
ACCT SPREADSHEET APPL

ACC-151 **Acct Spreadsheet Appl** **2 (1-3)** **Spring**
Prerequisites: ACC-149^S

Corequisites:

This course is designed to facilitate the use of spreadsheet technology as applied to accounting principles. Emphasis is placed on using spreadsheet software as a problem-solving and decision-making tool. Upon completion, students should be able to demonstrate an understanding of the principles involved and display an analytical problem-solving ability for the topics covered. (2018 FA)

ACTING I

DRA-130 **Acting I** **3 (0-6)** **Fall**
Prerequisites:

Corequisites:

This course provides an applied study of the actor's craft. Topics include role analysis, training the voice, and body concentration, discipline, and self-evaluation. Upon completion, students should be able to explore their creativity in an acting ensemble. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

ACTING II

DRA-131 **Acting II** **3 (0-6)** **Fall**
Prerequisites: DRA-130^L

Corequisites:

This course provides additional hands-on practice in the actor's craft. Emphasis is placed on further analysis, characterization, growth, and training for acting competence. Upon completion, students should be able to explore their creativity in an acting ensemble. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

ACTING FOR THE CAMERA I

DRA-135 **Acting for the Camera I** **3 (1-4)** **Spring**
Prerequisites: DRA-130^L

Corequisites:

This course provides an applied study of the camera actor's craft. Topics include commercial, dramatic, and print performance styles. Upon completion, students should be able to explore their creativity in on-camera performance. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

ACTIVE PLAY

EDU-157 Active Play 3 (2-2) Fall

Prerequisites:

Corequisites:

This course introduces physical activities to promote the development of children with diverse abilities, birth through middle childhood. Topics include active play, outdoor learning, design of the environment, development of play skills, loose parts play, nature play, risk/benefit assessment, advocacy, and family/community connection. Upon completion, students should be able to discuss the stages of play, the role of teachers in play, active play environments, advocate for the child's right to play, and plan and assess culturally responsive, equitable and developmentally appropriate experiences using NC Foundations for Early Learning and Development. (2022 FA)

ADV AUTO ELECTRICITY

**AUT-163 Adv Auto Electricity 3 (2-3) Spring
Fall**

Prerequisites: TRN-120^S

Corequisites:

This course covers electronic theory, wiring diagrams, test equipment, and diagnosis, repair, and replacement of electronics, lighting, gauges, horn, wiper, accessories, and body modules. Topics include networking and module communication, circuit construction, wiring diagrams, circuit testing, and troubleshooting. Upon completion, students should be able to properly use wiring diagrams, diagnose, test, and repair wiring, lighting, gauges, accessories, modules, and electronic concerns. (2007 FA)

ADV MONITORING/PROCEDURES

RCP-211 Adv Monitoring/Procedures 4 (3-3) Fall

Prerequisites: RCP-210^S

Corequisites:

This course includes advanced information gathering and decision making for the respiratory care professional using evidence-based respiratory care protocols. Topics include advanced cardiac monitoring, special procedures, respiratory care protocols, and disease management. Upon completion, students should be able to assess, recommend, and independently modify respiratory care protocols through written, laboratory and/or clinical simulation evaluations. (2017 FA)

ADV SUR CLINICAL PRACTICE

SUR-210 Adv SUR Clinical Practice 2 (0-0-6) Spring

Prerequisites:

Corequisites:

This course is designed to provide individualized experience in advanced practice, education, circulating, and managerial skills. Emphasis is placed on developing and demonstrating proficiency in skills necessary for advanced practice. Upon completion, students should be able to assume leadership roles in a chosen specialty area. (2010 FA)

ADV SKILLS OF MASSAGE

MTH-210 Adv Skills of Massage 8 (4-9-3) Fall

Prerequisites: MTH-120^S

Corequisites:

This course provides knowledge and skills in diverse body work modalities in a variety of clinical settings. Emphasis is placed on selected techniques such as Neuromuscular Therapy, Sports Massage, Soft Tissue Release, Spa Approaches, Oriental Therapies, and energy techniques. Upon completion, students should be able to perform basic skills in techniques covered. (2008 SP)

ADV THEORETICAL CONCEPTS

SUR-211 Adv Theoretical Concepts 2 (2-0) Fall

Prerequisites:

Corequisites:

This course covers theoretical knowledge required for extension of the surgical technologist role. Emphasis is placed on advanced practice in complex surgical specialties, educational methodologies, and managerial skills. Upon completion, students should be able to assume leadership roles in a chosen specialty area. (2010 FA)

ADV WORD PROCESSING

OST-236 Adv Word Processing 3 (2-2) Fall

Prerequisites: OST-136^S

Corequisites:

This course focuses on enhancing students' proficiency in utilizing advanced features of word processing software. Emphasis is placed on the mastery of advanced functions to create a range of complex business documents. Upon completion, students should be able to produce a variety of complex business documents effectively and be prepared to take a nationally accredited certified exam.(2025 FA)

ADV. CAKE DESIGN & DECORATING

BPA-212 Adv. Cake Design & Decorating 3 (1-4) Spring

Prerequisites: BPA-210^S

Corequisites:

This course is designed to build upon basic concepts introduced in BPA-210 to expand students' range of cake design and decorating skills. Topics may include advanced fondant skills, overpiping, bridgework, string work, airbrushing and painting, carving and shaping cakes for both classic and modern design themes. Upon completion, students should be able to create advanced wedding and specialty cake designs with a focus on client expectations.(2025 FA)

ADV. FRICTION RIDGE ANALY

CJC-246 **Adv. Friction Ridge Analy** **3 (2-3)** **Spring**

Prerequisites: CJC-245^S

Corequisites:

This course introduces the theories and processes of advanced friction ridge analysis. Topics include evaluation of friction ridges, chart preparation, comparative analysis for values determination rendering proper identification, chemical enhancement and AFIS preparation and usage. Upon completion, students must show an understanding of proper procedures for friction ridge analysis through written testing and practical exercises. (2000 SP)

ADV. PATIENT ASSESSMENT

EMS-210 **Adv. Patient Assessment** **2 (1-3)** **Spring**

Prerequisites: EMS-110^S

Corequisites:

This course covers advanced patient assessment techniques and is required for paramedic certification. Topics include initial assessment, medical-trauma history, field impression, complete physical exam process, on-going assessment, and documentation skills. Upon completion, students should be able to utilize basic communication skills and record and report collected patient data. (2019 SP)

ADVANCED AIRWAY MANAGEMENT

EMS-131 **Advanced Airway Management** **2 (1-2)** **Spring**

Prerequisites: EMS-110^S

Corequisites:

This course is designed to provide advanced airway management techniques and is required for paramedic certification. Topics must meet current guidelines for advanced airway management in the pre-hospital setting. Upon completion, students should be able to properly utilize all airway adjuncts and pharmacology associated with airway control and maintenance. (2019 SP)

ADVANCED C# PROGRAMMING

CSC-253 **Advanced C# Programming** **3 (2-3)** **Fall**

Prerequisites: CSC-153^S

Corequisites:

This course is a continuation of CSC 153 using the C# programming language with object-oriented programming principles. Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion, students should be able to design, code, test, debug, and implement objects using the appropriate environment. (2006 SP)

ADVANCED EMT

EMS-120 Advanced EMT 6 (4-6) AND
Prerequisites: EMS-110^S
Corequisites: EMS-121^S

This course is designed to provide the essential information on pre-hospital management techniques appropriate to the level of the Advanced EMT. Topics must meet current credentialing and/or regulatory guidelines for the Advanced EMT as outlined by the NC Office of EMS. Upon completion, students should be able to demonstrate competency at the Advanced EMT level. (2019 SP)

ADVANCED FILM STUDIES

HUM-161 Advanced Film Studies 3 (2-2) AND
Prerequisites: HUM-160^S
Corequisites:

This course provides an advanced study of film art and production, building on skills learned in HUM 160. Topics include advanced film production techniques, film genres, examination of master directors' styles, and the relation of film to culture. Upon completion, students should be able to recognize and critically analyze advanced elements of film production. (2002 SP) This course has been approved to satisfy the following requirement(s): | Humanities/Fine Arts Gen. Ed. course for A.A., A.A. Teacher Preparation and A.S. | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

ADVANCED ISSUES/LSG

LSG-244 Advanced Issues/LSG 2 (2-0) Spring
Prerequisites:
Corequisites:

This course covers advanced topics and issues in landscape gardening. Emphasis is placed on current issues, emerging technology, professional growth experiences, and other related topics. Upon completion, students should be able to demonstrate an understanding of advanced topics and critically analyze issues in landscape gardening. (2008 SP)

ADVANCED JAVA PROGRAMMING

CSC-251 Advanced JAVA Programming 3 (2-3) Fall
Prerequisites: CSC-151^S
Corequisites:

This course is a continuation of CSC 151 using the JAVA programming language with object-oriented programming principles. Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion, students should be able to design, code, test, debug, and implement objects using the appropriate environment.(2006 SP)

ADVANCED PLANT MATERIALS

HOR-265 Advanced Plant Materials 2 (1-2) Summer

Prerequisites: HOR-161^L

Corequisites:

This course covers important landscape plants. Emphasis is placed on identification, plant nomenclature, growth characteristics, cultural requirements, and landscape uses. Upon completion, students should be able to correctly select plants for specific landscape uses. (2001 FA)

AEROBICS I

**PED-113 Aerobics I 1 (0-3) Spring
Fall**

Prerequisites:

Corequisites:

This course introduces a program of cardiovascular fitness involving continuous, rhythmic exercise. Emphasis is placed on developing cardiovascular efficiency, strength, and flexibility and on safety precautions. Upon completion, students should be able to select and implement a rhythmic aerobic exercise program. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

AFRICAN-AMERICAN HISTORY

HIS-221 African-American History 3 (3-0) Spring

Prerequisites: ENG-025^L

Corequisites:

This course covers African-American history from the Colonial period to the present. Topics include African origins, the slave trade, the Civil War, Reconstruction, the Jim Crow era, the civil rights movement, and contributions of African Americans. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in the history of African Americans. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S. | Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

AFRICAN-AMERICAN LITERATURE

ENG-273 African-American Literature 3 (3-0) AND

Prerequisites: ENG-112^S or ENG-114^S

Corequisites:

This course provides a survey of the development of African-American literature from its beginnings to the present. Emphasis is placed on historical and cultural context, themes, literary traditions, and backgrounds of the authors. Upon completion, students should be able to interpret, analyze, and respond to selected texts. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S. | Humanities/ Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

AIR NAVIGATION

AER-110 **Air Navigation** **3 (2-2)** **Fall**

Prerequisites:

Corequisites:

This course covers the basic elements of air navigation, fundamentals of pilotage and dead reckoning, and the use of a plotter, computer, and aerial charts. Topics include pilotage, dead reckoning, radio navigation, LORAN, Global Positioning Systems, and the use of FAA publications. Upon completion, students should be able to interpret aeronautical charts and apply navigational principles. (1997 SU)

AIR TRAFFIC CONTROL

AER-211 **Air Traffic Control** **2 (2-0)** **Fall**

Prerequisites:

Corequisites:

This course provides a detailed analysis of all aspects of air traffic control. Emphasis is placed on an in-depth analysis of air traffic control, including utilization of the air traffic environment based on the pilot's and controller's perspective. Upon completion, students should be able to operate an aircraft within the national airspace system under FAA air traffic control. (1997 SU)

AIR TRANSPORT PILOT

AER-212 **Air Transport Pilot** **3 (3-0)** **AND**

Prerequisites: AER-160^S, AER-170^S

Corequisites:

This course provides advanced study for the professional pilot. Topics include an in-depth study of B-727/737 weight and balance, high altitude weather, Part 121 FARs, and performance considerations of large aircraft. Upon completion, students should be able to calculate weight and balance of large aircraft, determine performance data, and apply high altitude weather principles. (1997 SU)

AIR TRANSPORTATION

AER-217 **Air Transportation** **3 (3-0)** **Spring**

Prerequisites:

Corequisites:

This course covers the development and present status of the air transportation system. Topics include federal legislation, characteristics and classification of air carriers, development of the air traffic control system, and the organization and function of the FAA. Upon completion, students should be able to relate the knowledge acquired to career development. (1997 SU)

AIRCRAFT STRUCTURES

AER-119 Aircraft Structures 2 (2-0) AND

Prerequisites:

Corequisites:

This course introduces aircraft airframes and associated appliances. Emphasis is placed on strength of materials, aircraft standards, type certificate data sheets, basic airframe construction, and weight and balance fundamentals. Upon completion, students should be able to analyze strength of materials data and apply their analysis to semi-monocoque, full-cantilever, and truss-type airframes. (1997 SU)

AIRPORT MANAGEMENT

AER-220 Airport Management 2 (2-0) AND

Prerequisites:

Corequisites:

This course examines the major functions of airport management and the concepts underlying airport planning and construction. Topics include forecasting volumes and airport size and design, including master planning, location requirements, site selection, runway configuration, zoning laws, and other considerations. Upon completion, students should be able to demonstrate basic airport management skills including an understanding of the socioeconomic effect of airports on the community. (1997 SU)

ALGEBRA/TRIGONOMETRY I

MAT-121 Algebra/Trigonometry I 3 (2-2) Summer Spring

Prerequisites: MAT-035^L

Corequisites:

This course provides an integrated approach to technology and the skills required to manipulate, display, and interpret mathematical functions and formulas used in problem solving. Topics include the properties of plane and solid geometry, area and volume, and basic proportion applications; simplification, evaluation, and solving of algebraic equations and inequalities and radical functions; complex numbers; right triangle trigonometry; and systems of equations. Upon completion, students will be able to demonstrate the ability to use mathematics and technology for problem-solving, analyzing and communicating results. (2025 SP)

AMERICAN GOVERNMENT

POL-120 **American Government** **3 (3-0)** **Summer
Spring
Fall**

Prerequisites: ENG-025^L

Corequisites:

This course is a study of the origins, development, structure, and functions of American government. Topics include the constitutional framework, federalism, the three branches of government including the bureaucracy, civil rights and liberties, political participation and behavior, and policy process. Upon completion, students should be able to demonstrate an understanding of the basic concepts and participatory processes of the American political system. (2014 FA) This course has been approved to satisfy the following requirement(s): | UGETC course for A.A., A.A. Teacher Preparation, A.E., A.F.A., A.S. and A.S. Teacher Preparation | Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E

AMERICAN HISTORY I

HIS-131 **American History I** **3 (3-0)** **Summer
Spring
Fall**

Prerequisites: ENG-025^L

Corequisites:

This course is a survey of American history from pre-history through the Civil War era. Topics include the migrations to the Americas, the colonial and revolutionary periods, the development of the Republic, and the Civil War. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in early American history. (1997 SU) This course has been approved to satisfy the following requirement(s): | UGETC course for A.A., A.A. Teacher Preparation, A.E., A.F.A., A.S., and A.S. Teacher Preparation | Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

AMERICAN HISTORY II

HIS-132 **American History II** **3 (3-0)** **Summer
Spring
Fall**

Prerequisites: ENG-025^L

Corequisites:

This course is a survey of American history from the Civil War era to the present. Topics include industrialization, immigration, the Great Depression, the major American wars, the Cold War, and social conflict. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in American history since the Civil War. (1997 SU) This course has been approved to satisfy the following requirement(s): | UGETC course for A.A., A.A. Teacher Preparation, A.E., A.F.A., A.S., and A.S. Teacher Preparation | Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

AMERICAN LITERATURE I

ENG-231 **American Literature I** **3 (3-0)** **Summer
Spring
Fall**

Prerequisites: ENG-112^S or ENG-114^S

Corequisites:

This course covers selected works in American literature from its beginnings to 1865. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to analyze and interpret literary works in their historical and cultural contexts. (2014 FA) This course has been approved to satisfy the following requirement(s): | UGETC course for A.A., A.A. Teacher Preparation, A.E., A.F.A., A.S., and A.S. Teacher Preparation | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

AMERICAN LITERATURE II

ENG-232 **American Literature II** **3 (3-0)** **Summer
Spring**

Prerequisites: ENG-112^S or ENG-114^S

Corequisites:

This course covers selected works in American literature from 1865 to the present. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to analyze and interpret literary works in their historical and cultural contexts. (2014 FA) This course has been approved to satisfy the following requirement(s): | UGETC course for A.A., A.A. Teacher Preparation, A.E., A.F.A., A.S., and A.S. Teacher Preparation | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

AMERICAN WOMEN'S STUDIES

HUM-150 **American Women's Studies** **3 (3-0)** **AND**

Prerequisites: ENG-025^L

Corequisites:

This course provides an inter-disciplinary study of the history, literature, and social roles of American women from Colonial times to the present. Emphasis is placed on women's roles as reflected in American language usage, education, law, the workplace, and mainstream culture. Upon completion, students should be able to identify and analyze the roles of women as reflected in various cultural forms. (1997 SU) This course has been approved to satisfy the following requirement(s): | Humanities/Fine Arts Gen. Ed. course for A.A., A.A. Teacher Preparation and A.S. | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

ANALOG ELECTRONICS I

ELN-131 **Analog Electronics I** **4 (3-3)** **Spring**

Prerequisites:

Corequisites:

This course introduces the characteristics and applications of semiconductor devices and circuits. Emphasis is placed on analysis, selection, biasing, and applications. Upon completion, students should be able to construct, analyze, verify, and troubleshoot analog circuits using appropriate techniques and test equipment. (2013 FA)

ANATOMY AND PHYSIOLOGY I

BIO-168 **Anatomy and Physiology I** **4 (3-3)** **Summer
Spring
Fall**

Prerequisites: ENG-025^L

Corequisites:

This course provides a comprehensive study of the anatomy and physiology of the human body. Topics include body organization, homeostasis, cytology, histology, and the integumentary, skeletal, muscular, and nervous systems and special senses. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships. (1998 FA) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S. | Natural Sciences Gen. Ed. course for A.A.S. and A.G.E.

ANATOMY AND PHYSIOLOGY II

BIO-169 **Anatomy and Physiology II** **4 (3-3)** **Summer
Spring
Fall**

Prerequisites: BIO-168^S; Minimum grade CL

Corequisites:

This course provides a continuation of the comprehensive study of the anatomy and physiology of the human body. Topics include the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems as well as metabolism, nutrition, acid-base balance, and fluid and electrolyte balance. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships. (1998 FA) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S. | Natural Science Gen. Ed. course for A.G.E.

APPL SOFTWARE FOR TECH

EGR-125 Appl Software for Tech 2 (1-2) AND

Prerequisites:

Corequisites:

This course introduces personal computer software and teaches students how to customize the software for technical applications. Emphasis is placed on the use of common office applications software programs such as spreadsheets, word processing, graphics, and internet access. Upon completion, students should be able to demonstrate competency in using applications software to solve technical problems and communicate the results in text and graphical formats. (2005 SP)

APPLIED MUSIC I

**MUS-161 Applied Music I 2 (1-2) Spring
Fall**

Prerequisites:

Corequisites: MUS-121^L

This course provides individual instruction in the skills and techniques of the particular instrument or voice. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance. (1999 FA) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective Course for A.A. and A.S.

APPLIED MUSIC II

**MUS-162 Applied Music II 2 (1-2) Spring
Fall**

Prerequisites: MUS-161^S

Corequisites:

This course is a continuation of MUS 161. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance. (1999 FA) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective Course for A.A. and A.S.

APPLIED MUSIC III

**MUS-261 Applied Music III 2 (1-2) Spring
Fall**

Prerequisites: MUS-162^S

Corequisites:

This course is a continuation of MUS 162. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance. (1999 FA) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective Course for A.A. and A.S.

APPLIED MUSIC IV

MUS-262 **Applied Music IV** **2 (1-2)** **Spring
Fall**

Prerequisites: MUS-261^S

Corequisites:

This course is a continuation of MUS 261. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance. (1999 FA) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective Course for A.A. and A.S.

ARBORICULTURE PRACTICES

HOR-257 **Arboriculture Practices** **2 (1-3)** **Spring**

Prerequisites: HOR-160^L

Corequisites:

This course covers the culture and maintenance of trees and shrubs. Topics include fertilization, pruning, approved climbing techniques, pest control, and equipment use and safety. Upon completion, students should be able to properly prune trees and shrubs and perform arboricultural practices. (2013 SU)

ARCHAEOLOGY

ANT-240 **Archaeology** **3 (3-0)** **AND**

Prerequisites: ENG-025^L

Corequisites:

This course introduces the scientific study of the unwritten record of the human past. Emphasis is placed on the process of human cultural evolution as revealed through archaeological methods of excavation and interpretation. Upon completion, students should be able to demonstrate an understanding of how archaeologists reconstruct the past and describe the variety of past human cultures. (1997 SU) This course has been approved to satisfy the following requirement(s): | Social/Behavioral Science Gen. Ed. course for A.A., A.A. Teacher Preparation and A.S. | Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

ARCHITECTURAL CAD

ARC-114 **Architectural CAD** **2 (1-3)** **Spring**

Prerequisites:

Corequisites:

This course introduces basic architectural CAD techniques. Topics include basic commands and system hardware and software. Upon completion, students should be able to prepare and plot architectural drawings to scale within accepted architectural standards. (1998 FA)

ART APPRECIATION

ART-111 **Art Appreciation** **3 (3-0)** **Summer
Spring
Fall**

Prerequisites: ENG-025^L

Corequisites:

This course introduces the origins and historical development of art. Emphasis is placed on the relationship of design principles to various art forms including but not limited to sculpture, painting, and architecture. Upon completion, students should be able to identify and analyze a variety of artistic styles, periods, and media. (1997 SU) This course has been approved to satisfy the following requirement(s): | UGETC course for A.A., A.A. Teacher Preparation, A.E., A.F.A., A.S. and A.S. Teacher Preparation | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

ART HISTORY SURVEY I

ART-114 **Art History Survey I** **3 (3-0)** **Spring
Fall**

Prerequisites: ENG-025^L

Corequisites:

This course covers the development of art forms from ancient times to the Renaissance. Emphasis is placed on content, terminology, design, and style. Upon completion, students should be able to demonstrate an historical understanding of art as a product reflective of human social development. (1997 SU) This course has been approved to satisfy the following requirement(s): | UGETC course for A.A., A.A. Teacher Preparation, A.E., A.F.A. Music and Theatre, A.S. and A.S. Teacher Preparation | Premajor and/or Elective course for A.F.A. Visual Arts | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

ART HISTORY SURVEY II

ART-115 **Art History Survey II** **3 (3-0)** **Spring**

Prerequisites: ENG-025^L

Corequisites:

This course covers the development of art forms from the Renaissance to the present. Emphasis is placed on content, terminology, design, and style. Upon completion, students should be able to demonstrate an historical understanding of art as a product reflective of human social development. (1997 SU) This course has been approved to satisfy the following requirement(s): | UGETC course for A.A., A.A. Teacher Preparation, A.E., A.F.A. Music and Theatre, A.S. and A.S. Teacher Preparation | Premajor and/or Elective course for A.F.A. Visual Arts | Premajor and/or Elective course for A.F.A. Visual Arts | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

ARTIFICIAL INTEL. FUNDAMENTALS

CSC-113 **Artificial Intel. Fundamentals** **3 (2-2)** **Fall**

Prerequisites:

Corequisites:

This course provides a survey of artificial intelligence and machine learning. Topics include the history, development, and current applications of artificial intelligence and machine learning. Upon completion, students should be able to demonstrate general artificial intelligence and machine learning concepts.(2025 FA)

ARTIFICIAL INTELLIGENCE I

CSC-114 **Artificial Intelligence I** **3 (2-3)** **AND**

Prerequisites:

Corequisites:

This course covers the study of intelligent agent design and rational decision making. Topics include goal-driven agents, search techniques, optimization, basic problem-solving methods, logic, knowledge-based agents, statistical and probabilistic reasoning, and the basics of machine learning. Upon completion, students should be able to demonstrate artificial intelligence design concepts. (2020 FA)

ARTISAN & SPECIALTY BREAD

BPA-150 **Artisan & Specialty Bread** **4 (1-6)** **Spring**

Prerequisites: CUL-110^S CUL-160^S

Corequisites:

This course provides an advanced study in the art and craft of bread making. Topics include pertinent formulas and techniques associated with naturally leavened loaves, hearth breads, focaccia, flat breads, and other breads utilizing a variety of grains. Upon completion, students should be able to prepare artisan and specialty breads that meet or exceed the expectations of restaurant and retail publics. (2003 FA)

AURAL SKILLS I

MUS-125 **Aural Skills I** **1 (0-2)** **Fall**

Prerequisites:

Corequisites: MUS-121^L

This course provides an introduction to the fundamentals in aural skills. Emphasis is placed on the study of basic melodies, harmonies, and rhythms through sight singing and ear training. Upon completion, students should be able to identify diatonic intervals, scales, and chords and perform and dictate simple melodies and rhythmic patterns. (2018 FA) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S. | Humanities/Fine Arts Gen. Ed. course for A.G.E.

AURAL SKILLS II

MUS-126 **Aural Skills II** **1 (0-2)** **Spring**

Prerequisites: MUS-125^S

Corequisites: MUS-122^L

This course provides a foundation in aural skills. Emphasis is placed on the development of sight singing and ear training skills in diatonic melody, diatonic harmonic progression, and rhythmic patterns. Upon completion, students should be able to fluently read music in treble and bass clefs; utilize any solmization system while sight singing simple diatonic melodies; identify elementary diatonic chord progressions; perform rhythms in simple and compound meters; and dictate diatonic melodic, diatonic harmonic, and advanced rhythmic patterns. (2018 FA) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S. | Humanities/Fine Arts Gen. Ed. course for A.G.E.

AURAL SKILLS III

MUS-225 **Aural Skills III** **1 (0-2)** **Fall**

Prerequisites: MUS-126^S

Corequisites: MUS-221^L

This course provides advanced aural skills training in diatonicism and basic aural skills training in chromaticism. Emphasis is placed on the development of sight singing and ear training skills in complex rhythmic patterns, diatonic melodies and harmonies, and basic chromaticism. Upon completion, students should be able to utilize any solmization system while sight singing diatonic melodies with functional and non-functional chromaticism, fluently read music in multiple clefs in addition to treble and bass, identify modulations, perform complex rhythmic patterns in various meters, and dictate tonal melodies and harmonies including chromaticism. (2018 FA) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

AURAL SKILLS IV

MUS-226 **Aural Skills IV** **1 (0-2)** **Spring**

Prerequisites: MUS-225^S

Corequisites: MUS-222^L

This course provides advanced aural skills training in diatonicism and chromaticism. Emphasis is placed on the development of sight singing and ear training skills in chromatic melodies, chromatic harmonies, and complex rhythmic patterns. Upon completion, students should be able to utilize any solmization system while sight singing melodies containing significant chromaticism; fluently read music in multiple clefs, including treble, bass, alto, and tenor; perform and dictate rhythmic patterns in irregular and changing meters; and dictate diatonic and chromatic melodies and harmonic progressions. (2018 FA) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

AUTO CUSTOM FABRICATION

AUC-112 Auto Custom Fabrication 4 (2-4) Fall

Prerequisites:

Corequisites:

This course covers modifications of existing vehicle components, as well as fabrication of new vehicle components. Emphasis is placed on basic customizing techniques used on factory original parts, as well as fabrication of custom components using machining processes and customizing techniques. Upon completion, students should be able to modify existing factory components and create custom-fabricated components using auto customizing techniques. (2006 FA)

AUTO TRANSM/TRANSAXLES

AUT-221 Auto Transm/Transaxles 3 (2-3) Summer

Prerequisites: TRN-120⁺

Corequisites:

This course covers operation, diagnosis, service, and repair of automatic transmissions/transaxles. Topics include hydraulic, pneumatic, mechanical, and electrical/electronic operation of automatic drive trains and the use of appropriate service tools and equipment. Upon completion, students should be able to explain operational theory, diagnose and repair automatic drive trains. (2007 FA)

AUTOBODY ESTIMATING

AUB-162 Autobody Estimating 2 (1-2) Fall

Prerequisites:

Corequisites:

This course provides a comprehensive study of autobody estimating. Topics include collision damage analysis, industry regulations, flat-rate and estimated time, and collision estimating manuals. Upon completion, students should be able to prepare and interpret a damage report. (1997 SU)

AUTOMOTIVE DETAILING

AUB-150 Automotive Detailing 2 (1-3) AND

Prerequisites:

Corequisites:

This course covers the methods and procedures used in automotive detailing facilities. Topics include safety, engine, interior and trunk compartment detailing, buffing/polishing exterior surfaces, and cleaning and reconditioning exterior trim, fabrics, and surfaces. Upon completion, students should be able to improve the overall appearance of a vehicle. (1997 SU)

AUTOMOTIVE SERVICING I

AUT-113 Automotive Servicing I 2 (0-6) AND

Prerequisites: AUT-141^L, AUT-141A^L, TRN-140^L, TRN-140A^L

Corequisites:

This course is a lab used as an alternative to co-op placement. Emphasis is placed on shop operations, troubleshooting, testing, adjusting, repairing, and replacing components using appropriate test equipment and service information. Upon completion, students should be able to perform a variety of automotive repairs using proper service procedures and to operate appropriate equipment. (2007 FA)

AVIATION LAWS AND FARs

AER-112 Aviation Laws and FARs 2 (2-0) Spring

Prerequisites:

Corequisites:

This course provides an in-depth study of the state, federal, and international regulations forming the structure of aviation law. Emphasis is placed on Federal Aviation Regulations Parts 61, 91, and 135 with additional emphasis on legal issues in aviation law. Upon completion, students should be able to apply legal principles and interpret federal air regulations. (1997 SU)

AVIATION MANAGEMENT

AER-114 Aviation Management 3 (3-0) Spring

Prerequisites:

Corequisites:

This course covers operation of a flight department on a cost-effective basis and analysis of profit and loss statements. Topics include flight operations costs, aircraft acquisition analysis and cost comparisons, costs versus revenue, and break-even points. Upon completion, students should be able to calculate cost of flight operations and apply monthly and annual budget analysis. (1997 SU)

AVIATION METEOROLOGY

AER-111 Aviation Meteorology 3 (3-0) Fall

Prerequisites:

Corequisites:

This course covers the atmosphere, interpretation and measurement of meteorological elements, and the effects of such on aircraft operations and performance. Topics include heat exchanges in the atmosphere; temperature, pressure, stability, clouds, air masses, fronts, and thunderstorms; and the use and interpretation of weather data. Upon completion, students should be able to analyze weather data for flight planning and safe flying. (1997 SU)

AVIONICS

AER-213 Avionics 2 (2-0) Spring

Prerequisites:

Corequisites:

This course covers standard navigational and communications equipment and theory. Emphasis is placed on aviation radio spectrum, VHF omnirange, ILS, ADF, transponders, weather radar, flight directors, and autopilots. Upon completion, students should be able to utilize VOR, ADF, ILS, GPS, flight directors, HSI's, and autopilots in the flight environment. (1997 SU)

BMET INSTRUMENTATION I

BMT-212 BMET Instrumentation I 6 (3-6) Summer

Prerequisites:

Corequisites:

This course covers theory of operation, circuit analysis, troubleshooting techniques, and medical applications for a variety of instruments and devices. Topics include electrodes, transducers, instrumentation amplifiers, electrocardiographs, monitors, recorders, defibrillators, ESU units, and related equipment used in clinical laboratories, intensive care units, and research facilities. Upon completion, students should be able to calibrate, troubleshoot, repair, and certify that instrumentation meets manufacturer's original specifications. (2008 SP)

BACKPACKING

PED-170 Backpacking 1 (0-2) AND

Prerequisites:

Corequisites:

This course covers the proper techniques for establishing a campsite, navigating in the wilderness, and planning for an overnight trip. Topics include planning for meals, proper use of maps and compass, and packing and dressing for extended periods in the outdoors. Upon completion, students should be able to identify quality backpacking equipment, identify the principles of no-trace camping, and successfully complete a backpacking experience. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

BAKING I

**CUL-160 Baking I 3 (1-4) Spring
Fall**

Prerequisites:

Corequisites: CUL-110^S

This course covers basic ingredients, techniques, weights and measures, baking terminology and formula calculations. Topics include yeast/chemically leavened products, laminated doughs, pastry dough batter, pies/tarts, meringue, custard, cakes and cookies, icings, glazes and basic sauces. Upon completion, students should be able to demonstrate proper scaling and measurement techniques, and prepare and evaluate a variety of bakery products. (2011 FA)

BAKING II

CUL-260 Baking II 3 (1-4) Fall

Prerequisites: CUL-110^S, CUL-160^S; ENG-025^L, CUL-110A^L

Corequisites:

This course is designed to further students' knowledge in ingredients, weights and measures, baking terminology and formula calculation. Topics include classical desserts, frozen desserts, cake and torte production, decorating and icings/glazes, dessert plating and presentation. Upon completion, students should be able to demonstrate pastry preparation, plating, and dessert buffet production skills. (2011 FA)

BAND I

MUS-133 Band I 1 (0-2) Fall

Prerequisites:

Corequisites:

This course provides an opportunity for those who play a band instrument to gain experience playing in an ensemble. Emphasis is placed on band techniques and the study and performance of a variety of styles and periods of band literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

BAND II

**MUS-134 Band II 1 (0-2) Spring
Fall**

Prerequisites: MUS-133^S

Corequisites:

This course is a continuation of MUS 133. Emphasis is placed on band techniques and the study and performance of a variety of styles and periods of band literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

BAND III

**MUS-233 Band III 1 (0-2) Spring
Fall**

Prerequisites: MUS-134^S

Corequisites:

This course is a continuation of MUS 134. Emphasis is placed on band techniques and the study and performance of a variety of styles and periods of band literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

BAND IV

MUS-234 **Band IV** **1 (0-2)** **Spring
Fall**

Prerequisites: MUS-233^S

Corequisites:

This course is a continuation of MUS 233. Emphasis is placed on band techniques and the study and performance of a variety of styles and periods of band literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

BASIC ANAT & PHYSIOLOGY

BIO-163 **Basic Anat & Physiology** **5 (4-2)** **Spring
Fall**

Prerequisites: ENG-025^L

Corequisites:

This course provides a basic study of the structure and function of the human body. Topics include a basic study of the body systems as well as an introduction to homeostasis, cells, tissues, nutrition, acid-base balance, and electrolytes. Upon completion, students should be able to demonstrate a basic understanding of the fundamental principles of anatomy and physiology and their interrelationships. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S. | Natural Sciences Gen. Ed. course for A.A.S. and A.G.E.

