, theory, math, part layout, and bench work using common measuring tools is included. Emphasis is placed on shop safety, housekeeping, and preventative maintenance.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

MCHN 1326 - Introduction to Computer Aided manufacturing

A study of Computer-Aided manufacturing (CAM) software which is used to develop applications in manufacturing. Emphasis on tool geometry, tool selection and the tool library.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

MCHN 1408 - Basic Lathe

An introduction to the common types of lathes. Emphasis on basic parts, nomenclature, lathe operations, safety, machine mathematics, blueprint reading, and theory.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

MCHN 1413 - Basic Milling

An introduction to the common types of milling machines, part nomenclature, basic machine operations and procedures, safety, machine mathematics, blueprint reading, and theory.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

MCHN 1458 - Intermediate Lathe

Continuation of Basic Lathe operations

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

MCHN 2402 - Intermediate Milling

A continuation of Basic Milling Operations

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

MCHN 2433 - Advanced Lathe

Identify and use of special lathe cutting tools and support tooling, such as, form tools, carbide inserts, taper attachments, follower and steady rest. Close tolerance machining required.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

MCHN 2437 - Advanced Milling

Advanced milling machine operations. Identification and/or use of milling cutters and accessories.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

MLAB - Medical Laboratory Technician (WECM)

MLAB 1127 - Coagulation

Includes quality control, quality assurance, safety and laboratory procedures which rely on commonly performed manual and semi-automated method

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Restrictions:

- A grade of "C" or better is required for graduation.
-

MLAB 1201 - Introduction to Clinical Laboratory Science

An introduction to clinical laboratory science, including quality control, laboratory math, safety, laboratory equipment, laboratory settings, accreditation, certification, professionalism, and ethics. Acceptance into MLT-AD Program required. A grade of "C" or better is required to progress.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 4.0

Restrictions:

- A grade of "C" or better is required for graduation.
-

MLAB 1291 - Special Topics MLT

An introductory study to include fundamental microbiology concepts and skills, basic mathematics, and elementary chemistry as they apply specifically to medical laboratory science.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 4.0

Restrictions:

- A grade of "C" or better is required for graduation.
-

MLAB 1231 - Parasitology/Mycology

A study of the taxonomy, morphology, and pathogenesis of human parasites and fungi, including the practical application of laboratory procedures, quality control, quality assurance, and safety

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 4.0

Restrictions:

- A grade of "C" or better is required for graduation.
-

MLAB 1311 - Urinalysis and Body Fluids

An introduction to urinalysis and body fluid analysis includes the anatomy and physiology of the kidney, physical, chemical and microscopic examination of urine, cerebrospinal fluid, and other body fluids as well as quality control, quality assurance and safety

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Restrictions:

- A grade of "C" or better is required for graduation.
-

MLAB 1315 - Hematology

The study of blood cells in normal and abnormal conditions. Instruction in the theory and practical application of hematology procedures, including quality control, quality assurance, safety, manual and/or automated methods; red blood cells and white blood cells as well as blood cell maturation sequences, and normal and abnormal morphology and associated disease

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Restrictions:

- A grade of "C" or better is required for graduation.
-

MLAB 1335 - Immunology/Serology

An introduction to the theory and application of basic immunology, including the immune response, principles of antigen-antibody reactions, and the principles of serological procedures as well as quality control, quality assurance, and safety.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Restrictions:

- A grade of "C" or better is required for graduation.
-

MLAB 2238 - Advanced Topics in Medical Laboratory Technician

A review course for Medical Laboratory Technology students covering all topics offered in MLT courses. The course examines the integration of all areas of the clinical laboratory and correlates laboratory test data with diagnostic applications and pathophysiology using critical thinking skills.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 4.0

Restrictions:

- All MLT courses must be completed or taken concurrently with a grade of "C" or better within program requirements.
-

MLAB 2331 - Immunohematology

A study of blood group antigens and antibodies. Presents quality control, basic laboratory technique and safety. Includes the principles, procedures and clinical significance of test results in genetics, blood group systems, pre-transfusion testing, adverse effects of transfusions, donor selection and components, and hemolytic disease of the newborn

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Restrictions:

- A grade of "C" or better is required for graduation.
 - Previous completion of MLAB 1335 with a grade "C" or better.
-

MLAB 2401 - Clinical Chemistry

An introduction to the principles and procedures of various tests performed on Clinical Chemistry. Presents the physiological basis for the test, the principle and procedure for the test and the clinical significance of the test results, including quality control and normal values. Also includes basic chemical laboratory technique, chemical laboratory safety, electrolytes and acid-base balance, proteins, carbohydrates, lipids, enzymes, metabolites, endocrine function, and toxicology.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

Restrictions:

- A grade of "C" or better is required for graduation.
 - Previous completion of MLAB 1291 with a grade of "C" or better.
-

MLAB 2434 - Clinical Microbiology

Introduction in the theory, practical application, and pathogenesis of clinical microbiology, including collection, quality control, quality assurance, safety, setup, identification, susceptibility testing, and reporting results.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

Restrictions:

- A grade of "C" or better is required for graduation.
 - Previous completion of MLAB 1291 with a grade of "C" or better.
-

MLAB 2660 - Clinical II

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision, clinical instruction and evaluation is provided by the clinical professional. Students perform laboratory procedures in assigned departments of the clinical laboratory. Departmental rotations include hematology, coagulation, advanced hematology, blood bank, serology, chemistry, and microbiology. Phlebotomy experience will be arranged. A weekly clinical conference will be scheduled.

Grade Basis: L

Credit hours: 6.0

Restrictions:

- Concurrent enrollment in MLAB 2661 required.
 - This course requires 18 lab hours.
 - Previous completion of MLAB 2238 with a grade of "C" or better.
 - Acceptable scores in college readiness exam, pre-entrance health exam, documentation of required immunizations, pass drug screen, pass a criminal background check, documentation of CPR for Healthcare Providers from American Heart Association. There are 16 hours of required college core academic courses that must be completed prior to graduation. These can be taken prior to entry into the program or concurrently.
-

MLAB 2661 - Clinical III

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision, clinical instruction and evaluation is provided by the clinical professional. Students perform laboratory procedures in assigned departments of the clinical laboratory. Departmental rotations include hematology, coagulation, advanced hematology, blood bank, serology, chemistry, and microbiology. Phlebotomy experience will be arranged. A weekly clinical conference will be scheduled.

Grade Basis: L

Credit hours: 6.0

Restrictions:

- All MLT courses must be completed with a grade of "C" or better within program requirements.
- Concurrent enrollment in MLAB 2660 required.
- Acceptable scores in college readiness exam, pre-entrance health exam, documentation of required immunizations, pass drug screen, pass a criminal background check, documentation of CPR for Healthcare Providers from American Heart Association. There are 16 hours of required college core academic courses that must be completed prior to graduation. These can be taken prior to entry into the program or concurrently.

MRKG - Marketing (WECM)

MRKG 1191 - Wine Marketing

Marketing principles, marketing audit, developing a marketing plan, product, promotion, pricing, place and developing new markets.

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

MRKG 1200 - Customer Service

Introduction of techniques to create excellent customer service.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

MUAP - Applied Music

MUAP 11XX - Freshmen 30 Minute Lessons

Private instruction on a continually graded basis in the specific area of study. Students enrolling in these courses receive one 30-minute lesson each week. One half hour of private practice is required each day and additional studio time to be determined. May be repeated one time for credit. Composition lessons consist of individual instruction in music composition. Composing in small forms for simple media in both traditional styles and styles of the student's choice. (The number "1" in the course titles below indicate freshman-level classes).

Grade Basis: L

Credit hours: 1.0

Lab hours: 1.0

Restrictions:

- MUAP 1101 Violin 1
 - MUAP 1105 Viola 1
 - MUAP 1109 Cello 1
 - MUAP 1113 Double Bass 1
 - MUAP 1115 Electric Bass 1
 - MUAP 1117 Flute 1
 - MUAP 1121 Oboe 1
 - MUAP 1125 Bassoon 1
 - MUAP 1129 Clarinet 1
 - MUAP 1133 Saxophone 1
 - MUAP 1137 Trumpet 1
 - MUAP 1141 French Horn 1
 - MUAP 1145 Trombone 1
 - MUAP 1153 Tuba 1
 - MUAP 1158 Percussion 1
 - MUAP 1161 Guitar 1
 - MUAP 1169 Piano 1
 - MUAP 1170 Jazz Piano 1
 - MUAP 1181 Voice 1
 - MUAP 1187 Composition 1
-

MUAP 12XX - Freshmen 60 Minute Lessons

Private instruction on a continually graded basis in the specific area of study. Students enrolling in these courses receive one 60-minute lesson each week. One hour of private practice is required each day and additional studio time to be determined. May be repeated one time for credit. Composition lessons consist of individual instruction in music composition. Composing in small forms for simple media in both traditional styles and styles of the student's choice. (The number "1" in the course titles below indicate freshman-level classes).

Grade Basis: L

Credit hours: 2.0

Lab hours: 2.0

Restrictions:

- MUAP 1201 Violin 1
 - MUAP 1205 Viola 1
 - MUAP 1209 Cello 1
 - MUAP 1213 Double Bass 1
 - MUAP 1215 Electric Bass 1
 - MUAP 1217 Flute 1
 - MUAP 1221 Oboe 1
 - MUAP 1225 Bassoon 1
 - MUAP 1229 Clarinet 1
 - MUAP 1233 Saxophone 1
 - MUAP 1237 Trumpet 1
 - MUAP 1241 French Horn 1
 - MUAP 1245 Trombone 1
 - MUAP 1253 Tuba 1
 - MUAP 1258 Percussion 1
 - MUAP 1261 Guitar 1
 - MUAP 1269 Piano 1
 - MUAP 1270 Jazz Piano 1
 - MUAP 1281 Voice 1
 - MUAP 1287 Composition 1
-

MUAP 21XX - Sophomore 30 Minute Lessons

Private instruction on a continually graded basis in the specific area of study. Students enrolling in these courses receive one 30-minute lesson each week. One-half hour of private practice is required each day and additional studio time to be determined. May be repeated one time for credit. Composition lessons consist of individual instruction in music composition. Composing in small forms for simple media in both traditional styles and styles of the student's choice. (The number "2" in the course titles below indicate sophomore-level classes).