BASIC CAD

DFT-119 **Basic CAD** **2 (1-2)** **AND**

Prerequisites:

Corequisites:

This course introduces computer-aided drafting software for specific technologies to non-drafting majors. Emphasis is placed on understanding the software command structure and drafting standards for specific technical fields. Upon completion, students should be able to create and plot basic drawings. (1997 SU)

BASIC LANDSCAPE TECHNIQUE

LSG-111 **Basic Landscape Technique** **2 (2-0)** **Fall**

Prerequisites:

Corequisites:

This course introduces basic principles essential to sustainable landscape gardening. Topics include soils, propagation, watering, fertilizing, pruning, pest control, and planting. Upon completion, students should be able to perform basic sustainable gardening techniques essential to maintaining a sustainable landscape. (2013 FA)

BASIC WELDING FOR TRANSP

TRN-180 Basic Welding for Transp 3 (1-4) AND

Prerequisites:

Corequisites:

This course covers the terms and procedures for welding various metals used in the transportation industry with an emphasis on personal safety and environmental health. Topics include safety and precautionary measures, setup/operation of MIG equipment, metal identification methods, types of welds/joints, techniques, inspection methods, cutting processes and other related issues. Upon completion, students should be able to demonstrate a basic knowledge of welding operations and safety procedures according to industry standard (2013 FA)

BASKETBALL-BEGINNING

PED-145 Basketball-Beginning 1 (0-2) Spring

Prerequisites:

Corequisites:

This course covers the fundamentals of basketball. Emphasis is placed on skill development, knowledge of the rules, and basic game strategy. Upon completion, students should be able to participate in recreational basketball. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

BIOLOGICAL PSYCHOLOGY

PSY-230 Biological Psychology 3 (3-0) AND

Prerequisites: PSY-150^S

Corequisites:

This course provides an exploration of the anatomy and functions of the human nervous system as it relates to human behavior. Topics include neural communication, key brain and nervous system anatomy and functions, brain and behavior relationships, sensory systems (key anatomy and functions), and neurological/psychological disorders. Upon completion, students should be able to describe how new scientific knowledge is created, identify methods to study psychological phenomena, identify key nervous system structures and functions, explain basic psychological phenomena and identify associated brain structures, and describe characteristics of selected neurological/psychological disorders. (2019 SP) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S. | Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E

BRAKE SYSTEMS

AUT-151 Brake Systems 3 (2-3) Spring

Prerequisites: AUT-151A^L

Corequisites:

This course covers principles of operation and types, diagnosis, service, and repair of brake systems. Topics include drum and disc brakes involving hydraulic, vacuum boost, hydra-boost, electrically powered boost, and anti-lock and parking brake systems. Upon completion, students should be able to diagnose, service, and repair various automotive braking systems. (2007 FA)

BRAKES SYSTEMS LAB

AUT-151A **Brakes Systems Lab** **1 (0-3)** **Spring**

Prerequisites: AUT-151^S

Corequisites:

This course is an optional lab to be used as an alternative to co-op placement in meeting the NATEF standards for total hours. Topics include drum and disc brakes involving hydraulic, vacuum-boost, hydra-boost, electrically powered boost, and anti-lock, parking brake systems and emerging brake systems technologies. Upon completion, students should be able to diagnose, service, and repair various automotive braking systems. (2007 FA)

BRIEF CALCULUS

MAT-263 **Brief Calculus** **4 (3-2)** **Fall
Spring**

Prerequisites: MAT-171^S; Minimum grade C;

Corequisites:

This course is designed to introduce concepts of differentiation and integration and their applications to solving problems. Topics include graphing, differentiation, and integration with emphasis on applications drawn from business, economics, and biological and behavioral sciences. Upon completion, students should be able to demonstrate an understanding of the use of basic calculus and technology to solve problems and to analyze and communicate results. (2024 SP) This course has been approved to satisfy the following requirement(s): | UGETC course for A.S. and A.S. Teacher Preparation | Mathematics Gen. Ed. course for A.A. and A.A. Teacher Preparation. | A student may place directly into MAT 172 if the student has met at least one (1) of the following criteria within the past five (5) years: Local diagnostic exam or challenge exam which demonstrates proficiency in Pre-Calculus Algebra competencies. An unweighted HS GPA of 3.5 or higher and a grade of C or higher in the North Carolina Standard Course of Study Pre-Calculus course or an equivalent course from another state. A score of 2 or higher on the AP Calculus AB Exam. A grade of C or higher in an AP Calculus course and an unweighted HS GPA of 3.0 or higher. A score of 600 or higher on the SAT Math and a grade of C or higher in the North Carolina Standard Course of Study Pre-Calculus course or an equivalent course from another state. A score of 24 or higher on the ACT Math and a grade of C or higher in the North Carolina Standard Course of Study Pre-Calculus course or an equivalent course from another state.

BRITISH LITERATURE I

ENG-241 **British Literature I** **3 (3-0)** **Fall**

Prerequisites: ENG-112^S or ENG-114^S

Corequisites:

This course covers selected works in British literature from its beginnings to the Romantic Period. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts. (1997 SU) This course has been approved to satisfy the following requirement(s): | UGETC course for A.A., A.A. Teacher Preparation, A.E., A.F.A., A.S., and A.S. Teacher Preparation | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

BRITISH LITERATURE II

ENG-242 **British Literature II** **3 (3-0)** **Summer
Spring**

Prerequisites: ENG-112^S or ENG-114^S

Corequisites:

This course covers selected works in British literature from the Romantic Period to the present. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts. (1997 SU) This course has been approved to satisfy the following requirement(s): | UGETC course for A.A., A.A. Teacher Preparation, A.E., A.F.A., A.S., and A.S. Teacher Preparation | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

BUILDING CONSTRUCTION

FIP-132 **Building Construction** **3 (3-0)** **Spring**

Prerequisites:

Corequisites:

This course covers the principles and practices reference in NFPA standard 220 related to various types of building construction, including residential and commercial, as impacted by fire conditions. Topics include types of construction and related elements, fire resistive aspects of construction materials, building codes, collapse, and other related topics. Upon completion, students should be able to understand and recognize various types of construction and their positive or negative aspects as related to fire conditions. (2014 FA)

BUSINESS COMMUNICATION

BUS-260 **Business Communication** **3 (3-0)** **Spring
Fall**

Prerequisites: ENG-111^S

Corequisites:

This course is designed to develop skills in writing business communications. Emphasis is placed on business reports, correspondence, and professional presentations. Upon completion, students should be able to communicate effectively in the work place. (2014 SP)

BUSINESS FINANCE

BUS-225 **Business Finance** **3 (2-2)** **Spring
Fall**

Prerequisites: ACC-120^L

Corequisites:

This course provides an overview of business financial management. Emphasis is placed on financial statement analysis, time value of money, management of cash flow, risk and return, and sources of financing. Upon completion, students should be able to interpret and apply the principles of financial management. (1997 SU)

C-P ANATOMY & PHYSIOLOGY

RCP-114 **C-P Anatomy & Physiology** **3 (3-0)** **Fall**

Prerequisites:

Corequisites:

This course provides a concentrated study of cardiopulmonary anatomy and physiology essential to the practice of respiratory care. Emphasis is placed on cardiovascular and pulmonary physiology, acid/base balance, and blood gas interpretation. Upon completion, students should be able to demonstrate competence in these concepts through written evaluation. C-P A & P (2008 SP)

C-P PATHOPHYSIOLOGY

RCP-115 **C-P Pathophysiology** **2 (2-0)** **Summer**

Prerequisites:

Corequisites:

This course introduces the etiology, pathophysiology, clinical signs and symptoms, diagnoses, prognoses, complications, and management of cardiopulmonary diseases. Emphasis is placed on developing, evaluating, and modifying respiratory care plans based on evidence-based medicine protocols and clinical practice guidelines. Upon completion, students should be able to demonstrate competence in cardio-pulmonary disease concepts through written evaluations. (2017 FA)

CAKE DESIGN & DECORATING

BPA-210 **Cake Design & Decorating** **3 (1-4)** **Fall**

Prerequisites: CUL-110^S CUL-160^S

Corequisites:

This course covers advanced concepts in the design and decoration of tiered cakes and other specialty cakes. Topics include baking, filling and assembling cakes; cake design; finishing techniques such as utilizing gum paste, fondant and royal icing, and advanced piping skills. Upon completion, students should be able to design, create, finish and evaluate the quality of tiered and specialty cakes. (2025 FA)

CALCULUS I

MAT-271	Calculus I	4 (3-2)	Fall Spring Summer
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Prerequisites: MAT-172^S; Minimum grade C;

Corequisites:

This course is designed to develop the topics of differential and integral calculus. Emphasis is placed on limits, continuity, derivatives and integrals of algebraic and transcendental functions of one variable. Upon completion, students should be able to select and use appropriate models and techniques for finding solutions to derivative-related problems with and without technology. (2024 SP) This course has been approved to satisfy the following requirement(s): | UGETC course for A.E., A.S. and A.S. Teacher Preparation | Mathematics Gen. Ed. course for A.A. and A.A. Teacher Preparation | A student may place directly into MAT 271 if the student has met at least one (1) of the following criteria within the past five (5) years: | 1. A score of 2 or higher on the AP Calculus AB Exam. | 2. A grade of C or higher in an AP Calculus course and an unweighted HS GPA of 3.0 or higher. | 3. A score of 90 or higher on the ACCUPLACER College-Level Math (CLM) test. | 4. A score of 46 or higher on the trigonometry section of the ACT Compass Math Placement Test. | 5. A score of 580 or higher on the old (prior to March 2016) SAT Math and a grade of C or higher in the North Carolina Standard Course of Study Pre-Calculus course or an equivalent course from another state. | 6. A score of 600 or higher on the new (March 2016 and beyond) SAT Math and a grade of C or higher in the North Carolina Standard Course of Study Pre-Calculus course or an equivalent course from another state. | 7. A score of 27 or higher on the ACT Math and a grade of C or higher in the North Carolina Standard Course of Study Pre-Calculus course or an equivalent course from another state. | 8. A score of 560 or higher on the SAT Subject Test in Mathematics Level 2. | 9. Local diagnostic exam or challenge exam which demonstrates proficiency in Pre-Calculus course(s) competencies. | 10. An unweighted HS GPA of 3.5 or higher and a grade of C or higher in the North Carolina Standard Course of Study Pre-Calculus course or an equivalent course from another state.

CALCULUS II

MAT-272	Calculus II	4 (3-2)	Fall Spring
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Prerequisites: MAT-271^S; Minimum grade C;

Corequisites:

This course is designed to develop advanced topics of differential and integral calculus. Emphasis is placed on the applications of definite integrals, techniques of integration, indeterminate forms, improper integrals, infinite series, conic sections, parametric equations, polar coordinates, and differential equations. Upon completion, students should be able to select and use appropriate models and techniques for finding solutions to integral-related problems with and without technology. (2014 FA) This course has been approved to satisfy the following requirement(s): | UGETC course for A.E., A.S. and A.S. Teacher Preparation | Mathematics Gen. Ed. course for A.A. and A.A. Teacher Preparation

CALCULUS III

MAT-273 Calculus III 4 (3-2) Spring

Prerequisites: MAT-272^S; Minimum grade C;

Corequisites:

This course is designed to develop the topics of multivariate calculus. Emphasis is placed on multivariate functions, partial derivatives, multiple integration, solid analytical geometry, vector valued functions, and line and surface integrals. Upon completion, students should be able to select and use appropriate models and techniques for finding the solution to multivariate-related problems with and without technology. (2014 FA) This course has been approved to satisfy the following requirement(s): | Mathematics Gen. Ed. course for A.A., A.A. Teacher Preparation, A.E., A.S. and A.S. Teacher Preparation

CANOEING-BASIC

PED-160 Canoeing-Basic 1 (0-2) AND

Prerequisites:

Corequisites:

This course provides basic instruction for the beginning canoeist. Emphasis is placed on safe and correct handling of the canoe and rescue skills. Upon completion, students should be able to demonstrate basic canoeing, safe-handling, and self-rescue skills. (2007 SP) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

CARDIOLOGY I

EMS-160 Cardiology I 3 (2-3) Spring

Prerequisites: EMS-110^S

Corequisites:

This course introduces the study of cardiovascular emergencies and is required for paramedic certification. Topics include anatomy and physiology, pathophysiology, electrophysiology, and rhythm interpretation. Upon completion, students should be able to recognize and interpret rhythms. (2019 SP)

CARDIOLOGY II

EMS-220 Cardiology II 3 (2-3) Summer

Prerequisites: EMS-122^S, EMS-130^S, EMS-160^S

Corequisites:

This course provides an in-depth study of cardiovascular emergencies and is required for paramedic certification. Topics include assessment and treatment of cardiac emergencies, cardiac pharmacology, and patient care. Upon completion, students should be able to manage the cardiac patient. (2019 SP)

CAREER PREPARATION

RCP-215 Career Preparation 1 (0-3) Spring

Prerequisites:

Corequisites:

This course provides an overview of respiratory therapy concepts in preparation for credentialing exam. Emphasis is placed on registry preparation. Upon completion, students should be able to demonstrate a comprehensive knowledge of respiratory therapy and be prepared for successful completion of the credentialing process. (2017 FA)

CERAMICS I

**ART-283 Ceramics I 3 (0-6) Spring
Fall**

Prerequisites:

Corequisites:

This course provides an introduction to three-dimensional design principles using the medium of clay. Emphasis is placed on fundamentals of forming, surface design, glaze application, and firing. Upon completion, students should be able to demonstrate skills in slab and coil construction, simple wheel forms, glaze technique, and creative expression. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S. | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

CERAMICS II

**ART-284 Ceramics II 3 (0-6) Spring
Fall**

Prerequisites: ART-283^S

Corequisites:

This course covers advanced hand building and wheel techniques. Emphasis is placed on creative expression, surface design, sculptural quality, and glaze effect. Upon completion, students should be able to demonstrate a high level of technical competence in forming and glazing with a development of three-dimensional awareness. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

CHEM OF HAZARDOUS MAT I

FIP-230 Chem of Hazardous Mat I 5 (5-0) Fall

Prerequisites:

Corequisites:

This course covers the evaluation of hazardous materials referenced in NFPA standard 1072. Topics include use of the periodic table, hydrocarbon derivatives, placards and labels, parameters of combustion, and spill and leak mitigation. Upon completion, students should be able to demonstrate knowledge of the chemical behavior of hazardous materials. (2014 FA)

CHILD DEVELOPMENT I

EDU-144 **Child Development I** **3 (3-0)** **Summer
Fall**

Prerequisites:**Corequisites:**

This course includes the theories of child development, observation and assessment, milestones, and factors that influence development, from conception through approximately 36 months. Emphasis is placed on knowledge, observation and assessment of developmental sequences in approaches to play/learning, emotional/social, health/physical, language/communication and cognitive domains. Upon completion, students should be able to compare/contrast typical/atypical developmental characteristics, explain biological and environmental factors that impact development, and identify evidence-based strategies for enhancing development for children that are culturally, linguistically, and ability diverse. (2020 FA) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

CHILD DEVELOPMENT II

EDU-145 **Child Development II** **3 (3-0)** **Spring**

Prerequisites:**Corequisites:**

This course includes the theories of child development, observation and assessment, milestones, and factors that influence development, from preschool through middle childhood. Emphasis is placed on knowledge, observation and assessment of developmental sequences in approaches to play/learning, emotional/social, health/physical, language/communication and cognitive domains. Upon completion, students should be able to compare/contrast typical/atypical developmental characteristics, explain biological and environmental factors that impact development, and identify evidence-based strategies for enhancing development for children that are culturally, linguistically, and ability diverse. (2020 FA) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

CHILD GUIDANCE

EDU-146 **Child Guidance** **3 (3-0)** **Spring**

Prerequisites:**Corequisites:**

This course introduces evidence-based strategies to build nurturing relationships with each child by applying principles and practical techniques to facilitate developmentally appropriate guidance. Topics include designing responsive/supportive learning environments, cultural, linguistic and socio-economic influences on behavior, appropriate expectations, the importance of communication with children/families including using technology and the use of formative assessments in establishing intentional strategies for children with unique needs. Upon completion, students should be able to demonstrate direct/indirect strategies to encourage social skills, self-regulation, emotional expression and positive behaviors while recognizing the relationship between children's social, emotional and cognitive development. (2020 FA)

CHILD PSYCHOLOGY

PSY-243 **Child Psychology** **3 (3-0)** **AND**
Prerequisites: PSY-150^S

Corequisites:

This course provides an overview of physical, cognitive, and psychosocial development from conception through adolescence. Topics include theories and research, interaction of biological and environmental factors, language development, learning and cognitive processes, social relations, and moral development. Upon completion, students should be able to identify typical and atypical childhood behavior patterns as well as appropriate strategies for interacting with children. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S. | Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

CHILD, FAMILY, AND COMMUNITY

EDU-131 **Child, Family, and Community** **3 (3-0)** **Fall**

Prerequisites:

Corequisites:

This course covers the development of partnerships among culturally, linguistically and ability diverse families, children, schools and communities through the use of evidence-based strategies. Emphasis is placed on developing skills and identifying benefits for establishing and supporting respectful relationships between diverse families, programs/schools, and community agencies/resources reflective of the NAEYC Code of Ethical Conduct and the Code of Ethics for North Carolina Educators. Upon completion, students should be able to identify appropriate relationship building strategies between diverse families, children birth through adolescence, schools, and communities and demonstrate a variety of communication skills including appropriate use of technology to support every child. (2020 FA) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

CHILDREN WITH EXCEPTIONALITIES

EDU-221 **Children With Exceptionalities** **3 (3-0)** **Spring**
Prerequisites: EDU-144^S, EDU-145^S

Corequisites:

This course covers atypical patterns of child development, inclusive/diverse settings, evidenced-based educational/family plans, differentiated instruction, adaptive materials, and assistive technology. Emphasis is placed on the characteristics of exceptionalities and delays, early intervention/special education, transitions, observation, developmental screening, formative assessment of children, and collaborating with families and community partners. Upon completion, students should be able to recognize diverse abilities, describe the referral process, identify community resources, explain the importance of collaboration with families/professionals, and develop appropriate strategies/adaptations to support children in all environments with best practices as defined by laws, policies and the NC Foundations for Early Learning and Development. (2020 FA) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

CHILDREN'S THEATRE

DRA-128 Children's Theatre 3 (3-0) Spring

Prerequisites: DRA-130^L

Corequisites:

This course introduces the philosophy and practice involved in producing plays for young audiences. Topics include the selection of age-appropriate scripts and the special demands placed on directors, actors, designers, and educators in meeting the needs of young audiences. Upon completion, students should be able to present and critically discuss productions for children. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

CHORUS I

**MUS-131 Chorus I 1 (0-2) Spring
Fall**

Prerequisites:

Corequisites:

This course provides an opportunity to gain experience singing in a chorus. Emphasis is placed on vocal techniques and the study and performance of a variety of styles and periods of choral literature. Upon completion, students should be able to demonstrate skills needed to participate in choral singing leading to performance. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

CHORUS II

**MUS-132 Chorus II 1 (0-2) Spring
Fall**

Prerequisites: MUS-131^S

Corequisites:

This course provides a continuation of studies begun in MUS 131. Emphasis is placed on vocal techniques and the study and performance of a variety of styles and periods of choral literature. Upon completion, students should be able to demonstrate skills needed to participate in choral singing leading to performance. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

CHORUS III

**MUS-231 Chorus III 1 (0-2) Spring
Fall**

Prerequisites: MUS-132^S

Corequisites:

This course is a continuation of MUS 132. Emphasis is placed on vocal techniques and the study and performance of a variety of styles and periods of choral literature. Upon completion, students should be able to demonstrate skills needed to participate in choral singing leading to performance. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

CHORUS IV

MUS-232 **Chorus IV** **1 (0-2)** **Spring
Fall**

Prerequisites: MUS-231^S

Corequisites:

This course is a continuation of MUS 231. Emphasis is placed on vocal techniques and the study of styles and periods of choral literature. Upon completion, students should be able to demonstrate skills needed to participate in choral singing leading to performance. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

CIRCUIT ANALYSIS I

ELC-131 **Circuit Analysis I** **4 (3-3)** **Fall**

Prerequisites:

Corequisites:

This course introduces DC and AC electricity with an emphasis on circuit analysis, measurements, and operation of test equipment. Topics include DC and AC principles, circuit analysis laws and theorems, components, test equipment operation, circuit simulation, and other related topics. Upon completion, students should be able to interpret circuit schematics; design, construct, verify, and analyze DC/AC circuits; and properly use test equipment. (2013 FA)

CIVIL LIABILITY

CJC-232 **Civil Liability** **3 (3-0)** **Summer**

Prerequisites:

Corequisites:

This course covers liability issues for the criminal justice professional. Topics include civil rights violations, tort liability, employment issues, and other related topics. Upon completion, students should be able to explain civil trial procedures and discuss contemporary liability issues. (1997 SU)

CLASS MUSIC I

MUS-151 **Class Music I** **1 (0-2)** **Spring
Fall**

Prerequisites:

Corequisites:

This course provides group instruction in skills and techniques of the particular instrument or voice for those with little or no previous experience. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

CLASS MUSIC II

MUS-152 **Class Music II** **1 (0-2)** **Spring
Fall**

Prerequisites: MUS-151^S

Corequisites:

This course is a continuation of MUS 151. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

CLASS MUSIC III

MUS-251 **Class Music III** **1 (0-2)** **Spring
Fall**

Prerequisites: MUS-152^S

Corequisites:

This course is a continuation of MUS 152. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

CLASS MUSIC IV

MUS-252 **Class Music IV** **1 (0-2)** **Spring
Fall**

Prerequisites: MUS-251^S

Corequisites:

This course is a continuation of MUS 251. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

CLINICAL CHEMISTRY I

MLT-130 **Clinical Chemistry I** **4 (3-3)** **Spring**

Prerequisites: MLT-110^L

Corequisites:

This course introduces the quantitative analysis of blood and body fluids and their variations in health and disease. Topics include clinical biochemistry, methodologies, instrumentation, and quality control. Upon completion, students should be able to demonstrate theoretical comprehension of clinical chemistry, perform diagnostic techniques, and correlate laboratory findings with disorders. (1997 SU)

CLUB & RESORT MANAGEMENT

HRM-230 Club & Resort Management 3 (3-0) Spring

Prerequisites:

Corequisites:

This course introduces specific principles of managing a hospitality operation in a resort or club setting. Topics include operational efficiencies, resort and club marketing, recreational and sport activity management, and retail management. Upon completion, students should be able to demonstrate an understanding of the specialized skills involved in resort and club management. (2011 FA)

COLLEGE ENGLISH SKILLS

ENG-025 College English Skills 3 (3-0)

Prerequisites:

Corequisites:

This course provides the skills necessary for success in college English courses. Topics include reading and writing processes and strategies, such as critical thinking, text analysis, idea development, and application of writing conventions. Upon completion, students should be able to analyze readings and produce unified, coherent, well-developed paragraphs and essays using appropriate document design and standard written English while developing positive academic habits, learning strategies, and a growth mindset. (2024 SU)

COLLEGE PHYSICS I

**PHY-151 College Physics I 4 (3-2) Summer
Fall**

Prerequisites: MAT-171^S or MAT-271^S

Corequisites:

This course uses algebra- and trigonometry-based mathematical models to introduce the fundamental concepts that describe the physical world. Topics include units and measurement, vectors, linear kinematics and dynamics, energy, power, momentum, fluid mechanics, and heat. Upon completion, students should be able to demonstrate an understanding of the principles involved and display analytical problem-solving ability for the topics covered. (2018 SP) This course has been approved to satisfy the following requirement(s): | UGETC course for A.S. and A.S. Teacher Preparation | Natural Science Gen. Ed. course for A.A. and A.A. Teacher Preparation | Natural Science Gen. Ed. course for A.G.E.

COLLEGE PHYSICS II

PHY-152 **College Physics II** **4 (3-2)** **Spring**
Prerequisites: PHY-151^S

Corequisites:

This course uses algebra- and trigonometry-based mathematical models to introduce the fundamental concepts that describe the physical world. Topics include electrostatic forces, electric fields, electric potentials, direct-current circuits, magnetostatic forces, magnetic fields, electromagnetic induction, alternating-current circuits, and light. Upon completion, students should be able to demonstrate an understanding of the principles involved and display analytical problem-solving ability for the topics covered. (1997 SU) This course has been approved to satisfy the following requirement(s): | UGETC course for A.S. and A.S. Teacher Preparation | Natural Science Gen. Ed. course for A.A. and A.A. Teacher Preparation | Natural Science Gen. Ed. course for A.G.E.

COMMERCIAL FLIGHT THEORY

AER-170 **Commercial Flight Theory** **3 (3-0)** **Spring
Fall**

Prerequisites: AER-160^L

Corequisites:

This course covers advanced aircraft control, cross-country operations, and other topics required for the FAA commercial pilot written exam. Emphasis is placed on the principles of aircraft performance and operation, take-off performance, cruise performance, descent and landing performance, and weight and balance computations. Upon completion, students should be able to demonstrate commercial pilot skills and competence in the materials required for the FAA written commercial pilot examination. (1997 SU)

COMMERCIAL WIRING

ELC-114 **Commercial Wiring** **4 (2-6)** **Spring**

Prerequisites:

Corequisites:

This course provides instruction in the application of electrical tools, materials, and test equipment associated with commercial electrical installations. Topics include the NEC; safety; electrical blueprints; planning, layout, and installation of equipment and conduits; and wiring devices such as panels and overcurrent devices. Upon completion, students should be able to properly install equipment and conduit associated with commercial electrical installations.(2025 FA)

COMMUNITY-BASED CORRECTIONS

CJC-241 **Community-Based Corrections** **3 (3-0)** **Spring**

Prerequisites:

Corequisites:

This course covers programs for convicted offenders that are used both as alternatives to incarceration and in post-incarceration situations. Topics include offenders, diversion, house arrest, restitution, community service, probation and parole, including both public and private participation, and other related topics. Upon completion, students should be able to identify/discuss the various programs from the perspective of the criminal justice professional, the offender, and the community. (1997 SU)

COMPARATIVE CULTURES

ANT-221 **Comparative Cultures** **3 (3-0)** **AND**

Prerequisites: ENG-025^L

Corequisites:

This course provides an ethnographic survey of societies around the world covering their distinctive cultural characteristics and how these relate to cultural change. Emphasis is placed on the similarities and differences in social institutions such as family, economics, politics, education, and religion. Upon completion, students should be able to demonstrate knowledge of a variety of cultural adaptive strategies. (1997 SU) This course has been approved to satisfy the following requirement(s): | Social/Behavioral Science Gen. Ed. course for A.A., A.A. Teacher Preparation and A.S. | Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

COMPARATIVE GOVERNMENT

POL-210 **Comparative Government** **3 (3-0)** **AND**

Prerequisites: ENG-025^L

Corequisites:

This course provides a cross-national perspective on the government and politics of contemporary nations such as Great Britain, France, Germany, and Russia. Topics include each country's historical uniqueness, key institutions, attitudes and ideologies, patterns of interaction, and current political problems. Upon completion, students should be able to identify and compare various nations' governmental structures, processes, ideologies, and capacity to resolve major problems. (1997 SU) This course has been approved to satisfy the following requirement(s): | Social/Behavioral Science Gen. Ed. course for A.A., A.A. Teacher Preparation and A.S.

COMPLEX HEALTH CONCEPTS

NUR-213 **Complex Health Concepts** **10** **Spring**
(4-3-15)

Prerequisites: NUR-111^S; NUR-112^L, NUR-113^L, NUR-114^L, NUR-211^L, NUR-212^L,
ACA-122^L, BIO-168^L, BIO-169^L, PSY-150^L, PSY-241^L, ENG-111^L,
BIO-275^L, SOC-210^L; ENG-112 or ENG-114; all Minimum grade C
Corequisites: ART-111^L, ART-114^L, ART-115^L, MUS-110^L, MUS-112^L, PHI-215^L,
PHI-240^L or HUM-115^L

This course is designed to assimilate the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of fluid/electrolytes, metabolism, perfusion, mobility, stress/coping, violence, health-wellness-illness, professional behaviors, caring interventions, managing care, healthcare systems, and quality improvement. Upon completion, students should be able to demonstrate the knowledge, skills, and attitudes necessary to provide quality, individualized, entry level nursing care. (2011 FA)

COMPUTER GRAPHICS I

GRA-151 **Computer Graphics I** **2 (1-3)** **Fall**

Prerequisites:

Corequisites:

This course introduces the use of hardware and software for production and design in graphic arts. Topics include graphical user interface and current industry uses such as design, layout, typography, illustration, and imaging for production. Upon completion, students should be able to understand and use the computer as a fundamental design and production tool. (1997 SU)

COMPUTER UPGRADE/REPAIR I

CET-111 **Computer Upgrade/Repair I** **3 (2-3)** **Spring**
Fall

Prerequisites:

Corequisites:

This course covers repairing, servicing, and upgrading computers and peripherals in preparation for industry certification. Topics include CPU/memory/bus identification, disk subsystems, hardware/software installation/configuration, common device drivers, data recovery, system maintenance, and other related topics. Upon completion, students should be able to safely repair and/or upgrade computer systems to perform within specifications. (2007 FA)

COMPUTER UPGRADE/REPAIR II

CET-211 **Computer Upgrade/Repair II** **3 (2-3)** **Spring**

Prerequisites: CET-111^L

Corequisites:

This course covers concepts of repair, service, and upgrade of computers and peripherals in preparation for industry certification. Topics may include resolving resource conflicts and system bus specifications, configuration and troubleshooting peripherals, operating system configuration and optimization, and other related topics. Upon completion, students should be able to identify and resolve system conflicts and optimize system performance. (2007 FA)

CONCEPTS OF ESSENTIAL MATH/STA

MAT-025 **Concepts of Essential Math/Sta** **3 (3-0)** **Fall
Spring
Summer**

Prerequisites:

Corequisites:

This course provides an opportunity to customize foundational math content and statistical concepts specific to real-world applications. Topics include decimals, percentages, ratios, proportions, solving basic equations, geometrical concepts, dimensional analysis, financial applications and elements of statistics and probability. Upon completion, students should be able to successfully demonstrate the use of mathematics, technology and statistical concepts to solve practical problems while developing positive academic habits, learning strategies and growth mindset. (2024 SU)

CONCEPTUAL PHYSICS

PHY-110 **Conceptual Physics** **3 (3-0)** **Spring
Fall**

Prerequisites: MAT-025^L or MAT-035^L

Corequisites: PHY-110A^L

This course provides a conceptually-based exposure to the fundamental principles and processes of the physical world. Topics include basic concepts of motion, forces, energy, heat, electricity, magnetism, and the structure of matter and the universe. Upon completion, students should be able to describe examples and applications of the principles studied. (1997 SU) This course has been approved to satisfy the following requirement(s): | UGETC course for A.A., A.A. Teacher Preparation, and A.F.A. | Natural Science Gen. Ed. course for A.S. and A.S. Teacher Preparation | Natural Science Gen. Ed. course for A.A.S. and A.G.E.

CONCEPTUAL PHYSICS LAB

PHY-110A **Conceptual Physics Lab** **1 (0-2)** **Spring
Fall**

Prerequisites: MAT-025^L or MAT-035^L

Corequisites: PHY-110^S

This course is a laboratory for PHY 110. Emphasis is placed on laboratory experiences that enhance materials presented in PHY 110. Upon completion, students should be able to apply the laboratory experiences to the concepts presented in PHY 110. (1997 SU) This course has been approved to satisfy the following requirement(s): | UGETC course for A.A., A.A. Teacher Preparation, and A.F.A. | Natural Science Gen. Ed. course for A.S. and A.S. Teacher Preparation | Natural Science Gen. Ed. course for A.A.S. and A.G.E.

CONSTITUTIONAL LAW

CJC-231 **Constitutional Law** **3 (3-0)** **Fall**

Prerequisites:

Corequisites:

The course covers the impact of the Constitution of the United States and its amendments on the criminal justice system. Topics include the structure of the Constitution and its amendments, court decisions pertinent to contemporary criminal justice issues, and other related topics. Upon completion, students should be able to identify/discuss the basic structure of the United States Constitution and the rights/procedures as interpreted by the courts. (1997 SU) Students who have successfully completed LET-110, Basic Law Enforcement, may receive credit for CJC-231.

CONSTR MATLS & METHODS

ARC-112 **Constr Matls & Methods** **4 (3-2)** **Fall**

Prerequisites:

Corequisites: ARC-111^L

This course introduces construction materials and methodologies. Topics include construction terminology, traditional and alternative materials and their properties, manufacturing processes, construction techniques, and other related topics. Upon completion, students should be able to detail construction assemblies and identify construction materials and properties. (2013 FA)

CONSTRUCTION I

CST-111 **Construction I** **4 (3-3)** **Fall**

Prerequisites:

Corequisites:

This course covers standard and alternative building methods to include wall framing. Topics include safety and footings, foundations, floor framing systems, and wall framing systems commonly used in the construction industry. Upon completion, students should be able to safely erect all framing necessary to begin roof framing. (1997 SU)

CONTEMPORARY CUISINES

CUL-245 Contemporary Cuisines 5 (1-8) Spring
Prerequisites: CUL-110^S, CUL-140^S

Corequisites:

This course introduces students to current culinary trends which include a variety of preparation methods. Topics include current and developing trends such as adaptation of native/regional ingredients and preparation methods into contemporary cuisines. Upon completion, students should be able to demonstrate knowledge of a variety of contemporary cuisines. (2011 FA)

CORRECTIONS

CJC-141 Corrections 3 (3-0) Spring
Prerequisites:

Corequisites:

This course covers the history, major philosophies, components, and current practices and problems of the field of corrections. Topics include historical evolution, functions of the various components, alternatives to incarceration, treatment programs, inmate control, and other related topics. Upon completion, students should be able to explain the various components, processes, and functions of the correctional system. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

COSMETOLOGY CONCEPTS I

**COS-111 Cosmetology Concepts I 4 (4-0) Spring
Fall**

Prerequisites: ENG-025^L

Corequisites: COS-112^S

This course introduces basic cosmetology concepts. Topics include safety, first aid, sanitation, bacteriology, anatomy, diseases and disorders, hygiene, product knowledge, chemistry, ethics, manicures, and other related topics. Upon completion, students should be able to safely and competently apply cosmetology concepts in the salon setting. (1997 SU)

COSMETOLOGY CONCEPTS II

**COS-113 Cosmetology Concepts II 4 (4-0) Spring
Fall**

Prerequisites: COS-111^S; Minimum grade CL; and COS-112^S

Corequisites: COS-114^S

This course covers more comprehensive cosmetology concepts. Topics include safety, product knowledge, chemistry, manicuring, chemical restructuring, and hair coloring. Upon completion, students should be able to safely and competently apply these cosmetology concepts in the salon setting. (2016 FA)

COSMETOLOGY CONCEPTS III

COS-115 **Cosmetology Concepts III** **4 (4-0)** **Summer**

Prerequisites: COS-111^S; Minimum grade CL; and COS-112^S

Corequisites: COS-116^L

This course covers more comprehensive cosmetology concepts. Topics include safety, product knowledge, salon management, salesmanship, skin care, electricity/light therapy, wigs, thermal hair styling, lash and brow tinting, superfluous hair removal, and other related topics. Upon completion, students should be able to safely and competently apply these cosmetology concepts in the salon setting. (2016 FA)

COSMETOLOGY CONCEPTS IV

COS-117 **Cosmetology Concepts IV** **2 (2-0)** **Spring
Fall**

Prerequisites: COS-111^S; Minimum grade CL; and COS-112^S

Corequisites: COS-118^L

This course covers advanced cosmetology concepts. Topics include chemistry and hair structure, advanced cutting and design, and an overview of all cosmetology concepts in preparation for the licensing examination. Upon completion, students should be able to demonstrate an understanding of these cosmetology concepts and meet program completion requirements. (2016 FA)

COST CONTROL-FOOD & BEV

HRM-220 **Cost Control-Food & Bev** **3 (3-0)** **Fall**

Prerequisites: ENG-025^L

Corequisites:

This course introduces controls and accounting procedures as applied to costs in the hospitality industry. Topics include reports, cost control, planning and forecasting, control systems, financial statements, operational efficiencies, labor controls and scheduling. Upon completion, students should be able to demonstrate an understanding of food, beverage, and labor cost control systems for operational troubleshooting and problem solving. (2011 FA)

COURT PROCEDURE & EVIDENCE

CJC-132 **Court Procedure & Evidence** **3 (3-0)** **Spring**

Prerequisites:

Corequisites:

This course covers judicial structure/process/procedure from incident to disposition, kinds and degrees of evidence, and the rules governing admissibility of evidence in court. Topics include consideration of state and federal courts, arrest, search and seizure laws, exclusionary and statutory rules of evidence, and other related issues. Upon completion, students should be able to identify and discuss procedures necessary to establish a lawful arrest/search, proper judicial procedures, and the admissibility of evidence. (1997 SU) Students who have successfully completed LET-110, Basic Law Enforcement, may receive credit for CJC-132.