Grade Basis: L

Credit hours: 1.0

Lab hours: 1.0

Restrictions:

- MUAP 2101 Violin 2
 - MUAP 2105 Viola 2
 - MUAP 2109 Cello 2
 - MUAP 2113 Double Bass 2
 - MUAP 2115 Electric Bass 2
 - MUAP 2117 Flute 2
 - MUAP 2121 Oboe 2
 - MUAP 2125 Bassoon 2
 - MUAP 2129 Clarinet 2
 - MUAP 2133 Saxophone 2
 - MUAP 2137 Trumpet 2
 - MUAP 2141 French Horn 2
 - MUAP 2145 Trombone 2
 - MUAP 2153 Tuba 2
 - MUAP 2158 Percussion 2
 - MUAP 2161 Guitar 2
 - MUAP 2169 Piano 2
 - MUAP 2170 Jazz Piano 2
 - MUAP 2181 Voice 2
 - MUAP 2187 Composition 2
-

MUAP 22XX - Sophomore 60 Minute Lessons

Private instruction on a continually graded basis in the specific area of study. Students enrolling in these courses receive one 60-minute lesson each week. One hour of private practice is required each day and additional studio time to be determined. May be repeated one time for credit. Composition lessons consist of individual instruction in music composition. Composing in small forms for simple media in both traditional styles and styles of the student's choice. (The number "2" in the course titles below indicate that they are sophomore-level classes).

Grade Basis: L

Credit hours: 2.0

Lab hours: 2.0

Restrictions:

- MUAP 2201 Violin 2
- MUAP 2205 Viola 2
- MUAP 2209 Cello 2
- MUAP 2213 Double Bass 2
- MUAP 2215 Electric Bass 2
- MUAP 2217 Flute 2
- MUAP 2221 Oboe 2
- MUAP 2225 Bassoon 2
- MUAP 2229 Clarinet 2
- MUAP 2233 Saxophone 2
- MUAP 2237 Trumpet 2
- MUAP 2241 French Horn 2
- MUAP 2245 Trombone 2
- MUAP 2253 Tuba 2
- MUAP 2258 Percussion 2
- MUAP 2261 Guitar 2
- MUAP 2269 Piano 2
- MUAP 2270 Jazz Piano 2
- MUAP 2281 Voice 2
- MUAP 2287 Composition 2

MUEN - Music Ensemble

MUEN 1124 - Concert Band I

Large ensemble involving band instruments and literature designed to allow student to perform quality instrumental music. Open to all instrumentalists.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Restrictions:

- May be repeated one time for credit.
-

MUEN 1131 - Strings Chamber Ensemble I

Small ensemble involving stringed instruments and literature designed to allow students to perform quality music in a small setting. Open to all students.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Restrictions:

- May be repeated one time for credit.
-

MUEN 1132 - Jazz Combo Chamber Ensemble I

Small ensemble involving jazz combo instruments and literature designed to allow students to perform quality jazz music in a small setting. Open to all students.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Restrictions:

- May be repeated one time for credit.
-

MUEN 1133 - Mixed Chamber Ensemble I

Small ensemble involving mixed band instruments and literature designed to allow students to perform quality music in a small setting. Open to all students.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Restrictions:

- May be repeated one time for credit.
-

MUEN 1134 - Guitar Ensemble I

Small ensemble involving guitars and literature designed to allow students to perform quality music in a small setting. Open to all students.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Restrictions:

- May be repeated one time for credit.
-

MUEN 1141 - Choir

Open to all students. A large ensemble designed to allow students to perform quality choral music.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Restrictions:

- May be repeated one time for credit.
-

MUEN 2124 - Concert Band II

Open to students who have already taken two semesters of MUEN 1124. A large ensemble involving band instruments and literature designed to allow students to perform quality instrumental music.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [MUEN 1124](#) - Concert Band I

Restrictions:

- May be repeated one time for credit.
-

MUEN 2131 - String Chamber Ensemble II

Open to students who have already taken two semesters of MUEN 1131. A small ensemble involving stringed instruments and literature designed to allow students to perform quality music in a small setting.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [MUEN 1131](#) - Strings Chamber Ensemble I

Restrictions:

- May be repeated one time for credit.
-

MUEN 2132 - Jazz Combo Chamber Ensemble II

Open to students who have already taken two semesters of MUEN 1132. A small ensemble involving jazz combo instruments and literature designed to allow students to perform quality jazz music in a small setting.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [MUEN 1132](#) - Jazz Combo Chamber Ensemble I

Restrictions:

- May be repeated one time for credit.
-

MUEN 2133 - Mixed Chamber Ensemble II

Open to students who have already taken two semesters of MUEN 1133. Small ensemble involving mixed band instruments and literature designed to allow students to perform quality music in a small setting.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [MUEN 1133](#) - Mixed Chamber Ensemble I

Restrictions:

- May be repeated one time for credit.
-

MUEN 2134 - Guitar Ensemble II

Open to all students who have already taken two semesters of MUEN 1134. A small ensemble involving guitars and literature designed to allow students to perform quality music in a small setting

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [MUEN 1134](#) - Guitar Ensemble I

Restrictions:

- May be repeated one time for credit.
-

MUEN 2141 - Advanced Choir

Open to students who have already taken two semesters of MUEN 1141. A large ensemble designed to allow students to perform quality choral music.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [MUEN 1141](#) - Choir

Restrictions:

- May be repeated one time for credit.
-

MUEN 1135 - Piano Ensemble I

Small ensemble involving piano and literature designed to allow students to perform quality music in a small setting. Open to all students. May be repeated one time for credit.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

MUSB - Music Management (WECM)

MUSB 1305 - Survey of the Music Business

An overview of the music industry including songwriting, live performance, the record industry, music merchandising, contracts and licenses, and career opportunities.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

MUSB 2301 - Music Marketing

Methods of music distribution, retailing, and wholesaling. Includes identifying a target market, image building, distribution (brick and mortar vs. digital delivery), pricing, advertising, and marketing mix.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [MUSB 1305](#) - Survey of the Music Business

MUSC - Recording Arts Technology (WECM)

MUSC 1235 - Commercial Music Software

Specialized training in commercial music software applications.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 3.0

MUSC 1321 - Songwriting I

Introduction to the techniques of writing marketable songs including the writing of lyrics and melodies, setting lyrics to music, developing lyrical and musical "hooks," analyzing the marketplace, and developing a production plan for a song demo.

Grade Basis: L

Credit hours: 3.0

Lab hours: 3.0

MUSC 1327 - Audio Engineering I

The tools, personnel and standard workflow of a recording studio. Topics include fundamentals of sound and overview of tracking, editing, and mixing audio.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

MUSC 2327 - Audio Engineering II

Implementation of the recording process, microphones, audio console, multi-track recorder, and signal processing devices.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Prerequisites:

- [MUSC 1327](#) - Audio Engineering I
-

MUSC 1213 - Commercial Music Theory I

Introduction to chord progressions, song forms, and harmonic techniques used in commercial music. Topics include modern chord notation and chord voicings.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 2.0

MUSI - Music

MUSI 1116 - Sight Singing & Ear Training I

Singing tonal music in treble and bass clefs, and aural study of elements of music, such as scales, intervals and chords, and dictation of basic rhythm, melody and diatonic harmony.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Restrictions:

- MUSI 1116 is only offered in the fall semester.
 - Students must take MUSI 1311 Music Theory I, and MUSI 1181 Piano Class I concurrently.
-

MUSI 1117 - Sight Singing & Ear Training II

Singing tonal music in various clefs, continued aural study of the elements of music, and dictation of intermediate rhythm, melody and diatonic harmony.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [MUSI 1116](#) - Sight Singing & Ear Training I

Restrictions:

- MUSI 1117 is only offered in the spring semester.
 - Students must take MUSI 1312, Music Theory II, and MUSI 1115 Piano Class II concurrently.
-

MUSI 1157 - Opera Workshop

A study of the synthesis of singing and acting through the performance of opera.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

MUSI 1181 - Piano Class I

Beginning class instruction in the fundamentals of keyboard technique.

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

Lab hours: 1.0

MUSI 1182 - Piano Class II

Advance beginning class instruction in the fundamentals of keyboard technique.

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

Lab hours: 1.0

Prerequisites:

- [MUSI 1181](#) - Piano Class I

Restrictions:

- Students must take MUSI 1312 Music Theory II, and MUSI 1117 Sight Singing & Ear Training II concurrently.
-

MUSI 1183 - Voice Class I

Class instruction in the fundamentals of singing including breathing, tone production, and diction. Designed for students with little or previous voice training. Does not apply to a music major degree.

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

Lab hours: 1.0

MUSI 1192 - Guitar Class I

Class instruction in fundamental guitar playing, including technique, music-reading, fretboard theory, melodic and harmonic realizations.