CREATIVE ACTIVITIES

EDU-151 **Creative Activities** **3 (3-0)** **Fall**

Prerequisites:

Corequisites:

This course introduces developmentally supportive, diverse, equitable, and inclusive creative learning environments with attention to divergent thinking, creative problem-solving, evidence-based teaching practices, and open-ended learning materials and activities that align with the NC Foundations for Early Learning and Development. Emphasis is placed on best practices providing process-driven culturally diverse, learning experiences in art, music, creative movement, dance, and dramatic play integrated across all domains and academic content in indoor/outdoor environments for every young child age birth through age eight. Upon completion, students should be able to observe, examine, create, adapt, and advocate for developmentally appropriate creative learning materials, experiences, and environments for children that are culturally, linguistically, and ability diverse. (2022 FA)

CREATIVE WRITING I

ENG-125 **Creative Writing I** **3 (3-0)** **Fall**

Prerequisites: ENG-111^S

Corequisites:

This course is designed to provide students with the opportunity to practice the art of creative writing. Emphasis is placed on writing, fiction, poetry, and sketches. Upon completion, students should be able to craft and critique their own writing and critique the writing of others. (2001 FA) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S. | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

CREATIVE WRITING II

ENG-126 **Creative Writing II** **3 (3-0)** **AND**

Prerequisites: ENG-125^S

Corequisites:

This course is designed as a workshop approach for advancing imaginative and literary skills. Emphasis is placed on the discussion of style, techniques, and challenges for first publications. Upon completion, students should be able to submit a piece of their writing for publication. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

CRIME SCENE PHOTOGRAPHY

CJC-115 **Crime Scene Photography** **3 (2-3)** **Spring**

Prerequisites:

Corequisites:

This course covers methodologies for photographing crime scenes including their application to forensic sciences, the legal system, and the proper use of digital cameras and accessories. Topics include digital cameras, operational functions required to properly photograph physical evidence and crime scenes, factors affecting admissibility of crime scene photographs, and methods and techniques specific to photographing crime scenes. Upon completion, students should be able to operate digital cameras using appropriate settings to control exposure and depth of field, properly compose various types of crime scene photographs, and use specialized techniques to properly photograph key items of evidence. (2016 FA)

CRIME SCENE PROCESSING

CJC-144 **Crime Scene Processing** **3 (2-3)** **Fall**

Prerequisites:

Corequisites:

This course introduces the theories and practices of crime scene processing and investigating. Topics include legal considerations at the crime scene, processing indoor and outdoor scenes, recording, note taking, collection and preservation of evidence and submission to the crime laboratory. Upon completion, the student should be able to evaluate and search various crime scenes and demonstrate the appropriate techniques. (2000 SP)

CRIMINAL LAW

CJC-131 **Criminal Law** **3 (3-0)** **Spring**

Prerequisites:

Corequisites:

This course covers the history/evolution/principles and contemporary applications of criminal law. Topics include sources of substantive law, classification of crimes, parties to crime, elements of crimes, matters of criminal responsibility, and other related topics. Upon completion, students should be able to discuss the sources of law and identify, interpret, and apply the appropriate statutes/elements. (1997 SU) Students who have successfully completed LET-110, Basic Law Enforcement, may receive credit for CJC-131.

CRIMINALISTICS

CJC-222 **Criminalistics** **3 (3-0)** **Spring**

Prerequisites:

Corequisites:

This course covers the functions of the forensic laboratory and its relationship to successful criminal investigations and prosecutions. Topics include advanced crime scene processing, investigative techniques, current forensic technologies, and other related topics. Upon completion, students should be able to identify and collect relevant evidence at simulated crime scenes and request appropriate laboratory analysis of submitted evidence. (1997 SU)

CRIMINOLOGY

CJC-112 Criminology 3 (3-0) Fall

Prerequisites:

Corequisites:

This course introduces deviant behavior as it relates to criminal activity. Topics include theories of crime causation; statistical analysis of criminal behavior; past, present, and future social control initiatives; and other related topics. Upon completion, students should be able to explain and discuss various theories of crime causation and societal response. (1997 SU)

CRISIS INTERVENTION

CJC-225 Crisis Intervention 3 (3-0) Fall

Prerequisites:

Corequisites:

This course introduces critical incident intervention and management techniques as they apply to operational criminal justice practitioners. Emphasis is placed on the victim/offender situation as well as job-related high stress, dangerous, or problem-solving citizen contacts. Upon completion, students should be able to provide insightful analysis of emotional, violent, drug-induced, and other critical and/or stressful incidents that require field analysis and/or resolution. (1997 SU)

CRITICAL CARE CONCEPTS

RCP-210 Critical Care Concepts 4 (3-3) Summer

Prerequisites: RCP-111^L

Corequisites:

This course provides further refinement of acute patient care and underlying pathophysiology. Topics include a continuation in the application and management of mechanical ventilation, assessment underlying pathophysiology, and introduction of critical care monitoring. Upon completion, students should be able to demonstrate competence in respiratory therapy concepts and procedures through written, laboratory and/or clinical simulation evaluations. (2017 FA)

CRITICAL THINKING

HUM-115 Critical Thinking 3 (3-0)

Prerequisites: ENG-025^L

Corequisites:

This course introduces the use of critical thinking skills in the context of human conflict. Emphasis is placed on evaluating information, problem solving, approaching cross-cultural perspectives, and resolving controversies and dilemmas. Upon completion, students should be able to demonstrate orally and in writing the use of critical thinking skills in the analysis of appropriate texts. (2025 SP) This course has been approved to satisfy the following requirement(s): | Humanities/Fine Arts Gen. Ed. course for A.A., A.A. Teacher Preparation and A.S. | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

CULINARY SKILLS I

**CUL-140 Culinary Skills I 5 (2-6) Spring
Fall**

Prerequisites:**Corequisites:** CUL-110^S

This course introduces the fundamental concepts, skills and techniques in basic cookery, and moist, dry and combination heat. Emphasis is placed on recipe conversion, measurements, terminology, classical knife cuts, safe food/equipment handling, flavorings/seasonings, stocks/sauces/soups, and related topics. Upon completion, students should be able to exhibit the basic cooking skills used in the foodservice industry. (2011 FA)

CULINARY SKILLS II

CUL-240 Culinary Skills II 5 (1-8) Spring

Prerequisites: CUL-110^S CUL-140^S; ENG-025^L**Corequisites:**

This course is designed to further students' knowledge of the fundamental concepts, skills, and techniques involved in basic cookery. Emphasis is placed on meat identification/fabrication, butchery and cooking techniques/methods; appropriate vegetable/starch accompaniments; compound sauces; plate presentation; breakfast cookery; and quantity food preparation. Upon completion, students should be able to plan, execute, and successfully serve entrees with complementary side items. (2017 FA)

CULTURAL ANTHROPOLOGY

ANT-220 Cultural Anthropology 3 (3-0) AND

Prerequisites: ENG-025^L**Corequisites:**

This course introduces the nature of human culture. Emphasis is placed on cultural theory, methods of fieldwork, and cross-cultural comparisons in the areas of ethnology, language, and the cultural past. Upon completion, students should be able to demonstrate an understanding of basic cultural processes and how cultural data are collected and analyzed. (1997 SU) This course has been approved to satisfy the following requirement(s): | Social/Behavioral Science Gen. Ed. course for A.A., A.A. Teacher Preparation and A.S. | Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

CULTURAL STUDIES

HUM-120 Cultural Studies 3 (3-0) AND

Prerequisites:**Corequisites:**

This course introduces the distinctive features of a particular culture. Topics include art, history, music, literature, politics, philosophy, and religion. Upon completion, students should be able to appreciate the unique character of the study culture. (1997 SU) This course has been approved to satisfy the following requirement(s): | Humanities/Fine Arts Gen. Ed. course for A.A., A.A. Teacher Preparation and A.S. | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

CURRICULUM PLANNING

EDU-259 Curriculum Planning 3 (3-0) Fall

Prerequisites: EDU-119^S

Corequisites:

This course is designed to focus on using content knowledge to build effective developmentally appropriate approaches that are culturally responsive, equitable, and ability diverse for young children. Topics include components of curriculum, a variety of curriculum models, authentic observation and assessment, and planning developmentally appropriate experiences and indoor/outdoor environments aligned with the NC Foundations for Early Learning and Development. Upon completion, students should be able to understand, evaluate, and use developmentally appropriate curriculum to plan for the individual/group needs of young children.(2022 FA)

CUSTOMER EXPERIENCE

MKT-223 Customer Experience 3 (3-0) Fall

Prerequisites:

Corequisites:

This course stresses the importance of customer relations in the business world. Emphasis is placed on learning how to respond to complex customer requirements and to efficiently handle stressful situations. Upon completion, students should be able to demonstrate the ability to handle customer relations.(2024 FA)

CUTTING PROCESSES

WLD-110 Cutting Processes 2 (1-3) Spring

Prerequisites:

Corequisites:

This course introduces oxy-fuel and plasma-arc cutting systems. Topics include safety, proper equipment setup, and operation of oxy-fuel and plasma-arc cutting equipment with emphasis on straight line, curve and bevel cutting. Upon completion, students should be able to oxy-fuel and plasma-arc cut metals of varying thickness.(2013 FA)

DATABASE CONCEPTS

DBA-110 Database Concepts 3 (2-3) Fall

Prerequisites:

Corequisites:

This course introduces database design and creation using a DBMS product. Emphasis is placed on data dictionaries, normalization, data integrity, data modeling, and creation of simple tables, queries, reports, and forms. Upon completion, students should be able to design and implement normalized database structures by creating simple database tables, queries, reports, and forms. (2006 SP)

DATABASE PROGRAMMING I

DBA-120 Database Programming I 3 (2-2) Fall

Prerequisites:

Corequisites:

This course is designed to develop SQL programming proficiency. Emphasis is placed on data definition, data manipulation, and data control statements as well as on report generation. Upon completion, students should be able to write programs which create, update, and produce reports. (2006 SP)

DEFENSE TACTICS FOR EMS

EMS-115 Defense Tactics for EMS 2 (1-3) AND

Prerequisites:

Corequisites:

This course is designed to provide tactics that can be used for self-protection in dangerous and violent situations. Emphasis is placed on prediction, recognition, and response to dangerous and violent situations. Upon completion, students should be able to recognize potentially hostile situations and protect themselves during a confrontation. (1997 SU)

DESCRIPTIVE ASTRONOMY

AST-111 Descriptive Astronomy 3 (3-0) AND

Prerequisites: ENG-025^L; MAT-025^L

Corequisites: AST-111A^L

This course introduces an overall view of modern astronomy. Topics include an overview of the solar system, the sun, stars, galaxies, and the larger universe. Upon completion, students should be able to demonstrate an understanding of the universe around them. (1997 SU) This course has been approved to satisfy the following requirement(s): | UGETC course for A.A., A.A. Teacher Preparation and A.F.A. | Natural Science Gen. Ed. course for A.S. and A.S. Teacher Preparation | Natural Science Gen. Ed. course for A.A.S. and A.G.E.

DESCRIPTIVE ASTRONOMY LAB

AST-111A Descriptive Astronomy Lab 1 (0-2) AND

Prerequisites: ENG-025^L; MAT-025^L

Corequisites: AST-111^S

The course is a laboratory to accompany AST 111. Emphasis is placed on laboratory experiences which enhance the materials presented in AST 111 and which provide practical experience. Upon completion, students should be able to demonstrate an understanding of the universe around them. (1997 SU) This course has been approved to satisfy the following requirement(s): | UGETC course for A.A., A.A. Teacher Preparation and A.F.A. | Natural Science Gen. Ed. course for A.S. and A.S. Teacher Preparation | Natural Science Gen. Ed. course for A.A.S. and A.G.E.

DESSERT/BREAD PRODUCTION

BPA-250 **Dessert/Bread Production** **5 (1-8)** **Fall**

Prerequisites: BPA-150^S; ENG-025^L

Corequisites:

This course is designed to merge artistry and innovation with the practical baking and pastry techniques utilized in a production setting. Emphasis is placed on quantity bread and roll-in dough production, plated and platter presentations, seasonal/theme product utilization and cost effectiveness. Upon completion, students should be able to plan, prepare and evaluate breads and desserts within a commercial environment and determine production costs and selling prices. (2012 SU)

DETECTION & INVESTIGATION

FIP-128 **Detection & Investigation** **3 (3-0)** **Fall**

Prerequisites:

Corequisites:

This course covers procedures for determining the origin and cause of accidental and incendiary fires referenced in NFPA standard 921. Topics include collection and preservation of evidence, detection and determination of accelerants, courtroom procedure and testimony, and documentation of the fire scene. Upon completion, students should be able to conduct a competent fire investigation and present those findings to appropriate officials or equivalent. (2014 FA)

DEVELOPMENTAL PSYCH

PSY-241 **Developmental Psych** **3 (3-0)** **Summer
Spring
Fall**

Prerequisites: PSY-150^S

Corequisites:

This course is a study of human growth and development. Emphasis is placed on major theories and perspectives as they relate to the physical, cognitive, and psychosocial aspects of development from conception to death. Upon completion, students should be able to demonstrate knowledge of development across the life span. (1997 SU) This course has been approved to satisfy the following requirement(s): | Social/Behavioral Science Gen. Ed. course for A.A., A.A. Teacher Preparation and A.S. | Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

DIAGNOSTIC CODING

OST-248 **Diagnostic Coding** **3 (2-2)** **Spring
Fall**

Prerequisites: MED-121^S or OST-141^S; OST-148^L

Corequisites:

This course provides an in-depth study of diagnostic coding. Emphasis is placed on ICD coding system. Upon completion, students should be able to properly code diagnoses in a medical facility. (2017 FA)

DIFFERENTIAL EQUATIONS

MAT-285 **Differential Equations** **3 (2-2)** **Spring**

Prerequisites: MAT-272^S; Minimum grade C;

Corequisites:

This course provides an introduction to topics involving ordinary differential equations. Emphasis is placed on the development of abstract concepts and applications for first-order and linear higher-order differential equations, systems of differential equations, numerical methods, series solutions, eigenvalues and eigenvectors, and LaPlace transforms. Upon completion, students should be able to demonstrate understanding of the theoretical concepts and select and use appropriate models and techniques for finding solutions to differential equations-related problems with and without technology. (2014 FA) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S. | Other Gen. Ed. and Premajor Elective Hour course for A.E.

DIGITAL DESIGN I

ART-171 **Digital Design I** **3 (0-6)** **Spring
Fall**

Prerequisites:

Corequisites:

This course is designed to introduce students to the elements and principles of design through the use of digital software. Emphasis is placed on developing composition and design skills using vector, raster, and time-based media. Upon completion, students should be able to identify and use tools in digital software, understand and utilize digital and artistic vocabulary, and employ the principles and elements of design to create artwork using digital means. (2019 FA) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S. | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

DIGITAL ELECTRONICS

ELN-133 **Digital Electronics** **4 (3-3)** **Summer**

Prerequisites:

Corequisites:

This course covers combinational and sequential logic circuits. Topics include number systems, Boolean algebra, logic families, medium scale integration (MSI) and large scale integration (LSI) circuits, analog to digital (AD) and digital to analog (DA) conversion, and other related topics. Upon completion, students should be able to construct, analyze, verify, and troubleshoot digital circuits using appropriate techniques and test equipment. (2013 FA)

DIGITAL PHOTOGRAPHY I

GRD-167 **Digital Photography I** **3 (1-4)** **Spring**

Prerequisites:

Corequisites:

This course introduces basic camera operations. Topics include subject composition, depth of field, shutter control, light control, color, photo-finishing, digital imaging, correction and output. Upon completion, students should be able to produce digital photography with acceptable technical and compositional quality. (2024 FA)

ART-264 **Digital Photography I** **3 (0-6)** **Spring**
Fall

Prerequisites:

Corequisites:

This course introduces digital photographic equipment, theory and processes. Emphasis is placed on camera operation, composition, computer photo manipulation and creative expression. Upon completion, students should be able to successfully expose, digitally manipulate, and print a well-conceived composition. (2016 FA) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

DRAWING I

ART-131 **Drawing I** **3 (0-6)** **Spring**
Fall

Prerequisites:

Corequisites:

This course introduces the language of drawing and the use of various drawing materials. Emphasis is placed on drawing techniques, media, and graphic principles. Upon completion, students should be able to demonstrate competence in the use of graphic form and various drawing processes. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A., A.F.A. (visual arts), and A.S. | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

DRAWING II

ART-132 **Drawing II** **3 (0-6)** **Spring**
Fall

Prerequisites: ART-131^S

Corequisites:

This course continues instruction in the language of drawing and the use of various materials. Emphasis is placed on experimentation in the use of drawing techniques, media, and graphic materials. Upon completion, students should be able to demonstrate increased competence in the expressive use of graphic form and techniques. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S. | Humanities/Fine Arts Gen. Ed. course for A.G.E.

EMS BRIDGING COURSE

EMS-280 EMS Bridging Course 3 (2-2) AND

Prerequisites:

Corequisites:

This course is designed to provide currently credentialed state or national Paramedic students with the most current education trends in Paramedic Practice. Emphasis is placed on transitions in healthcare. Upon completion, students should be able to integrate emerging trends in pre-hospital care. (2019 SP)

EMS CAPSTONE

EMS-285 EMS Capstone 2 (1-3) Spring

Prerequisites: EMS-220, EMS-250, EMS-260

Corequisites:

This course provides an opportunity to demonstrate problem-solving skills as a team leader in simulated patient scenarios and is required for paramedic certification. Emphasis is placed on critical thinking, integration of didactic and psychomotor skills, and effective performance in simulated emergency situations. Upon completion, students should be able to recognize and appropriately respond to a variety of EMS-related events. (1997 SU)

EMS CLINICAL PRACT III

EMS-231 EMS Clinical Pract III 3 (0-0-9) Fall

Prerequisites: EMS-221^S

Corequisites:

This course provides clinical experiences in the hospital and/or field. Emphasis is placed on enhancing the students' skills and abilities in providing advanced-level care. Upon completion, students should be able to demonstrate continued progress in advanced-level patient care. (2014 SP)

EMS CLINICAL PRACTICUM I

EMS-122 EMS Clinical Practicum I 1 (0-0-3) Spring

Prerequisites: EMS-110^S

Corequisites:

This course provides the introductory hospital clinical experience for the paramedic student. Emphasis is placed on mastering fundamental paramedic skills. Upon completion, students should be able to demonstrate competency with fundamental paramedic level skills. (2019 SP)

EMS CLINICAL PRACTICUM II

EMS-221 EMS Clinical Practicum II 2 (0-0-6) Summer

Prerequisites: EMS-121^S or EMS-122^S

Corequisites:

This course provides clinical experiences in the hospital and/or field. Emphasis is placed on increasing the proficiency of students' skills and abilities in patient assessments and the delivery of care. Upon completion, students should be able to demonstrate continued progress in advanced-level patient care. (2019 SP)

EMS CLINICAL PRACTICUM IV

EMS-241 **EMS Clinical Practicum IV** **4** **Spring**
(0-0-12)

Prerequisites: EMS-231^S

Corequisites:

This course provides clinical experiences in the hospital and/or field. Emphasis is placed on mastering the skills/competencies required of the paramedic providing advanced-level care. Upon completion, students should be able to provide advanced-level patient care as an entry-level paramedic. (2014 SP)

EMS INSTRUCTOR METHODOLOGY

EMS-125 **EMS Instructor Methodology** **3 (2-2)** **AND**

Prerequisites:

Corequisites:

This course covers the information needed to develop and instruct EMS courses. Topics include instructional methods, lesson plan development, time management skills, and theories of adult learning. Upon completion, students should be able to teach EMS courses and meet the North Carolina EMS requirements for instructor methodology. (2019 SP)

EMS MANAGEMENT

EMS-235 **EMS Management** **2 (2-0)** **AND**

Prerequisites:

Corequisites:

This course stresses the principles of managing a modern emergency medical service system. Topics include structure and function of municipal governments, EMS grantsmanship, finance, regulatory agencies, system management, legal issues, and other topics relevant to the EMS manager. Upon completion, students should be able to understand the principles of managing emergency medical service delivery systems. (1997 SU)

EMT

EMS-110 **EMT** **9 (6-6-3)** **Fall**

Prerequisites:

Corequisites:

This course introduces basic emergency medical care. Topics include preparatory, airway, patient assessment, medical emergencies, trauma, infants and children, and operations. Upon completion, students should be able to demonstrate the knowledge and skills necessary to achieve North Carolina State or National Registry EMT certification. (2019 SP)

EARLY CHILD CAPSTONE PRAC

EDU-284 **Early Child Capstone Prac** **4 (1-9)** **Summer
Spring**

Prerequisites: EDU-119^S, EDU-144^S, EDU-145^S, EDU-146^S, EDU-151^S; MAT-025^L

Corequisites:

This course is designed to allow students to demonstrate acquired skills in a three star (minimum) or NAEYC accredited or equivalent, quality early childhood environment. Emphasis is placed on designing, implementing and evaluating developmentally appropriate activities and environments for all children; supporting/engaging families; and modeling reflective and professional practices based on national and state guidelines. Upon completion, students should be able to apply NC Foundations for Early Learning and Development to demonstrate developmentally appropriate plans/assessments, appropriate guidance techniques and ethical/professional behaviors, including the use of appropriate technology, as indicated by assignments and onsite faculty assessments. (2020 FA)

EARLY CHILD INTRO PRACT

EDU-184 **Early Child Intro Pract** **2 (1-3)** **AND**

Prerequisites: EDU-119^S

Corequisites:

This course introduces students to early childhood settings and applying skills in a three star (minimum) or NAEYC accredited or equivalent, quality early childhood environment. Emphasis is placed on observing children, assisting in the implementation of developmentally appropriate, culturally responsive, equitable, and ability diverse activities in indoor/outdoor environments for young children, supporting/engaging families, and modeling reflective/professional practices based on national/state guidelines. Upon completion, students should be able to implement respectful/reciprocal relationships with children and families, design, implement, and adapt developmentally appropriate activities, plans, and daily routines that align with NC Foundations for Early Learning and Development and demonstrate ethical/professional behaviors as indicated by assignments and onsite/virtual faculty assessments.(2022 FA)

EARLY CHILDHOOD ADMIN I

EDU-261 **Early Childhood Admin I** **3 (3-0)** **Summer**

Prerequisites:

Corequisites: EDU-119^S

This course provides an overview of essential administrative components for managing early childhood programs, including child development, program frameworks, North Carolina child care rules and regulations, effective leadership practices, reflective supervision, and the NAEYC Code of Ethical Conduct. Emphasis is placed on personnel management, financial planning, reflective supervision strategies, child development principles, ethical decision-making, and ensuring compliance with state regulations to maintain high-quality learning environments. Upon completion, students should be able to apply program standards, manage staffing and budgets, implement reflective supervision to support professional growth, integrate child development knowledge into program planning, uphold ethical responsibilities following the NAEYC Code of Ethical Conduct, and navigate regulatory requirements to support successful early childhood program operations.(2026 SP)

EARLY CHILDHOOD ADMIN II

EDU-262 Early Childhood Admin II 3 (3-0) Summer

Prerequisites: EDU-261^S

Corequisites: EDU-119^S

This course is designed to prepare students for leadership roles in licensed child care facilities in North Carolina by focusing on curriculum development, program assessment, and resource management for centers and families. Emphasis is placed on best practices in early childhood curriculum, quality improvement strategies, advocacy, and leadership in early learning environments. Upon completion, students should be able to implement developmentally appropriate curriculum, assess program effectiveness, support families with relevant resources, and advocate for policies that enhance early childhood education and program quality. (2026 SP)

EDUCATIONAL PSYCHOLOGY

PSY-263 Educational Psychology 3 (3-0) Summer

Prerequisites: PSY-150^S

Corequisites:

This course examines the application of psychological theories and principles to the educational process and setting. Topics include learning and cognitive theories, achievement motivation, teaching and learning styles, teacher and learner roles, assessment, and developmental issues. Upon completion, students should be able to demonstrate an understanding of the application of psychological theory to educational practice. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S. | Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

EDUCATIONAL TECHNOLOGY

EDU-271 Educational Technology 3 (2-2) AND

Prerequisites:

Corequisites:

This course introduces the appropriate and ethical use of technology that is inclusive of digital and analog materials/tools to enhance teaching and learning in all educational settings. Emphasis is placed on the developmentally appropriate use of technology with children, ethical issues, digital citizenship, instructional strategies, assistive technology, and the use of technology for professional development and communication with families. Upon completion, student should be able to demonstrate professional and ethical implementation of various modes of technology in culturally responsive and equitable ways to support diverse children, families and communities.(2022 FA)

EDUCATOR PREPARATION PRACTICUM

EDU-283 Educator Preparation Practicum 3 (2-3) Spring

Prerequisites:

Corequisites:

This course is designed to allow learners to demonstrate acquired skills and competencies in a developmentally appropriate learning environment. Topics include dispositions of effective teachers, portfolio assessment development, reflective practice, teaching methods, assessment strategies, and professional practices based on state and national Teaching Standards. Upon completion, learners should be able to provide a portfolio assessment with evidence of ethical/professional standards, respect for a diverse population in learning environments, content knowledge, appropriate guidance intervention, and grade-level technology enhanced lesson planning/assessments through practices in the classroom environment.(2022 FA)

EFFECTIVE INSTRUCTIONAL ENVIRO

EDU-270 Effective Instructional Enviro 2 (2-0) Spring

Prerequisites:

Corequisites:

This course is designed to provide learners with the knowledge and skills to create, manage, and assess effective instructional environments, learning attitudes, and behaviors for today's diverse learning population. Topics include organizing the learning environment, fostering positive learning attitudes, supporting healthy stakeholder partnerships, engaging students using effective differentiated instruction, guiding, and managing student behaviors, and assessing student progress. Upon completion of this course, learners will demonstrate effective dispositions of the professional educator that include managing schedules, spaces, and resources, promoting supportive learning mindsets, engaging students with diverse instructional strategies, guiding student behaviors to maximize both the instructional and social climate, and analyzing and effectively responding to student progress.(2022 FA)

EFFECTIVE TEACH TRAIN

EDU-275 Effective Teach Train 2 (2-0) Summer

Prerequisites:

Corequisites:

This course provides specialized training using an experienced-based approach to learning. Topics include instructional preparation and presentation, student interaction, time management, learning expectations, evaluation, and curriculum principles and planning. Upon completion, students should be able to prepare and present a six-step lesson plan and demonstrate ways to improve students' time-on-task. (2020 FA)

ELEMENTARY FRENCH II

FRE-112	Elementary French II	3 (3-0)	Summer Spring Fall
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Prerequisites: FRE-111^S

Corequisites:

This course is a continuation of FRE 111 focusing on the fundamental elements of the French language within a cultural context. Emphasis is placed on the progressive development of listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written French and demonstrate further cultural awareness. (1997 SU) This course has been approved to satisfy the following requirement(s): | Humanities/Fine Arts Gen. Ed. course for A.A., A.A. Teacher Preparation, and A.S.

ELEMENTARY SPANISH I

SPA-111	Elementary Spanish I	3 (3-0)	Summer Spring Fall
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Prerequisites:

Corequisites:

This course introduces the fundamental elements of the Spanish language within a cultural context. Emphasis is placed on the development of basic listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written Spanish and demonstrate cultural awareness. (1997 SU) This course has been approved to satisfy the following requirement(s): | Humanities/Fine Arts Gen. Ed. course for A.A., A.A. Teacher Preparation and A.S.

ELEMENTARY SPANISH II

SPA-112	Elementary Spanish II	3 (3-0)	Summer Spring Fall
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Prerequisites: SPA-111^S

Corequisites:

This course is a continuation of SPA 111 focusing on the fundamental elements of the Spanish language within a cultural context. Emphasis is placed on the progressive development of listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written Spanish and demonstrate further cultural awareness. (1997 SU) This course has been approved to satisfy the following requirement(s): | Humanities/Fine Arts Gen. Ed. course for A.A., A.A. Teacher Preparation and A.S.

EMERGENCY MANAGEMENT

EPT-140 Emergency Management 3 (3-0) Fall

Prerequisites:

Corequisites:

This course covers the four phases of emergency management mitigation, preparedness, response, and recovery. Topics include organizing for emergency management, coordinating for community resources, public sector liability, and the roles of government agencies at all levels. Upon completion, students should be able to demonstrate an understanding of comprehensive emergency management and the integrated emergency management system. (2014 FA)

EMERGENCY VEHICLES & EMS COMM

EMS-150 Emergency Vehicles & EMS Comm 2 (1-3) AND

Prerequisites:

Corequisites:

This course covers the principles governing emergency vehicles, maintenance of emergency vehicles, and EMS communication equipment. Topics include applicable motor vehicle laws affecting emergency vehicle operation, defensive driving, collision avoidance techniques, communication systems, and information management systems. Upon completion, students should have a basic knowledge of emergency vehicles, maintenance, and communication needs. (2014 SP)

EMERGING TECHNOLOGIES

**OST-284 Emerging Technologies 2 (1-2) Spring
Fall**

Prerequisites:

Corequisites:

This course provides opportunities to explore emerging technologies. Emphasis is placed on identifying, researching, and presenting current technological topics for class consideration and discussion. Upon completion, students should be able to understand the importance of keeping abreast of technological changes that affect the office professional. (1999 FA)

ENG AND DESIGN GRAPHICS

EGR-120 Eng and Design Graphics 3 (2-2) Spring

Prerequisites:

Corequisites:

This course introduces the graphical tools for engineering and design communications. Emphasis is placed upon selecting the appropriate methods and tools and conveying ideas using sketches, orthographic views and projections, and computer graphics applications. Upon completion, students should be able to communicate essential features or two-dimensional and three-dimensional objects using the proper tools and methods. (2013 FA) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

ENGINE PERFORMANCE 1

AUT-181 **Engine Performance 1** **3 (2-3)** **Fall**

Prerequisites: TRN-120^L

Corequisites:

This course covers the introduction, theory of operation, and basic diagnostic procedures required to restore engine performance to vehicles equipped with complex engine control systems. Topics include an overview of engine operation, ignition components and systems, fuel delivery, injection components and systems and emission control devices. Upon completion, students should be able to describe operation and diagnose/repair basic ignition, fuel and emission related driveability problems using appropriate test equipment/service information. (2007 FA)

ENGINE PERFORMANCE 2

AUT-183 **Engine Performance 2** **4 (2-6)** **Fall**

Prerequisites: AUT-181^S

Corequisites:

This course covers study of the electronic engine control systems, the diagnostic process used to locate engine performance concerns, and procedures used to restore normal operation. Topics will include currently used fuels and fuel systems, exhaust gas analysis, emission control components and systems, OBD II (on-board diagnostics) and inter-related electrical/electronic systems. Upon completion, students should be able to diagnose and repair complex engine performance concerns using appropriate test equipment and service information. (2007 FA)

ENGINE REPAIR

AUT-116 **Engine Repair** **3 (2-3)** **Fall**

Prerequisites: AUT-116A^L

Corequisites:

This course covers the theory, construction, inspection, diagnosis, and repair of internal combustion engines and related systems. Topics include fundamental operating principles of engines and diagnosis, inspection, adjustment, and repair of automotive engines using appropriate service information. Upon completion, students should be able to perform basic diagnosis, measurement and repair of automotive engines using appropriate tools, equipment, procedures, and service information. (2007 FA)

ENGINE REPAIR LAB

AUT-116A **Engine Repair Lab** **1 (0-3)** **Fall**

Prerequisites: AUT-116^S

Corequisites:

This course is an optional lab to be used as an alternative to co-op placement in meeting the NATEF standards for total hours. Topics include diagnosis, inspection, adjustment, and repair of automotive engines using appropriate service information. Upon completion, students should be able to perform basic diagnosis, measurement and repair of automotive engines using appropriate tools, equipment, procedures, and service information. (2007 FA)

ENGINEERING GRAPHICS

DFT-170 Engineering Graphics 3 (2-2) AND

Prerequisites:

Corequisites:

This course introduces basic engineering graphics skills and applications. Topics include sketching, selection and use of current methods and tools, and the use of engineering graphics applications. Upon completion, students should be able to demonstrate an understanding of basic engineering graphics principles and practices. (2005 SP) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S. | Other Gen. Ed. and Premajor Elective Hours course for A.E.

ENGINEERING STATICS

EGR-220 Engineering Statics 3 (3-0) AND

Prerequisites: PHY-251^S

Corequisites: MAT-272^S

This course introduces the concepts of engineering based on forces in equilibrium. Topics include concentrated forces, distributed forces, forces due to friction, and inertia as they apply to machines, structures, and systems. Upon completion, students should be able to solve problems which require the ability to analyze systems of forces in static equilibrium. (1997 FA) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S. | Other Gen. Ed. and Premajor Elective course for A.E.

ENGINES & SYSTEMS

AER-216 Engines & Systems 3 (2-2) Fall

Prerequisites:

Corequisites:

This course introduces piston and turbine aircraft engines and associated systems. Topics include aircraft hydraulic, pneumatic, electrical, air conditioning, and pressurization systems along with the theory of engine operations, including power and thrust computations. Upon completion, students should be able to apply principles of engine and systems operation. (1997 SU)

ENSEMBLE I

**MUS-141 Ensemble I 1 (0-2) Spring
Fall**

Prerequisites:

Corequisites:

This course provides an opportunity to perform in any combination of instrumental, vocal, or keyboard groups of two or more. Emphasis is placed on the development of performance skills and the study of a variety of styles and periods of ensemble literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

ENSEMBLE II

MUS-142 **Ensemble II** **1 (0-2)** **Spring**
Prerequisites: MUS-141^S

Corequisites:

This course is a continuation of MUS 141. Emphasis is placed on the development of performance skills and the study of a variety of styles and periods of ensemble literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

ENSEMBLE III

MUS-241 **Ensemble III** **1 (0-2)** **Spring
Fall**

Prerequisites: MUS-142^S

Corequisites:

This course is a continuation of MUS 142. Emphasis is placed on the development of performance skills and the study of a variety of styles and periods of ensemble literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

ENSEMBLE IV

MUS-242 **Ensemble IV** **1 (0-2)** **Spring
Fall**

Prerequisites: MUS-241^S

Corequisites:

This course is a continuation of MUS 241. Emphasis is placed on the development of performance skills and the study of styles of ensemble literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

ENTERPRISE NETWORKING

NET-225 **Enterprise Networking** **3 (2-3)** **Fall**

Prerequisites:

Corequisites:

This course is designed to cover the architecture, components, operations, and security to scale for large, complex networks, including wide area network (WAN) technologies. Emphasis is placed on configuring, troubleshooting, and securing enterprise network devices and understanding how application programming interfaces (API) and configuration management tools enable network automation. Upon completion, students should be able to configure link state routing protocols, implement ACLs to filter traffic and secure administrative access, configure NAT services on the router to provide address scalability, explain techniques to provide address scalability and secure remote access for WAN, and explain how automation affects evolving networks.(2025 FA)

ENTREPRENEURSHIP I

BUS-139 **Entrepreneurship I** **3 (3-0)** **Fall**

Prerequisites: ENG-025^L

Corequisites:

This course provides an introduction to the principles of entrepreneurship. Topics include self-analysis of entrepreneurship readiness, the role of entrepreneur in economic development, legal problems, organizational structure, sources of financing, budgeting, and cash flow. Upon completion, students should have an understanding of the entrepreneurial process and issues faced by entrepreneurs. (2008 FA)

ENVIRONMENTAL BIOLOGY

BIO-140 **Environmental Biology** **3 (3-0)** **Spring
Fall**

Prerequisites: ENG-025^L

Corequisites: BIO-140A^L

This course introduces environmental processes and the influence of human activities upon them. Topics include ecological concepts, population growth, natural resources, and a focus on current environmental problems from scientific, social, political, and economic perspectives. Upon completion, students should be able to demonstrate an understanding of environmental interrelationships and of contemporary environmental issues. (1997 SU) This course has been approved to satisfy the following requirement(s): | Natural Science Gen. Ed. course for A.A., A.A. Teacher Preparation, A.S., and A.S. Teacher Preparation | Natural Science Gen. Ed. course for A.A.S. and A.G.E.

ENVIRONMENTAL BIOLOGY LAB

BIO-140A **Environmental Biology Lab** **1 (0-3)** **Spring
Fall**

Prerequisites: ENG-025^L

Corequisites: BIO-140^S

This course provides a laboratory component to complement BIO 140. Emphasis is placed on laboratory and field experience. Upon completion, students should be able to demonstrate a practical understanding of environmental interrelationships and of contemporary environmental issues. (1997 SU) This course has been approved to satisfy the following requirement(s): | Natural Science Gen. Ed. course for A.A., A.A. Teacher Preparation, A.S., and A.S. Teacher Preparation | Natural Science Gen. Ed. course for A.A.S. and A.G.E.

ENVIRONMENTAL LAW

ENV-226 **Environmental Law** **3 (3-0)** **Spring**

Prerequisites:

Corequisites:

This course covers federal laws and acts concerning environmental quality standards and the use of resources, legal procedures for enforcing laws, and problems concerning enforcement. Emphasis is placed on environmental law basics, water quality laws, air quality laws, waste disposal laws, and biological resource protection laws. Upon completion, students should be able to demonstrate an understanding of federal/state environmental laws and their importance to the protection of environmental quality. (2013 FA)

ENVIRONMENTAL SYSTEMS

ARC-230 **Environmental Systems** **4 (3-3)** **Spring**

Prerequisites:

Corequisites:

This course introduces plumbing, mechanical (HVAC), and electrical systems for the architectural environment. Topics include basic plumbing, mechanical, and electrical systems for residential and/or commercial buildings with an introduction to selected code requirements. Upon completion, students should be able to develop schematic drawings for plumbing, mechanical, and electrical systems and perform related calculations. (2025 SP)

ETHICAL HACKING WITH PYTHON I

CSC-211 **Ethical Hacking With Python I** **3 (2-3)** **Fall**

Prerequisites:

Corequisites:

This course introduces students to investigative ethical hacking techniques using the Python programming language. Emphasis is placed on using Python in gaining system access, cryptography, reconnaissance, enumeration, and buffer overflows. Upon completion, students should be able to understand system vulnerabilities and applications of the Python computer programming language to ethical hacking. (2018 SU)

ETHICS & COMM RELATIONS

CJC-212 **Ethics & Comm Relations** **3 (3-0)** **Summer**

Prerequisites:

Corequisites:

This course covers ethical considerations and accepted standards applicable to criminal justice organizations and professionals. Topics include ethical systems; social change, values, and norms; cultural diversity; citizen involvement in criminal justice issues; and other related topics. Upon completion, students should be able to apply ethical considerations to the decision-making process in identifiable criminal justice situations. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

ETHICS OF MASSAGE

MTH-125 **Ethics of Massage** **2 (2-0)** **Summer**

Prerequisites: MTH-110^L

Corequisites: MTH-130^L

This course is designed to explore issues related to the practice of massage therapy. Emphasis is placed on ethical, legal, professional, and political issues. Upon completion of this course the student should be able to discuss issues relating to the practice of massage therapy, client/therapist relationships as well as ethical issues. (2005 FA)

EUROPEAN CAKES AND TORTES

BPA-130 **European Cakes and Tortes** **3 (1-4)** **Summer**

Prerequisites: CUL-110^S CUL-160^S

Corequisites:

This course introduces the production of a wide variety of classical and modern cakes suitable for restaurants, retail shops and large-scale production. Emphasis is placed on classic cakes using the methods of mixing, filling, glazing and icing. Upon completion, students should be able to prepare, assemble, and decorate gelatin-based and layered tortes and cakes such as Bavarian, Dobos, and Sacher. (2011 FA)

EXERCISE PROGRAMMING

HFS-212 **Exercise Programming** **3 (2-2)** **Fall**

Prerequisites: HFS-110^S

Corequisites:

This course provides information about organizing, scheduling, and implementation of physical fitness programs. Topics include programming for various age groups, competitive activities and special events, and evaluating programs. Upon completion, students should be able to organize and implement exercise activities in a competent manner. (2017 FA)

FAMILY HEALTH CONCEPTS

NUR-113 **Family Health Concepts** **5 (3-0-6) Fall**

Prerequisites: NUR-111^S; NUR-112^L, NUR-211^L, NUR-114^L, BIO-168^L, BIO-169^L, PSY-150^L, PSY-241^L, ENG-111^L; Minimum grade C; ENG-112^L or ENG-114^L; Minimum grade C;

Corequisites: BIO-275^L, SOC-210^L

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of oxygenation, sexuality, reproduction, grief/loss, mood/affect, behaviors, development, family, health-wellness-illness, communication, caring interventions, managing care, safety, and advocacy. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course. (2009 FA)

FEDERAL INCOME TAXES

ACC-131 **Federal Income Taxes** **3 (2-2) Fall**

Prerequisites: ENG-025^L; MAT-025^L

Corequisites:

This course provides an overview of federal income taxes for individuals, partnerships, and corporations. Topics include tax law, electronic research and methodologies and the use technology for the preparation of individual and business tax returns. Upon completion, students should be able to analyze basic tax scenarios, research applicable tax laws, and complete federal tax returns for individuals, partnerships, and corporations. (2003 FA)

FIGURE DRAWING I

ART-135 **Figure Drawing I** **3 (0-6) AND**

Prerequisites: ART-131^S

Corequisites:

This course introduces rendering the human figure with various drawing materials. Emphasis is placed on the use of the visual elements, anatomy, and proportion in the representation of the draped and undraped figure. Upon completion, students should be able to demonstrate competence in drawing the human figure. (1999 FA) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

FIRE FIGHTING STRATEGIES

FIP-220 **Fire Fighting Strategies** **3 (3-0) Spring**

Prerequisites:

Corequisites:

This course provides preparation for command of initial incident operations involving emergencies within both the public and private sector referenced in NFPA standards 1561, 1710, and 1720. Topics include incident management, fire-ground tactics and strategies, incident safety, and command/control of emergency operations. Upon completion, students should be able to describe the initial incident system as it relates to operations involving various emergencies in fire and non-fire situations. (2014 FA)

FIRST AID & CPR

HEA-112	First Aid & CPR	2 (1-2)	Summer Spring Fall
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Prerequisites:**Corequisites:**

This course introduces the basics of emergency first aid treatment. Topics include rescue breathing, CPR, first aid for choking and bleeding, and other first aid procedures. Upon completion, students should be able to demonstrate skills in providing emergency care for the sick and injured until medical help can be obtained. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

FIT AND WELL FOR LIFE

PED-110	Fit and Well for Life	2 (1-2)	Summer Spring Fall
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Prerequisites:**Corequisites:**

This course is designed to investigate and apply the basic concepts and principles of lifetime physical fitness and other health-related factors. Emphasis is placed on wellness through the study of nutrition, weight control, stress management, and consumer facts on exercise and fitness. Upon completion, students should be able to plan a personal, lifelong fitness program based on individual needs, abilities, and interests. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S. | Other Gen. Ed. and Premajor Elective course for A.E.

FITNESS & EXER TESTING I

HFS-111	Fitness & Exer Testing I	4 (3-2)	Spring Fall
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Prerequisites: ENG-025^L; MAT-025^L

Corequisites:

This course introduces the student to graded exercise testing. Topics include various exercise testing protocols with methods for prescribing exercise programs based on exercise tolerance tests and the use of various equipment and protocols. Upon completion, students should be able to conduct specific exercise tests and the use of various equipment. (2017 FA)

FITNESS FACILITY MGMT

HFS-118 Fitness Facility Mgmt 4 (4-0) Spring

Prerequisites:

Corequisites:

This course provides information about the management and operation of health and fitness facilities and programs. Topics include human resources, sales and marketing, member retention, financial management, facility design and maintenance, and risk management. Upon completion, students should be able to demonstrate the knowledge and skills necessary to effectively manage a fitness facility. (2017 FA)

FLIGHT DYNAMICS

AER-210 Flight Dynamics 3 (3-0) Spring

Prerequisites:

Corequisites:

This course covers basic and advanced principles of aerodynamic phenomena and fluid flow. Topics include airflow phenomena; lift/weight/thrust/drag; aircraft configuration characteristics, stability, and control; subsonic, transonic, and supersonic flight; critical Mach numbers; and the V-g Diagram. Upon completion, students should be able to explain the elements of applied aerodynamics and aeronautical engineering which relate directly to the problems of flight operations. (1997 SU)

FLIGHT SAFETY

AER-215 Flight Safety 3 (3-0) Spring

Prerequisites:

Corequisites:

This course covers the basic procedures and practices of aircraft accident prevention, accident investigation, and reporting. Topics include a comprehensive review of federal regulations pertinent to aviation safety and analyses of actual aviation accident cases and their causes. Upon completion, students should be able to demonstrate an understanding and respect for specific personal factors such as attitude, motivation, and skill related to flight safety. (1997 SU)

FLIGHT-CFI

AER-281 Flight-CFI 1 (0-3) AND

Prerequisites: AER-171^S

Corequisites:

This course provides experience in preparation for the flight instructor practical test. Emphasis is placed on the ability to transition to right seat flight while teaching performance maneuvers including operation of a complex aircraft. Upon completion, students should be able to demonstrate competence in right seat operation and CFI maneuvers as specified in the FAA Practical Test Standards. (1997 SU) Instructional flight hours are accomplished through partnerships with the local flight schools.

FLIGHT-COMMERCIAL PILOT

AER-171 **Flight-Commercial Pilot** **3 (0-6)** **Spring**
Prerequisites: AER-151^S

Corequisites:

This course provides the hands-on training needed to qualify for a Federal Aviation Administration commercial pilot certificate. Topics include flight instruction in advanced precision maneuvers, maximum performance take-off and landings, emergency procedures, operation of complex aircraft, aircraft performance, and range and fuel planning. Upon completion, students should be able to demonstrate competence in the areas of the flight test practical exam for the commercial pilot certificate. (2017 FA) Instructional flight hours are accomplished through partnerships with the local flight schools.

FLIGHT-INSTRUMENT PILOT

AER-161 **Flight-Instrument Pilot** **2 (0-6)** **Spring
Fall**

Prerequisites: AER-151^S

Corequisites:

This course covers instruction and training in instrument flight planning including IFR navigation, VOR, ILS, ADF, and compliance with ATC procedures. Emphasis is placed on approach and navigation procedures, including holding and missed approaches, and development of skill in executing en route and approach procedures. Upon completion, students should be able to plan and execute an IFR flight and demonstrate competencies required for the FAA instrument pilot flight exam. (1997 SU) Instructional flight hours are accomplished through partnerships with the local flight schools.

FLIGHT-MULTI-ENGINE

AER-285 **Flight-Multi-Engine** **1 (0-3)** **AND**
Prerequisites: AER-171^S

Corequisites:

This course provides the flight training required to obtain a multi-engine rating. Topics include multi-engine safety procedures, single-engine operations and performance, V_{mc}, instrument approaches (single- and multi-engine), and emergency procedures. Upon completion, students should be able to demonstrate the competencies required for the flight test practical examination for a multi-engine rating. (1997 SU) Instructional flight hours are accomplished through partnerships with the local flight schools.

FLIGHT-PRIVATE PILOT

AER-151 Flight-Private Pilot 1 (0-3) AND

Prerequisites:

Corequisites:

This course provides the hands-on training needed to qualify for a Federal Aviation Administration private pilot certificate. Topics include flight maneuvers (ground procedures, take-offs, climbs, level flight, turns, glides, stalls, slow flight, descents, slips, landings, emergency procedures) and cross-country planning and navigation. Upon completion, students should be able to demonstrate the competencies required for the flight test practical exam for the private pilot certificate. (1997 SU) Instructional flight hours are accomplished through partnerships with the local flight schools.

FOOD & BEVERAGE SERV LAB

**CUL-135A Food & Beverage Serv Lab 1 (0-2) Spring
Fall**

Prerequisites:

Corequisites: CUL-135^S

This course provides a laboratory experience for enhancing student skills in effective food and beverage service. Emphasis is placed on practical experiences including greeting/service of guests, dining room set-up, profitability, menu sales and merchandising, service styles and reservations. Upon completion, students should be able to demonstrate practical applications of human relations and the skills required in the service of foods and beverages. (2011 FA)

FOOD & BEVERAGE SERVICE

**CUL-135 Food & Beverage Service 2 (2-0) Spring
Fall**

Prerequisites:

Corequisites: CUL-135A^L

This course is designed to cover the practical skills and knowledge necessary for effective food and beverage service in a variety of settings. Topics include greeting/service of guests, dining room set-up, profitability, menu sales and merchandising, service styles and reservations. Upon completion, students should be able to demonstrate competence in human relations and the skills required in the service of foods and beverages. (2011 FA)

FOOD TRUCK OPERATIONS

HRM-170 Food Truck Operations 3 (3-0) Spring

Prerequisites:

Corequisites: CUL-110^S

This course introduces students to mobile food truck management and provide the fundamentals of establishing and operating a food truck. Emphasis is placed on marketing, budget management, menu development, interior food truck design, and business plan implementation. Upon completion, students should be able to formulate a food truck concept, understand local, state, and federal requirements, create menu content and a marketing strategy, and develop a viable business plan. (2026 FA)

FOOD TRUCK PROD & SERVICE

CUL-175 **Food Truck Prod & Service** **3 (1-4)** **Spring**

Prerequisites: CUL-110^S

Corequisites:

This course covers the fundamentals of food production, set up, maintenance, and operation of a food truck. Emphasis is placed on prepping, storing and serving food in a timely manner in a food truck setting. Topics will include health regulations, compliance, equipment limitations, and maintenance of food truck operating systems. Upon completion, students should be able to set up, operate and properly execute food truck menus to industry standards.(2026 FA)

FOOTWEAR AND TIRE IMPRINT

CJC-244 **Footwear and Tire Imprint** **3 (2-3)** **Spring**

Prerequisites:

Corequisites:

This course provides a study of the fundamental concepts of footwear and tire imprint evidence as related to forensic science. Topics include proper photographic recording, casting, recognition of wear patterns and imprint identification. Upon completion, the student should be able to recognize, record, photograph, and identify footwear and tire imprints. (2000 SP)

FORENSIC PSYCHOLOGY

PSY-231 **Forensic Psychology** **3 (3-0)** **Summer
Spring**

Prerequisites: PSY-150^S

Corequisites:

This course introduces students to concepts which unite psychology and the legal system. Topics include defining competency, insanity, involuntary commitment, as well as introducing forensic assessment techniques, such as interviewing process, specialized assessments, and collecting collateral information. Upon completion, students should be able to demonstrate knowledge in areas of forensic psychology risk assessment, criminal competencies, insanity, psychopathology, and mentally disordered offenders. (2004 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

FOUNDATIONS OF EDUCATION

EDU-216 Foundations of Education 3 (3-0) Fall

Prerequisites:

Corequisites:

This course introduces the examination of the American educational systems and the teaching profession. Topics include the historical and philosophical influences on education, various perspectives on educational issues, and experiences in birth through grade 12 classrooms. Upon completion, students should be able to reflect on classroom observations, analyze the different educational approaches, including classical/traditional and progressive, and have knowledge of the various roles of educational systems at the federal, state and local level. (2020 FA)

This course has been approved to satisfy the following requirement(s): | Other Required Hours for A.A. Teacher Preparation and A.S. Teacher Preparation | Premajor and/or Elective course for A.A. and A.S.

FRICITION RIDGE ANALYSIS

CJC-245 Friction Ridge Analysis 3 (2-3) Summer

Prerequisites:

Corequisites:

This course introduces the basic elements of fingerprint technology and techniques applicable to the criminal justice field. Topics include the history and meaning of fingerprints, pattern types and classification filing sequence, searching and referencing. Upon completion, the students should be able to discuss and demonstrate the fundamental techniques of basic fingerprint technology. (2000 SP)

FRUIT & VEGETABLE PROD

HOR-142 Fruit & Vegetable Prod 2 (1-2) Summer

Prerequisites:

Corequisites:

This course introduces the principles and techniques of growing fruits and field-grown vegetables. Topics include site selection, proper varietal selection, nutritional values, cultural techniques, harvesting and marketing, and insect and disease control. Upon completion, students should be able to demonstrate an understanding of the principles related to the production of selected fruits and vegetables. (1997 SU)

FUNDAMENTALS OF MASSAGE

MTH-110 Fundamentals of Massage 10 (6-9-3) Fall

Prerequisites:

Corequisites: BIO-163^L or BIO-168^L

This course introduces concepts basic to the role of the massage therapist in a variety of clinical settings. Emphasis is placed on beginning theory and techniques of body work as well as skill in therapeutic touch. Upon completion of the course, the student should be able to apply basic practical massage therapy skills. (2008 SP)

FUNDAMENTALS OF MUSIC

MUS-111 **Fundamentals of Music** **3 (3-0)** **AND**

Prerequisites:

Corequisites:

This course is an introductory course for students with little or no music background. Emphasis is placed on music notation, rhythmic patterns, scales, key signatures, intervals, and chords. Upon completion, students should be able to demonstrate an understanding of the rudiments of music. (1999 FA) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective Course for A.A. and A.S. | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

GARDE MANGER I

CUL-170 **Garde Manger I** **3 (1-4)** **Summer
Spring**

Prerequisites:

Corequisites: CUL-110^S

This course introduces basic cold food preparation techniques and pantry production. Topics include salads, sandwiches, appetizers, dressings, basic garnishes, cheeses, cold sauces, and related food items. Upon completion, students should be able to present a cold food display and exhibit an understanding of the cold kitchen and its related terminology. (2011 FA)

GEN, ORG, & BIOCHEM LAB

CHM-130A **Gen, Org, & Biochem Lab** **1 (0-2)** **Fall**

Prerequisites:

Corequisites: CHM-130^S

This course is a laboratory for CHM 130. Emphasis is placed on laboratory experiences that enhance materials presented in CHM 130. Upon completion, students should be able to utilize basic laboratory procedures and apply them to chemical principles presented in CHM 130. (1997 SU)

GEN, ORG, & BIOCHEMISTRY

CHM-130 **Gen, Org, & Biochemistry** **3 (3-0)** **Fall**

Prerequisites:

Corequisites: CHM-130A^L

This course provides a survey of basic facts and principles of general, organic, and biochemistry. Topics include measurement, molecular structure, nuclear chemistry, solutions, acid-base chemistry, gas laws, and the structure, properties, and reactions of major organic and biological groups. Upon completion, students should be able to demonstrate an understanding of fundamental chemical concepts. (1997 SU)

GENERAL CHEMISTRY I

CHM-151 **General Chemistry I** **4 (3-3)** **Summer
Spring
Fall**

Prerequisites: MAT-025^L or MAT-035^L

Corequisites:

This course covers fundamental principles and laws of chemistry. Topics include measurement, atomic and molecular structure, periodicity, chemical reactions, chemical bonding, stoichiometry, thermochemistry, gas laws, and solutions. Upon completion, students should be able to demonstrate an understanding of fundamental chemical laws and concepts as needed in CHM 152. (1997 SU)

GENERAL CHEMISTRY II

CHM-152 **General Chemistry II** **4 (3-3)** **Summer
Spring
Fall**

Prerequisites: CHM-151^S; Minimum grade CL;

Corequisites:

This course provides a continuation of the study of the fundamental principles and laws of chemistry. Topics include kinetics, equilibrium, ionic and redox equations, acid-base theory, electrochemistry, thermodynamics, introduction to nuclear and organic chemistry, and complex ions. Upon completion, students should be able to demonstrate an understanding of chemical concepts as needed to pursue further study in chemistry and related professional fields. (1997 SU)

GENERAL MICROBIOLOGY

BIO-175 **General Microbiology** **3 (2-2)** **Spring**

Prerequisites: BIO-110^S, BIO-111^S, BIO-163 or BIO-168^S; Minimum grade CL

Corequisites:

This course covers principles of microbiology with emphasis on microorganisms and human disease. Topics include an overview of microbiology and aspects of medical microbiology, identification and control of pathogens, disease transmission, host resistance, and immunity. Upon completion, students should be able to demonstrate knowledge of microorganisms and the disease process as well as aseptic and sterile techniques. (2004 FA) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S. | Natural Science Gen. Ed. course for A.G.E.

GENERAL PHYSICS I

PHY-251 **General Physics I** **4 (3-3)** **Fall**
Prerequisites: MAT-271^S

Corequisites:

This course uses calculus-based mathematical models to introduce the fundamental concepts that describe the physical world. Topics include units and measurement, vector operations, linear kinematics and dynamics, energy, power, momentum, rotational mechanics, periodic motion, fluid mechanics, and heat. Upon completion, students should be able to demonstrate an understanding of the principles involved and display analytical problem-solving ability for the topics covered. (2025 FA) This course has been approved to satisfy the following requirement(s): | UGETC course for A.E., A.S. and A.S. Teacher Preparation | Natural Science Gen. Ed. course for A.A. and A.A. Teacher Preparation

GENERAL PHYSICS II

PHY-252 **General Physics II** **4 (3-3)** **Spring**
Prerequisites: MAT-272^S, PHY-251^S

Corequisites:

This course uses calculus-based mathematical models to introduce the fundamental concepts that describe the physical world. Topics include electrostatic forces, electric fields, electric potentials, direct-current circuits, magnetostatic forces, magnetic fields, electromagnetic induction, alternating-current circuits, and light. Upon completion, students should be able to demonstrate an understanding of the principles involved and display analytical problem-solving ability for the topics covered. (1997 SU) This course has been approved to satisfy the following requirement(s): | UGETC course for A.E., A.S. and A.S. Teacher Preparation | Natural Science Gen. Ed. course for A.A. and A.A. Teacher Preparation

GENERAL PSYCHOLOGY

PSY-150 **General Psychology** **3 (3-0)** **Summer
Spring
Fall**

Prerequisites: ENG-025^L

Corequisites:

This course provides an overview of the scientific study of human behavior. Topics include history, methodology, biopsychology, sensation, perception, learning, motivation, cognition, abnormal behavior, personality theory, social psychology, and other relevant topics. Upon completion, students should be able to demonstrate a basic knowledge of the science of psychology. (1997 SU) This course has been approved to satisfy the following requirement(s): | UGETC course for A.A., A.A. Teacher Preparation, A.E., A.F.A., A.S. and A.S. Teacher Preparation | Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E

HEALTH SYSTEM CONCEPTS

NUR-212 Health System Concepts 5 (3-0-6) Fall

Prerequisites: NUR-111^S; NUR-112^L, NUR-113^L, NUR-114^L, NUR 211L, NUR-212^L, ACA-122^L, BIO-168^L, BIO-169^L, PSY-150^L, PSY-241^L, ENG-111^L, BIO-275, SOC-210^L; ENG-112^L or ENG-114^L; all Minimum grade C

Corequisites: BIO-275^L, SOC-210^L

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of grief/loss, violence, health-wellness-illness, collaboration, managing care, safety, advocacy, legal issues, policy, healthcare systems, ethics, accountability, and evidence-based practice. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course (2009 FA)

HEALTH AND FITNESS LAW

HFS-214 Health and Fitness Law 3 (3-0) Spring

Prerequisites:

Corequisites:

This course is designed to build a greater awareness and understanding of laws and legal issues encountered in the health and fitness industry. Topics include federal/state regulations, historical/current practices, risk management, torts, employment, discrimination, contracts, waivers, health/fitness screening, client confidentiality, facility safety, equipment liability, and emergency procedures. Upon completion, students should be able to demonstrate an understanding of the legal system to prevent or minimize liability in a fitness setting. (2017 FA)

HEALTH, SAFETY AND NUTRITION

EDU-153 Health, Safety and Nutrition 3 (3-0) Spring

Prerequisites:

Corequisites:

This course covers promoting and maintaining the health and well-being of every child. Topics include health and nutritional guidelines, common childhood illnesses, maintaining safe and healthy learning environments, health benefits of active play, recognition and reporting of abuse/neglect, and state regulations. Upon completion, students should be able to apply knowledge of NC Foundations for Early Learning and Development for health, safety, nutritional needs and safe learning environments. (2020 FA)

HEALTH-ILLNESS CONCEPTS

NUR-112 Health-Illness Concepts 5 (3-0-6) Spring

Prerequisites: NUR-111^S; BIO-168^L, ENG-111^L, PSY-150^L; Minimum grade C;

Corequisites: ACA-122^L BIO-169^L; ENG-112^L or ENG-114^L

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of acid-base, metabolism, cellular regulation, oxygenation, infection, stress/coping, health-wellness-illness, communication, caring interventions, managing care, safety, quality improvement, and informatics. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course. (2009 FA)

HEMATOLOGY/HEMOSTASIS I

MLT-120 Hematology/Hemostasis I 4 (3-3) Spring

Prerequisites: MLT-110^L

Corequisites:

This course introduces the theory and technology used in analyzing blood cells and the study of hemostasis. Topics include hematology, hemostasis, and related laboratory testing. Upon completion, students should be able to demonstrate theoretical comprehension of hematology/hemostasis, perform diagnostic techniques, and correlate laboratory findings with disorders. (1997 SU)

HEMATOLOGY/HEMOSTASIS II

MLT-220 Hematology/Hemostasis II 3 (2-3) Spring

Prerequisites: MLT-120^L

Corequisites:

This course covers the theories and techniques used in the advanced analysis of human blood cells and hemostasis. Emphasis is placed on the study of hematologic disorders, abnormal cell development and morphology, and related testing. Upon completion, students should be able to demonstrate a theoretical comprehension and application of abnormal hematology and normal and abnormal hemostasis. (1997 SU)

HISPANIC CIVILIZATION

HIS-151 Hispanic Civilization 3 (3-0) Fall

Prerequisites: ENG-025^L

Corequisites:

This course surveys the cultural history of Spain and its impact on the New World. Topics include Spanish and Latin American culture, literature, religion, and the arts. Upon completion, students should be able to analyze the cultural history of Spain and Latin America. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S. | Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

HISTORY OF AVIATION

AER-113 **History of Aviation** **2 (2-0)** **Spring
Fall**

Prerequisites:**Corequisites:**

This course provides a historical survey of the efforts of manned-flight. Topics include the development of aircraft, milestones in aviation, noted pioneers, and the socioeconomic impact of flight upon modern civilization. Upon completion, students should be able to demonstrate an understanding of the advancements that aviation has accrued for society and contemporary changes in aviation. (1997 SU)

HOLISTIC HEALTH CONCEPTS

NUR-114 **Holistic Health Concepts** **5 (3-0-6)** **Summer**

Prerequisites: NUR-111^S; NUR-112^L, NUR-211^L, BIO-168^L, BIO-169^L, PSY-150^L, ENG-111^L; Minimum grade C; ENG-112^L or ENG-114^L; Minimum grade C

Corequisites: PSY-241^L

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of cellular regulation, perfusion, inflammation, sensory perception, stress/coping, mood/affect, cognition, self, violence, health-wellness-illness, professional behaviors, caring interventions, and safety. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course. (2009 FA)

HOR BUS ENTREPRENEURSHIP

HOR-278 **Hor Bus Entrepreneurship** **3 (3-0)** **Fall**

Prerequisites:**Corequisites:**

This course introduces starting and/or managing a horticulture business operation. Emphasis is placed on types of business ownership, legal aspects of licenses, worker safety and facility criteria, and creating inventories, schedules, and financial statements. Upon completion, students should be able to prepare appropriate schedules and financial statements and demonstrate knowledge of legal standards for equipment and personnel. (1997 SU)

HORT PEST MANAGEMENT

HOR-164 **Hort Pest Management** **3 (2-2)** **Summer**

Prerequisites: HOR-160^L

Corequisites:

This course covers the identification and management of plant pests including insects, diseases, and weeds. Topics include pest identification and beneficial organisms, pesticide application safety and use of least toxic methods of management. Upon completion, students should be able to manage common landscape pests using least toxic methods of control and be prepared to sit for North Carolina Commercial Pesticide Ground Applicators license. (2013 FA)

HOT AND COLD DESSERTS

BPA-165 **Hot and Cold Desserts** **3 (1-4)** **Spring**

Prerequisites: CUL-110^S CUL-160^S

Corequisites:

This course covers the principles and techniques of frozen desserts, souffles, cobblers, crisps, and strudel dough products. Topics include bombes, parfais, baked Alaska, ice cream, sorbets, sherbets and granites; hand-stretched strudel products, crepes, and hot/cold souffles. Upon completion, student should be able to prepare and plate hot and cold desserts with suitable sauces and garnishes. (2011 FA)

HUMAN FACTORS IN AVIATION

AER-218 **Human Factors in Aviation** **2 (2-0)** **Fall**

Prerequisites:

Corequisites:

This course analyzes interpersonal relationships in the cockpit and related psychological factors that affect pilot performance and efficiency during flight operations. Topics include cockpit management, judgment, aircraft and flight crew coordination and control, physiological factors, responsibility, and decision-making capabilities. Upon completion, students should be able to apply work-proven routines to stress management, crew responsibility, and the team concept in the cockpit. (1997 SU)

HUMAN RESOURCE MANAGEMENT

BUS-153 **Human Resource Management** **3 (3-0)** **Spring
Fall**

Prerequisites: ENG-025^L

Corequisites:

This course introduces the functions of personnel/human resource management within an organization. Topics include equal opportunity and the legal environment, recruitment and selection, performance appraisal, employee development, compensation planning, and employee relations. Upon completion, students should be able to anticipate and resolve human resource concerns. (1997 SU)

HUMAN RESOURCE MGMT-HOSP

HRM-245 **Human Resource Mgmt-Hosp** **3 (3-0)** **Spring**

Prerequisites: ENG-025^L

Corequisites:

This course introduces a systematic approach to human resource management in the hospitality industry. Topics include training/development, staffing, selection, hiring, recruitment, evaluation, benefit administration, employee relations, labor regulations/laws, discipline, motivation, productivity, shift management, contract employees and organizational culture. Upon completion, students should be able to apply human resource management skills for the hospitality industry. (2011 FA)

HUMAN SEXUALITY

PSY-259 Human Sexuality 3 (3-0) AND
Prerequisites: PSY-150^S

Corequisites:

This course provides the biological, psychological, and sociocultural aspects of human sexuality and related research. Topics include reproductive biology, sexual and psychosexual development, sexual orientation, contraception, sexually transmitted diseases, sexual disorders, theories of sexuality, and related issues. Upon completion, students should be able to demonstrate an overall knowledge and understanding of human sexuality. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S. | Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

HUMAN VALUES AND MEANING

HUM-220 Human Values and Meaning 3 (3-0) AND
Prerequisites: ENG-111^S

Corequisites:

This course presents some major dimensions of human experience as reflected in art, music, literature, philosophy, and history. Topics include the search for identity, the quest for knowledge, the need for love, the individual and society, and the meaning of life. Upon completion, students should be able to recognize interdisciplinary connections and distinguish between open and closed questions and between narrative and scientific models of understanding. (1997 SU) This course has been approved to satisfy the following requirement(s): | Humanities/Fine Arts Gen. Ed. course for A.A., A.A. Teacher Preparation and A.S. | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

HUMANITIES I

HUM-211 Humanities I 3 (3-0) AND
Prerequisites: ENG-111^S

Corequisites:

This course introduces the humanities as a record in literature, music, art, history, religion, and philosophy of humankind's answers to the fundamental questions of existence. Emphasis is placed on the interconnectedness of various aspects of cultures from ancient through early modern times. Upon completion, students should be able to identify significant figures and cultural contributions of the periods studied. (1997 SU) This course has been approved to satisfy the following requirement(s): | Humanities/Fine Arts Gen. Ed. course for A.A., A.A. Teacher Preparation and A.S. | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

HUMANITIES II

HUM-212 **Humanities II** **3 (3-0)** **AND**
Prerequisites: ENG-111^S

Corequisites:

This course introduces the humanities as a record in literature, music, art, history, religion, and philosophy of humankind's answers to the fundamental questions of existence. Emphasis is placed on the interconnectedness of various aspects of cultures from early modern times to the present. Upon completion, students should be able to identify significant figures and cultural contributions of the periods studied. (1997 SU) This course has been approved to satisfy the following requirement(s): | Humanities/Fine Arts Gen. Ed. course for A.A., A.A. Teacher Preparation and A.S. | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

HYDRAULICS & WATER DIST

FIP-232 **Hydraulics & Water Dist** **3 (2-2)** **Fall**

Prerequisites:

Corequisites:

This course covers the flow of fluids through fire hoses, nozzles, appliances, pumps, standpipes, water mains, and other devices reference in NFPA standard 25. Emphasis is placed on supply and delivery systems, fire flow testing, hydraulic calculations, and other related topics. Upon completion, students should be able to perform hydraulic calculations, conduct water availability tests, and demonstrate knowledge of water distribution systems. (2014 FA)

HYDROLOGY & EROSION CONTROL

CEG-211 **Hydrology & Erosion Control** **3 (2-3)** **Fall**

Prerequisites:

Corequisites:

This course introduces basic engineering principles and characteristics of hydrology, erosion and sediment control. Topics include stormwater runoff, gravity pipe flow, open channel flow, low impact development (LID), erosion control devices and practices. Upon completion, students should be able to analyze and design gravitational drainage structures, identify LID and erosion control elements, and prepare a stormwater drainage plan. (2025 SP)

IT FOUNDATIONS

CTI-110 **IT Foundations** **3 (2-2)** **Spring**

Prerequisites:

Corequisites:

This course provides an introduction to technology concepts and current trends in IT. Topics include foundational concepts across various IT domains such as, but not limited to, artificial intelligence, database fundamentals, programming principles, and web development. Upon completion, students should be able to demonstrate knowledge in core IT areas and apply skills critical for their academic and professional success.(2025 FA)

IMAGE PRODUCTION I

RAD-121 **Image Production I** **3 (2-3)** **Spring**

Prerequisites: RAD-110^L, RAD-111^L, RAD-151^L

Corequisites: RAD-112^L, RAD-161^L

This course provides the basic principles of radiographic image production. Emphasis is placed on image production, x-ray equipment, receptor exposure, and basic imaging quality factors. Upon completion, students should be able to demonstrate an understanding of basic principles of radiographic image production. (2022 SU)

IMAGE PRODUCTION II

RAD-122 **Image Production II** **2 (1-3)** **Summer**

Prerequisites: RAD-112^L, RAD-121^L, RAD-161^L

Corequisites: RAD-141^L, RAD-171^L

This course is designed to continue to develop the concepts and principles in the field of radiologic technology. Emphasis is placed on advanced digital principles and production. Upon completion, students should be able to demonstrate an understanding of advanced principles of digital imaging production. (2022 SU)

IMAGE PRODUCTION III

RAD-231 **Image Production III** **2 (1-3)** **Fall**

Prerequisites: RAD-122^L, RAD-141^L, RAD-171^L

Corequisites: RAD-211^L, RAD-251^L

This course is designed to continue to develop the concepts and principles in the field of radiologic technology. Emphasis is placed on complex imaging production and principles, quality control and quality assurance in the imaging sciences. Upon completion, students should be able to demonstrate an understanding of advanced radiographic equipment and quality control programs. (2022 SU)

IMMUNOLOGY AND SEROLOGY

MLT-126 **Immunology and Serology** **2 (1-2)** **Fall**

Prerequisites: MLT-110^L

Corequisites:

This course introduces the immune system and response and basic concepts of antigens, antibodies, and their reactions. Emphasis is placed on basic principles of immunologic and serodiagnostic techniques and concepts of cellular and humoral immunity in health and disease. Upon completion, students should be able to demonstrate theoretical comprehension and application in performing and interpreting routine immunologic and serodiagnostic procedures. (1997 SU)

INSTRUMENT FLIGHT THEORY

AER-160	Instrument Flight Theory	3 (2-2)	Summer Spring Fall
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Prerequisites:**Corequisites:**

This course covers the required aeronautical knowledge of the Federal Aviation Administration Regulation Instrument Ground School. Topics include a study of instruments, systems, instrument flight charts, instrument flight planning, approach procedures, and the IFR regulations. Upon completion, students should be able to demonstrate the competencies required to complete the FAA written examination for an instrument rating. (1997 SU)

INTEGR CU INST: MATH/SCIENCE

EDU-277	Integr CU Inst: Math/Science	3 (2-3)	Fall
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Prerequisites:**Corequisites:**

This course is designed to provide learners with the content knowledge, instructional methods/materials, and assessment techniques needed to provide research-based math and science K - 12 instruction. Topics include essential math and science concepts and skills, developmentally appropriate pedagogy, culturally responsive instruction, standards-based outcomes, technology enhanced lesson planning, formative/summative assessments, research-based interventions, authentic learning experiences, and reflective practice. Upon completion, learners will be able to plan, implement, assess, and reflect on developmentally appropriate math and science instruction aligned to the NC Standard Course of Study, other professional and national standards.(2022 FA)

INTEGR CU INST: SOC STU/ELA

EDU-278	Integr CU Inst: Soc Stu/ELA	3 (2-3)	Fall
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Prerequisites:**Corequisites:**

This course is designed to provide learners with the content knowledge, instructional methods/materials, and assessment techniques needed to provide research-based social studies and ELA K -12 instruction. Topics include essential social studies and ELA concepts and skills, developmentally appropriate pedagogy, culturally responsive instruction, standards-based outcomes, technology enhanced lesson planning, formative/summative assessments, research-based interventions, authentic learning experiences, and reflective practice. Upon completion, learners will be able to plan, implement, assess, and reflect on developmentally appropriate social studies and ELA instruction aligned to the NC Standard Course of Study, other professional and national standards. (2022 FA)

INTERMEDIATE FRENCH II

FRE-212 Intermediate French II 3 (3-0) AND
Prerequisites: FRE-211^S

Corequisites:

This course is a continuation of FRE 211. Emphasis is placed on the continuing study of authentic and representative literary and cultural texts. Upon completion, students should be able to communicate spontaneously and accurately with increasing complexity and sophistication. (1997 SU) This course has been approved to satisfy the following requirement(s): | Humanities/Fine Arts Gen. Ed. course for A.A., A.A. Teacher Preparation, and A.S.