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

Lab hours: 1.0

MUSI 1303 - Fundamentals of Music

Introduction to the basic elements of music theory, including scales, intervals, keys, triads, elementary ear training, notation, meter, and rhythm. Course does not apply to a music major degree.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

MUSI 1306 - Music Appreciation

Understanding music through the study of cultural periods, major composers, and musical elements, illustrated with audio recordings and live performances. Course does not apply to music major degree.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

MUSI 1307 - Music Literature

A Survey of the styles and forms of music as it developed from the middle ages to the present. This course will familiarize the student with cultural context terminology, genres, and notation.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

MUSI 1311 - Music Theory I

The study of analysis and writing of tonal melody and diatonic harmony, including fundamental music concepts, scales, intervals, chords, 7th chords, and early four-part writing. Analysis of small compositional forms. Optional correlated study at the keyboard. Students must take MUSI 1116, Sight Singing & Ear Training I, and MUSI 1181, Piano Class I, concurrently. MUSI 1311 is only offered in the Fall semester.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Students must take MUSI 1116, Sight Singing & Ear Training I, and MUSI 1181, Piano Class I, concurrently. MUSI 1311 is only offered in the Fall semester.
-

MUSI 1312 - Music Theory II

The study of analysis and writing of tonal melody and diatonic harmony, including all diatonic chords and seventh chords in root position and inversions, non-chord tones, and functional harmony. Introduction to more complex topics, such as modulation may occur. Optional correlated study at the keyboard.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [MUSI 1311](#) - Music Theory I

Restrictions:

- MUSI 1312 is only offered in the spring semester.
 - Students must take MUSI 1117 Sight Singing & Ear Training II, and MUSI 1182 Piano Class II concurrently.
-

MUSI 2116 - Sight Singing & Ear Training III

Singing more difficult tonal music in various clefs, aural study including dictation of more complex rhythm, melody, chromatic harmony, and extended tertian structures. Students must take MUSI 2311, Music Theory III, and MUSI 2114, Piano Class for Music Majors III, concurrently. MUSI 2116 is only offered in the Fall semester.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [MUSI 1117](#) - Sight Singing & Ear Training II

Restrictions:

- Students must take MUSI 2311, Music Theory III, and MUSI 2181, Piano Class III, concurrently. MUSI 2116 is only offered in the Fall semester.
-

MUSI 2117 - Sight Singing & Ear Training IV

Singing advanced tonal music and introduction of modal and post-tonal melodies. Aural study including dictation of advanced rhythm, melody, and harmony. Students must take MUSI 2312, Theory of Music IV, and MUSI 2182, Piano Class IV, concurrently. MUSI 2117 is only offered in the Spring.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [MUSI 2116](#) - Sight Singing & Ear Training III

Restrictions:

- Students must take MUSI 2312, Theory of Music IV, and MUSI 2182, Piano Class IV, concurrently. MUSI 2117 is only offered in the Spring.
-

MUSI 2181 - Piano Class III

Intermediate class instruction of keyboard technique.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

MUSI 2311 - Music Theory III

Advanced harmony voice leading, score analysis and writing of more advanced tonal harmony including chromaticism and extended-tertian structures. Optional correlated study at the keyboard. Students must take MUSI 2116, Sight Singing & Ear Training III, and MUSI 2181, Piano Class III, concurrently. Music 2311 is only offered in the Fall semester.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [MUSI 1312](#) - Music Theory II

Restrictions:

- Students must take MUSI 2116, Sight Singing & Ear Training III, and MUSI 2181, Piano Class III, concurrently. Music 2311 is only offered in the Fall semester
-

MUSI 2312 - Music Theory IV

Continuation of advanced chromaticism and survey of analytical and compositional procedures in post-tonal music. Optional correlated study at the keyboard. Students must take MUSI 2117, Sight Singing & Ear Training IV, and MUSI 2182, Piano Class IV, concurrently. Music 2312 is only offered in the Spring semester

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [MUSI 2311](#) - Music Theory III

Restrictions:

- Students must take MUSI 2117, Sight Singing & Ear Training IV, and MUSI 2182, Piano Class IV, concurrently. Music 2312 is only offered in the Spring semester
-

MUSI 2182 - Piano Class IV

Advanced class instruction of keyboard technique.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [MUSI 2182](#) - Piano Class IV

MUSP - Music Performance (WECM)

MUSP 1110 - Applied Commercial Music: Piano

Private instruction in piano with goals related to commercial music.

Grade Basis: L

Credit hours: 1.0

Lab hours: 1.0

NURS - Registered Nursing (WECM)

NURS 3244 - Issues & Trends in Nursing

This course provides registered nurses with an overview of the evolution of nursing as a profession. Examine changes in the U.S. healthcare delivery system, the importance of information technology, and measures that promote quality, safety, and better health outcomes in patient care. Consider major issues and trends in contemporary nursing and healthcare practice, including the influence of socioeconomic, ethical, legal, and political variables and professional values.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

NURS 3324 - Nursing Research and Evidence-Based Practice

This course introduces the basic concepts, processes, and applications of nursing research with a focus on the research role of the nurse in the delivery of quality patient care.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

NURS 3301 - Health Assessment

This course focuses on the registered nurse's synthesis of nursing knowledge and skills to perform a comprehensive health assessment of individuals across the lifespan.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Prerequisites:

- [NURS 3324](#) - Nursing Research and Evidence-Based Practice
-

NURS 3313 - Pathophysiology

This course facilitates the registered nurse's development of systems to manage the health deviations of the individual therapeutically. Concepts of health promotion, disease prevention, disease progression, and treatment are approached from a cellular and multisystem perspective. Influences of genetic, ethnic, and cultural variables on human diseases are analyzed. Content aims at stimulating critical thinking for application to nursing practice in a variety of clinical settings.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [NURS 3324](#) - Nursing Research and Evidence-Based Practice
-

NURS 4326 - Legal and Ethical Considerations in Nursing

This course for the registered nurse (RN) synthesizes ethical/legal concepts required for examination of sound decision making in clinical practice and legal responsibility. The focus is on value clarification, application of ethical theory, ethical decision-making models, and professional ethical standards. Emphasis is on ethical obligations of professional nurses in their roles as citizens, members of a profession, providers of care, and designers and managers of care.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [NURS 3324](#) - Nursing Research and Evidence-Based Practice
-

NURS 3432 - Community Health Nursing

This course introduces the registered nurse to concepts of community health utilizing the population-focused nursing process. Includes levels of disease prevention, principles of epidemiology, community assessment, environmental health, disaster preparedness, and professional nursing roles and inter-professional collaboration in various community settings. Emphasis is on health promotion, risk reduction, and disease management across the lifespan in selected community settings. Practice experience is required and can be completed in the community.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Prerequisites:

- [NURS 3324](#) - Nursing Research and Evidence-Based Practice
-

NURS 4341 - Health Promotion Across the Lifespan

This course introduces the registered nurse to the concept of wellness across the lifespan. Students will examine the concepts of health and wellness, the determinants of health behavior, national health status, the history of health education and health promotion. The student will recognize health promotion as an important foundation for population-based health care.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [NURS 3324](#) - Nursing Research and Evidence-Based Practice
-

NURS 4314 - Nursing Theory

This course examines the theoretical and conceptual bases of nursing to encourage the student to critique, evaluate and utilize appropriate nursing theory within their own practice. Focus will be on a variety of theories from nursing.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [NURS 3324](#) - Nursing Research and Evidence-Based Practice
-

NURS 4301 - Leadership and Management in Nursing

This course focuses on exploration of organizational strategies, leadership theories, and societal trends with implications for decision-making in healthcare. Management techniques and nursing care decisions are examined by synthesizing knowledge of various health care organizations.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Prerequisites:

- [NURS 3324](#) - Nursing Research and Evidence-Based Practice
-

NURS 4232 - Gerontological Nursing

This course examines the physiological, psychological, sociocultural and spiritual aspects of aging within the context of family and society. Emphasis is on trends, theories, evidence-based findings and multidimensional changes of aging and the use of the nursing process for addressing issues related to health promotion, risk reduction and disease prevention in well and frail and vulnerable older adults.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Prerequisites:

- [NURS 3324](#) - Nursing Research and Evidence-Based Practice
-

NURS 4454 - Professional Project

This course requires the registered nurse to synthesize the knowledge acquired in the RN- BSN curriculum toward the development of the Professional Nursing role. Integrated content expectations are evolving issues, lifelong learning, impact of cultural issues, and promotion of the nursing profession. Practicum project required.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Prerequisites:

- [NURS 3244](#) - Issues & Trends in Nursing
 - [NURS 3301](#) - Health Assessment
 - [NURS 3313](#) - Pathophysiology
 - [NURS 3324](#) - Nursing Research and Evidence-Based Practice
 - [NURS 3432](#) - Community Health Nursing
 - [NURS 4232](#) - Gerontological Nursing
 - [NURS 4301](#) - Leadership and Management in Nursing
 - [NURS 4314](#) - Nursing Theory
 - [NURS 4326](#) - Legal and Ethical Considerations in Nursing
 - [NURS 4341](#) - Health Promotion Across the Lifespan
-

NURS 4355 - Community and Public Health

This course discusses community health nursing including the history, structure, and economics of community healthcare systems, program development, and impact of health disparities, health education, and access to resources.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

NURS 4160 - Community and Public Health Clinical

This course provides a health-related work-based learning experience within the community setting.

Grade Basis: L

Credit hours: 1.0

NURS 4457 - Leadership and Management

This course explores leadership and management theories, resource allocation, the nurse as a change agent, member of the profession, communication, and quality improvement in the healthcare setting.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 4.0

PHED - Physical Education

PHED 1110 - General Activities

Fundamental instruction and participation in individual and team sports, including tennis, basketball, volleyball, and weight lifting.