INTERMEDIATE SPANISH I

**SPA-211 Intermediate Spanish I 3 (3-0) Summer
Spring
Fall**

Prerequisites: SPA-112^S

Corequisites:

This course provides a review and expansion of the essential skills of the Spanish language. Emphasis is placed on the study of authentic and representative literary and cultural texts. Upon completion, students should be able to communicate effectively, accurately, and creatively about the past, present, and future. (1997 SU) This course has been approved to satisfy the following requirement(s): | Humanities/Fine Arts Gen. Ed. course for A.A., A.A. Teacher Preparation and A.S.

INTERMEDIATE SPANISH II

SPA-212 Intermediate Spanish II 3 (3-0) AND
Prerequisites: SPA-211^S

Corequisites:

This course provides a continuation of SPA 211. Emphasis is placed on the continuing study of authentic and representative literary and cultural texts. Upon completion, students should be able to communicate spontaneously and accurately with increasing complexity and sophistication. (1997 SU) This course has been approved to satisfy the following requirement(s): | Humanities/Fine Arts Gen. Ed. course for A.A., A.A. Teacher Preparation and A.S.

INTERNAT CULTURAL EXPLOR

HUM-180 Internat Cultural Explor 3 (2-3) AND
Prerequisites:

Corequisites:

This course provides a framework for students to visit, examine, and analyze a country/region outside the United States to learn about the place and people. Emphasis is placed on the distinctive cultural characteristics of a country or region. Upon completion, students should be able to identify similarities/differences, analyze causes/effects, and clearly articulate the impact of one or more cultural elements. (2009 SP) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

INTERNATIONAL RELATIONS

POL-220 International Relations 3 (3-0) AND
Prerequisites: ENG-025^L

Corequisites:

This course provides a study of the effects of ideologies, trade, armaments, and alliances on relations among nation-states. Emphasis is placed on regional and global cooperation and conflict, economic development, trade, non-governmental organizations, and international institutions such as the World Court and UN. Upon completion, students should be able to identify and discuss major international relationships, institutions, and problems. (1997 SU) This course has been approved to satisfy the following requirement(s): | Social/Behavioral Science Gen. Ed. course for A.A., A.A. Teacher Preparation and A.S. | Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E

INTERPERSONAL PSYCHOLOGY

PSY-118 Interpersonal Psychology 3 (3-0) Spring
Fall

Prerequisites: ENG-025^L

Corequisites:

This course introduces the basic principles of psychology as they relate to personal and professional development. Emphasis is placed on personality traits, communication/leadership styles, effective problem solving, and cultural diversity as they apply to personal and work environments. Upon completion, students should be able to demonstrate an understanding of these principles of psychology as they apply to personal and professional development. (1997 SU) This course has been approved to satisfy the following requirement(s): | Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E

INTERVIEWS/INTERROGATIONS

CJC-120 Interviews/Interrogations 2 (1-2) Spring

Prerequisites:

Corequisites:

This course covers basic and special techniques employed in criminal justice interviews and interrogations. Emphasis is placed on the interview/interrogation process, including interpretation of verbal and physical behavior and legal perspectives. Upon completion, students should be able to conduct interviews/interrogations in a legal, efficient, and professional manner and obtain the truth from suspects, witnesses, and victims. (1997 SU) Students who have successfully completed LET-110, Basic Law Enforcement, may receive credit for CJC-120.

INTRO INTERCULTURAL COM

COM-140 **Intro Intercultural Com** **3 (3-0)** **Fall**

Prerequisites:

Corequisites:

This course introduces techniques of cultural research, definitions, functions, characteristics, and impacts of cultural differences in public address. Emphasis is placed on how diverse backgrounds influence the communication act and how cultural perceptions and experiences determine how one sends and receives messages. Upon completion, students should be able to demonstrate an understanding of the principles and skills needed to become effective in communicating outside one's primary culture. (2009 SP) This course has been approved to satisfy the following requirement(s): | Communication Gen. Ed. course for A.A., A.A. Teacher Preparation, A.S., and A.S. Teacher Preparation | Humanities/Fine Arts course for A.A.S. and A.G.E.

INTRO INTERPERSONAL COM

COM-120 **Intro Interpersonal Com** **3 (3-0)** **Summer
Spring
Fall**

Prerequisites:

Corequisites:

This course introduces the practices and principles of interpersonal communication in both dyadic and group settings. Emphasis is placed on the communication process, perception, listening, self-disclosure, speech apprehension, ethics, nonverbal communication, conflict, power, and dysfunctional communication relationships. Upon completion, students should be able to demonstrate interpersonal communication skills, apply basic principles of group discussion, and manage conflict in interpersonal communication situations. (2007 FA) This course has been approved to satisfy the following requirement(s): | UGETC course for A.A., A.A. Teacher Preparation, A.F.A., and A.S. | Communication course for A.A.S. and A.G.E.

INTRO LIGHT-DUTY DIESEL

LDD-112 **Intro Light-Duty Diesel** **3 (2-2)** **Fall**

Prerequisites:

Corequisites:

This course covers the history, evolution, basic design and operational parameters for light-duty diesel (LDD) engines used in on-road applications. Topics include familiarization with the light-duty diesel, safety procedures, engine service and maintenance procedures, and introduction to combustion and emission chemistry. Upon completion, students should be able to describe the design and operation of the LDD, perform basic service operations, and demonstrate proper safety procedures. (2013 FA)

INTRO TURFGRASS CULT & ID

TRF-110 **Intro Turfgrass Cult & ID** **4 (3-2)** **Spring**
Prerequisites: MAT-110^L, MAT-121^L, MAT-143^L, MAT-152^L or MAT-171^L

Corequisites:

This course covers the principles of reproduction, growth development, species characteristics, establishment and maintenance of golf courses and sports fields, and lawns. Topics include principles of reproduction, growth development, species characteristics, establishment and maintenance of golf courses and sports fields, and lawn applications. Upon completion, students should be able to identify turfgrass species and develop an establishment and maintenance plan for high quality turf areas in accordance with sustainable practices. (2013 FA)

INTRO TO ACC SPREADSHEETS

ACC-149 **Intro to ACC Spreadsheets** **2 (1-3)** **Summer
Spring
Fall**

Prerequisites: ACC-115^S or ACC-120^S

Corequisites:

This course provides a working knowledge of computer spreadsheets and their use in accounting. Topics include pre-programmed problems, model-building problems, beginning-level macros, graphics, and what-if analysis enhancements of template problems. Upon completion, students should be able to use a computer spreadsheet to complete many of the tasks required in accounting. (2018 FA)

INTRO TO ANALYTICS

BAS-120 **Intro to Analytics** **3 (2-3)** **Spring
Fall**

Prerequisites:

Corequisites:

This course introduces basic concepts and applications of analytics. Topics include an overview of the analytical process and the role of the analyst, applied descriptive statistics, and exploratory data analysis. Upon completion, students should be able to demonstrate a basic understanding of analytics for decision-making in business. (2015 FA)

INTRO TO ARCH TECHNOLOGY

ARC-111 **Intro to Arch Technology** **3 (1-4)** **Fall**

Prerequisites:

Corequisites:

This course introduces basic architectural drafting techniques, lettering, use of architectural and engineer scales, and sketching. Topics include orthographic, axonometric, and oblique drawing techniques using architectural plans, elevations, sections, and details; reprographic techniques; and other related topics. Upon completion, students should be able to prepare and print scaled drawings within minimum architectural standards.(2025 FA)

INTRO TO EARLY CHILD EDUCATION

EDU-119 **Intro to Early Child Education** **4 (4-0)** **Fall**

Prerequisites:

Corequisites:

This course introduces the foundations of culturally responsive, equitable and inclusive early childhood education, planning intentional developmentally appropriate experiences, learning activities, and teaching strategies for indoor and outdoor environments for all young children, guidance techniques, and professionalism. Topics include theoretical foundations, national early learning standards, NC Foundations for Early Learning and Development, state regulations, program types, career options, professionalism, ethical conduct, quality inclusive environments, guidance techniques, and curriculum responsive to the needs of each child/family. Upon completion, students should be able to implement developmentally appropriate environments, guidance techniques, schedules, and teaching strategies across developmental domains to support culturally, linguistically, and ability diverse children and their families in inclusive settings, and design a personal career/professional development plan. (2022 FA)

INTRO TO ENGINEERING

EGR-150 **Intro to Engineering** **2 (1-2)** **Spring
Fall**

Prerequisites:

Corequisites:

This course is an overview of the engineering profession. Topics include goal setting and career assessment, ethics, public safety, the engineering method and design process, written and oral communication, interpersonal skills and team building, and computer applications. Upon completion, students should be able to understand the engineering process, the engineering profession, and utilize college resources to meet their educational goals. (2005 SP) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S. | Other Required Hours course for A.E.

INTRO TO ENVIRONMENTAL TECH

CEG-212 **Intro to Environmental Tech** **3 (2-3)** **Spring**

Prerequisites: EGR-251^S

Corequisites:

This course introduces basic engineering principles of hydraulics, and water and wastewater technologies. Topics include fluid statics, fluid dynamics, flow measurement, the collection, treatment, and distribution of water and wastewater. Upon completion, students should be able to identify water and wastewater system elements, describe water and wastewater system processes and perform basic hydraulics and treatment computations. (2013 FA)

INTRO TO HEALTH CONCEPTS

NUR-111 **Intro to Health Concepts** **8 (4-6-6) Fall**

Prerequisites: ENG-025^L; MAT-025^L

Corequisites: BIO-168^L, PSY-150^L, ENG-111^L

This course introduces the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts within each domain including medication administration, assessment, nutrition, ethics, interdisciplinary teams, informatics, evidence-based practice, individual-centered care, and quality improvement. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course. (2009 FA)

INTRO TO MLT

MLT-110 **Intro to MLT** **3 (2-3) Fall**

Prerequisites:

Corequisites:

This course introduces all aspects of the medical laboratory profession. Topics include health care/laboratory organization, professional ethics, basic laboratory techniques, safety, quality assurance, and specimen collection. Upon completion, students should be able to demonstrate a basic understanding of laboratory operations and be able to perform basic laboratory skills. (1997 SU)

INTRO TO MICROBIOLOGY

MLT-140 **Intro to Microbiology** **3 (2-3) Fall**

Prerequisites:

Corequisites:

This course introduces basic techniques and safety procedures in clinical microbiology. Emphasis is placed on the morphology and identification of common pathogenic organisms, aseptic technique, staining techniques, and usage of common media. Upon completion, students should be able to demonstrate theoretical comprehension in performing and interpreting basic clinical microbiology procedures. (1997 SU)

INTRO TO MICROPROCESSORS

ELN-232 **Intro to Microprocessors** **4 (3-3) Spring**

Prerequisites:

Corequisites:

This course introduces microprocessor architecture and microcomputer systems including memory and input/output interfacing. Topics include low-level language programming, bus architecture, I/O systems, memory systems, interrupts, and other related topics. Upon completion, students should be able to interpret, analyze, verify, and troubleshoot fundamental microprocessor circuits and programs using appropriate techniques and test equipment. (1997 SU)

INTRO TO NEW TESTAMENT

REL-212 **Intro to New Testament** **3 (3-0)** **Spring
Fall**

Prerequisites:**Corequisites:**

This course is a survey of the literature of first-century Christianity with readings from the gospels, Acts, and the Pauline and pastoral letters. Topics include the literary structure, audience, and religious perspective of the writings, as well as the historical and cultural context of the early Christian community. Upon completion, students should be able to use the tools of critical analysis to read and understand New Testament literature. (1997 SU) This course has been approved to satisfy the following requirement(s): | Humanities/Fine Arts Gen. Ed. course for A.A., A.A. Teacher Preparation and A.S. | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

INTRO TO OLD TESTAMENT

REL-211 **Intro to Old Testament** **3 (3-0)** **Summer
Fall**

Prerequisites:**Corequisites:**

This course is a survey of the literature of the Hebrews with readings from the law, prophets, and other writings. Emphasis is placed on the use of literary, historical, archeological, and cultural analysis. Upon completion, students should be able to use the tools of critical analysis to read and understand Old Testament literature. (1997 SU) This course has been approved to satisfy the following requirement(s): | Humanities/Fine Arts Gen. Ed. course for A.A., A.A. Teacher Preparation and A.S. | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

INTRO TO PLC

ELC-128 **Intro to PLC** **3 (2-3)** **AND**

Prerequisites:**Corequisites:**

This course introduces the programmable logic controller (PLC) and its associated applications. Topics include ladder logic diagrams, input/output modules, power supplies, surge protection, selection/installation of controllers, and interfacing of controllers with equipment. Upon completion, students should be able to understand basic PLC systems and create simple programs. (2013 FA)

INTRO. TO E-COMMERCE

ECM-210 **Intro. to E-Commerce** **3 (2-2)** **Summer
Fall**

Prerequisites: ENG-025^L; CIS-110^L or CIS-111^L

Corequisites:

This course introduces the concepts and tools to implement electronic commerce via the Internet. Topics include application and server software selection, securing transactions, use and verification of credit cards, publishing of catalogs, and site administration. Upon completion, students should be able to setup a working e-commerce Internet web site. (2003 FA)

INTRO. TO MASS COMM.

COM-150 **Intro. to Mass Comm.** **3 (3-0)** **AND**

Prerequisites: ENG-111^S

Corequisites:

This course introduces print and electronic media and the new information technologies in terms of communication theory and as economic, political, and social institutions. Topics include the nature, history, functions, and responsibilities of mass communication industries in a global environment and their role and impact in American society. Upon completion, students should be able to demonstrate awareness of the pervasive nature of mass media and how media operate in an advanced post-industrial society. (2010 SP) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

INTRODUCTION TO BUSINESS

BUS-110 **Introduction to Business** **3 (3-0)** **Summer
Spring
Fall**

Prerequisites: ENG-025^L

Corequisites:

This course provides a survey of the business world. Topics include the basic principles and practices of contemporary business. Upon completion, students should be able to demonstrate an understanding of business concepts as a foundation for studying other business subjects. (2015 FA) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

INTRODUCTION TO COMMUNICATION

COM-110	Introduction to Communication	3 (3-0)	Summer Spring Fall
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Prerequisites:**Corequisites:**

This course provides an overview of the basic concepts of communication and the skills necessary to communicate in various contexts. Emphasis is placed on communication theories and techniques used in interpersonal group, public, intercultural, and mass communication situations. Upon completion, students should be able to explain and illustrate the forms and purposes of human communication in a variety of contexts. (1997 SU) This course has been approved to satisfy the following requirement(s): | Communication Gen. Ed. course for A.A., A.A. Teacher Preparation, A.S., and A.S. Teacher Preparation | Other Gen. Ed. and Premajor Elective Hours course for A.E. | Communication course for A.A.S. and A.G.E.

INTRODUCTION TO COMPUTERS

CIS-110	Introduction to Computers	3 (2-2)	Summer Spring Fall
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Prerequisites:**Corequisites:**

This course introduces computer concepts, including fundamental functions and operations of the computer. Topics include identification of hardware components, basic computer operations, security issues, and use of software applications. Upon completion, students should be able to demonstrate an understanding of the role and function of computers and use the computer to solve problems. (2006 SP)

INTRODUCTION TO ETHICS

PHI-240	Introduction to Ethics	3 (3-0)	Summer Spring Fall
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Prerequisites: ENG-111^S**Corequisites:**

This course introduces theories about the nature and foundations of moral judgments and applications to contemporary moral issues. Emphasis is placed on moral theories such as consequentialism, deontology, and virtue ethics. Upon completion, students should be able to apply various ethical theories to moral issues such as abortion, capital punishment, poverty, war, terrorism, the treatment of animals, and issues arising from new technologies. (2014 FA) This course has been approved to satisfy the following requirement(s): | UGETC course for A.A., A.A. Teacher Preparation, A.E., A.F.A., A.S. and A.S. Teacher Preparation | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

INTRODUCTION TO FILM

HUM-160 **Introduction to Film** **3 (2-2)** **Summer
Spring
Fall**

Prerequisites: ENG-111^L

Corequisites:

This course introduces the fundamental elements of film artistry and production. Topics include film styles, history, and production techniques, as well as the social values reflected in film art. Upon completion, students should be able to critically analyze the elements covered in relation to selected films. (1999 FA) This course has been approved to satisfy the following requirement(s): | Humanities/Fine Arts Gen. Ed. course for A.A., A.A. Teacher Preparation and A.S. | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

INTRODUCTION TO GIS

GIS-111 **Introduction to GIS** **3 (2-2)** **AND**

Prerequisites:

Corequisites:

This course introduces the hardware and software components of a Geographic Information System and reviews GIS applications. Topics include data structures and basic functions, methods of data capture and sources of data, and the nature and characteristics of spatial data and objects. Upon completion, students should be able to identify GIS hardware components, typical operations, products/applications, and differences between database models and between raster and vector systems. (1997 SU)

INTRODUCTION TO JAZZ

MUS-112 **Introduction to Jazz** **3 (3-0)** **Spring
Fall**

Prerequisites:

Corequisites:

This course introduces the origins and musical components of jazz and the contributions of its major artists. Emphasis is placed on the development of discriminating listening habits, as well as the investigation of the styles and structural forms of the jazz idiom. Upon completion, students should be able to demonstrate skills in listening and understanding this form of American music. (1997 SU) This course has been approved to satisfy the following requirement(s): | UGETC course for A.A., A.A. Teacher Preparation, A.E., A.F.A., A.S. and A.S. Teacher Preparation | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

INTRODUCTION TO LITERATURE

ENG-131 Introduction to Literature 3 (3-0) AND

Prerequisites: ENG-111^S

Corequisites: ENG-112^S or ENG-114^S

This course introduces the principal genres of literature. Emphasis is placed on literary terminology, devices, structure, and interpretation. Upon completion, students should be able to analyze and respond to literature. (1997 SU) This course has been approved to satisfy the following requirement(s): | Humanities/Fine Arts Gen. Ed. course for A.A., A.A. Teacher Preparation, and A.S. | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

INTRODUCTION TO NETWORKS

NET-125 Introduction to Networks 3 (2-3) Fall

Prerequisites:

Corequisites:

This course offers a detailed exploration of the architecture, structure, functions, components, and operating models of the Internet and other computer networks. Topics include the essentials of IP addressing, Ethernet basics, various media types, and network operations. Upon completion, students should be able to build/troubleshoot simple Local Area Networks (LANs), develop effective IP addressing schemes, and configure routers and switches.(2025 FA)

INTRODUCTION TO SOCIOLOGY

**SOC-210 Introduction to Sociology 3 (3-0) Summer
Spring
Fall**

Prerequisites:

Corequisites:

This course introduces the scientific study of human society, culture, and social interactions. Topics include socialization, research methods, diversity and inequality, cooperation and conflict, social change, social institutions, and organizations. Upon completion, students should be able to demonstrate knowledge of sociological concepts as they apply to the interplay among individuals, groups, and societies. (1997 SU) This course has been approved to satisfy the following requirement(s): | UGETC course for A.A., A.A. Teacher Preparation, A.E., A.F.A., A.S. and A.S. Teacher Preparation | Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

INTRODUCTION TO STAGE DESIGN

DRA-144 Introduction to Stage Design 3 (3-0) Fall

Prerequisites:

Corequisites:

This course provides a basic foundational study of costume, scenery, lighting and sound design for live entertainment. Emphasis is placed on basic techniques, language, methods and practice employed in live entertainment design. Upon completion, students should be able to practice all effective and creative aspects of live entertainment design.(2024 FA)

INTRODUCTORY BOTANY

BIO-120 **Introductory Botany** **4 (3-3)** **AND**

Prerequisites: BIO-110^S or BIO-111^S; Minimum grade CL

Corequisites:

This course provides an introduction to the classification, relationships, structure, and function of plants. Topics include reproduction and development of seed and non-seed plants, levels of organization, form and function of systems, and a survey of major taxa. Upon completion, students should be able to demonstrate comprehension of plant form and function, including selected taxa of both seed and non-seed plants. (1997 SU) This course has been approved to satisfy the following requirement(s): | Natural Science Gen. Ed. course for A.A., A.A. Teacher Preparation, A.S., and A.S. Teacher Preparation | Natural Science Gen. Ed. course for A.G.E.

INTRODUCTORY ZOOLOGY

BIO-130 **Introductory Zoology** **4 (3-3)** **AND**

Prerequisites: BIO-110^S or BIO-111^S; Minimum grade CL

Corequisites:

This course provides an introduction to the classification, relationships, structure, and function of major animal phyla. Emphasis is placed on levels of organization, reproduction and development, comparative systems, and a survey of selected phyla. Upon completion, students should be able to demonstrate comprehension of animal form and function including comparative systems of selected groups. (1997 SU) This course has been approved to satisfy the following requirement(s): | Natural Science Gen. Ed. course for A.A., A.A. Teacher Preparation, A.S., and A.S. Teacher Preparation | Natural Science Gen. Ed. course for A.G.E.

INTRUSION DETECTION

SEC-210 **Intrusion Detection** **3 (2-2)** **Fall**

Prerequisites:

Corequisites:

This course introduces the student to intrusion detection methods in use today. Topics include the types of intrusion detection products, traffic analysis, and planning and placement of intrusion detection solutions. Upon completion, students should be able to plan and implement intrusion detection solution for networks and host-based systems. (2016 FA)

INVESTIGATIVE PRINCIPLES

CJC-221 **Investigative Principles** **4 (3-2)** **Fall**

Prerequisites:

Corequisites:

This course introduces the theories and fundamentals of the investigative process. Topics include crime scene/incident processing, information gathering techniques, collection/preservation of evidence, preparation of appropriate reports, court presentations, and other related topics. Upon completion, students should be able to identify, explain, and demonstrate the techniques of the investigative process, report preparation, and courtroom presentation. (1997 SU) Students who have successfully completed LET-110, Basic Law Enforcement, may receive credit for CJC-221.

JAVA PROGRAMMING

CSC-151 **JAVA Programming** **3 (2-3)** **Spring
Summer**

Prerequisites: MAT-025^L

Corequisites:

This course introduces computer programming using the JAVA programming language with object-oriented programming principles. Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion students should be able to design, code, test, debug JAVA language programs. (2006 SP) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S. | Other Gen. Ed. and Premajor Elective Hours course for A.E.

JAZZ ENSEMBLE I

MUS-135 **Jazz Ensemble I** **1 (0-2)** **Fall**

Prerequisites:

Corequisites:

This course provides an opportunity for those who play an appropriate instrument to gain experience playing in a jazz ensemble. Emphasis is placed on jazz ensemble techniques and the study and performance of a variety of styles of jazz literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

JAZZ ENSEMBLE II

MUS-136 Jazz Ensemble II 1 (0-2) Spring

Prerequisites: MUS-135^S

Corequisites:

This course is a continuation of MUS 135. Emphasis is placed on jazz ensemble techniques and the study and performance of a variety of styles and periods of jazz literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

JAZZ ENSEMBLE III

**MUS-235 Jazz Ensemble III 1 (0-2) Spring
Fall**

Prerequisites: MUS-136^S

Corequisites:

This course is a continuation of MUS 136. Emphasis is placed on jazz ensemble techniques and the study and performance of a variety of styles and periods of jazz literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

JAZZ ENSEMBLE IV

**MUS-236 Jazz Ensemble IV 1 (0-2) Spring
Fall**

Prerequisites: MUS-235^S

Corequisites:

This course is a continuation of MUS 235. Emphasis is placed on jazz ensemble techniques and the study and performance of a variety of styles and periods of jazz literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

JUVENILE JUSTICE

CJC-113 Juvenile Justice 3 (3-0) Fall

Prerequisites:

Corequisites:

This course covers the juvenile justice system and related juvenile issues. Topics include an overview of the juvenile justice system, treatment and prevention programs, special areas and laws unique to juveniles, and other related topics. Upon completion, students should be able to identify/discuss juvenile court structure/procedures, function and jurisdiction of juvenile agencies, processing/detention of juveniles, and case disposition. (1997 SU) Students who have successfully completed LET-110, Basic Law Enforcement, may receive credit for CJC-113. This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

KAYAKING-BASIC

PED-163 Kayaking-Basic 1 (0-2) AND

Prerequisites:

Corequisites:

This course is designed to teach the basic skills of kayaking. Topics include forward and reverse strokes, sweeps, Eskimo roll, and self-rescue skills. Upon completion, students should be able to maneuver and demonstrate safe kayaking practices. (2007 SP) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

LDD FUEL SYSTEMS

LDD-181 LDD Fuel Systems 4 (2-6) Spring

Prerequisites:

Corequisites:

This course covers the light-duty diesel fuel delivery systems in on-road applications including hydraulic electronically controlled unit injectors, common-rail, mechanical pumps, and emerging technologies. Topics include diesel combustion theory, fuel system components, electronic and mechanical controls, and fuel types and chemistries that are common to the light-duty diesel engines. Upon completion, students should be able to demonstrate skills necessary to inspect, test, and replace fuel delivery components using appropriate service information and tools. (2013 FA)

LANDSCAPE CONSTRUCTION

HOR-114 Landscape Construction 3 (2-2) Summer

Prerequisites: MAT-110^L, MAT-121^L, MAT-143^L, MAT-152^L or MAT-171^L

Corequisites:

This course introduces the design and fabrication of landscape structures/features. Emphasis is placed on safety, tool identification and use, material selection, construction techniques, and fabrication. Upon completion, students should be able to design and construct common landscape structures/features. (1997 SU)

LANDSCAPE DESIGN I

HOR-112 Landscape Design I 3 (2-3) Fall

Prerequisites: HOR-160^L; MAT-110^L, MAT-121^L, MAT-143^L, MAT-152^L or MAT-171^L

Corequisites:

This course covers landscape principles and practices for residential and commercial sites. Emphasis is placed on drafting, site analysis, and common elements of good design, plant material selection, and proper plant utilization (encouraged use of native plants and discouraged use of invasive species). Upon completion, students should be able to read plans and draft a landscape design according to sustainable practices. (2013 FA)

LANDSCAPE DESIGN II

HOR-213 **Landscape Design II** **3 (2-2)** **Spring**
Prerequisites: HOR-112^S; HOR-160^L

Corequisites:

This course covers residential and commercial landscape design, cost analysis, and installation. Emphasis is placed on job cost estimates, installation of the landscape design, and maintenance techniques. Upon completion, students should be able to read landscape design blueprints, develop cost estimates, and implement the design. (1997 SU)

LANDSCAPE IRRIGATION

HOR-215 **Landscape Irrigation** **3 (2-2)** **Fall**
Prerequisites:

Corequisites:

This course introduces basic irrigation design, layout, and installation. Topics include site analysis, components of irrigation systems, safety, types of irrigation systems, and installation techniques. Upon completion, students should be able to design and install basic landscape irrigation systems. (1997 SU)

LANDSCAPE SUPERVISION

LSG-231 **Landscape Supervision** **4 (2-6)** **Fall**
Prerequisites: LSG-123^S, HOR-161^S

Corequisites:

This course provides experience in planning, implementing, and supervising various landscape management projects. Emphasis is placed on supervisory skills, organizing, and scheduling. Upon completion, students should be able to supervise employees in various landscape management jobs. (2014 FA)

LANGUAGE/LITERACY EXPERIENCES

EDU-280 **Language/Literacy Experiences** **3 (3-0)** **Fall**
Prerequisites:

Corequisites:

This course provides evidence-based strategies for enhancing language and literacy experiences that align with NC Foundations for Early Learning and Development. Topics include developmental sequences for children's emergent receptive and expressive language, print concepts, appropriate observations/assessments, literacy enriched environments, quality selection of diverse literature, interactive media, and inclusive practices. Upon completion, students should be able to select, plan, implement and evaluate developmentally appropriate language and literacy experiences for children who are culturally, linguistically and ability diverse. (2020 FA)

LAW ENFORCEMENT OPERATIONS

CJC-121 **Law Enforcement Operations** **3 (3-0)** **Spring**

Prerequisites:

Corequisites:

This course introduces fundamental law enforcement operations. Topics include the contemporary evolution of law enforcement operations and related issues. Upon completion, students should be able to explain theories, practices, and issues related to law enforcement operations. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

LEADERSHIP DEVELOPMENT

HUM-230 **Leadership Development** **3 (3-0)** **Spring
Fall**

Prerequisites: ENG-111^S

Corequisites:

This course explores the theories and techniques of leadership and group process. Emphasis is placed on leadership styles, theories of group dynamics, and the moral and ethical responsibilities of leadership. Upon completion, students should be able to identify and analyze a personal philosophy and style of leadership and integrate these concepts in various practical situations. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S. | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

LEADERSHIP-HOSPITALITY

HRM-275 **Leadership-Hospitality** **3 (3-0)** **Fall**

Prerequisites:

Corequisites:

This course introduces leadership traits, styles, and the roles and responsibilities of successful hospitality leaders while developing the student's personal leadership skills. Topics include formal and informal hospitality leadership; defining effective and ineffective leadership behavior; and leadership organizational change and planning within the hospitality industry. Upon completion, students will be able to apply appropriate leadership actions in real-world situations ranging from local to global hospitality environments. (2011 FA)

LIFE SPAN EMERGENCIES

EMS-270 **Life Span Emergencies** **4 (3-3)** **Fall**

Prerequisites: EMS-122^S, EMS-130^S

Corequisites:

This course covers medical/ethical/legal issues and the spectrum of age-specific emergencies from conception through death required for paramedic certification. Topics include gynecological, obstetrical, neonatal, pediatric, and geriatric emergencies and pharmacological therapeutics. Upon completion, students should be able to recognize and treat age-specific emergencies. (2019 SP)

LIFESTYLE CHNG & WELLNESS

HFS-218 **Lifestyle Chng & Wellness** **4 (3-2)** **Fall**

Prerequisites: ENG-025^L

Corequisites:

This course introduces health risk appraisals and their application to lifestyle changes. Topics include nutrition, weight control, stress management, and the principles of exercise. Upon completion, students should be able to conduct health risk appraisals and apply behavior modification techniques in a fitness setting. (2017 FA)

LIGHTING FOR THE THEATRE

DRA-240 **Lighting for the Theatre** **3 (2-2)** **Spring**

Prerequisites:

Corequisites:

This course is an applied study of theatre lighting and is designed to train theatre technicians. Emphasis is placed on lighting technology including the mechanics of lighting and light control equipment by practical work with lighting equipment. Upon completion, students should be able to demonstrate competence with lighting equipment. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

LINUX SINGLE USER

NOS-120 **Linux Single User** **3 (2-3)** **Summer**

Prerequisites:

Corequisites:

This course provides students with GUI and command line skills for using a Linux machine. Topics include Linux file system and access permissions, desktop or shell environments, command line editors, display servers, expression pattern matching, I/O redirection, and networking. Upon completion, students should be able to demonstrate competency in customizing a Linux system.(2025 FA)

LITERACY DEVELOP AND INSTRUCT

EDU-279 **Literacy Develop and Instruct** **4 (3-3)** **Spring**

Prerequisites:

Corequisites:

This course is designed to provide students with concepts and skills of literacy development, instructional methods/materials and assessment techniques needed to provide scientifically-based, systematic reading and writing instruction into educational practice. Topics include literacy concepts, reading and writing development, developmentally appropriate pedagogy, culturally-responsive instruction, standards-based outcomes, lesson planning, formative/summative assessment, recognizing reading difficulties, research-based interventions, authentic learning experiences, classroom implementation, and reflective practice. Upon completion, students should be able to plan, implement, assess, evaluate, and demonstrate developmentally appropriate literacy instruction aligned to the NC Standard Course of Study and other state and national standards. (2020 FA) This course has been approved to satisfy the following requirement(s): | Other Required Hours/Universal Ed. course for A.A. Teacher Preparation and A.S. Teacher Preparation

LOCAL GOVT FINANCE

FIP-228 **Local Govt Finance** **3 (3-0)** **Spring**

Prerequisites:

Corequisites:

This course introduces local governmental financial principles and practices. Topics include budget preparation and justification, revenue policies, statutory requirements, audits, and the economic climate. Upon completion, students should be able to comprehend the importance of finance as it applies to the operations of a department. (2014 FA)

LONG-TERM CARE CODING

OST-250 **Long-Term Care Coding** **3 (2-2)** **Spring**

Prerequisites: MED-121^S or OST-141^S

Corequisites:

This course covers diagnostic coding as it applies to long-term care facilities and home care. Topics include diagnostic coding and reimbursement in long-term care facilities and home care. Upon completion, students should be able to properly code conditions for long-term care and home care services. (2017 FA)

MLT PRACTICUM I

MLT-251 **MLT Practicum I** **1 (0-0-3)** **Spring
Summer
Fall**

Prerequisites: MLT-110^L

Corequisites:

This course provides entry-level clinical laboratory experience. Emphasis is placed on technique, accuracy, and precision. Upon completion, students should be able to demonstrate entry-level competence on final clinical evaluations. (1997 SU)

MLT-253	MLT Practicum I	3 (0-0-9) Spring Summer Fall
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Prerequisites: MLT-140^L

Corequisites: MLT-240^L

This course provides entry-level clinical laboratory experience. Emphasis is placed on technique, accuracy, and precision. Upon completion, students should be able to demonstrate entry-level competence on final clinical evaluations. (1997 SU)

MLT PRACTICUM II

MLT-261	MLT Practicum II	1 (0-0-3) Spring Summer Fall
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Prerequisites: MLT-111^L

Corequisites:

This course provides entry-level clinical laboratory experience. Emphasis is placed on technique, accuracy, and precision. Upon completion, students should be able to demonstrate entry-level competence on final clinical evaluations. (1997 SU)

MLT-262	MLT Practicum II	2 (0-0-6) Spring Summer Fall
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Prerequisites: MLT-120^L

Corequisites: MLT-220^L

This course provides entry-level clinical laboratory experience. Emphasis is placed on technique, accuracy, and precision. Upon completion, students should be able to demonstrate entry-level competence on final clinical evaluations. (1997 SU)

MLT-263	MLT Practicum II	3 (0-0-9) Spring Summer Fall
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Prerequisites: MLT-130^L, MLT-126^L

Corequisites:

This course provides entry-level clinical laboratory experience. Emphasis is placed on technique, accuracy, and precision. Upon completion, students should be able to demonstrate entry-level competence on final clinical evaluations. (1997 SU)

MLT PRACTICUM III

MLT-273	MLT Practicum III	3 (0-0-9) Spring Summer Fall
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Prerequisites: MLT-127^L

Corequisites:

This course provides entry-level clinical laboratory experience. Emphasis is placed on technique, accuracy, and precision. Upon completion, students should be able to demonstrate entry-level competence on final clinical evaluations. (1997 SU)

MAN TRANS/AXLES/DRTRAINS

AUT-231 **Man Trans/Axles/Drtrains** **3 (2-3)** **Spring**

Prerequisites:

Corequisites:

This course covers the operation, diagnosis, and repair of manual transmissions/transaxles, clutches, driveshafts, axles, and final drives. Topics include theory of torque, power flow, and manual drive train servicing and repair using appropriate service information, tools, and equipment. Upon completion, students should be able to explain operational theory, diagnose and repair manual drive trains. (2008 SP)

MANAGING AUTOMOTIVE ORG

AUM-111 **Managing Automotive Org** **3 (3-0)** **Spring**

Prerequisites:

Corequisites:

This course will cover the principles and procedures involved in managing an automotive facility. Emphasis is placed on record maintenance, facility layout, technical service training, personnel management, parts management, and computer-based shop management systems. Upon completion, students should be able to demonstrate procedures used in the day-to-day operations of an automotive facility. (2007 FA)

MANAGING FIRE SERVICES

FIP-276 **Managing Fire Services** **3 (3-0)** **Spring**

Prerequisites:

Corequisites:

This course provides an overview of fire department operative services referenced in NFPA standard 1021. Topics include finance, staffing, equipment, code enforcement, management information, specialized services, legal issues, planning, and other related topics. Upon completion, students should be able to understand concepts and apply fire department management and operations principles. (2014 FA)

MATH MEASUREMENT & LITERACY

MAT-110 **Math Measurement & Literacy** **3 (2-2)** **Fall
Spring**

Prerequisites: MAT-025^L

Corequisites:

This course provides an activity-based approach that develops measurement skills and mathematical literacy using technology to solve problems for non-math intensive programs. Topics include unit conversions and estimation within a variety of measurement systems; ratio and proportion; basic geometric concepts; financial literacy; and statistics including measures of central tendency, dispersion, and charting of data. Upon completion, students should be able to demonstrate the use of mathematics and technology to solve practical problems, and to analyze and communicate results. (2025 SP)

MECH & ELEC COMPONENTS I

AUB-141 **Mech & Elec Components I** **3 (2-2)** **Fall**

Prerequisites:

Corequisites:

This course covers the basic principles of automotive mechanical and electrical components. Topics include personal and environmental safety and suspension and steering, electrical, brake, heating and air-conditioning, cooling, drive train, and restraint systems. Upon completion, students should be able to identify system components and perform basic system diagnostic checks and/or repairs according to industry standards.(1997 SU)

MECH & ELEC SPECIALTIES

AUB-144 **Mech & Elec Specialties** **3 (2-2)** **Spring**

Prerequisites:

Corequisites:

This course concentrates on special automotive mechanical and electrical system operations and diagnostics. Topics include personal and environmental safety, suspension and steering, electrical, restraint, and air-conditioning systems. Upon completion, students should be able to identify system components and perform basic system diagnostic checks and/or repairs according to industry standards. (1997 SU)

MED CODING CERTIFICATION PREP

OST-249 **Med Coding Certification Prep** **3 (2-3)** **Summer
Spring**

Prerequisites: OST-247^S, OST-248^S

Corequisites:

This course provides instruction that will prepare students to sit for a national coding certification exam. Topics include diagnostic and procedural coding. Upon completion, students should be able to sit for various medical coding certification exams. (2017 FA)

MED INS & BILLING

OST-148 **Med Ins & Billing** **3 (3-0)** **Summer
Spring
Fall**

Prerequisites:

Corequisites: MED-121^L

This course introduces fundamentals of medical insurance and billing. Emphasis is placed on the medical billing cycle to include third party payers, coding concepts, and form preparation. Upon completion, students should be able to explain the life cycle of and accurately complete a medical insurance claim. (2017 FA)

MED OFFICE SIMULATION

OST-243 **Med Office Simulation** **3 (2-2)** **Spring
Fall**

Prerequisites:**Corequisites:**

This course introduces medical systems used to process information in the automated office. Topics include traditional and electronic information resources, managing health information, and the billing cycle. Upon completion, students should be able to use the computer accurately to schedule, bill, update, and make corrections.(2025 FA)

MED OFFICE TERMS I

OST-141 **Med Office Terms I** **3 (3-0)** **Spring
Fall**

Prerequisites: ENG-025^L

Corequisites:

This course uses a language-structure approach to present the terminology and vocabulary that will be encountered in medical office settings. Topics include word parts that relate to systemic components, conditions, pathology, and disorder remediation in approximately one-half of the systems of the human body. Upon completion, students should be able to relate words to systems, pluralize, define, pronounce, and construct sentences with the included terms.(2017 FA)

MED OFFICE TERMS II

OST-142 **Med Office Terms II** **3 (3-0)** **Summer
Spring**

Prerequisites: MED-121^S or OST-141^S

Corequisites:

This course is a continuation of OST 141 and continues the study, using a language-structure approach, of medical office terminology and vocabulary. Topics include word parts that relate to systemic components, conditions, pathology, and disorder remediation in the remaining systems of the human body. Upon completion, students should be able to relate words to systems, pluralize, define, pronounce, and construct sentences with the included terms.(2017 FA)

MEDICAL EMERGENCIES

EMS-250 **Medical Emergencies** **4 (3-3)** **Fall**

Prerequisites: EMS-122^S, EMS-130^S

Corequisites:

This course provides an in-depth study of medical conditions frequently encountered in the prehospital setting and is required for paramedic certification. Topics include appropriate interventions/treatments for disorders/diseases/injuries affecting the following systems respiratory, neurological, abdominal/gastrointestinal, endocrine, genitourinary, musculoskeletal, and immunological as well as toxicology, infectious diseases and diseases of the eyes, ears, nose and throat. Upon completion, students should be able to recognize, assess and manage the care of frequently encountered medical conditions based upon initial patient assessment. (2014 SP)

MEDICAL LEGAL ISSUES

OST-149 Medical Legal Issues 3 (3-0) Fall

Prerequisites:

Corequisites:

This course introduces the complex legal, moral, and ethical issues involved in providing health-care services. Emphasis is placed on the legal requirements of medical practices; the relationship of physician, patient, and office personnel; professional liabilities; and medical practice liability. Upon completion, students should be able to demonstrate a working knowledge of current medical law and accepted ethical behavior. (1999 FA)

MEDICAL OFFICE ADMIN CAPSTONE

OST-288 Medical Office Admin Capstone 3 (2-2) Spring

Prerequisites: OST-148^S

Corequisites:

This course is designed to be a capstone course for the medical office professional and provides a working knowledge of medical office procedures. Emphasis is placed on written and oral communication skills, practice management, electronic health records, medical office procedures, ethics, and professional development. Upon completion, students should be able to demonstrate the skills necessary to manage a medical office. (2017 FA)

MEDICAL TERMINOLOGY I

**MED-121 Medical Terminology I 3 (3-0) Spring
Fall**

Prerequisites: ENG-025^L

Corequisites:

This course introduces prefixes, suffixes, and word roots used in the language of medicine. Topics include medical vocabulary and the terms that relate to the anatomy, physiology, pathological conditions, and treatment of selected systems. Upon completion, students should be able to pronounce, spell, and define medical terms as related to selected body systems and their pathological disorders. (1997 SU)

MEDICAL TERMINOLOGY II

**MED-122 Medical Terminology II 3 (3-0) Summer
Spring**

Prerequisites: MED-121^S

Corequisites:

This course is the second in a series of medical terminology courses. Topics include medical vocabulary and the terms that relate to the anatomy, physiology, pathological conditions, and treatment of selected systems. Upon completion, students should be able to pronounce, spell, and define medical terms as related to selected body systems and their pathological disorders. (1997 SU)

MENU DESIGN

CUL-130 **Menu Design** **2 (2-0)** **Summer**

Prerequisites:**Corequisites:**

This course introduces menu design and its relationship to foodservice operations. Topics include layout, marketing, concept development, dietary concerns, product utilization, target consumers and trends. Upon completion, students should be able to design, create and produce menus for a variety of foodservice settings. (2011 FA)

MICROBIOLOGY

BIO-275 **Microbiology** **4 (3-3)** **Summer
Spring
Fall**

Prerequisites: BIO-111^S, BIO-163^S or BIO-168^S; Minimum grade CL

Corequisites:

This course covers principles of microbiology and the impact these organisms have on man and the environment. Topics include the various groups of microorganisms, their structure, physiology, genetics, microbial pathogenicity, infectious diseases, immunology, and selected practical applications. Upon completion, students should be able to demonstrate knowledge and skills including microscopy, aseptic technique, staining, culture methods, and identification of microorganisms.(2023 FA)

MOTORS AND CONTROLS

ELC-117 **Motors and Controls** **4 (2-6)** **AND**

Prerequisites:**Corequisites:**

This course introduces the fundamental concepts of motors and motor controls. Topics include ladder diagrams, pilot devices, contactors, motor starters, motors, and other control devices. Upon completion, students should be able to properly select, connect, and troubleshoot motors and control circuits. (2013 FA)

MUNIC PUBLIC RELATIONS

FIP-256 **Munic Public Relations** **3 (3-0)** **Spring**

Prerequisites:**Corequisites:**

This course is a general survey of municipal public relations and their effect on the governmental process referenced in NFPA standard 1035. Topics include principles of public relations, press releases, press conferences, public information officers, image surveys, and the effects of perceived service on fire protection delivery. Upon completion, students should be able to manage public relations functions of organizations which meet elements of NFPA 1021 for Fire Officer I and II. (2014 FA)

MUSIC APPRECIATION

MUS-110 **Music Appreciation** **3 (3-0)** **Summer
Spring
Fall**

Prerequisites:**Corequisites:**

This course is a basic survey of the music of the Western world. Emphasis is placed on the elements of music, terminology, composers, form, and style within a historical perspective. Upon completion, students should be able to demonstrate skills in basic listening and understanding of the art of music. (1997 SU) This course has been approved to satisfy the following requirement(s): | UGETC course for A.A., A.A. Teacher Preparation, A.E., A.F.A., A.S. and A.S. Teacher Preparation | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

MUSIC HISTORY I

MUS-271 **Music History I** **3 (3-0)** **Fall**

Prerequisites: MUS-122^S

Corequisites:

This course is the first of a two-semester, in-depth study of music history. Emphasis is placed on the history and literature of music from Antiquity through the Baroque Period. Upon completion, students should be able to trace important musical developments and demonstrate an understanding of the composers' styles. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

MUSIC HISTORY II

MUS-272 **Music History II** **3 (3-0)** **Spring**

Prerequisites: MUS-271^S

Corequisites:

This course is the second of a two-semester, in-depth study of music history. Emphasis is placed on the history and literature of music from the Classical Period to the present. Upon completion, students should be able to trace important musical developments and demonstrate an understanding of the composers' styles. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

MUSIC THEORY I

MUS-121 **Music Theory I** **3 (3-0)** **Fall**

Prerequisites:

Corequisites: MUS-125^L

This course provides an introduction to the musical elements of melody, rhythm, and harmony. Emphasis is placed upon the interaction of these elements through fundamental analysis and an introduction to part writing. Upon completion, students should be able to demonstrate understanding of melodic voice leading, rhythmic functions within simple and compound meters, and simple harmonic progressions. (2018 FA) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S. | Humanities/ Fine Arts Gen. Ed. course for A.G.E.

MUSIC THEORY II

MUS-122 Music Theory II 3 (3-0) Spring
Prerequisites: MUS-121^S
Corequisites: MUS-126^L

This course provides a comprehensive study of diatonic harmony. Emphasis is placed on voice leading tasks, part writing, and analysis using various labeling systems. Upon completion, students should be able to demonstrate harmonic principles through four-voice part writing, recognize and label non-harmonic tones, analyze chords using Roman numerals, figured bass, and lead sheet symbols, and classify small-scale phrase structure and cadence types. (2018 FA) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S. | Humanities/Fine Arts Gen. Ed. course for A.G.E.

MUSIC THEORY III

MUS-221 Music Theory III 3 (3-0) Fall
Prerequisites: MUS-122^S
Corequisites: MUS-225^L

This course provides a comprehensive study of chromatic harmony. Emphasis is placed on advanced voice leading tasks, part writing, and analysis of chord progressions, modulations, and large-scale forms. Upon completion, students should be able to identify, notate, and analyze an array of chromatic chords, recognize the function and movement of chromatic harmonies, identify modulatory procedures, analyze formal structures including, but not limited to, binary, ternary, sonata, and rondo. (2018 FA) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

MUSIC THEORY IV

MUS-222 Music Theory IV 3 (3-0) Spring
Prerequisites: MUS-221^S
Corequisites:

This course provides an advanced study of chromatic harmony, scale systems, and an introduction to twentieth-century music. Emphasis is placed on advanced part writing and analysis of chromatic harmony and basic twentieth-century compositional and analytical techniques. Upon completion, students should be able to analyze complex chord progressions, advanced modulations, and elemental serial procedures; build an array of synthetic scales; and identify characteristics of twentieth-century topics including, but not limited to, atonality, serialism, minimalism, indeterminacy, and electronic music. (2018 FA) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

MYTH IN HUMAN CULTURE

HUM-130 **Myth in Human Culture** **3 (3-0)** **Summer
Spring
Fall**

Prerequisites: ENG-025^L

Corequisites:

This course provides an in-depth study of myths and legends. Topics include the varied sources of myths and their influence on the individual and society within diverse cultural contexts. Upon completion, students should be able to demonstrate a general familiarity with myths and a broad-based understanding of the influence of myths and legends on modern culture. (1997 SU) This course has been approved to satisfy the following requirement(s): | Humanities/Fine Arts Gen. Ed. course for A.A., A.A. Teacher Preparation and A.S. | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

NEONATAL/PED'S CONCEPTS

RCP-213 **Neonatal/Ped's Concepts** **2 (2-0)** **Fall**

Prerequisites: RCP-111^S

Corequisites:

This course provides comprehensive coverage of the concepts of neonatal and pediatric respiratory care. Emphasis is placed on pathophysiology, patient assessment and special therapeutic needs of neonates and children based on evidence-based medicine protocols and clinical practice guidelines. Upon completion, students should be able to demonstrate competence in the neonatal and pediatric respiratory care concepts through written evaluations. (2017 FA)

NETWORK & SEC FOUNDATIONS

CTI-120 **Network & Sec Foundations** **3 (2-2)** **Fall**

Prerequisites:

Corequisites:

This course introduces students to the Network concepts, including networking terminology and protocols, local and wide area networks, and network standards. Emphasis is placed on securing information systems and the various implementation policies. Upon completion, students should be able to perform basic tasks related to networking mathematics, terminology, media and protocols. (2025 FA)

NON-STRUCTURAL DAMAGE I

AUB-121 **Non-Structural Damage I** **3 (1-4)** **Fall**

Prerequisites:

Corequisites:

This course introduces safety, tools, and the basic fundamentals of body repair. Topics include shop safety, damage analysis, tools and equipment, repair techniques, materials selection, materials usage, and other related topics. Upon completion, students should be able to identify and repair minor direct and indirect damage including removal/repairing/replacing of body panels to accepted standards. (1997 SU)

NON-STRUCTURAL DAMAGE II

AUB-122 Non-Structural Damage II 4 (2-6) Spring

Prerequisites:

Corequisites:

This course covers safety, tools, and advanced body repair. Topics include shop safety, damage analysis, tools and equipment, advanced repair techniques, materials selection, materials usage, movable glass, and other related topics. Upon completion, students should be able to identify and repair or replace direct and indirect damage to accepted standards including movable glass and hardware. (1997 SU)

NURSE AIDE I

**NAS-111 Nurse Aide I 6 (3-4-3) Spring
Summer
Fall**

Prerequisites:

Corequisites:

This course includes basic nursing skills required to provide safe, competent personal care for individuals. Emphasis is placed on person-centered care, the aging process, communication, safety/emergencies, infection prevention, legal and ethical issues, vital signs, height and weight measurements, elimination, nutrition, basic restorative care/rehabilitation, dementia, mental health and end-of-life care. Upon completion, students should be able to demonstrate knowledge and skills and be eligible to test for listing on the North Carolina Nurse Aide I Registry. (2025 FA)

NURSE AIDE II

**NAS-112 Nurse Aide II 6 (3-2-6) Spring
Fall**

Prerequisites: NAS-111^S

Corequisites:

This course provides training in Nurse Aide II tasks. Emphasis is placed on the role of the Nurse Aide II, sterile technique and specific tasks such as urinary catheterization, wound care, respiratory procedures, ostomy care, peripheral IV assistive activities, and alternative feeding methods. Upon completion, students should be able to demonstrate knowledge and skills and safe performance of skills necessary to be eligible for listing on the North Carolina Nurse Aide II Registry. (2025 FA)

NURSERY PRODUCTION

HOR-225 Nursery Production 3 (2-2) Spring

Prerequisites: HOR-168^L

Corequisites:

This course covers all aspects of nursery crop production. Emphasis is placed on field production and covers soils, nutrition, irrigation, pest control, and harvesting. Upon completion, students should be able to produce a marketable nursery crop. (2009 SP)

NUTRITION

BIO-155 **Nutrition** **3 (3-0)** **Summer
Spring
Fall**

Prerequisites: ENG-025^L

Corequisites:

This course covers the biochemistry of foods and nutrients with consideration of the physiological effects of specialized diets for specific biological needs. Topics include cultural, religious, and economic factors that influence a person's acceptance of food, as well as nutrient requirements of the various life stages. Upon completion, students should be able to identify the functions and sources of nutrients, the mechanisms of digestion, and the nutritional requirements of all age groups. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

NUTRITION FOR FOODSERVICE

CUL-112 **Nutrition for Foodservice** **3 (3-0)** **Spring**

Prerequisites:

Corequisites:

This course covers the principles of nutrition and its relationship to the foodservice industry. Topics include personal nutrition fundamentals, weight management, exercise, nutritional adaptation/analysis of recipes/menus, healthy cooking techniques and marketing nutrition in a foodservice operation. Upon completion, students should be able to apply basic nutritional concepts to food preparation and selection. (2011 FA)

OFFICE APPLICATIONS I

OST-137 **Office Applications I** **3 (2-2)** **Summer**

Prerequisites:

Corequisites:

This course introduces the concepts and functions of software that meets the changing needs of the office environment through a hands-on approach. Emphasis will be placed on creating professional documents to enhance employability in various offices. Upon completion, students should be prepared to take a nationally accredited certification exam.(2025 FA)

OFFICE APPLICATIONS II

OST-138 **Office Applications II** **3 (2-2)** **Fall**

Prerequisites:

Corequisites:

This course is designed to improve utilization and proficiency of software applications used in offices through a hands-on approach. Topics include mastery of the skills required to design documents that can be customized using the latest software applications. Upon completion, students should be prepared to take a nationally accredited certification exam.(2025 FA)

OFFICE EDITING

OST-164 **Office Editing** **3 (3-0)** **Spring
Fall**

Prerequisites:**Corequisites:**

This course provides an in-depth exploration of editing skills essential for the office. Emphasis is placed on grammar, punctuation, sentence structure, proofreading, and editing. Upon completion, students should be able to proficiently compose and edit text and documents for the workplace.(2025 FA)

OFFICE INFORMATION MANAGEMENT

OST-184 **Office Information Management** **3 (2-2)** **Spring**

Prerequisites:**Corequisites:**

This course includes the creation, maintenance, protection, security, and disposition of records stored in various media. Topics include alphabetic, geographic, subject, and numeric filing methods, along with database management principles. Upon completion, students should be able to set up and maintain effective information management systems.(2025 FA)

ORCHESTRA I

MUS-137 **Orchestra I** **1 (0-2)** **Fall**

Prerequisites:**Corequisites:**

This course provides an opportunity for those who play an orchestral instrument to gain experience playing in an ensemble. Emphasis is placed on orchestral techniques and the study and performance of a variety of styles and periods of orchestral and string ensemble literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

ORCHESTRA II

MUS-138 **Orchestra II** **1 (0-2)** **Spring**

Prerequisites: MUS-137^S

Corequisites:

This course is a continuation of MUS 137. Emphasis is placed on orchestral techniques and the study and performance of a variety of styles and periods of orchestral and string ensemble literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

ORCHESTRA III

MUS-237 **Orchestra III** **1 (0-2)** **Spring
Fall**

Prerequisites: MUS-138^S

Corequisites:

This course is a continuation of MUS 138. Emphasis is placed on orchestral techniques and the study and performance of a variety of styles and periods of orchestral and string ensemble literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

ORCHESTRA IV

MUS-238 **Orchestra IV** **1 (0-2)** **Spring
Fall**

Prerequisites: MUS-237^S

Corequisites:

This course is a continuation of MUS 237. Emphasis is placed on orchestral techniques and the study and performance of a variety of styles and periods of orchestral and string ensemble literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

ORG BEHAVIOR IN BUSINESS

BUS-255 **Org Behavior in Business** **3 (3-0)** **Spring
Fall**

Prerequisites: ENG-025^L

Corequisites:

This course covers the impact of different management practices and leadership styles on worker satisfaction and morale, organizational effectiveness, productivity, and profitability. Topics include a discussion of formal and informal organizations, group dynamics, motivation, and managing conflict and change. Upon completion, students should be able to analyze different types of interpersonal situations and determine an appropriate course of action. (1997 SU)

ORGANIC CHEMISTRY I

CHM-251 **Organic Chemistry I** **4 (3-3)** **Fall**

Prerequisites: CHM-152^S; Minimum grade CL;

Corequisites:

This course provides a systematic study of the theories, principles, and techniques of organic chemistry. Topics include nomenclature, structure, properties, reactions, and mechanisms of hydrocarbons, alkyl halides, alcohols, and ethers; further topics include isomerization, stereochemistry, and spectroscopy. Upon completion, students should be able to demonstrate an understanding of the fundamental concepts of covered organic topics as needed in CHM 252. (1997 SU)

ORGANIC CHEMISTRY II

CHM-252 **Organic Chemistry II** **4 (3-3)** **Spring**

Prerequisites: CHM-251^S; Minimum grade CL;

Corequisites:

This course provides continuation of the systematic study of the theories, principles, and techniques of organic chemistry. Topics include nomenclature, structure, properties, reactions, and mechanisms of aromatics, aldehydes, ketones, carboxylic acids and derivatives, amines and heterocyclics; multi-step synthesis will be emphasized. Upon completion, students should be able to demonstrate an understanding of organic concepts as needed to pursue further study in chemistry and related professional fields. (1997 SU)

OUTCOME-BASED MASSAGE

MTH-220 **Outcome-Based Massage** **7 (4-6-3)** **Spring**

Prerequisites: MTH-120^S

Corequisites: WBL-111^L

This course provides knowledge and skills in more complex body works modalities in a variety of clinical settings. Emphasis is placed on developing advanced skills in outcome-based Massage. Upon completion, students should be able to perform basic skills in techniques covered. (2008 SP)

OXY-FUEL WELDING

WLD-111 **Oxy-Fuel Welding** **2 (1-3)** **AND**

Prerequisites:

Corequisites:

This course introduces the oxy-fuel welding process. Topics include safety, proper equipment setup, and operation of oxy-fuel welding equipment with emphasis on bead application, profile, and discontinuities. Upon completion, students should be able to oxy-fuel weld fillets and grooves on plate and pipe in various positions. (1997 SU)

PAINTING & REFINISHING I

AUB-111 **Painting & Refinishing I** **4 (2-6)** **Fall**

Prerequisites:

Corequisites:

This course introduces the proper procedures for using automotive refinishing equipment and materials in surface preparation and application. Topics include federal, state, and local regulations, personal safety, refinishing equipment and materials, surface preparation, masking, application techniques, and other related topics. Upon completion, students should be able to identify and use proper equipment and materials in refinishing following accepted industry standards. (1997 SU)

PAINTING & REFINISHING II

AUB-112 **Painting & Refinishing II** **4 (2-6)** **Spring**
Prerequisites: AUB-111^S

Corequisites:

This course covers advanced painting techniques and technologies with an emphasis on identifying problems encountered by the refinishing technician. Topics include materials application, color matching, correction of refinishing problems, and other related topics. Upon completion, students should be able to perform spot, panel, and overall refinishing repairs and identify and correct refinish problems. (1997 SU)

PAINTING I

ART-240 **Painting I** **3 (0-6)** **Spring
Fall**

Prerequisites:

Corequisites:

This course introduces the language of painting and the use of various painting materials. Emphasis is placed on the understanding and use of various painting techniques, media, and color principles. Upon completion, students should be able to demonstrate competence in the use of creative processes directed toward the development of expressive form. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S. | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

PAINTING II

ART-241 **Painting II** **3 (0-6)** **Spring
Fall**

Prerequisites: ART-240^S

Corequisites:

This course provides a continuing investigation of the materials, processes, and techniques of painting. Emphasis is placed on the exploration of expressive content using a variety of creative processes. Upon completion, students should be able to demonstrate competence in the expanded use of form and variety. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S. | Humanities/Fine Arts Gen. Ed. course for A.G.E.

PATIENTS W/ SPECIAL CHALLENGES

EMS-240 **Patients W/ Special Challenges** **2 (1-2)** **Fall**
Prerequisites: EMS-122^S, EMS-130^S

Corequisites:

This course includes concepts of crisis intervention and techniques of interacting with patients with special challenges and is required for paramedic certification. Topics include appropriate intervention and interaction for neglected, abused, terminally ill, chronically ill, technology assisted, bariatric, physically challenged, mentally challenged, or assaulted patients as well as behavioral emergencies. Upon completion, students should be able to recognize and manage the care of patients with special challenges. (2014 SP)

PAYROLL ACCOUNTING

ACC-140 **Payroll Accounting** **2 (1-3)** **Spring
Fall**

Prerequisites: ACC-115^S or ACC-120^S

Corequisites:

This course covers federal and state laws pertaining to wages, payroll taxes, payroll tax forms, and journal and general ledger transactions. Emphasis is placed on computing wages; calculating social security, income, and unemployment taxes; preparing appropriate payroll tax forms; and journalizing/posting transactions. Upon completion, students should be able to analyze data, make appropriate computations, complete forms, and prepare accounting entries using appropriate technology. (2018 FA)

PEOPLE SKILLS

BUS-151 **People Skills** **3 (3-0)** **Spring
Fall**

Prerequisites:

Corequisites:

This course introduces the basic concepts of identity and communication in the business setting. Topics include self-concept, values, communication styles, feelings and emotions, roles versus relationships, and basic assertiveness, listening, and conflict resolution. Upon completion, students should be able to distinguish between unhealthy, self-destructive, communication patterns and healthy, non-destructive, positive communication patterns. (1997 SU)

PERIOP PATIENT CARE

SUR-111 **Periop Patient Care** **7 (5-6)** **Fall**

Prerequisites:

Corequisites: SUR-110^S

This course provides the surgical technology student the theoretical knowledge required to function in the pre-operative, intra-operative, and post-operative role. Topics include asepsis, disinfection and sterilization, physical environment, instrumentation, equipment, peri-operative patient care, and peri-operative case management. Upon completion, students should be able to apply the principles and practice of the peri-operative team member to the operative environment. (2012 SP)

PERSONAL FINANCE

BUS-125 **Personal Finance** **3 (3-0)** **Spring
Fall**

Prerequisites: ENG-025^L

Corequisites:

This course provides a study of individual and family financial decisions. Emphasis is placed on building useful skills in buying, managing finances, increasing resources, and coping with current economic conditions. Upon completion, students should be able to develop a personal financial plan. (1997 SU)

PERSONAL TRAINING

HFS-210 **Personal Training** **3 (2-2)** **Spring**
Prerequisites: HFS-110^S, HFS-111^S

Corequisites:

This course introduces the student to the aspects of personal (one-on-one) training. Topics include training systems, marketing, and program development. Upon completion, students should be able to demonstrate personal training techniques and competencies of same. (2017 FA)

PETIT FOURS & PASTRIES

BPA-120 **Petit Fours & Pastries** **3 (1-4)** **Fall**
Prerequisites: CUL-110^S CUL-160^S

Corequisites:

This course introduces the basic principles of the preparation and plating of a variety of petit fours and individual dessert pastries. Emphasis is placed on traditional and contemporary petit fours and pastries utilizing updated production methods. Upon completion, students should be able to produce individual pastries and petit fours for buffet and special event settings. (2011 FA)

PHARMACOLOGY

EMS-130 **Pharmacology** **4 (3-3)** **Spring**
Prerequisites: EMS-110^S

Corequisites:

This course introduces the fundamental principles of pharmacology and medication administration and is required for paramedic certification. Topics include medical terminology, pharmacological concepts, weights, measures, drug calculations, vascular access for fluids and medication administration and legislation. Upon completion, students should be able to accurately calculate drug dosages, properly administer medications, and demonstrate general knowledge of pharmacology. (2019 SP)

PHILOSOPHICAL ISSUES

PHI-215 **Philosophical Issues** **3 (3-0)** **Summer
Spring
Fall**

Prerequisites: ENG-111^S

Corequisites:

This course introduces fundamental issues in philosophy considering the views of classical and contemporary philosophers. Emphasis is placed on knowledge and belief, appearance and reality, determinism and free will, faith and reason, and justice and inequality. Upon completion, students should be able to identify, analyze, and critically evaluate the philosophical components of an issue. (2014 FA) This course has been approved to satisfy the following requirement(s):
 | UGETC course for A.A., A.A. Teacher Preparation, A.E., A.F.A., A.S. and A.S. Teacher Preparation | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

PHYSICAL FITNESS I

PED-111 **Physical Fitness I** **1 (0-3)** **AND**

Prerequisites:

Corequisites:

This course provides an individualized approach to physical fitness utilizing the five major components. Emphasis is placed on the scientific basis for setting up and engaging in personalized physical fitness programs. Upon completion, students should be able to set up and implement an individualized physical fitness program. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

PHYSICAL FITNESS II

PED-112 **Physical Fitness II** **1 (0-3)** **AND**

Prerequisites: PED-111^S

Corequisites:

This course is an intermediate-level fitness class. Topics include specific exercises contributing to fitness and the role exercise plays in developing body systems. Upon completion, students should be able to implement and evaluate an individualized physical fitness program. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

PHYSICS-MECHANICS

PHY-131 **Physics-Mechanics** **4 (3-2)** **Summer**

Prerequisites: MAT-121^S or MAT-171^S

Corequisites:

This algebra/trigonometry-based course introduces fundamental physical concepts as applied to engineering technology fields. Topics include systems of units, problem-solving methods, graphical analysis, vectors, motion, forces, Newton's laws of motion, work, energy, power, momentum, and properties of matter. Upon completion, students should be able to apply the principles studied to applications in engineering technology fields. (2014 FA) This course has been approved to satisfy the following requirement(s): | Natural Science Gen. Ed. course for A.G.E.

PICKLEBALL

PED-157 **Pickleball** **1 (0-2)** **AND**

Prerequisites:

Corequisites:

This course covers the fundamentals of pickleball. Emphasis is placed on the basics of serving, ground strokes (drives, drops, dinks, punches, and lobs), overhead strokes (smashes and slams), and the rules and strategies of singles and doubles play. Upon completion, students should be able to apply these skills in pickleball playing situations. (2017 FA) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

PILATES I

PED-217 Pilates I 1 (0-2) AND

Prerequisites:

Corequisites:

This course provides an introduction to the pilates method of body conditioning exercise. Topics include instruction in beginning and intermediate pilates exercises using a mat or equipment, history of pilates method, and relevant anatomy and physiology. Upon completion, students should be able to perform beginning and intermediate exercises, and possess an understanding of the benefits of conditioning the body's core muscles. (2005 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

PILATES II

PED-218 Pilates II 1 (0-2) AND

Prerequisites: PED-217^S

Corequisites:

This course provides continued instruction to the pilates method of body conditioning exercise. Topics include instruction in intermediate and advanced pilates exercises using a mat or equipment, relevant anatomy and physiology, and further discussion of related concepts. Upon completion, students should be able to perform intermediate and advanced exercises, and possess the autonomy to maintain their own personal pilates practice. (2005 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

PLANNING/ESTIMATING I

CST-241 Planning/Estimating I 3 (2-2) Spring

Prerequisites: BPR-130^S, MAT-121^S or MAT-171^S

Corequisites:

This course covers the procedures involved in planning and estimating a construction/building project. Topics include Construction Specifications Institute (CSI) MasterFormat and performing quantity takeoffs of materials required for a building project. Upon completion, students should be able to accurately complete a take-off of materials and equipment needs involved in a construction project. (2025 FA)

PLANT MATERIALS I

HOR-160 Plant Materials I 3 (2-2) Fall

Prerequisites:

Corequisites:

This course covers identification, culture, characteristics, and use of plants in a sustainable landscape. Emphasis is placed on nomenclature, identification, growth requirements, cultural requirements, soil preferences, and landscape applications. Upon completion, students should be able to demonstrate knowledge of the proper selection and utilization of plant materials, including natives and invasive plants. (2013 FA)

PLANT MATERIALS II

HOR-161 **Plant Materials II** **3 (2-2)** **Spring**

Prerequisites: HOR-160^L

Corequisites:

This course provides a supplementary opportunity to cover identification, culture, characteristics, and use of plants in a sustainable landscape, giving students a broader knowledge of available landscape plants for utilization in landscapes and plant production. Emphasis is placed on nomenclature, identification, growth requirements, cultural requirements, soil preferences, landscape applications and expansion of the plant palette. Upon completion, students should be able to demonstrate knowledge of the proper selection and utilization of plant materials, including natives and invasive plants. (2015 FA)

PLANT PROPAGATION

HOR-168 **Plant Propagation** **3 (2-2)** **Fall**

Prerequisites:

Corequisites:

This course is a study of sexual and asexual reproduction of plants. Emphasis is placed on seed propagation, grafting, stem and root propagation, micro-propagation, and other propagation techniques. Upon completion, students should be able to successfully propagate ornamental plants. (1997 SU)

PLASTICS & ADHESIVES

AUB-136 **Plastics & Adhesives** **3 (1-4)** **Summer**

Prerequisites:

Corequisites:

This course covers safety, plastic and adhesive identification, and the various repair methods of automotive plastic components. Topics include safety, identification, preparation, material selection, and the various repair procedures including refinishing. Upon completion, students should be able to identify, remove, repair, and/or replace automotive plastic components in accordance with industry standards. (1997 SU)

PLAY PRODUCTION I

DRA-170 **Play Production I** **3 (0-9)** **Spring**

Prerequisites:

Corequisites:

This course provides an applied laboratory study of the processes involved in the production of a play. Topics include fundamental practices, principles, and techniques associated with producing plays of various periods and styles. Upon completion, students should be able to participate in an assigned position with a college theatre production. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

PLAY PRODUCTION II

DRA-171 **Play Production II** **3 (0-9)** **Spring
Fall**

Prerequisites: DRA-170^S

Corequisites:

This course provides an applied laboratory study of the processes involved in the production of a play. Topics include fundamental practices, principles, and techniques associated with producing plays of various periods and styles. Upon completion, students should be able to participate in an assigned position with a college theatre production. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

PLAY PRODUCTION III

DRA-270 **Play Production III** **3 (0-9)** **AND**

Prerequisites: DRA-171^S

Corequisites:

This course provides an applied laboratory study of the processes involved in the production of a play. Topics include fundamental practices, principles, and techniques associated with producing plays of various periods and styles. Upon completion, students should be able to participate in an assigned position with a college theatre production. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

PLAY PRODUCTION IV

DRA-271 **Play Production IV** **3 (0-9)** **AND**

Prerequisites: DRA-270^S

Corequisites:

This course provides an applied laboratory study of the processes involved in the production of a play. Topics include fundamental practices, principles, and techniques associated with producing plays of various periods and styles. Upon completion, students should be able to participate in an assigned position with a college theatre production. (1997 SU) This course has been approved to satisfy the following requirement(s): Premajor and/or Elective course for A.A. and A.S.