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
-

PHED 1111 - Slimnastics

Exercise course which includes physical self-improvement through total fitness, physical fitness, and body improvement.

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
-

PHED 1112 - Weight Training and Conditioning

Introduction to basic conditioning exercises with primary instruction on proper stretching, weight lifting techniques, and aerobic conditioning methods.

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
-

PHED 1115 - Volleyball/Basketball

Rules, skills, techniques, and strategies of the two sports. Individual skills and team concepts. Emphasis on league and recreation utilization of the two sports.

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
-

PHED 1116 - Jogging and Conditioning

Designed to improve one's fitness level including strength, muscular endurance, running techniques, etc.

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
-

PHED 1130 - Beginning Bowling

Scoring, rules of etiquette, basic skills, and recreational opportunities in community life.

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
-

PHED 1131 - Intermediate Bowling

Advanced skills, spare bowling, various types of ball delivery.

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
 - Beginning Bowling or consent of division director.
-

PHED 1132 - Advanced Bowling

Designed to further enhance individual bowling skills beyond technique and toward overall strategy of the game.

Prerequisite: Intermediate Bowling or consent of division coordinator.

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
-

PHED 1142 - Varsity Sports I

Presentation of current scientific and technical information related to a particular activity with emphasis on developing health and skill related fitness, as well as fundamental skills.

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
-

PHED 1144 - Varsity Conditioning I

This course offers development of skills and personal potential for student athletes interested in improving their performance or preparing for further competition at the upper collegiate level.

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
-

PHED 1164 - Introduction to Physical Fitness & Sport

This course will provide an overview of the lifestyle necessary for fitness and health. Students will participate in physical activities and assess their fitness status. Students will be introduced to proper nutrition, weight management, cardiovascular health, flexibility, and strength training.

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
-

PHED 2111 - Yoga

Exercise course which includes instruction and participation in yoga

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
-

PHED 2112 - Weight Training and Conditioning

Designed to further enhance individual conditioning, stretching, weight lifting techniques, and aerobic conditioning.

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
-

PHED 2116 - Jogging, Walking, and Conditioning II

Designed to further enhance one's fitness level including strength, muscular endurance, running techniques, etc.

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
-

PHED 2142 - Varsity Sports II

Presentation of current scientific and technical information related to a particular activity with emphasis on developing health and skill related fitness, as well as fundamental skills.

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
-

PHED 2144 - Varsity Conditioning II

This course offers development of skills and personal potential for student athletes interested in improving their performance or preparing for further competition at the upper collegiate level.

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
-

PHED 1301 - Foundations of Kinesiology

The purpose of this course is to provide students with an introduction to human movement that includes the historical development of physical education, exercise science, and sport. This course offers the student both an introduction to the knowledge base, as well as information on expanding career opportunities.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Theory Course
-

PHED 1331 - Physical Education for Elementary Education Majors

An overview of the program of activities in elementary school physical education. Includes The study and practice of activities and principles that promote physical fitness with an emphasis on historical development, philosophical implications physical fitness, and kinesiology.

Grade Basis: L

Credit hours: 3.0

PHED 1304 - Personal & Community Health I

This course provides an introduction to the fundamentals, concepts, strategies, applications, and contemporary trends related to understanding personal and/or community health issues. This course also focuses on empowering various populations with the ability to practice healthy living, promote healthy lifestyles, and enhance individual well-being.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Theory Course
-

PHED 1306 - First Aid

Instruction and practice for emergency care. Designed to enable students to recognize and avoid hazards within their environment, to render intelligent assistance in case of accident or sudden illness, and to develop skills necessary for the immediate and temporary care of the victim. Successful completion of the course may enable the student to receive a certificate from a nationally recognized agency.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Theory Course
-

PHED 1308 - Sports Officiating I

The purpose of the course is to study officiating requirements for sports and games with an emphasis on mechanics, rule interpretation, and enforcement.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Theory Course
-

PHED 1321 - Coaching/Sports/Athletics

Study of the history, theories, philosophies, rules, and terminology of competitive sports. Includes coaching techniques.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Theory Course
-

PHED 1338 - Concepts of Physical Fitness

This course is designed to familiarize students with knowledge, understanding, and values of health-related fitness and its influence on the quality of life emphasizing the development and implementation of fitness programs.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Theory Course
-

PHED 2356 - Care and Prevention of Athletic Injuries

Prevention and care of athletic injuries with emphasis on qualities of a good athletic trainer, avoiding accidents and injuries, recognizing signs and symptoms of specific sports injuries and conditions, immediate and long-term care of injuries, and administration procedures in athletic training.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

PHED 1346 - Drug Use and Abuse

Study of the use, misuse and abuse of drugs and other harmful substances in today's society. Physiological, Sociological, Pharmacological and Psychological factors will be emphasized.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

PHIL - Philosophy

PHIL 1301 - Introduction to Philosophy

A study of major issues in philosophy and/or the work of major philosophical figures in philosophy. Topics in philosophy may include theories of reality, theories of knowledge, theories of value, and their practical applications.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

PHIL 1304 - Introduction to World Religions

A comparative study of world religions, including but not limited to Hinduism, Buddhism, Judaism, Christianity, and Islam.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

PHIL 2306 - Introduction to Ethics

The systematic evaluation of classical and/or contemporary ethical theories concerning the good life, human conduct in society, morals, and standards of value.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

PHIL 2321 - Philosophy of Religion

A study of the major issues in the philosophy of religion such as the existence and nature of God, the relationships between faith and reason, the nature of religious language, religious experience, and the problem of evil.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

PHYS - Physics

PHYS 1301 - College Physics I

Fundamental principles of physics, using algebra and trigonometry; the principles and applications of classical mechanics and thermodynamics, including harmonic motion, mechanical waves and sound, physical systems, Newton's Laws of Motion, and gravitation and other fundamental forces; with emphasis on problem solving.

Corequisite of PHYS 1101

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [MATH 1314](#) - College Algebra **AND** [MATH 1316](#) - Plane Trigonometry
OR
- [MATH 2312](#) - Pre-Calculus Math

Corequisites:

- [PHYS 1101](#) - College Physics I (lab)

Restrictions:

- College readiness in reading and math required.
 - ACGM states: Prerequisite of MATH 1314 or 1414 College Algebra AND MATH 1316 Plane Trigonometry or MATH 2312 or 2412 Pre-Calculus
-

PHYS 1101 - College Physics I (lab)

This laboratory-based course accompanies PHYS 1301, College Physics I. Laboratory activities will reinforce fundamental principles of physics, using algebra and trigonometry; the principles and applications of classical mechanics and thermodynamics, including harmonic motion, mechanical waves and sound, physical systems, Newton's Laws of Motion, and gravitation and other fundamental forces; emphasis will be on problem solving.

Corequisite of PHYS 1301

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Corequisites:

- [PHYS 1301](#) - College Physics I

Restrictions:

- College readiness in reading and math required.
 - Prerequisite of C or higher in MATH 1314 or 1414 College Algebra AND MATH 1316 Plane Trigonometry or MATH 2312 or 2412 Pre-Calculus
-

PHYS 1302 - College Physics II

Fundamental principles of physics, using algebra and trigonometry; the principles and applications of electricity and magnetism, including circuits, electrostatics, electromagnetism, waves, sound, light, optics, and modern physics topics; with emphasis on problem solving. Corequisite of PHYS 1102

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [PHYS 1101](#) - College Physics I (lab)
- [PHYS 1301](#) - College Physics I

Corequisites:

- [PHYS 1102](#) - College Physics II (lab)

Restrictions:

- Successful completion with a grade of C or better in PHYS 1301/1101 is required
-

PHYS 1102 - College Physics II (lab)

This laboratory-based course accompanies PHYS 1302, College Physics II. Laboratory activities will reinforce fundamental principles of physics, using algebra and trigonometry; the principles and applications of electricity and magnetism, including circuits, electrostatics, electromagnetism, waves, sound, light, optics, and modern physics topics; with emphasis on problem solving. Corequisite of PHYS 1302

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Corequisites:

- [PHYS 1302](#) - College Physics II

Restrictions:

- College readiness in reading and math required.
 - Prerequisite of PHYS 1301/1101
-

PHYS 1315 - Physical Science I

Course designed for non-science majors that surveys topics from physics, chemistry, geology, astronomy, and meteorology. Corequisite of PHYS 1115

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Corequisites:

- [PHYS 1115](#) - Physical Science Laboratory I

Restrictions:

- College readiness in reading and math required.
-

PHYS 1115 - Physical Science Laboratory I

Course, designed for non-science majors, that surveys topics from physics, chemistry, geology, astronomy, and meteorology. Corequisite of PHYS 1315

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Corequisites:

- [PHYS 1315](#) - Physical Science I

Restrictions:

- College readiness in reading is required.
-

PHYS 1104 - Solar System (lab)

Laboratory in the study of the sun and its solar system, including its origin. Corequisite of PHYS 1304

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Corequisites:

- [PHYS 1304](#) - Solar System

Restrictions:

- College readiness in reading is required.
-

PHYS 1304 - Solar System

Study of the sun and its solar system, including its origin. Corequisite of PHYS 1104

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Corequisites:

- [PHYS 1104](#) - Solar System (lab)

Restrictions:

- College readiness in reading and math required.
-

PHYS 1303 - Stars and Galaxies

Study of stars, galaxies, and the universe outside our solar system. Corequisite of PHYS 1103

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Corequisites:

- [PHYS 1103](#) - Stars and Galaxies

Restrictions:

- College readiness in reading and math required.
-

PHYS 1103 - Stars and Galaxies

Laboratory in the study of stars, galaxies, and the universe outside our solar system. Corequisite of PHYS 1303

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Corequisites:

- [PHYS 1303](#) - Stars and Galaxies

Restrictions:

- College readiness in reading and math required.
-

PHYS 2325 - University Physics I

Fundamental principles of physics, using calculus, for science, computer science, and engineering majors; the principles and applications of classical mechanics, including harmonic motion, physical systems and thermodynamics; and emphasis on problem solving. Corequisite of PHYS 2125

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Corequisites:

- [MATH 2413](#) - Calculus I
 - [PHYS 2125](#) - University Physics Laboratory I
-

PHYS 2326 - University Physics II

Principles of physics for science, computer science, and engineering majors, using calculus, involving the principles of electricity and magnetism, including circuits, electromagnetism, waves, sound, light, and optics. Corequisite of PHYS 2126

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [PHYS 2325](#) - University Physics I

Corequisites:

- [MATH 2414](#) - Calculus II
 - [PHYS 2126](#) - University Physics Laboratory II
-

PHYS 2125 - University Physics Laboratory I

Basic laboratory experiments supporting theoretical principles presented in PHYS 2325 involving the principles and applications of classical mechanics, including harmonic motion and physical systems; experimental design, data collection and analysis, and preparation of laboratory reports.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Corequisites:

- [MATH 2413](#) - Calculus I
 - [PHYS 2325](#) - University Physics I
-

PHYS 2126 - University Physics Laboratory II

Laboratory experiments supporting theoretical principles presented in PHYS 2326 involving the principles of electricity and magnetism, including circuits, electromagnetism, waves, sound, light, and optics; experimental design, data collection and analysis, and preparation of laboratory reports. Corequisite of PHYS 2326

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [PHYS 2125](#) - University Physics Laboratory I
- [PHYS 2325](#) - University Physics I

Corequisites:

- [MATH 2414](#) - Calculus II
- [PHYS 2326](#) - University Physics II

PLAB - Phlebotomy (WECM)

PLAB 1160 - Phlebotomy Clinical

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Grade Basis: L

Credit hours: 1.0

Lab hours: 4.0

Restrictions:

- Acceptable scores in college readiness exam, pre-entrance health exam, documentation of required immunizations, pass drug screen, pass a criminal background check, documentation of CPR for Healthcare Providers from American Heart Association.
 - Concurrent enrollment with PLAB 1223 is required. Program director and clinical instructor authorization is needed to register for the phlebotomy clinical course without PLAB 1223
-

PLAB 1223 - Phlebotomy

Skill development in the performance of a variety of blood collection methods using proper techniques and universal precautions. Includes vacuum collection devices, syringes, capillary skin puncture, butterfly needles and blood culture, and specimen collection on adults, children, and infants. Emphasis on infection prevention, proper patient identification, labeling of specimens and quality assurance, specimen handling, processing, accessioning, professionalism, ethics, and medical terminology. Students who are certified phlebotomists or have recent documented experience as a phlebotomist may request credit for this course. Each request will be considered individually and must be approved by the MLT Program Director.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 4.0

Restrictions:

- Concurrent enrollment in MLAB 1260 required
 - A grade of "C" or better is required for graduation.
-

PLAB 1161 - Clinical Phlebotomy

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Concurrent enrollment or previous completion of PLAB1223 and PLAB1160 are required.

Grade Basis: L

Credit hours: 1.0

Lab hours: 4.0

POFI - Office Technology (WECM)

POFI 1301 - Computer Applications I

Overview of computer office applications including current terminology and technology. Introduction to computer hardware, software applications, and procedures. This course is designed to be repeated multiple times to improve student proficiency.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

POFI 2301 - Word Processing

Word processing software focusing on business applications. This course is designed to be repeated multiple times to improve student proficiency.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

POFM - Medical Administrative Assistant (WECM)

POFM 1317 - Medical Administrative Support

(FALL ONLY) Instruction in medical office procedures including appointment scheduling, medical records creation and maintenance, telephone communications, coding, billing, collecting, and third-party reimbursements.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

POFT - Administrative Assistance (WECM)

POFT 1301 - Business English

Introduction to a practical application of basic language usage skills with emphasis on fundamentals of writing and editing for business.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

POFT 1313 - Professional Workforce Preparation

Preparation for career success including ethics, interpersonal relations, professional attire, and advancement

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

POFT 1120 - Job Search Skills

Skills to seek and obtain employment in business and industry.

Grade Basis: L
Credit hours: 1.0
Lecture hours: 1.0

POFT 2303 - Speed and Accuracy Building

Review, correct, and improve keyboarding techniques for the purpose of Increasing speed and improving accuracy. This course is designed to be repeated multiple times to improve student proficiency.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

POFT 2312 - Business Correspondence & Communication

(Spring Only) Development of writing and presentation skills to produce effective business communications.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

POFT 2331 - Administrative Project Solutions

(SPRING ONLY). Advanced concepts of project management and office procedures integrating software applications, critical thinking, and problem-solving skills.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

PSTR - Baking and Pastry Arts (WECM)

PSTR 1301 - Fundamentals of Baking

Fundamentals of baking including dough, quick breads, pies, cakes, cookies, tarts, and doughnuts. Instruction in flours, fillings, and ingredients. Topics include baking terminology, tool and equipment use, formula conversions, functions of ingredients, and the evaluation of baked products. Professional chef uniform and kitchen tools required. Lab required.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Prerequisites:

- [CHEF 1205](#) - Sanitation and Safety
 - [PSTR 1301](#) - Fundamentals of Baking
-

PSTR 2331 - Advanced Pastry Shop

A study of classical desserts, French and international pastries, hot and cold desserts, ice creams and ices, chocolate work, and decorations. Emphasis on advanced techniques.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

PSYC - Psychology

PSYC 1300 - Learning Frameworks

A study of the (1) research and theory in the psychology of learning, cognition, and motivation, (2) factors that impact learning, and (3) application of learning strategies. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for the introduction of college-level student academic strategies. Students use assessment instruments (e.g., learning inventories) to help them identify their own strengths and weaknesses as strategic learners. Students are ultimately expected to integrate and apply the learning skills discussed across their own academic programs and become effective and efficient learners. Students developing these skills should be able to continually draw from the theoretical models they have learned.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Only one of the cross-listed courses can be taken for credit.
-

PSYC 2301 - General Psychology

General Psychology is a survey of the major psychological topics, theories and approaches to the scientific study of behavior and mental processes.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

PSYC 2306 - Human Sexuality

This course will provide an overview of the broad field of human sexuality. Topics will be covered from various perspectives – biological, sociological, anthropological, etc., but will focus primarily on the psychological perspective. The goal is for each student to learn factual, scientifically-based information that will provoke thought and contribute to his/her own decision-making on sexual issues outside of the classroom. Cross-listed as SOCI 2306.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Only one of the cross-listed courses can be taken for credit.
-

PSYC 2314 - Lifespan, Growth & Development.

Life-Span Growth and Development is a study of social, emotional, cognitive and physical factors and influences of a developing human from conception to death.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

PSYC 2315 - Psychology of Adjustment

Study of the processes involved in adjustment of individuals to their personal and social environments.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [PSYC 2301](#) - General Psychology
-

PSYC 2319 - Social Psychology

Study of individual behavior within the social environment. May include topics such as the socio-psychological process, attitude formation and change, interpersonal relations, and group processes. Cross-listed as SOCI 2326.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [PSYC 2301](#) - General Psychology

Restrictions:

- Only one of the cross-listed courses can be taken for credit.
-

PSYC 2320 - Abnormal Psychology

This course provides an introduction to the psychological, biological, and socio-cultural factors involved in the development, diagnosis, and treatment of psychological disorders. It includes a review of the historical understanding of abnormal behavior and the development of modern diagnostic systems. It includes discussion of psychological research and practice as it relates to mental health and psychological functioning, as well as legal and ethical issues. (PSYC 2320 is included in the Psychology Field of Study.)

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [PSYC 2301](#) - General Psychology
-

PSYC 2330 - Biological Psychology

An introduction to the biological bases of behavior. Topics include evolution, genetics, research methods in behavioral neuroscience, motivation and emotion, sensation and perception, learning and memory, lifespan development, cognition, psychological disorders, and other complex behaviors. (PSYC 2330 is included in the Psychology Field of Study.)

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [PSYC 2301](#) - General Psychology

QCTC - Quality Control Technology (WECM)

QCTC 1343 - Quality Assurance

Principles and applications designed to introduce quality assurance. Covers the benefits and applications of quality assurance, proficiency in the use of the tools of quality assurance, application of sampling techniques, evaluation of quality assurance standards, performance of system audits and implementation of a corrective and preventative action plan.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

RADR - Radiologic Technology (WECM)

RADR 1160 - Clinical I

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Grade Basis: L

Credit hours: 1.0

Lab hours: 4.0

Restrictions:

- Concurrent enrollment: RADR 1301, 1303, 1311.
 - Acceptable scores in college readiness exam and Program Entrance Exam, completion of the required academic prerequisite courses, attendance at a program information meeting; pre-entrance health exam, documentation of required immunizations, pass drug screen, pass criminal background check, documentation of CPR for Healthcare Providers from American Heart Association or Red Cross.
-

RADR 1213 - Principles of Radiographic Imaging I.