PORTFOLIO AND RESUME

ART-214 **Portfolio and Resume** **1 (0-2)** **Spring**

Prerequisites:

Corequisites:

This course covers resume writing, interview skills, and the preparation and presentation of an art portfolio. Emphasis is placed on the preparation of a portfolio of original artwork, the preparation of a photographic portfolio, approaches to resume writing, and interview techniques. Upon completion, students should be able to photograph and present a digital portfolio and write an effective resume. (2018 FA) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

POWERTRAIN MAINT/LIGHT REPAIR

TRN-112 **Powertrain Maint/Light Repair** **4 (2-6)** **Fall**
Prerequisites: AUT-116^L

Corequisites:

This course covers maintenance and light repair of transportation engines, automatic and manual transmission/transaxles, engine performance systems, and HVAC systems. Topics include general servicing and inspection procedures of engines, engine lubrication and cooling systems, automatic and manual transmission/transaxles, HVAC components, and fuel, air induction, and exhaust systems. Upon completion, students should be able to perform maintenance and light repair of transportation engines, automatic and manual transmission/transaxles, engine performance systems, and HVAC systems. (2015 SU)

PRACTICES IN BOOKKEEPING

ACC-180 **Practices in Bookkeeping** **3 (3-0)** **Spring**
Fall

Prerequisites: ACC-120^S

Corequisites:

This course provides advanced instruction in bookkeeping and record-keeping functions. Emphasis is placed on mastering adjusting entries, correction of errors, depreciation, payroll, and inventory. Upon completion, students should be able to conduct all key bookkeeping functions for small businesses. (2003 FA)

PRECALCULUS ALGEBRA

MAT-171	Precalculus Algebra	4 (3-2)	Fall Spring Summer
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Prerequisites: MAT-035^L or MAT-121^L; Minimum grade C

Corequisites:

This course is designed to develop topics which are fundamental to the study of Calculus. Emphasis is placed on solving equations and inequalities, solving systems of equations and inequalities, and analysis of functions (absolute value, radical, polynomial, rational, exponential, and logarithmic) in multiple representations. Upon completion, students should be able to select and use appropriate models and techniques for finding solutions to algebra-related problems with and without technology. (2025 SP) This course has been approved to satisfy the following requirement(s): | UGETC course for A.A., A.A. Teacher Preparation, A.F.A. (visual arts and theatre), A.S. and A.S. Teacher Preparation | Mathematics Gen. Ed. course for A.A.S. and A.G.E. | A student may place directly into MAT 171 if the student has met at least one (1) of the following criteria within the past five (5) years: A score of 2 or higher on the AP Calculus AB Exam. A grade of C or higher in an AP Calculus course and an unweighted HS GPA of 3.0 or higher. A score of 90 or higher on the ACCUPLACER College-Level Math (CLM) test. A score of 46 or higher on the trigonometry section of the ACT Compass Math Placement Test. A score of 580 or higher on the old (prior to March 2016) SAT Math and a grade of C or higher in the North Carolina Standard Course of Study Pre-Calculus course or an equivalent course from another state. A score of 27 or higher on the ACT Math and a grade of C or higher in the North Carolina Standard Course of Study Pre-Calculus course or an equivalent course from another state. A score of 560 or higher on the SAT Subject Test in Mathematics Level 2. Local diagnostic exam or challenge exam which demonstrates proficiency in Pre-Calculus course(s) competencies. An unweighted HS GPA of 3.5 or higher and a grade of C or higher in the North Carolina Standard Course of Study Pre-Calculus course or an equivalent course from another state.

PRECALCULUS TRIGONOMETRY

MAT-172	Precalculus Trigonometry	4 (3-2)	Fall Spring Summer
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Prerequisites: MAT-171^S; Minimum grade C;

Corequisites:

This course is designed to develop an understanding of topics which are fundamental to the study of Calculus. Emphasis is placed on the analysis of trigonometric functions in multiple representations, right and oblique triangles, vectors, polar coordinates, conic sections, and parametric equations. Upon completion, students should be able to select and use appropriate models and techniques for finding solutions to trigonometry-related problems with and without technology. (2014 FA) This course has been approved to satisfy the following requirement(s): | UGETC course for A.S. and A.S. Teacher Preparation | Mathematics Gen. Ed. course for A.A. and A.A. Teacher Preparation. | A student may place directly into MAT 172 if the student has met at least one (1) of the following criteria within the past five (5) years: Local diagnostic exam or challenge exam which demonstrates proficiency in Pre-Calculus Algebra competencies. An unweighted HS GPA of 3.5 or higher and a grade of C or higher in the North Carolina Standard Course of Study Pre-Calculus course or an equivalent course from another state. A score of 2 or higher on the AP Calculus AB Exam. A grade of C or higher in an AP Calculus course and an unweighted HS GPA of 3.0 or higher. A score of 600 or higher on the SAT Math and a grade of C or higher in the North Carolina Standard Course of Study Pre-Calculus course or an equivalent course from another state. A score of 24 or higher on the ACT Math and a grade of C or higher in the North Carolina Standard Course of Study Pre-Calculus course or an equivalent course from another state.

PRIN OF FINANCIAL ACCOUNTING

ACC-120	Prin of Financial Accounting	4 (3-2)	Summer Spring Fall
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Prerequisites: ENG-025^L; MAT-025^L

Corequisites:

This course introduces business decision-making using accounting information systems. Emphasis is placed on analyzing, summarizing, reporting, and interpreting financial information. Upon completion, students should be able to prepare financial statements, understand the role of financial information in decision-making and address ethical considerations. (2003FA) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

PRIN OF MACROECONOMICS

ECO-252 **Prin of Macroeconomics** **3 (3-0)** **Spring
Fall**

Prerequisites: ENG-025^L; MAT-025^L or MAT-035^L

Corequisites:

This course introduces economic analysis of aggregate employment, income, and prices. Topics include major schools of economic thought; aggregate supply and demand; economic measures, fluctuations, and growth; money and banking; stabilization techniques; and international trade. Upon completion, students should be able to evaluate national economic components, conditions, and alternatives for achieving socioeconomic goals. (1997 SU) This course has been approved to satisfy the following requirement(s): | UGETC course for A.A., A.A. Teacher Preparation, A.F.A., A.S., and A.S. Teacher Preparation | Other Gen. Ed. and Premajor Elective course for A.E. | Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

PRIN OF MANAGERIAL ACCOUNTING

ACC-121 **Prin of Managerial Accounting** **4 (3-2)** **Summer
Spring
Fall**

Prerequisites: ACC-120^S

Corequisites:

This course includes a greater emphasis on managerial and cost accounting skills. Emphasis is placed on managerial accounting concepts for external and internal analysis, reporting and decision-making. Upon completion, students should be able to analyze and interpret transactions relating to managerial concepts including product-costing systems. (2003 FA) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

PRIN OF MICROECONOMICS

ECO-251 **Prin of Microeconomics** **3 (3-0)** **Summer
Spring
Fall**

Prerequisites: ENG-025^L; MAT-025^L or MAT-035^L

Corequisites:

This course introduces economic analysis of individual, business, and industry in the market economy. Topics include the price mechanism, supply and demand, optimizing economic behavior, costs and revenue, market structures, factor markets, income distribution, market failure, and government intervention. Upon completion, students should be able to identify and evaluate consumer and business alternatives in order to efficiently achieve economic objectives. (1997 SU) This course has been approved to satisfy the following requirement(s): | UGETC course for A.A., A.A. Teacher Preparation, A.F.A., A.E., A.S., and A.S. Teacher Preparation | Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

PRIVATE PILOT FLIGHT SIMULATOR

AER-116 Private Pilot Flight Simulator 2 (1-2) AND

Prerequisites:

Corequisites:

This course provides classroom and hands-on simulator training needed to support FAA Private Pilot Certificate qualification requirements. Topics include introduction to checklists, flight procedures, radio procedures, ground and flight maneuvers that include; take-offs, climbs, level flight, turns, glides, stalls, slow flight, descents, slips, landings, emergency procedures, cross country planning, and navigation. Upon completion, students should be able to log their simulator training time, transition to Private Pilot training in an actual aircraft, and successfully meet all FAA requirements for Private Pilot Certification. (2023 FA)

PRIVATE PILOT FLT THEORY

**AER-150 Private Pilot Flt Theory 3 (2-2) Spring
Fall**

Prerequisites:

Corequisites:

This course covers the aeronautical knowledge required to meet the Federal Aviation Administration regulations for private pilot certification. Topics include the principles of flight, the flight environment, basic aircraft systems and performance, basic meteorology and weather data interpretation, and FAA regulations. Upon completion, students should be able to demonstrate the competencies required for the FAA written examination for a private pilot certificate. (1997 SU)

PROCEDURE CODING

**OST-247 Procedure Coding 3 (2-2) Spring
Fall**

Prerequisites: MED-121^S or OST-141^S; OST-148^L

Corequisites:

This course provides in-depth coverage of procedural coding. Emphasis is placed on CPT and HCPCS coding systems. Upon completion, students should be able to properly code procedures and services performed in a medical facility. (2017 FA)

PROF RESEARCH & REPORTING

ENG-114 **Prof Research & Reporting** **3 (3-0)** **Summer
Spring
Fall**

Prerequisites: ENG-111^S

Corequisites:

This course, the second in a series of two, is designed to teach professional communication skills. Emphasis is placed on research, listening, critical reading and thinking, analysis, interpretation, and design used in oral and written presentations. Upon completion, students should be able to work individually and collaboratively to produce well-designed business and professional written and oral presentations. (1997 SU) This course has been approved to satisfy the following requirement(s): | English Composition Gen. Ed. course for A.A., A.A. Teacher Preparation, and A.S. | English Composition Gen. Ed. course for A.A.S. and A.G.E.

PROFESSIONAL DEVELOPMENT

OST-286 **Professional Development** **3 (3-0)** **Spring**

Prerequisites:

Corequisites:

This course covers the personal competencies and qualities needed to project a professional image in the office. Topics include interpersonal skills, health lifestyles, appearance, attitude, personal and professional growth, multicultural awareness, and professional etiquette. Upon completion, students should be able to demonstrate these attributes in the classroom, office, and society. (1999 FA)

PROFESSIONAL ISSUES

MLT-215 **Professional Issues** **1 (1-0)** **Spring**

Prerequisites:

Corequisites:

This course surveys professional issues in preparation for career entry. Emphasis is placed on work readiness and theoretical concepts in microbiology, immunohematology, hematology, and clinical chemistry. Upon completion, students should be able to demonstrate competence in career entry-level areas and be prepared for the national certification examination. (1997 SU)

PROFESSIONAL SUCCESS PREP

SUR-137 **Professional Success Prep** **1 (1-0)** **Summer**

Prerequisites:

Corequisites:

This course provides employability skills and an overview of theoretical knowledge in preparation for certification. Topics include test-taking strategies, resume preparation, interviewing strategies, communication skills, and teamwork concepts. Upon completion, students should be able to prepare a resume, demonstrate appropriate interview techniques, and identify strengths and weaknesses in preparation for certification. (2016 SU)

PROGRAMMING CAPSTONE PROJECT

CSC-289 Programming Capstone Project 3 (1-4) Spring

Prerequisites: CTS-115^S, CTI-110^S, CTI-120^S

Corequisites:

This course provides an opportunity to complete a significant programming project from the design phase through implementation with minimal instructor support. Emphasis is placed on project definition, testing, presentation, and implementation. Upon completion, students should be able to complete a project from the definition phase through implementation. (2016 FA)

PROJECT MANAGEMENT/ESTIMATING

CEG-235 Project Management/Estimating 3 (2-3) Spring

Prerequisites: CIS-110^S, CIS-111^S, CEG-115^S, EGR-115^S or EGR-125^S

Corequisites:

This course covers planning and estimating practices which are applicable to the civil engineering and related construction industries. Emphasis is placed on construction project planning and management, material take-offs labor and equipment requirements in accordance with industry formats, and other economic topics. Upon completion, students should be able to accurately complete material take-offs, prepare cost estimates, and prepare construction schedules. (2014 SU)

PSYCHOLOGY OF AGING

PSY-249 Psychology of Aging 3 (3-0) AND

Prerequisites: PSY-150^S

Corequisites:

This course covers the particular needs and behaviors of the maturing adult. Emphasis is placed on psychosocial processes; biological and intellectual aspects of aging; adjustments to retirement, dying, bereavement; and the stereotypes and misconceptions concerning the elderly. Upon completion, students should be able to show an understanding of the psychological factors related to the aging process. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S. | Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

PSYCHOLOGY OF PERSONALITY

**PSY-239 Psychology of Personality 3 (3-0) Spring
Fall**

Prerequisites: PSY-150^S

Corequisites:

This course covers major personality theories and personality research methods. Topics include psychoanalytic, behavioristic, social learning, cognitive, humanistic, and trait theories including supporting research. Upon completion, students should be able to compare and contrast traditional and contemporary approaches to the understanding of individual differences in human behavior. (1997 SU) This course has been approved to satisfy the following requirement(s): | Social/Behavioral Science Gen. Ed. course for A.A., A.A. Teacher Preparation and A.S. | Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

PUBLIC SPEAKING

COM-231 **Public Speaking** **3 (3-0)** **Summer
Spring
Fall**

Prerequisites:**Corequisites:**

This course provides instruction and experience in preparation and delivery of speeches within a public setting and group discussion. Emphasis is placed on research, preparation, delivery, and evaluation of informative, persuasive, and special occasion public speaking. Upon completion, students should be able to prepare and deliver well-organized speeches and participate in group discussion with appropriate audiovisual support. (1997 SU) This course has been approved to satisfy the following requirement(s): | UGETC course for A.A., A.A. Teacher Preparation, A.E., A.F.A., A.S., and A.S. Teacher Preparation | Communication course for A.A.S.

PURCHASING

CUL-120 **Purchasing** **2 (2-0)** **Spring**

Prerequisites:**Corequisites:**

This course covers purchasing for foodservice operations. Emphasis is placed on yield tests, procurement, negotiating, inventory control, product specification, purchasing ethics, vendor relationships, food product specifications and software applications. Upon completion, students should be able to apply effective purchasing techniques based on the end-use of the product. (2011 FA)

PVNT & CARE EXER INJURIES

HFS-116 **Pvnt & Care Exer Injuries** **3 (2-2)** **Spring**

Prerequisites: ENG-025^L

Corequisites:

This course provides information about the care and prevention of exercise injuries. Topics include proper procedures, prevention techniques, and on-site care of injuries. Upon completion, students should be able to demonstrate the knowledge and skills necessary to prevent and care for exercise related injuries. (2017 FA)

QUANTITATIVE LITERACY

MAT-143	Quantitative Literacy	3 (2-2)	Fall Spring Summer
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Prerequisites: MAT-025^L; ENG-025^L

Corequisites:

This course is designed to engage students in complex and realistic situations involving the mathematical phenomena of quantity, change and relationship, and uncertainty through project- and activity-based assessment. Emphasis is placed on authentic contexts which will introduce the concepts of numeracy, proportional reasoning, dimensional analysis, rates of growth, personal finance, consumer statistics, practical probabilities, and mathematics for citizenship. Upon completion, students should be able to utilize quantitative information as consumers and to make personal, professional, and civic decisions by decoding, interpreting, using, and communicating quantitative information found in modern media and encountered in everyday life. (2025 SP) This course has been approved to satisfy the following requirement(s): | UGETC course for A.A., A.A. Teacher Preparation, and A.F.A. | Mathematics Gen. Ed. course for A.S. and A.S. Teacher Preparation | Mathematics Gen. Ed. course for A.A.S. and A.G.E.

RAD CLINICAL ED I

RAD-151	RAD Clinical Ed I	2 (0-0-6)	Fall
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Prerequisites:

Corequisites: RAD-110^L, RAD-111^L

This course introduces patient management and basic radiographic procedures in the clinical setting. Emphasis is placed on mastering positioning of the chest and extremities, manipulating equipment, and applying principles of ALARA. Upon completion, students should be able to demonstrate successful completion of clinical objectives. (2022 SU)

RAD CLINICAL ED II

RAD-161	RAD Clinical Ed II	5 (0-0-15)	Spring
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Prerequisites: RAD-110^L, RAD-111^L, RAD-151^L

Corequisites: RAD-112^L, RAD-121^L

This course provides additional experience in patient management and in more complex radiographic procedures. Emphasis is placed on mastering positioning of the spine, pelvis, head and neck, and thorax and adapting procedures to meet patient variations. Upon completion, students should be able to demonstrate successful completion of clinical objectives. (2022 SU)

RAD CLINICAL ED III

RAD-171 RAD Clinical Ed III 3 (0-0-9) Summer

Prerequisites: RAD-112^L, RAD-121^L, RAD-161^L

Corequisites: RAD-122^L, RAD-141^L

This course provides experience in patient management specific to advanced radiographic procedures. Emphasis is placed on applying appropriate technical factors to all studies and transitioning to mastering positioning of advanced studies. Upon completion, students should be able to demonstrate successful completion of clinical objectives. (2022 SU)

RAD CLINICAL ED IV

**RAD-251 RAD Clinical Ed IV 7 Fall
(0-0-21)**

Prerequisites: RAD-122^L, RAD-141^L, RAD-171^L

Corequisites: RAD-211^L, RAD-231^L

This course provides the opportunity to continue mastering all basic radiographic procedures and to attain experience in advanced areas. Emphasis is placed on equipment operation, pathological recognition, pediatric and geriatric variations, and further awareness of radiation protection requirements. Upon completion, students should be able to demonstrate successful completion of clinical objectives. (2022 SU)

RAD CLINICAL ED V

**RAD-261 RAD Clinical Ed V 7 Spring
(0-0-21)**

Prerequisites: RAD-211^L, RAD-231^L, RAD-251^L

Corequisites: RAD-271^L

This course is designed to enhance expertise in all radiographic procedures, patient management, radiation protection, and image production and evaluation. Emphasis is placed on developing an autonomous approach to the diversity of clinical situations and successfully adapting to those procedures. Upon completion, students should be able to demonstrate successful completion of clinical objectives. (2022 SU)

RAD PROCEDURES I

RAD-111 RAD Procedures I 4 (3-3) Fall

Prerequisites:

Corequisites: RAD-110^L, RAD-151^L

This course provides the knowledge and skills necessary to perform standard radiographic procedures. Emphasis is placed on radiography of the chest, abdomen, extremities, bony thorax and pelvis. Upon completion, students should be able to demonstrate competence in these areas. (2017 FA)

RAD PROCEDURES II

RAD-112 **RAD Procedures II** **4 (3-3)** **Spring**

Prerequisites: RAD-110^L, RAD-111^L, RAD-151^L

Corequisites: RAD-121^L, RAD-161^L

This course provides the knowledge and skills necessary to perform standard radiographic procedures. Emphasis is placed on radiography of the skull, spine, and gastrointestinal, biliary, and urinary systems. Upon completion, students should be able to demonstrate competence in these areas. (2022 SU)

RAD PROCEDURES III

RAD-211 **RAD Procedures III** **3 (2-3)** **Fall**

Prerequisites: RAD-122^L, RAD-141^L, RAD-171^L

Corequisites: RAD-231^L, RAD-251^L

This course provides the knowledge and skills necessary to perform standard and specialty radiographic procedures. Emphasis is placed on radiographic specialty procedures, advanced imaging, radiographic pathology and image analysis. Upon completion, students should be able to demonstrate an understanding of these areas. (2022 SU)

RCP CLINICAL PRACTICE I

RCP-139 **RCP Clinical Practice I** **9** **Fall**

(0-0-27)

Prerequisites:

Corequisites: RCP-110^S

This course provides entry-level clinical experience. Emphasis is placed on therapeutic and diagnostic patient care. Upon completion, students should be able to demonstrate clinical competence in required performance evaluations. (1997 SU)

RCP CLINICAL PRACTICE II

RCP-149 **RCP Clinical Practice II** **9** **Spring**

(0-0-27)

Prerequisites: RCP-110^S

Corequisites: RCP-111^S

This course provides entry-level clinical experience. Emphasis is placed on therapeutic and diagnostic patient care. Upon completion, students should be able to demonstrate clinical competence in required performance evaluations. (1997 SU)

RCP PHARMACOLOGY

RCP-113 **RCP Pharmacology** **2 (2-0)** **Spring**

Prerequisites:

Corequisites:

This course covers the drugs used in the treatment of cardiopulmonary diseases. Emphasis is placed on the uses, actions, indications, administration, and hazards of pharmacological agents. Upon completion, students should be able to demonstrate competence through written evaluations. (1997 SU)

RACE AND ETHNIC RELATIONS

SOC-230 **Race and Ethnic Relations** **3 (3-0)** **AND**

Prerequisites: ENG-025^L

Corequisites:

This course includes an examination of the various aspects of race and ethnicity and how these lead to different experiences, opportunities, problems, and contributions. Topics include prejudice, discrimination, perceptions, myths, stereotypes, and intergroup relationships. Upon completion, students should be able to identify and analyze relationships among racial and ethnic groups within the larger society. (1997 SU) This course has been approved to satisfy the following requirement(s): | Social/Behavioral Science Gen. Ed. course for A.A., A.A. Teacher Preparation and A.S. | Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

RAD INTRO & PATIENT CARE

RAD-110 **Rad Intro & Patient Care** **3 (2-3)** **Fall**

Prerequisites:

Corequisites: RAD-111^L, RAD-151^L

This course provides an overview of the radiography profession and student responsibilities. Emphasis is placed on basic principles of patient care, radiation protection, technical factors, and medical terminology. Upon completion, students should be able to demonstrate basic skills in these areas. (2022 SU)

RADIATION SAFETY

RAD-141 **Radiation Safety** **2 (2-0)** **Summer**

Prerequisites: RAD-112^L, RAD-121^L, RAD-161^L

Corequisites: RAD-122^L, RAD-171^L

This course covers the principles of radiation protection and radiobiology. Topics include the effects of ionizing radiation on body tissues, protective measures for limiting exposure to the patient and personnel, and radiation monitoring devices. Upon completion, students should be able to demonstrate an understanding of the effects and uses of radiation in diagnostic radiology. (2022 SU)

RADIOGRAPHY CAPSTONE

RAD-271 Radiography Capstone 3 (2-3) Spring

Prerequisites: RAD-211^L, RAD-231^L, RAD-251^L

Corequisites: RAD-261^L

This course provides an opportunity to exhibit problem-solving skills required for certification. Emphasis is placed on critical thinking and integration of didactic and clinical components. Upon completion, students should be able to demonstrate the knowledge required of an entry-level radiographer. (2022 SU)

REINFORCED CONCRETE

CIV-222 Reinforced Concrete 3 (2-3) Spring

Prerequisites: EGR-251^S

Corequisites:

This course introduces the basic elements of reinforced concrete structures. Topics include analysis and design of reinforced concrete beams, slabs, columns, footings, and retaining walls. Upon completion, students should be able to analyze and design components of a structure using reinforced concrete and draw simple plans using Computer Aided Drafting and Design software (CADD). (2013 FA)

RELIGION IN AMERICA

REL-221 Religion in America 3 (3-0) AND

Prerequisites:

Corequisites:

This course is an examination of religious beliefs and practice in the United States. Emphasis is placed on mainstream religious traditions and non-traditional religious movements from the Colonial period to the present. Upon completion, students should be able to recognize and appreciate the diversity of religious traditions in America. (1997 SU) This course has been approved to satisfy the following requirement(s): | Humanities/Fine Arts Gen. Ed. course for A.A., A.A. Teacher Preparation and A.S. | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

RESCUE SCENE MANAGEMENT

EMS-140 Rescue Scene Management 2 (1-3) Spring

Prerequisites:

Corequisites:

This course introduces rescue scene management. Topics include response to hazardous material conditions, incident command, and extrication of patients from a variety of situations. Upon completion, students should be able to recognize and manage rescue operations based upon initial and follow-up scene assessment. (2014 SP)

SQL SERVER DB PROG II

DBA-221 **SQL Server DB Prog II** **3 (2-2)** **Spring**
Prerequisites: DBA-120^S

Corequisites:

This course is designed to enhance programming skills developed in DBA 120. Topics include application development with GUI front-ends and embedded programming. Upon completion, students should be able to develop a SQL Server DBMS application which includes a GUI front-end and report generation. (2006 SP)

SUR CLINICAL PRACTICE II

SUR-135 **SUR Clinical Practice II** **4** **Summer**
(0-0-12)

Prerequisites: SUR-123^S

Corequisites: SUR-134^S

This course provides clinical experience with a variety of perioperative assignments to build skills required for complex perioperative patient care. Emphasis is placed on greater technical skills, critical thinking, speed, efficiency, and autonomy in the operative setting. Upon completion, students should be able to function in the role of an entry-level surgical technologist. (2010 FA)

SALON I

COS-112 **Salon I** **8 (0-24)** **Spring**
Fall

Prerequisites: ENG-025^L

Corequisites: COS-111^S

This course introduces basic salon services. Topics include scalp treatments, shampooing, rinsing, hair color, design, haircutting, permanent waving, pressing, relaxing, wigs, and other related topics. Upon completion, students should be able to safely and competently demonstrate salon services. (1997 SU)

SALON II

COS-114 **Salon II** **8 (0-24)** **Spring**
Fall

Prerequisites: COS-111^S; Minimum grade CL; and COS-112^S

Corequisites: COS-113^S

This course provides experience in a simulated salon setting. Topics include basic skin care, manicuring, nail application, scalp treatments, shampooing, rinsing, hair color, design, haircutting, chemical restructuring, pressing, wigs, and other related topics. Upon completion, students should be able to safely and competently demonstrate these salon services. (2016 FA)

SALON III

COS-116 **Salon III** **4 (0-12) Summer**

Prerequisites: COS-111^S; Minimum grade CL; and COS-112^S

Corequisites: COS-115^L

This course provides comprehensive experience in a simulated salon setting. Emphasis is placed on intermediate-level of skin care, manicuring, scalp treatments, shampooing, hair color, design, haircutting, chemical restructuring, pressing, and other related topics. Upon completion, students should be able to safely and competently demonstrate these salon services. (2016 FA)

SALON IV

COS-118 **Salon IV** **7 (0-21) Spring
Fall**

Prerequisites: COS-111^S; Minimum grade CL; and COS-112^S

Corequisites: COS-117^L

This course provides advanced experience in a simulated salon setting. Emphasis is placed on efficient and competent delivery of all salon services in preparation for the licensing examination and employment. Upon completion, students should be able to demonstrate competence in program requirements and the areas covered on the Cosmetology Licensing Examination and meet entry-level employment requirements. (2016 FA)

SANITATION & SAFETY

CUL-110 **Sanitation & Safety** **2 (2-0) Spring
Fall**

Prerequisites:

Corequisites:

This course introduces the basic principles of sanitation and safety relative to the hospitality industry. Topics include personal hygiene, sanitation and safety regulations, use and care of equipment, the principles of food-borne illness, and other related topics. Upon completion, students should be able to demonstrate an understanding of the content necessary for successful completion of a nationally recognized food/safety/sanitation exam. (2011 FA)

SANITATION & SAFETY LAB

CUL-110A **Sanitation & Safety Lab** **1 (0-2) Spring
Fall**

Prerequisites:

Corequisites: CUL-110^S

This course provides a laboratory experience for enhancing student skills in the basic principles of sanitation and safety. Emphasis is placed on personal hygiene, sanitation and safety regulations, use and care of equipment, the principles of food-borne illness, and other related topics. Upon completion, students should be able to demonstrate practical applications of sanitation and safety procedures in the hospitality industry. (2011 FA)

SCHOOL-AGE ACTIVITIES

EDU-235 School-Age Activities 3 (3-0) Fall

Prerequisites:

Corequisites:

This course introduces developmentally supportive, inclusive, and creative learning environments for school-age programs, focusing on diverse, equitable, and engaging experiences in art, music, movement, and dramatic play. Emphasis is placed on fostering divergent thinking, creative problem-solving, and integrating process-driven activities across academic subjects in both indoor and outdoor settings. Upon completion, students should be able to observe, analyze, design, adapt, and advocate for creative learning opportunities that reflect the cultural, linguistic, and ability diversity of school-age children, ensuring accessibility and meaningful engagement in developmentally appropriate and inclusive educational experiences.(2025 FA)

SCRIPT ANALYSIS

DRA-118 Script Analysis 3 (3-0) Fall

Prerequisites:

Corequisites:

This course provides a foundational study of the structure of plays for the theatre. Emphasis is placed on the study of plays from the earliest forms of theatre to the present, analyzed through elements of the dramatic text including character, action, genre, language, spectacle, structure, style and theme. Upon completion, students should be able to analyze plays for academic use, as well as for theatrical productions as actors, designers and/or directors.(2024 FA)

SCULPTURE I

ART-281 Sculpture I 3 (0-6) Fall

Prerequisites:

Corequisites:

This course provides an exploration of the creative and technical methods of sculpture with focus on the traditional processes. Emphasis is placed on developing basic skills as they pertain to three-dimensional expression in various media. Upon completion, students should be able to show competence in variety of sculptural approaches. (1999 FA) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

SECURITY ADMINISTRATION I

SEC-160 Security Administration I 3 (2-2) Spring

Prerequisites:

Corequisites:

This course provides an overview of security administration with an emphasis on designing secure network architectures. Topics include networking technologies, TCP/IP fundamentals, network protocols, traffic analysis, monitoring strategies, and established security best practices. Upon completion, students should be able to use advanced network analysis tools to monitor network traffic and develop security measures to safeguard against various threats.(2025 FA)

SOCIAL DIVERSITY

SOC-225 Social Diversity 3 (3-0) AND
Prerequisites: ENG-025^L

Corequisites:

This course provides a comparison of diverse roles, interests, opportunities, contributions, and experiences in social life. Topics include race, ethnicity, gender, sexual orientation, class, and religion. Upon completion, students should be able to analyze how cultural and ethnic differences evolve and how they affect personality development, values, and tolerance. (1997 SU) This course has been approved to satisfy the following requirement(s): | Social/Behavioral Science Gen. Ed. course for A.A. and A.S. | Social/Behavioral Science/Other Required Gen. Ed. course for A.A. Teacher Preparation and A.S. Teacher Preparation | Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

SOCIAL PROBLEMS

**SOC-220 Social Problems 3 (3-0) Summer
Spring
Fall**

Prerequisites: ENG-025^L

Corequisites:

This course provides an in-depth study of current social problems. Emphasis is placed on causes, consequences, and possible solutions to problems associated with families, schools, workplaces, communities, and the environment. Upon completion, students should be able to recognize, define, analyze, and propose solutions to these problems. (1997 SU) This course has been approved to satisfy the following requirement(s): | Social/Behavioral Science Gen. Ed. course for A.A., A.A. Teacher Preparation and A.S. | Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

SOCIAL PSYCHOLOGY

PSY-237 Social Psychology 3 (3-0) AND
Prerequisites: PSY-150^S or SOC-210^S

Corequisites:

This course introduces the study of individual behavior within social contexts. Topics include affiliation, attitude formation and change, conformity, altruism, aggression, attribution, interpersonal attraction, and group behavior. Upon completion, students should be able to demonstrate an understanding of the basic principles of social influences on behavior. (1997 SU) This course has been approved to satisfy the following requirement(s): | Social/Behavioral Science Gen. Ed. course for A.A., A.A. Teacher Preparation and A.S. | Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

SOCIOLOGY OF THE FAMILY

SOC-213 **Sociology of the Family** **3 (3-0)** **Summer
Spring
Fall**

Prerequisites: ENG-025^L

Corequisites:

This course covers the institution of the family and other intimate relationships. Emphasis is placed on mate selection, gender roles, sexuality, communication, power and conflict, parenthood, diverse lifestyles, divorce and remarriage, and economic issues. Upon completion, students should be able to analyze the family as a social institution and the social forces which influence its development and change. (1997 SU) This course has been approved to satisfy the following requirement(s): | Social/Behavioral Science Gen. Ed. course for A.A., A.A. Teacher Preparation and A.S. | Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

SOILS & FERTILIZERS

HOR-166 **Soils & Fertilizers** **3 (2-2)** **Spring**

Prerequisites:

Corequisites:

This course covers the physical and chemical properties of soils and soil fertility and management. Topics include soil formation; classification; physical, chemical, and biological properties (including microorganisms); testing; and fertilizer application. Upon completion, students should be able to analyze, evaluate, and properly amend soils/media according to sustainable practices. (2013 FA)

SOILS & SITE WORK

CST-231 **Soils & Site Work** **4 (3-2)** **Fall**

Prerequisites: MAT-121^S or MAT-171^S

Corequisites:

This course covers site conditions and soil types and their physical properties. Topics include site preparation, access, mechanical analysis, classification of soils, and hydrostatics of groundwater. Upon completion, students should be able to adequately prepare a building site according to plans and specifications. (2014 FA)

SOILS AND FOUNDATIONS

CIV-111 **Soils and Foundations** **4 (2-4)** **Fall**

Prerequisites: EGR-251^S

Corequisites:

This course presents an overview of soil as a construction material using both analysis and testing procedures. Topics include index properties, classification, stress analysis, compressibility, compaction, dewatering, excavation, stabilization, settlement, and foundations. Upon completion, students should be able to perform basic soil tests and analyze engineering properties of soil. (2013 FA)

SOUTHERN CULTURE

HUM-122 **Southern Culture** **3 (3-0)** **Summer
Spring
Fall**

Prerequisites: ENG-025^L

Corequisites:

This course explores the major qualities that make the South a distinct region. Topics include music, politics, literature, art, religion, race relations, and the role of social class in historical and contemporary contexts. Upon completion, students should be able to identify the characteristics that distinguish Southern culture.