An introduction to radiographic image qualities and the effects of exposure variables upon these qualities.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Restrictions:

- Concurrent Enrollment: RADR 2401, 2313, 1361.
 - Completion of RADR 1301, 1303, 1311 and 1160 with a C or better
-

RADR 1301 - Introduction to Radiography

An introduction to radiation protection, professional ethics, darkroom procedures, medical terminology, prime exposure factors, technical factors of film quality and image receptors.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Concurrent Enrollment: RADR 1303, 1311, 1160.
 - Acceptable scores in college readiness exam and Program Entrance Exam, completion of the required 16 hours of academic prerequisite courses, attendance at a program information meeting; pre-entrance health exam, documentation of required immunizations, pass drug screen, pass criminal background check, documentation of CPR for Healthcare Providers from American Heart Association.
-

RADR 1303 - Patient Care

An introduction in patient assessment, infection control procedures, emergency and safety procedures, communication and patient interaction skills, and basic pharmacology.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Concurrent Enrollment: RADR 1301, 1311, 1160.
 - Acceptable scores in college readiness exam and Program Entrance Exam, completion of the required 16 hrs of academic prerequisite courses, attendance at a program information meeting; pre-entrance health exam, documentation of required immunizations, pass drug screen, pass criminal background check, documentation of CPR for Healthcare Providers from American Heart Association.
-

RADR 1311 - Basic Radiographic Procedures.

An introduction to radiographic positioning terminology, the proper manipulation of equipment, positioning and alignment of the anatomical structure and equipment, and evaluation of images for proper demonstration of basic anatomy.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Restrictions:

- Concurrent Enrollment: RADR 1301, 1303, 1160.
 - Acceptable scores in college readiness exam and Program Entrance Exam, completion of the required 16 hrs of academic pre-requisite courses, attendance at a program information meeting; pre-entrance health exam, documentation of required immunizations, pass drug screen, pass criminal background check, documentation of CPR for Health Care Providers from American Heart Association.
-

RADR 1361 - Clinical II

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Grade Basis: L

Credit hours: 3.0

Lab hours: 16.0

Restrictions:

- Concurrent Enrollment: RADR 1213, 2313, 2401
 - Completion of RADR 1301, 1303, 1311 and 1160 with a C or better
-

RADR 1262 - Clinical III

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Grade Basis: L

Credit hours: 2.0

Lab hours: 12.0

Restrictions:

- Huma / Fine Arts Core, RADR 1301, 1303, 1311, 1160, 1213, 2401, 2313, 1361.
 - Must be taken in sequence as listed in degree plan.
-

RADR 2217 - Radiographic Pathology

A presentation of the disease process and common diseases and their appearance on medical images.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Restrictions:

- Concurrent Enrollment: RADR 2305, 2463, 2309.
 - Completion of RADR 1301, 1303, 1311, 1160, 1213, 2401, 2313 and 1361 with a C or better
-

RADR 2233 - Advanced Medical Imaging

An exploration of specialized imaging modalities.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Restrictions:

- Concurrent Enrollment: RADR 2235, 2431, 2367.
 - Completion of RADR 1301, 1303, 1311, 1160, 1213, 2401, 2313 and 1361, 2217, 2305, 2309, and 2463 with a C or better
-

RADR 2235 - Radiologic Technology Seminar

A capstone course focusing on the synthesis of professional knowledge, skills, and attitudes in preparation for professional employment and lifelong learning.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Restrictions:

- Concurrent Enrollment: RADR 2233, 2431, 2367.
 - Completion of RADR 1301, 1303, 1311, 1160, 1213, 2401, 2313 and 1361, 2217, 2305, 2309, and 2463 with a C or better
-

RADR 2305 - Principles of Radiographic Imaging II

A continuation of the study of radiographic imaging technique formulation, image quality assurance, and the synthesis of all variables in image production. Lab is included.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- Concurrent Enrollment: RADR 2217, 2463, 2309
 - Completion of RADR 1301, 1303, 1311, 1160, 1213, 2401, 2313 and 1361 with a C or better
-

RADR 2309 - Radiographic Imaging Equipment

A study of the radiographic equipment, components, accessories and the physics that apply to x-ray production. The course includes the basic x-ray circuits, and the relationship of equipment components to the outcome of the imaging process.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Concurrent Enrollment: RADR 2217, 2305, 2463.
 - Completion of RADR 1301, 1303, 1311, 1160, 1213, 2401, 2313 and 1361 with a C or better
-

RADR 2313 - Radiation Biology and Protection

A study of the effects of radiation exposure on biological systems, typical medical exposure levels, methods for measuring and monitoring radiation, and methods for protecting personnel and patients from excessive exposure.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Concurrent Enrollment: RADR 1213, 2401, 1361.
 - Completion of RADR 1301, 1303, 1311 and 1160 with a C or better
-

RADR 2367 - Practicum

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

Grade Basis: L

Credit hours: 3.0

Lab hours: 24.0

Restrictions:

- Concurrent Enrollment: RADR 2233, 2235, 2431.
 - Completion of RADR 1301, 1303, 1311, 1160, 1213, 2401, 2313 and 1361, 2217, 2305, 2309, and 2463 with a C or better
-

RADR 2401 - Intermediate Radiographic Procedures

A continuation of the study of the proper manipulation of radiographic equipment, positioning and alignment of the anatomical structure and equipment, and evaluation of images for proper demonstration of anatomy.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 4.0

Restrictions:

- Concurrent Enrollment: RADR 1213, 2313, 1361.
 - Completion of RADR 1301, 1303, 1311 and 1160 with a C or better
-

RADR 2431 - Advanced Radiographic Procedures

Continuation of positioning; alignment of the anatomical structure and equipment, evaluation of images for proper demonstration of anatomy and related pathology. Lab included.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 2.0

Restrictions:

- Concurrent Enrollment: RADR 2233, 2235, 2367.
 - Completion of RADR 1301, 1303, 1311, 1160, 1213, 2401, 2313 and 1361, 2217, 2305, 2309, and 2463 with a C or better
-

RADR 2463 - Radiologic Technology Clinical IV

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Grade Basis: L

Credit hours: 4.0

Lab hours: 24.0

Restrictions:

- Concurrent Enrollment: RADR 2217, 2305, 2309.
- Completion of RADR 1301, 1303, 1311, 1160, 1213, 2401, 2313 and 1361 with a C or better

RNSG - Nursing

RNSG 1119 - Integrated Nursing Skills (Nursing 1)

Study of the concepts and principles necessary to perform basic nursing skills for care of diverse patients across the life span; demonstrate competence in the performance of nursing procedures. Content includes knowledge, judgment, skills, and professional values within a legal/ethical framework.

Grade Basis: P

Credit hours: 1.0

Lab hours: 3.0

Restrictions:

- RNSG 1119 must be taken concurrently with RNSG 1423 and RNSG 1360.
 - A grade of "PASS" is required to progress to Nursing 2 courses.
-

RNSG 1144 - Nursing Skills (Nursing 2)

Study of the concepts and principles necessary to perform intermediate or advanced nursing skills; demonstrate competence in the performance of nursing procedures. Topics include knowledge, judgment, skills and professional values within a legal/ethical framework.

Grade Basis: P

Credit hours: 1.0

Lab hours: 3.0

Restrictions:

- This course must be taken concurrently with RNSG 2404 and RNSG 1461.
 - A grade of "PASS" is required to progress to Nursing 3 courses.
 - Must be taken in sequence as listed in degree plan.
-

RNSG 1227 - Transition from Vocational to Professional Nursing. LVN to RN Transitional Entry

Content includes health promotion, expanded assessment, analysis of data, critical thinking skills and systematic problem solving process, pharmacology, interdisciplinary teamwork, communication, and applicable competencies in knowledge, judgment, skills, and professional values within a legal/ethical framework throughout the life span.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 2.0

Restrictions:

- RNSG must be taken concurrently with RNSG 1413.
 - After satisfactory completion of this course and RNSG 1413, the LVN/LPN will enter Nursing 3.
 - A grade of "C" or better is required before credit award is given and the student proceeds on to Nursing 3.
 - Must be a LVN/LPN to be able to enroll in this course.
-

RNSG 1413 - Foundations for Nursing Practice – LVN to RN Transitional Entry

Introduction to the role of the professional nurse as provider of patient-centered care, patient safety advocate, member of health care team, and member of the profession. Content includes fundamental concepts of nursing practice, history of professional nursing, and a systematic framework for decision-making and critical thinking. Application of concepts related to nursing care of patients across the life span including common childhood/adolescent diseases, uncomplicated perinatal care, mental health concepts, perioperative care, frequently occurring adult health problems and health issues related to aging. Emphasis on knowledge, judgment, skills, and professional values within a legal/ethical framework.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 2.0

Restrictions:

- RNSG 1413 must be taken concurrently with RNSG 1227.
 - After satisfactory completion of this course and RNSG 1227, the LVN / LPN will enter Nursing 3.
 - A grade of "C" or better is required before credit award is given and student proceeds on to Nursing 3.
 - Must be taken in sequence as listed in degree plan.
 - Must be a LVN/LPN to be able to enroll in this course.
-

RNSG 1360 - Clinical (Nursing 1)

A health related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Grade Basis: P

Credit hours: 3.0

Lab hours: 12.0

Restrictions:

- This course must be taken concurrently with RNSG 1119 and RNSG 1423
 - A grade "PASS" is required to progress to Nursing 2 courses.
 - Must be taken in sequence as listed in degree plan.
-

RNSG 1461 - Clinical (Nursing 2)

A health related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Grade Basis: P

Credit hours: 4.0

Lab hours: 12.0

Restrictions:

- This course must be taken concurrently with RNSG 1144 and RNSG 2404.
 - A grade of "PASS" is required to progress to Nursing 3 courses.
 - Must be taken in sequence as listed in degree plan.
-

RNSG 1423 - Introduction to Professional Nursing for Integrated Programs (Nursing 1)

Introduction to the profession of nursing including the roles of the professional nurse as provider of patient-centered care, patient safety advocate, member of health care team, and member of profession with emphasis on health promotion and primary disease prevention across the life span; essential components of the nursing health assessment; identification of deviations from expected health patterns; the application of a systematic, problem-solving process to provide basic nursing care to diverse patients across the life span; and applicable competencies in knowledge, judgment, skills, and professional values within a legal/ethical framework.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 4.0

Restrictions:

- RNSG 1423 must be taken concurrently with RNSG 1119 and RNSG 1360.
 - A grade of "C" or better is required to progress to Nursing 2 courses.
 - Must be taken in sequence as listed in degree plan.
-

RNSG 2404 - Integrated Care of the Patient with Common Health Care Needs (Nursing 2)

Application of a systematic problem-solving process, critical thinking skills and concepts to provide nursing care to diverse patients and families across the life span with common health care needs including, but not limited to, common childhood/adolescent diseases, uncomplicated perinatal care, mental health concepts, perioperative care, frequently occurring adult health problems and health issues related to aging. Emphasis on secondary disease prevention and collaboration with members of the interdisciplinary health care team. Content includes roles of the professional nurse and applicable competencies in knowledge, judgment, skills, and professional values within a legal/ethical framework. This course lends itself to an integrated approach.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 4.0

Restrictions:

- RNSG 2404 must be taken concurrently with RNSG 1144 & 1461.
 - A grade of "C" is required to progress to Nursing 3
 - Must be taken in sequence as listed in degree plan.
-

RNSG 2414 - Integrated Care of the Patient with Complex Health Care Needs (Nursing 3)

Application of a systematic problem-solving process, critical thinking skills and concepts to provide comprehensive nursing care to diverse patients and families across the life span with complex health care needs including, but not limited to, complex childhood/adolescent diseases, complicated perinatal care, acute mental illness, complex perioperative care, serious adult health problems and health issues related to aging. Emphasis on tertiary disease prevention, health maintenance/restoration and collaboration with members of the interdisciplinary health care team. Content includes the roles of the professional nurse and applicable competencies in knowledge, judgment, skills, and professional values within a legal/ethical framework.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 4.0

Restrictions:

- Must be taken concurrently with RNSG 2462.
 - A grade of "C" or better is required to progress to Nursing 4 courses.
 - Must be taken in sequence as listed in degree plan.
-

RNSG 2435 - Integrated Client Care Management (Nursing 4)

Application of independent nursing interventions to care for diverse patients and families throughout the lifespan whose healthcare needs may be difficult to predict. Emphasis on collaborative clinical reasoning, nursing leadership skills, and patient management. Content includes the significance of professional development, trends in nursing and healthcare, and applicable knowledge, judgement, skills, and professional values within a legal/ethical framework.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 4.0

Restrictions:

- Must be taken concurrently with RNSG 2463.
 - A grade of "C" or better is required.
 - Must be taken in sequence as listed in degree plan.
-

RNSG 2462 - Clinical (Nursing 3)

A health related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Grade Basis: P

Credit hours: 4.0

Lab hours: 15.0

Restrictions:

- This course must be taken concurrently with RNSG 2414.
 - A grade of "PASS" is required to progress to Nursing 4 courses.
 - Must be taken in sequence as listed in degree plan.
-

RNSG 2463 - Clinical (Nursing 4)

A health related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Grade Basis: L

Credit hours: 4.0

Lab hours: 15.0

Restrictions:

- This course must be taken concurrently with RNSG 2435. A grade of "PASS" is required.
- Must be taken in sequence as listed in degree plan.

RSTO - Restaurant, Culinary, and Catering Management (WECM)

RSTO 1304 - Dining Room Service

Introduces the principles, concepts, and systems of professional table service. Topics include dining room organization, scheduling, and management of food service personnel.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

Prerequisites:

- [CHEF 1205](#) - Sanitation and Safety

SCIT - Science (WECM)

SCIT 1305 - Intro to Ag Chemistry

Introduction to chemical components in agricultural applications. Topics include metric system, nomenclature, solutions, and pH in relation to the areas of soils and agricultural applications. Additional topics include chemical composition of grapes and wine, importance of pH in winemaking, titratable acidity, buffer capacity and equilibriums in wine, and fermentation end products.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

SOCI - Sociology

SOCI 1301 - Introduction to Sociology

The scientific study of human society, including ways in which groups, social institutions, and individuals affect each other. Causes of social stability and social change are explored through the application of various theoretical perspectives, key concepts, and related research methods of sociology. Analysis of social issues in their institutional context may include topics such as social stratification, gender, race/ethnicity, and deviance.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

SOCI 1306 - Social Problems

Application of sociological principles to the major problems of contemporary society such as inequality, crime and violence, substance abuse, deviance, or family problems.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

SOCI 2301 - Marriage & the Family

Sociological and theoretical analysis of the structures and functions of the family, the varied cultural patterns of the American family, and the relationships that exist among the individuals within the family, as well as the relationships that exist between the family and other institutions in society.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [SOCI 1301](#) - Introduction to Sociology

Restrictions:

- SOCI 1301 or consent of instructor
-

SOCI 2306 - Human Sexuality

This course will provide an overview of the broad field of human sexuality. Topics will be covered from various perspectives – biological, sociological, anthropological, etc., but will focus primarily on the psychological perspective. The goal is for each student to learn factual, scientifically based information that will provoke thought and contribute to his/her own decision-making on sexual issues outside of the classroom.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [SOCI 1301](#) - Introduction to Sociology

Restrictions:

- SOCI 1301 or consent of instructor
 - Cross-listed as PSYC 2306. Only one of the cross-listed courses can be taken for credit
-

SOCI 2319 - Minority Studies I

This course studies minority-majority group relations, addressing their historical, cultural, social, economic, and institutional development in the United States. Both sociological and social psychological levels of analysis will be employed to discuss issues including experiences of minority groups within the context of their cultural heritage and tradition, as well as that of the dominant culture. Core concepts to be examined include (but are not limited to) social inequality, dominance/subordination, prejudice, and discrimination. Particular minority groups discussed may include those based on poverty, race/ethnicity, gender, sexual orientation, age, disability, or religion.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [SOCI 1301](#) - Introduction to Sociology

Restrictions:

- SOCI 1301 or consent of instructor
-

SOCI 2326 - Social Psychology

Study of individual behavior within the social environment. May include topics such as the socio-psychological process, attitude formation and change, interpersonal relations, and group processes.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [SOCI 1301](#) - Introduction to Sociology

Restrictions:

- SOCI 1301 or consent of instructor
 - Cross-listed as PSYC 2319. Only one of the cross-listed courses can be taken for credit
-

SOCI 2336 - Criminology

The course surveys various theories of crime, with an emphasis on understanding the social causes of criminal behavior. The techniques for measuring crime as a social phenomenon and the characteristics of criminals are examined. This course addresses crime types (such as consensual or white-collar crimes), the criminal justice system, and other social responses to crime.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

SOCI 2389 - Academic Cooperative Sel Fields

An instructional program designed to integrate on-campus study with practical hands-on experience in sociology. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of human social behavior and/or social institutions.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

SOCI 2340 - Drug Use and Abuse

Study of the use and abuse of drugs in today's society. Emphasizes the physiological, sociological, and psychological factors.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

SPAN - Spanish Language

SPAN 1300 - Beginning Spanish Conversation I

Basic practice in comprehension and production of the spoken language.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

SPAN 1411 - Beginning Spanish I

Basic Spanish language skills in listening, speaking, reading and writing within a cultural framework. Students will acquire the vocabulary and grammatical structures necessary to communicate and comprehend at the beginner level.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 2.0

SPAN 1412 - Beginning Spanish II

Continued development of basic Spanish language skills in listening, speaking reading, and writing within a cultural framework. Students acquire the vocabulary and grammatical structures necessary to communicate and comprehend at the high beginner to low intermediate level.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 2.0

Prerequisites:

- [SPAN 1411](#) - Beginning Spanish I
-

SPAN 2311 - Intermediate Spanish I

The consolidation of skills acquired at the introductory level. Further development of proficiency in listening, speaking, reading and writing. Emphasis on comprehension, appreciation, and interpretation of the cultures of the Spanish-speaking world.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [SPAN 1412](#) - Beginning Spanish II
-

SPAN 2312 - Intermediate Spanish II

The consolidation of skills acquired at the Introductory level. Further development of proficiency in listening, speaking, reading and writing. Emphasis on comprehension, appreciation, and interpretation of the cultures of the Spanish-speaking world.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [SPAN 2311](#) - Intermediate Spanish I
-

SPAN 2389 - Academic Cooperative

An instructional program designed to integrate on-campus study with practical hands-on work experience in the physical sciences. In conjunction with class seminars, the individual students will set specific goals and objectives in the scientific study of inanimate objects, processes of matter and energy, and associated phenomena.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [SPAN 1412](#) - Beginning Spanish II

SPCH - Speech

SPCH 1311 - Introduction to Speech Communication

Introduces basic human communication principles and theories embedded in a variety of contexts including interpersonal, small group, and public speaking. (R W)

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

SPCH 1315 - Public Speaking

Application of communication theory and practice to the public speaking context, with emphasis on audience analysis, speaker delivery, ethics of communication, cultural diversity, and speech organizational techniques to develop students' speaking abilities, as well as ability to effectively evaluate oral presentations. (R W)

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

SPCH 1318 - Interpersonal Communication

Application of communication theory to interpersonal relationship development, maintenance, and termination in relationship contexts including friendships, romantic partners, families, and relationships with co-workers and supervisors.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

SPCH 1321 - Business & Professional Communication

Study and application of communication within the business and professional context. Special emphasis will be given to communication competencies in presentations, dyads, teams and technologically mediated formats. (R W)