(1997 SU) This course has been approved to satisfy the following requirement(s): | Humanities/Fine Arts Gen. Ed. course for A.A., A.A. Teacher Preparation and A.S. | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

SPECIAL CLIN MICROBIOLOGY

MLT-240 **Special Clin Microbiology** **3 (2-3)** **Spring**

Prerequisites: MLT-140^S

Corequisites:

This course is designed to introduce special techniques in clinical microbiology. Emphasis is placed on advanced areas in microbiology. Upon completion, students should be able to demonstrate theoretical comprehension in performing and interpreting specialized clinical microbiology procedures. (1997 SU)

SPECIAL FINISHES

AUB-114 **Special Finishes** **2 (1-2)** **Summer**

Prerequisites: AUB-111^S

Corequisites:

This course introduces multistage finishes, custom painting, and protective coatings. Topics include base coats, advanced intermediate coats, clear coats, and other related topics. Upon completion, students should be able to identify and apply specialized finishes based on accepted industry standards. (1997 SU)

SPORTS PSYCHOLOGY

PSY-271 **Sports Psychology** **3 (3-0)** **AND**

Prerequisites: PSY-150^S

Corequisites:

This course provides an overview of the field of sports and exercise psychology. Topics include concentration, goal setting, arousal level, exercise psychology, mental imagery, confidence, and other issues related to sport and exercise performance. Upon completion, students should be able to demonstrate a knowledge of psychological factors involved in sport and exercise. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S. | Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

SPRING GARDENING LAB

LSG-122 **Spring Gardening Lab** **2 (0-6)** **Spring**
Prerequisites: LSG-121^L

Corequisites:

This course provides familiarization with basic gardening techniques by performing practical hands-on exercises required for the spring season. Emphasis is placed on pruning, irrigation, planting, fertilizing, pest control, equipment operation, turf maintenance, and landscape construction. Upon completion, students should be able to satisfactorily perform various practices essential to maintaining the landscape in the spring season. (2001 FA)

STAGE MAKE-UP

DRA-145 **Stage Make-Up** **2 (1-2)** **Spring**
Prerequisites:

Corequisites:

This course covers the research, design, selection of materials, and application of stage make-up, prosthetics, wigs, and hairpieces. Emphasis is placed on the development of techniques, style, and presentation of the finished make-up. Upon completion, students should be able to create and apply make-up, prosthetics, and hairpieces. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

STAGECRAFT I

DRA-140 **Stagecraft I** **3 (0-6)** **Spring
Fall**

Prerequisites:

Corequisites:

This course introduces the theory and basic construction of stage scenery and properties. Topics include stage carpentry, scene painting, stage electrics, properties, and backstage organization. Upon completion, students should be able to pursue vocational and avocational roles in technical theatre. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

STAGECRAFT II

DRA-141 **Stagecraft II** **3 (0-6)** **Spring
Fall**

Prerequisites: DRA-140^S

Corequisites:

This course provides additional hands-on practice in the elements of stagecraft. Emphasis is placed on the design and implementation of the arts and crafts of technical theatre. Upon completion, students should be able to pursue vocational or avocational roles in technical theatre. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

STATICS

EGR-251 Statics 3 (2-2) Summer

Prerequisites:

Corequisites:

This course covers the concepts and principles of statics. Topics include systems of forces and moments on structures in two- and three-dimensions in equilibrium. Upon completion, students should be able to analyze forces and moments on structures. (2013 FA)

STATICS/STRUCTURES

CST-221 Statics/Structures 4 (3-3) Summer

Prerequisites: ARC-112^S or CST-112^S; MAT-110^S MAT-121^S or MAT-171^S

Corequisites:

This course covers the basic concepts of statics and strength of materials related to building structures. Topics include span charts, dimensional framing requirements, building forces on columns, beams, girders, and footings and connection points when timber, steel, and concrete members are used. Upon completion, students should be familiar with various load conditions present in structural members.(2025 FA)

STATISTICAL METHODS I

**MAT-152 Statistical Methods I 4 (3-2) Fall
Spring
Summer**

Prerequisites: MAT-025^L; ENG-025^L

Corequisites:

This course provides a project-based approach to introductory statistics with an emphasis on using real-world data and statistical literacy. Topics include descriptive statistics, correlation and regression, basic probability, discrete and continuous probability distributions, confidence intervals and hypothesis testing. Upon completion, students should be able to use appropriate technology to describe important characteristics of a data set, draw inferences about a population from sample data, and interpret and communicate results. (2025 SP)
This course has been approved to satisfy the following requirement(s): | UGETC course for A.A., A.A. Teacher Preparation and A.F.A. (visual arts and theatre) | Mathematics Gen. Ed. course for A.S. and A.S. Teacher Preparation | Mathematics Gen. Ed. course for A.A.S. and A.G.E.

STEEL AND TIMBER DESIGN

CIV-221 Steel and Timber Design 3 (2-3) Fall

Prerequisites: EGR-251^S

Corequisites:

This course introduces the basic elements of steel and timber structures. Topics include strength of materials applications, the analysis and design of steel and timber beams, columns, and connections and concepts of structural detailing. Upon completion, students should be able to analyze, design, and draw simple plans using Computer Aided Drafting and Design software (CADD). (2013 FA)

STORYTELLING

DRA-126 Storytelling 3 (3-0) AND

Prerequisites:

Corequisites:

This course introduces the art of storytelling and the oral traditions of folk literature. Topics include the history of storytelling, its value and purpose, techniques of the storyteller, and methods of collecting verbal art. Upon completion, students should be able to present and discuss critically stories from the world's repertory of traditional lore. (1997 SU) This course has been approved to satisfy the following requirement(s): | Humanities/Fine Arts Gen. Ed. course for A.A., A.A. Teacher Preparation and A.S. | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

STRUCTURAL DAMAGE I

AUB-131 Structural Damage I 4 (2-4) Spring

Prerequisites:

Corequisites:

This course introduces safety, equipment, structural damage analysis, and damage repairs. Topics include shop safety, design and construction, structural analysis and measurement, equipment, structural glass, repair techniques, and other related topics. Upon completion, students should be able to analyze and perform repairs to a vehicle which has received light/moderate structural damage. (1997 SU)

STRUCTURAL DAMAGE II

AUB-132 Structural Damage II 4 (2-6) Summer

Prerequisites: AUB-131^S

Corequisites:

This course provides an in-depth study of structural damage analysis and repairs to vehicles that have received moderate to heavy structural damage. Topics include shop safety, structural analysis and measurement, equipment, structural glass, advanced repair techniques, structural component replacement and alignment, and other related topics. Upon completion, students should be able to analyze and perform repairs according to industry standards. (1997 SU)

STUDENT SUCCESS STRATEGIES

**ACA-090 Student Success Strategies 3 (3-0) Summer
Spring
Fall**

Prerequisites:

Corequisites:

This course is intended to provide students with skills and strategies to promote success in college, career, and life. Topics include the College's physical, academic, and social environment, promotes personal development, and cultivates learning strategies essential for student success. Upon completion, students should be able to manage their learning experiences to meet educational and life goals. (2014 FA) ACA-090 is recommended if a student placed into both ENG-025 and MAT-025 or MAT-035.

SUBDIVISION PLANNING & DESIGN

CEG-230 **Subdivision Planning & Design** **3 (1-6)** **Spring**

Prerequisites: EGR-120^S, CEG-211^S, SRV-111^S

Corequisites:

This course covers the planning and design concepts related to subdivisions including analysis of development standards, engineering, and the creation of CAD drawings. Topics include applicable codes, lot creation, roadway system layout, stormwater drainage, low impact development (LID) concepts, and related topics. Upon completion, students should be able to prepare a set of subdivision plans. (2013 FA)

SUCCESS & STUDY SKILLS

ACA-115 **Success & Study Skills** **1 (0-2)** **Summer
Spring
Fall**

Prerequisites:

Corequisites:

This course provides an orientation to the campus resources and academic skills necessary to achieve educational objectives. Emphasis is placed on an exploration of facilities and services, study skills, library skills, self-assessment, wellness, goal-setting, and critical thinking. Upon completion, students should be able to manage their learning experiences to successfully meet educational goals. (1997 SU)

SUMMER GARDENING LAB

LSG-123 **Summer Gardening Lab** **2 (0-6)** **Summer**

Prerequisites: LSG-122^L

Corequisites: WBL-121^L

This course provides basic hands-on experience in summer gardening techniques. Emphasis is placed on pruning, irrigation, planting, fertilizing, pest control, equipment operation, turf maintenance, landscape construction, and maintaining fruits and vegetables. Upon completion, students should be able to perform various techniques essential to maintaining the summer landscape. (2001 FA)

SUR CLINICAL PRACTICE I

SUR-123 **Sur Clinical Practice I** **7** **Spring**
(0-0-21)

Prerequisites: SUR-110^S, SUR-111^S

Corequisites: SUR-122^S

This course provides clinical experience with a variety of perioperative assignments to build upon skills learned in SUR 111. Emphasis is placed on the scrub and circulating roles of the surgical technologist including aseptic technique and basic case preparation for selected surgical procedures. Upon completion, students should be able to prepare, assist with, and dismantle basic surgical cases in both the scrub and circulating roles. (1997 SU)

SURGICAL PROCEDURES I

SUR-122 Surgical Procedures I 6 (5-3) Spring

Prerequisites: SUR-110^S, SUR-111^S

Corequisites: SUR-123^S

This course provides an introduction to selected basic and intermediate surgical specialties that students are exposed to the first clinical rotation. Emphasis is placed on related surgical anatomy, pathology, and procedures that enhance theoretical knowledge of patient care, instrumentation, supplies, and equipment. Upon completion, students should be able to correlate, integrate, and apply theoretical knowledge of the course topics to the clinical operative environment. (2016 SP)

SURGICAL PROCEDURES II

SUR-134 Surgical Procedures II 5 (5-0) Summer

Prerequisites: SUR-123^S

Corequisites:

This course provides a comprehensive study of intermediate and advanced surgical specialties that students are exposed to in the second clinical rotation. Emphasis is placed on related surgical anatomy, pathology, and procedures that enhance theoretical knowledge of patient care, instrumentation, supplies, and equipment. Upon completion, students should be able to correlate, integrate, and apply theoretical knowledge of the course topics to the clinical operative environment. (2016 SP)

SURVEY OF ECONOMICS

**ECO-151 Survey of Economics 3 (3-0) Summer
Fall**

Prerequisites: ENG-025^L; MAT-025^L or MAT-035^L

Corequisites:

This course, for those who have not received credit for ECO 251 or 252, introduces basic concepts of micro- and macroeconomics. Topics include supply and demand, optimizing economic behavior, prices and wages, money, interest rates, banking system, unemployment, inflation, taxes, government spending, and international trade. Upon completion, students should be able to explain alternative solutions for economic problems faced by private and government sectors. (1997 SU)

This course has been approved to satisfy the following requirement(s): | Social/Behavioral Science Gen. Ed. course for A.A., A.A. Teacher Preparation, and A.S. | Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

SURVEY OF MED TERMINOLOGY

MED-120	Survey of Med Terminology	2 (2-0)	Summer Spring Fall
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Prerequisites:**Corequisites:**

This course introduces the vocabulary, abbreviations, and symbols used in the language of medicine. Emphasis is placed on building medical terms using prefixes, suffixes, and word roots. Upon completion, students should be able to pronounce, spell, and define accepted medical terms. (1997 SU)

SURVEY OF MOBILE APPS W/ SWIFT

CIS-117	Survey of Mobile Apps W/ Swift	3 (2-2)	AND
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Prerequisites:**Corequisites:**

This course introduces mobile application development using Swift as a programming language for building apps in numerous industries and work environments. Topics include the functional concepts of Swift programming and its use for developing basic mobile applications in a business environment. Upon completion, students should be able to utilize Swift programming to develop and deploy a basic mobile application. (2025 SP)

SURVEY OF REAL ESTATE

BUS-148	Survey of Real Estate	3 (3-0)	Fall
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Prerequisites:**Corequisites:**

This course introduces real estate principles and practices. Topics include real estate finance, real estate law, brokerage, land use planning, property management, and valuation. Upon completion, students should be able to explain basic procedures involved in the lease, purchase, and sale of real property. (1997 SU)

SURVEYING I

SRV-110	Surveying I	4 (2-6)	Summer
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Prerequisites:**Corequisites:**

This course introduces the theory and practice of plane surveying. Topics include the precise measurement of distances, angles, and elevations; bearing, azimuth and traverse computations; topography and mapping. Upon completion, students should be able to use/care for surveying equipment, collect field survey data, perform traverse computations and create a contour map.(2025 SP)

SURVEYING II

SRV-111 Surveying II 4 (2-6) Fall

Prerequisites: SRV-110^S

Corequisites:

This course introduces route surveying and roadway planning and layout. Topics include simple, compound, reverse, spiral, and vertical curves; geometric design and layout; planning of cross-section and grade line; drainage; earthwork calculations; and mass diagrams. Upon completion, students should be able to calculate and lay out highway curves; prepare roadway plans, profiles, and sections; and perform slope staking. (1997 SU)

SURVEYING III

SRV-210 Surveying III 4 (2-6) Spring

Prerequisites: SRV-110^S

Corequisites:

This course introduces boundary surveying, land partitioning, and calculations of areas. Topics include advanced traverses and adjustments, preparation of survey documents, and other related topics. Upon completion, students should be able to research, survey, and map a boundary. (1997 SU)

SURVEYING LAW

SRV-220 Surveying Law 3 (2-2) Fall

Prerequisites: SRV-110^S

Corequisites:

This course introduces the law as related to the practice of surveying. Topics include surveyors' responsibilities, deed descriptions, title searches, eminent domain, easements, weight of evidence, riparian rights, and other related topics. Upon completion, students should be able to identify and apply the basic legal aspects associated with the practice of land surveying. (1997 SU)

SUSPENSION & STEERING LAB

AUT-141A Suspension & Steering Lab 1 (0-3) Fall

Prerequisites: AUT-141^S

Corequisites:

This course is an optional lab to be used as an alternative to co-op placement in meeting the NATEF standards for total hours. Topics include manual and power steering systems and standard and electronically controlled suspension and steering systems. Upon completion, students should be able to service and repair steering and suspension components, check and adjust alignment angles, repair tires, and balance wheels. (2007 FA)

SUSPENSION & STEERING SYS

AUT-141 **Suspension & Steering Sys** **3 (2-3)** **Fall**

Prerequisites: AUT-141A^L

Corequisites:

This course covers principles of operation, types, and diagnosis/repair of suspension and steering systems to include steering geometry. Topics include manual and power steering systems and standard and electronically controlled suspension and steering systems. Upon completion, students should be able to service and repair steering and suspension components, check and adjust alignment angles, repair tires, and balance wheels. (2007 FA)

SWIFT PROGRAMMING I

CSC-118 **Swift Programming I** **3 (2-3)** **Fall**

Prerequisites:

Corequisites:

This course introduces the development of iOS applications and Apple applications using Swift programming language. Emphasis is placed on syntax, object-oriented principles, memory management, and functional concepts of Swift programming. Upon completion, students should be able to develop fully functional iOS and Apple applications using Swift programming language. (2018 SU)

SWIFT PROGRAMMING II

CSC-218 **Swift Programming II** **3 (2-3)** **Spring**

Prerequisites: CSC-118^S

Corequisites:

This course introduces advanced iOS application development using the Swift programming language. Emphasis is placed on navigation, data manipulation, web services, prototyping, debugging, and project planning. Upon completion, students should be able to develop advanced multifunctional iOS and Apple applications using the Swift programming language. (2018 SU)

SWITCHING AND ROUTING

NET-126 **Switching and Routing** **3 (2-3)** **Spring**

Prerequisites:

Corequisites:

This course covers the architecture, components, and operations of routers and switches in small networks and introduces wireless local area networks (WLAN) and security concepts. Emphasis is placed on configuring and troubleshooting routers and switches for advanced functionality using security best practices and resolving common network issues utilizing both IPv4 and IPv6 protocols. Upon completion, students should be able to configure VLANs and Inter-VLAN routing applying security best practices, troubleshoot inter-VLAN routing on Layer 3 devices, configure redundancy on a switched network using STP and EtherChannel, configure WLANs using a WLC and L2 security best practices and configure IPv4 and IPv6 static routing on routers.(2025 FA)

TEACHING AND LEARNING FOR ALL

EDU-187 Teaching and Learning for All 4 (3-3) Fall

Prerequisites:

Corequisites:

This course introduces students to knowledge, concepts, and best practices needed to provide developmentally appropriate, effective, inclusive, and culturally responsive educational experiences in the classroom. Topics include growth and development, learning theory, student motivation, teaching diverse learners, classroom management, inclusive environments, student-centered practices, instructional strategies, teaching methodologies, observation/assessment techniques, educational planning, reflective practice, collaboration, cultural competence, ethics, professionalism, and leadership. Upon completion, students should be able to identify the knowledge, skills, roles, and responsibilities of an effective educator as defined by state and national professional teaching standards. (2020 FA) This course has been approved to satisfy the following requirement(s): | Other Required Hours/Universal Ed. course for A.A. Teacher Preparation and A.S. Teacher Preparation

TECH & SUSTAINABILITY LAB

CEG-115A Tech & Sustainability Lab 1 (0-3) Fall

Prerequisites:

Corequisites: CEG-115^S

This course provides a lab experience that requires students to apply principles of sustainable development and engineering computations, measurement, and drawing to hands-on activities and in actual settings. Emphasis is placed on basic engineering technology and sustainable development topics. Upon completion, students should be able to recognize appropriate technologies for particular projects and scenarios. (2013 FA)

TECHNOLOGY AND SOCIETY

**HUM-110 Technology and Society 3 (3-0) Summer
Spring
Fall**

Prerequisites: ENG-025^L

Corequisites:

This course considers technological change from historical, artistic, and philosophical perspectives and its effect on human needs and concerns. Emphasis is placed on the causes and consequences of technological change. Upon completion, students should be able to critically evaluate the implications of technology. (1997 SU) This course has been approved to satisfy the following requirement(s): | Humanities/Fine Arts Gen. Ed. course for A.A., A.A. Teacher Preparation and A.S. | Other Gen. Ed. and Premajor Elective course for A.E. | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

THEATRE HISTORY II

DRA-212 Theatre History II 3 (3-0) Spring

Prerequisites:

Corequisites:

This course covers the development of theatre from 1660 through the diverse influences which shaped the theatre of the twentieth century. Topics include the history, aesthetics, and representative dramatic literature of the period. Upon completion, students should be able to trace the evolution of theatre and recognize the styles and types of world drama. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

THE MASSAGE APPLICATIONS

**MTH-120 Ther Massage Applications 10 Spring
(6-9-3)**

Prerequisites: MTH-110^S; BIO-163^L or BIO-168^L

Corequisites: ENG-111^L

This course provides an expanded knowledge and skill base for the massage therapist in a variety of clinical settings. Emphasis is placed on selected therapeutic approaches throughout the lifespan. Upon completion, students should be able to perform entry level therapeutic massage on various populations. (2008 SP)

THERAPEUTIC BAKING

BPA-180 Therapeutic Baking 3 (1-4) Spring

Prerequisites: CUL-110^S CUL-160^S; CUL-260^S or BPA-150^S

Corequisites:

This course covers the principles of baking for special dietary needs. Emphasis is placed on gluten and lactose free, vegan, keto, low fat, low carb, and reduced calorie pastries and breads. Upon completion, students should be able to demonstrate an understanding of specialized baking to meet specific dietary requirements.(2025 FA)

THERAPEUTIC CUISINE

CUL-165 Therapeutic Cuisine 3 (1-4) Spring

Prerequisites:

Corequisites: CUL-110^S, CUL-140^S

This course covers the principles of therapeutic cooking with an emphasis on gluten free, allergy free, and vegan cooking. Topics include vegan, lacto-ovo, vegetarian, nut-free, dairy-free, wheat-free, soy-free, and corn-free meal preparation. Upon completion, students should be able to demonstrate an understanding of common dietary preferences and intolerances, and be able to safely and accurately execute allergy-free meal plan preparation.(2015 SU)

THERAPEUTIC MASSAGE MGMT

MTH-130 Therapeutic Massage Mgmt 2 (2-0) Summer
Prerequisites: MTH-110^S
Corequisites: MTH-125^L

This course introduces the basic responsibilities in the development and administration of a professional massage therapy practice. Emphasis is placed on identifying successful practice management methods such as selecting a business structure, negotiating a contract/lease, developing a business/marketing plan, designing a massage space, differentiating spa from clinical practice, management of client/financial records and physician referral. Upon completion, students should be able to demonstrate the knowledge and skills necessary to develop and manage a massage therapy practice. (2012 FA)

THERAPEUTICS/DIAGNOSTICS

RCP-111 Therapeutics/Diagnostics 5 (4-3) Spring
Prerequisites: RCP-110^S
Corequisites:

This course provides emphasis on therapeutic and diagnostic procedures. Topics include applying problem solving strategies in the patient care setting, applying ethical principles in decision making, and practicing professional responsibilities, which will prepare students for clinical practice. Upon completion, students should be able to demonstrate competence in respiratory therapy concepts and procedures through written and laboratory evaluations. (2017 FA)

THREE-DIMENSIONAL DESIGN

**ART-122 Three-Dimensional Design 3 (0-6) Spring
Fall**

Prerequisites:

Corequisites:

This course introduces basic studio problems in three-dimensional visual design. Emphasis is placed on the structural elements and organizational principles as applied to mass and space. Upon completion, students should be able to apply three-dimensional design concepts. (2012 SP) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A., A.F.A. (visual arts), and A.S.

TOPO/SITE SURVEYING

SRV-240 Topo/Site Surveying 4 (2-6) Spring
Prerequisites: SRV-110^S

Corequisites:

This course covers topographic, site, and construction surveying. Topics include topographic mapping, earthwork, site planning, construction staking, and other related topics. Upon completion, students should be able to prepare topographic maps and site plans and locate and stake out construction projects. (1997 SU)

TOTAL SAFETY PERFORMANCE

CMT-212 **Total Safety Performance** **3 (3-0)** **Spring**

Prerequisites:

Corequisites: CMT-210^S

This course covers the importance of managing safety and productivity equally by encouraging people to take individual responsibility for safety and health in the workplace. Topics include safety management, controlling construction hazards, communicating and enforcing policies, OSHA compliance, personal responsibility and accountability, safety planning, training, and personal protective equipment. Upon completion, the student should be able to properly supervise safety at a construction jobsite and qualify for OSHA Training Certification. (2004 SP)

TRACE EVIDENCE

CJC-146 **Trace Evidence** **3 (2-3)** **Fall**

Prerequisites:

Corequisites:

This course provides a study of trace evidence as it relates to forensic science. Topics include collection, packaging, and preservation of trace evidence from crime scenes such as bombings, fires and other scenes. Upon completion, students should be able to demonstrate the fundamental concepts of trace evidence collection, preservation and submission to the crime laboratory. (2000 SP)

TRANSFER & CAREER SUCCESS

ACA-122 **Transfer & Career Success** **1 (0-2)** **Summer
Spring
Fall**

Prerequisites:

Corequisites:

This course introduces students to career and transfer opportunities while building skills for academic success, career exploration, and transfer preparation, ensuring readiness for success in community college and beyond. Topics include transfer agreements with public and independent institutions, programs and processes that facilitate transfer, and transfer tools and resources; career topics include career exploration and information and skills such as resume writing, portfolio development, and professional communication. Upon completion, students will be able to identify the community college program that matches their transfer and career goals, navigate transfer policies and processes, use Transfer Guides, develop an academic plan for future success, and identify professional application materials. (2025 FA) This course has been approved to satisfy the following requirement(s): | Premajor and/or elective course for A.A., A.A. Teacher Preparation, A.E., A.F.A., A.G.E.-Nursing, A.S., and A.S. Teacher Preparation.

TURFGRASS CALCULATIONS

TRF-220 Turfgrass Calculations 2 (2-0) Fall

Prerequisites:

Corequisites:

This course introduces the specific math concepts and calculations necessary in the turfgrass industry. Emphasis is placed on calibration of equipment used in the application of fertilizers and pesticides and calculation of solid materials used in construction. Upon completion, students should be able to correctly perform basic calculations and calibrations and estimate materials needed in specific professional turfgrass management situations.(1997 SU)

TWO-DIMENSIONAL DESIGN

**ART-121 Two-Dimensional Design 3 (0-6) Spring
Fall**

Prerequisites:

Corequisites:

This course introduces the elements and principles of design as applied to two-dimensional art. Emphasis is placed on the structural elements, the principles of visual organization, and the theories of color mixing and interaction. Upon completion, students should be able to understand and use critical and analytical approaches as they apply to two-dimensional visual art. (2012 SP) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A., A.F.A. (visual arts), and A.S. | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

URINALYSIS & BODY FLUIDS

MLT-111 Urinalysis & Body Fluids 2 (1-3) Summer

Prerequisites: MLT-110^L

Corequisites:

This course introduces the laboratory analysis of urine and body fluids. Topics include physical, chemical, and microscopic examination of the urine and body fluids. Upon completion, students should be able to demonstrate theoretical comprehension in performing and interpreting urinalysis and body fluid tests. (1997 SU)

VIRTUALIZATION CONCEPTS

CTI-140 Virtualization Concepts 3 (1-4) AND

Prerequisites:

Corequisites:

This course introduces operating system virtualization. Emphasis is placed on virtualization terminology, virtual machine storage, virtual networking and access control. Upon completion, students should be able to perform tasks related to installation, configuration and management of virtual machines. (2012 SU)

VISUAL BASIC PROGRAMMING

CSC-139 **Visual BASIC Programming** **3 (2-3)** **AND**

Prerequisites: MAT-025^L

Corequisites:

This course introduces computer programming using the Visual BASIC programming language with object-oriented programming principles. Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion, students should be able to design, code, test and debug at a beginning level. (2006 SP) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

VOICE FOR PERFORMANCE

DRA-120 **Voice for Performance** **3 (3-0)** **Spring**

Prerequisites:

Corequisites:

This course provides guided practice in the proper production of speech for the theatre. Emphasis is placed on improving speech, including breathing, articulation, pronunciation, and other vocal variables. Upon completion, students should be able to demonstrate effective theatrical speech. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

VOLLEYBALL-BEGINNING

PED-143 **Volleyball-Beginning** **1 (0-2)** **Spring
Fall**

Prerequisites:

Corequisites:

This course covers the fundamentals of volleyball. Emphasis is placed on the basics of serving, passing, setting, spiking, blocking, and the rules and etiquette of volleyball. Upon completion, students should be able to participate in recreational volleyball. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

WALKING FOR FITNESS

PED-120 **Walking for Fitness** **1 (0-3)**

Prerequisites:

Corequisites:

This course introduces fitness through walking. Emphasis is placed on stretching, conditioning exercises, proper clothing, fluid needs, and injury prevention. Upon completion, students should be able to participate in a recreational walking program. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

WEB MARKUP AND SCRIPTING

WEB-115 **Web Markup and Scripting** **3 (2-3)** **Summer**

Prerequisites:

Corequisites:

This course introduces Worldwide Web Consortium (W3C) Internet programming using JavaScript. Topics include basic syntax, object-oriented programming, functions, variables, events, arrays, validation, accessibility, and web standards. Upon completion, students should be able to write, debug, maintain well-formed and well documented interactive web content using JavaScript code. (2022 SP)

WEIGHT TRAINING I

PED-117 **Weight Training I** **1 (0-3)** **Spring
Fall**

Prerequisites:

Corequisites:

This course introduces the basics of weight training. Emphasis is placed on developing muscular strength, muscular endurance, and muscle tone. Upon completion, students should be able to establish and implement a personal weight training program. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

WEIGHT TRAINING II

PED-118 **Weight Training II** **1 (0-3)** **Spring
Fall**

Prerequisites: PED-117^S

Corequisites:

This course covers advanced levels of weight training. Emphasis is placed on meeting individual training goals and addressing weight training needs and interests. Upon completion, students should be able to establish and implement an individualized advanced weight training program. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

WESTERN CIVILIZATION I

HIS-121 **Western Civilization I** **3 (3-0)** **Fall**

Prerequisites: ENG-025^L

Corequisites:

This course introduces western civilization from pre-history to the early modern era. Topics include ancient Greece, Rome, and Christian institutions of the Middle Ages and the emergence of national monarchies in western Europe. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in early western civilization. (1997 SU) This course has been approved to satisfy the following requirement(s): | Social/Behavioral Science Gen. Ed. course for A.A., A.A. Teacher Preparation and A.S. | Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

WESTERN CIVILIZATION II

HIS-122 **Western Civilization II** **3 (3-0)** **Spring**
Prerequisites: ENG-025^L

Corequisites:

This course introduces western civilization from the early modern era to the present. Topics include the religious wars, the Industrial Revolution, World Wars I and II, and the Cold War. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in modern western civilization. (1997 SU) This course has been approved to satisfy the following requirement(s): | Social/Behavioral Science Gen. Ed. course for A.A., A.A. Teacher Preparation and A.S. | Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

WILDERNESS EMT

EMS-243 **Wilderness EMT** **2 (1-2)** **AND**
Prerequisites: EMS-110^S

Corequisites:

This course provides an overview of emergency care when separated from definitive care by distance, time, or circumstance. Topics include principles of long-term patient care, wilderness patient assessment system, medical and environmental emergencies, medication administration, modified CPR, and spine management. Upon completion, students should be able to demonstrate the knowledge and skills necessary to gain Wilderness-EMT certification. (2012 SP)

WINDOWS ADMINISTRATION I

NOS-230 **Windows Administration I** **3 (2-2)** **Spring**
Prerequisites:

Corequisites:

This course covers the installation and configuration of a Windows Server operating system. Emphasis is placed on the basic configuration of core network services, Active Directory and group policies. Upon completion, students should be able to install and configure a Windows Server operating system. (2014 FA)

WINDOWS SINGLE USER

NOS-130 **Windows Single User** **3 (2-2)** **Fall**
Prerequisites:

Corequisites:

This course introduces operating system concepts for single-user systems. Topics include hardware management, file and memory management, system configuration/optimization, and utilities. Upon completion, students should be able to perform operating systems functions at the support level in a single-user environment. (2016 FA)

WINE APPRECIATION

CUL-214 Wine Appreciation 2 (1-2) Fall

Prerequisites: ENG-025^L

Corequisites:

This course provides an introduction to information about wine from all the major wine producing regions. Emphasis is placed on the history of wine, production, characteristics, wine list development, laws, purchasing and storing requirements. Upon completion, students should be able to evaluate varietal wines and basic food pairings. (2011 FA)

WORD PROCESSING

**OST-136 Word Processing 3 (2-2) Summer
Fall**

Prerequisites:

Corequisites:

This course is designed to introduce word processing concepts and applications. Topics include preparation of a variety of documents and mastery of specialized software functions. Upon completion, students should be prepared to take a nationally accredited certification exam.(2025 FA)

WORK-BASED LEARNING I

**WBL-111 Work-Based Learning I 1 (0-10) Summer
Spring
Fall**

Prerequisites:

Corequisites:

This course provides a work-based learning experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies. (2014 FA)

WBL-112 Work-Based Learning I 2 (0-20) AND

Prerequisites:

Corequisites:

This course provides a work-based learning experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies. (2014 FA)

WBL-113 Work-Based Learning I 3 (0-30) AND

Prerequisites:

Corequisites:

This course provides a work-based learning experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies. (2014 FA)

WORK-BASED LEARNING IV

WBL-211 **Work-Based Learning IV** **1 (0-10)** **AND**

Prerequisites:

Corequisites:

This course provides a work-based learning experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies. (2014 FA)

WBL-212 **Work-Based Learning IV** **2 (0-20)** **AND**

Prerequisites:

Corequisites:

This course provides a work-based learning experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies. (2014 FA)

WORK-BASED LEARNING SEMINAR I

WBL-115 **Work-Based Learning Seminar I** **1 (1-0)** **AND**

Prerequisites:

Corequisites: WBL-111^S, WBL-112^S, WBL-113^S or WBL-114^S

This course description may be written by the individual colleges. (2014 FA)

WORLD CIVILIZATIONS I

HIS-111 **World Civilizations I** **3 (3-0)** **Summer**
Spring
Fall

Prerequisites: ENG-025^L

Corequisites:

This course introduces world history from the dawn of civilization to the early modern era. Topics include Eurasian, African, American, and Greco-Roman civilizations and Christian, Islamic and Byzantine cultures. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in pre-modern world civilizations. (1997 SU) This course has been approved to satisfy the following requirement(s): | UGETC course for A.A., A.A. Teacher Preparation, A.E., A.F.A., A.S., and A.S. Teacher Preparation | Social/Behavioral Science Gen. Ed. course for A.A.S. and A.G.E.

WORLD RELIGIONS

REL-110	World Religions	3 (3-0)	Summer Spring Fall
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Prerequisites:**Corequisites:**

This course introduces the world's major religious traditions. Topics include Primal religions, Hinduism, Buddhism, Islam, Judaism, and Christianity. Upon completion, students should be able to identify the origins, history, beliefs, and practices of the religions studied. (1997 SU) This course has been approved to satisfy the following requirement(s): | Humanities/Fine Arts Gen. Ed. course for A.A., A.A. Teacher Preparation and A.S. | Humanities/Fine Arts Gen. Ed. course for A.A.S. and A.G.E.

WORLD OF WORK

WBL-110	World of Work	1 (1-0)	Fall
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Prerequisites:**Corequisites:**

This course covers basic knowledge necessary for gaining and maintaining employment. Topics include job search skills, work ethic, meeting employer expectations, workplace safety, and human relations. Upon completion, students should be able to successfully make the transition from school to work. (2014 FA)

WRITING AND INQUIRY

ENG-111	Writing and Inquiry	3 (3-0)	Summer Spring Fall
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Prerequisites: ENG-025^L**Corequisites:**

This course is designed to develop the ability to produce clear writing in a variety of genres and formats using a recursive process. Emphasis includes inquiry, analysis, effective use of rhetorical strategies, thesis development, audience awareness, and revision. Upon completion, students should be able to produce unified, coherent, well-developed essays using standard written English. (2025 SP) This course has been approved to satisfy the following requirement(s): | UGETC course for A.A., A.A. Teacher Preparation, A.E., A.F.A., A.S., and A.S. Teacher Preparation | English Composition Gen. Ed. course for A.A.S. and A.G.E.

WRITING/RESEARCH IN THE DISC

ENG-112	Writing/Research in the Disc	3 (3-0)	Summer Spring Fall
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Prerequisites: ENG-111^S

Corequisites:

This course, the second in a series of two, introduces research techniques, documentation styles, and writing strategies. Emphasis is placed on analyzing information and ideas and incorporating research findings into documented writing and research projects. Upon completion, students should be able to evaluate and synthesize information from primary and secondary sources using documentation appropriate to various disciplines. (2014 FA) This course has been approved to satisfy the following requirement(s): | UGETC course for A.A., A.A. Teacher Preparation, A.E., A.F.A., A.S., and A.S. Teacher Preparation | English Composition Gen. Ed. course for A.A.S. and A.G.E.

YOGA I

PED-122	Yoga I	1 (0-2)	Summer Spring Fall
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Prerequisites:

Corequisites:

This course introduces the basic discipline of yoga. Topics include proper breathing, relaxation techniques, and correct body positions. Upon completion, students should be able to demonstrate the procedures of yoga. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.

YOGA II

PED-123	Yoga II	1 (0-2)	AND
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Prerequisites: PED-122^S

Corequisites:

This course introduces more detailed aspects of the discipline of yoga. Topics include breathing and physical postures, relaxation, and mental concentration. Upon completion, students should be able to demonstrate advanced procedures of yoga. (1997 SU) This course has been approved to satisfy the following requirement(s): | Premajor and/or Elective course for A.A. and A.S.