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

SPCH 2335 - Argumentation and Debate

Theories and practice in argumentation and debate including analysis, reasoning, organization, 235 evidence, and refutation.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

TECA - Early Childhood Education

TECA 1303 - Families, Schools and Community

A study of the child, family, community and school, including parent education and involvement, family and community lifestyles, child abuse, and current family life issues. Course content must be aligned with as applicable with State Board of Educator Certification Pedagogy and Professional Responsibilities standards and coincide with the National Association for the Education of Young Children position statement related to developmentally appropriate practices for children from birth through age eight. Requires students to participate in field experiences with children from infancy through age 12 in a variety of settings with varied and diverse populations. The course includes a minimum of 16 hours of field experience.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

TECA 1311 - Educating Young Children

An introduction to the education of the young child, including developmentally appropriate practices and programs, theoretical and historical perspectives, ethical and professional responsibilities, and current issues. Course content must be aligned as applicable with State Board of Educator Certification Pedagogy and Professional Responsibilities standards and coincide with the National Association for the Education of Young Children position statement related to developmentally appropriate practices for children from birth through age eight. Requires students to participate in field experiences with children from infancy through age 12 in a variety of settings with varied and diverse populations; and the course includes a minimum of 16 hours of field experiences.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

TECA 1318 - Wellness of the Young Child

A study of the factors that impact the well-being of the young child including healthy behavior, food, nutrition, fitness, and safety practices. Focuses on local and national standards and legal implications of relevant policies and regulations. Course content must be aligned as applicable with State Board for Educator Certification Pedagogy and Professional Responsibilities standards and coincide with the National Association for the Education of Young Children position statement related to developmentally appropriate practices for children from birth to age eight. Requires students to participate in field experiences with children from infancy through age 12 in a variety of settings with varied and diverse populations. Course includes a minimum of 16 hours of field experiences.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

TECA 1354 - Child Growth & Development

A study of the physical, emotional, social, language, and cognitive factors impacting growth and development of children through adolescence.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

TECM - Applied Mathematics (WECM)

TECM 1303 - Technical Calculations

Specific mathematical calculations required by business, industry, and health occupations. Solve technical math problems using addition, subtraction, multiplication, and division; convert between whole numbers, fractions, mixed numbers, and decimals; perform calculations involving percent, ratios, and proportions; and convert numbers to different units of measurement (standard and/or metric).

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

VNSG - Vocational Nurse Training (WECM)

VNSG 1219 - Leadership and Professional Development

Study of the importance of professional growth. Topics include the role of the Licensed Vocational Nurse in the multi-disciplinary health care team, professional organizations, and continuing education.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Restrictions:

- BIOL 2404, VNSG 1304, 1502, 1360, 1226, 1509, 1361, 1230
 - VNSG 1162
-

VNSG 1226 - Gerontology.

Overview of the normal physical, psychosocial, and cultural aspects of the aging process. Addresses common disease processes of aging. Exploration of attitudes toward care of the older adult.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Restrictions:

- VNSG 1304, 1502, 1360, and BIOL 2404
-

VNSG 1230 - Maternal-Neonatal Nursing

A study of the biological, psychological, and sociological concepts applicable to basic needs of the family including childbearing and neonatal care. Utilization of the nursing process in the assessment and management of the childbearing family. Topics include physiological changes related to pregnancy, fetal development, and nursing care of the family during labor and delivery and the puerperium.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Restrictions:

- BIOL 2404, VNSG 1304, 1502, 1360, 1226.
 - VNSG 1509, 1361
-

VNSG 1238 - Mental Illness

Study of human behavior with emphasis on emotional and mental abnormalities and modes of treatment incorporating the nursing process.

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Corequisites:

- [VNSG 1230](#) - Maternal-Neonatal Nursing
- [VNSG 1361](#) - Clinical II
- [VNSG 1509](#) - Nursing in Health & Illness II

Restrictions:

- BIOL 2404, VNSG 1304, 1502, 1360, 1226
-

VNSG 1304 - Foundations of Nursing

Introduction to the nursing profession including history, standards of practice, legal and ethical issues, and role of the vocational nurse. Topics include mental health, therapeutic communication, cultural and spiritual diversity, nursing process, and holistic awareness.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- BIOL 2404. TSI complete. Acceptable scores on required HESI exam components. Acceptance into the program is required to register for the first nursing course.
 - VNSG 1502, 1360, 1226
-

VNSG 1334 - Pediatrics

Study of the care of the pediatric patient and family during health and disease. Emphasis on growth and development needs utilizing the nursing process.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- BIOL 2404, VNSG 1304, 1502, 1226, 1230, 1360, 1509, 1238, 1361, 1219, 1162
 - VNSG 2510, 1262
-

VNSG 1360 - Clinical-LVN Training I

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Grade Basis: P

Credit hours: 3.0

Lab hours: 18.0

Restrictions:

- BIOL 2404. TSI complete. Acceptable scores on required HESI exam components. Acceptance into the program is required to register for the first nursing course.
 - VNSG 1304, 1502, 1226
-

VNSG 1162 - Clinical-LVN Training II

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Grade Basis: P

Credit hours: 1.0

Lecture hours: 1.0

Lab hours: 18.0

Restrictions:

- BIOL 2404, VNSG 1304, 1502, 1360, 1226, 1509, 1361, 1230
 - VNSG 1219
-

VNSG 1262 - Clinical-LVN Training IV

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Grade Basis: P

Credit hours: 2.0

Lecture hours: 2.0

Lab hours: 18.0

Restrictions:

- BIOL 2404, VNSG 1304, 1502, 1360, 1226, 1509, 1361, 1230, 1334, 1219, 1162, 1238
 - VNSG 2510 & 1334
-

VNSG 1502 - Applied Nursing Skills I

Introduction to and application of primary nursing skills. Emphasis on utilization of the nursing process and related scientific principles.

Grade Basis: L

Credit hours: 5.0

Lecture hours: 4.0

Lab hours: 4.0

Restrictions:

- BIOL 2404. TSI complete. Acceptable scores on required HESI exam components. Acceptance into the program is required to register for the first nursing course.
 - VNSG 1304, 1360, 1226
-

VNSG 1509 - Nursing in Health & Illness II

Introduction to common health problems requiring medical and surgical intervention.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- BIOL 2404, VNSG 1304, 1502, 1360, 1226.
 - VNSG 1361, 1230
-

VNSG 2510 - Nursing in Health & Illness III

Continuation of Nursing in Health and Illness I. Further study of common medical-surgical health problems of the client including concepts of mental illness. Incorporates knowledge necessary to make the transition from student to graduate vocational nurse.

Grade Basis: L

Credit hours: 5.0

Lecture hours: 5.0

Restrictions:

- BIOL 2404, VNSG 1304, 1502, 1360, 1226, 1509, 1361, 1230, 1219, 1162, 1238
 - VNSG 1334 & 1262
-

VNSG 1361 - Clinical II

A health-related, work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. Direct supervision is provided by the clinical professional.

Grade Basis: P

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 18.0

Restrictions:

- BIOL 2404, VNSG 1304, 1502, 1360, 1226.
- VNSG 1509, 1230

WLDG - Welding (WECM)

WLDG 1421 - Introduction to Welding Fundamentals

An introduction to the fundamentals of equipment used in oxyacetylene and arc welding including welding and cutting safety, basic oxyacetylene welding and cutting, basic arc welding processes and basic metallurgy.

Grade Basis:

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

WLDG 1428 - Introduction to Shielded Metal Arc Welding (SMAW)

An introduction shielded metal arc welding process. Emphasis placed on power sources, electrode selection, oxy-fuel cutting, and various joint designs. Instruction provided in SMAW fillet welds in various positions.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

WLDG 1430 - Introduction to Gas Metal Arc (MIG) Welding

A study of the principles of gas metal arc welding, setup and use of GMAW equipment, and safe use of tools/ equipment. Instruction in various joint designs.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

WLDG 1434 - Introduction to Gas Tungsten Arc (TIG) Welding

An introduction to the principles of gas tungsten arc welding (GTAW), setup/use of GTAW equipment and safe use of tools and equipment. Welding instruction in various positions on joint designs.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

WLDG 1457 - Intermediate Shielded Metal Arc Welding (SMAW)

A study of the production of various fillets and groove welds. Preparation of specimens for testing in all test positions. Prerequisites; WLDG 1421, Introduction to Welding Fundamentals and WLDG 1428, Introduction to Shielded Metal Arc Welding (SMAW)

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

Prerequisites:

- [WLDG 1421](#) - Introduction to Welding Fundamentals
 - [WLDG 1428](#) - Introduction to Shielded Metal Arc Welding (SMAW)
-

WLDG 2447 - Advanced Gas Metal Arc (MIG) Welding

Advanced topics in GMAW welding, including welding in various positions and directions.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

Prerequisites:

- [WLDG 1430](#) - Introduction to Gas Metal Arc (MIG) Welding
-

WLDG 2451 - Advanced Gas Tungsten Arc (TIG) Welding

Advanced topics in GTAW welding, including welding in various positions and directions. Prerequisite: WLDG 1434, Introduction to Gas Tungsten Arc (TIG) Welding.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

Prerequisites:

- [WLDG 1434](#) - Introduction to Gas Tungsten Arc (TIG) Welding
-

WLDG 2406 - Intermediate Pipe Welding

A Comprehensive course on the welding of pipe using shielded metal arc welding (SMAW) and/or other processes. Welds will be done using various positions. Topics covered include electrode selection, equipment setup, and safe shop practices.

Grade Basis: L

Credit hours: 4.0

Lab hours: 2.0

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Grayson College
6101 Grayson Drive
Denison, TX 75020
(903) 465-6030