

# COURSE DESCRIPTIONS

## ACC — Accounting

### ACC 101 Accounting Principles I 3-0-3

This university parallel transfer course introduces basic accounting procedures for analyzing, recording, and summarizing financial transactions, adjusting and closing the financial records at the end of the accounting cycle, and preparing financial statements. This course is transferable to public senior institutions as part of the South Carolina Commission on Higher Education Statewide Articulation Agreement.

### ACC 102 Accounting Principles II 3-0-3 Prerequisites: ACC 101

This university parallel transfer course emphasizes managerial accounting theory and practice in basic accounting and procedures for cost accounting, budgeting, cost-volume analysis, and financial statement analysis. This course is transferable to public senior institutions as part of the South Carolina Commission on Higher Education Statewide Articulation Agreement.

### ACC 124 Individual Tax Procedures 3-0-3 Prerequisites: ACC 101

This course is a study of the basic income tax structure from the standpoint of the individual, including the preparation of individual income tax returns.

### ACC 125 Advanced Individual Tax Proc 3-0-3 Prerequisites: ACC 124

This course expands the concept of the basic income tax structure from the standpoint of the individual, including the preparation of individual income tax returns and related schedules to include alternative minimum tax, property transactions, and business schedules.

### ACC 145 Accounting for Sports Tourism 3-0-3 Prerequisites: SPT 101 and SPT 102

This course provides students with an introductory review of basic financial processes of sports tourism that includes profit and non-profit and financial impact of sports tourism on the economy, community and environment.

### ACC 150 Payroll Accounting 3-0-3 Prerequisites: ACC 101 or AOT 239

This course introduces the major tasks of payroll accounting, employment practices, federal, state, and local governmental laws and regulations, internal controls, and various forms and records and introduces the use of computer applications for payroll.

### ACC 201 Intermediate Accounting I 3-0-3 Prerequisites: ACC 101

This course explores fundamental accounting theory processes, including financial statement preparation.

### ACC 202 Intermediate Accounting II 3-0-3 Prerequisites: ACC 201

This course covers the application of accounting principles and concepts to account evaluation and income determination, including special problems peculiar to corporations and the analysis of financial reports.

### ACC 230 Cost Accounting I 3-0-3 Prerequisites: ACC 102

This course is a study of the accounting principles involved in job order cost systems.

### ACC 240 Computerized Accounting 3-0-3 Prerequisites: ACC 101

This course studies uses of the computer to design and implement various accounting functions, including financial transactions, records, statements, reports and documents.

### ACC 245 Accounting Applications 3-0-3 Prerequisites: ACC 101 and CPT 170

This course introduces microcomputer accounting using data base software and/or electronic spreadsheets.

### ACC 265 Not-for-Profit Accounting 3-0-3 Prerequisites: ACC 102

This course introduces the special accounting needs of municipalities, counties, states, the federal government and governmental agencies, and other not-for-profit organizations.

### ACC 291 Cert Bookkeeper Review 3-0-3 Prerequisites: ACC 101

This course is designed to help students prepare for the Certified Bookkeeper Exam.

## ACR — Air Conditioning Refrig

### ACR 102 Tools and Service Techniques 2-3-3

This course is a basic study of the uses of tools and service equipment used in the installation and repair of HVAC equipment.

### ACR 106 Basic Electricity for HVAC/R 3-3-4

This course includes a basic study of electricity, including Ohm's law and series and parallel circuits as they relate to heating, ventilating, air conditioning and/or refrigeration systems.

**ACR 108 Refrigeration Fundamentals 3-0-3**

This course is an introduction to the principles of refrigeration.

**ACR 110 Heating Fundamentals 3-3-4**

**Prerequisites:** ACR 140

This course covers the basic concepts of oil, gas, and electric heat, their components and operation.

**ACR 118 Air Conditioning Fundamentals 1-6-3**

This course is an introduction to the principles of air conditioning.

**ACR 131 Commercial Refrigeration 3-3-4**

**Prerequisites:** ACR 210

This course is a study of maintenance and repair of commercial refrigeration systems.

**ACR 140 Automatic Controls 2-3-3**

This course is a study of the adjustment, repair and maintenance of a variety of pressure and temperature sensitive automatic controls.

**ACR 160 Service Customer Relations 3-0-3**

This course covers how to deal with different types of customers, selling techniques, and correct record keeping.

**ACR 201 Troubleshooting and Maint 2-3-3**

**Prerequisites:** ACR 210

This course studies troubleshooting and maintenance of air conditioning equipment.

**ACR 206 Adv Electricity for HVAC/R 1-3-2**

**Prerequisites:** ACR 140

This course includes a practical application of electrical and electronic components and circuits used to control HVAC and/or refrigeration systems.

**ACR 207 Advanced Refrigeration Electri 3-0-3**

**Prerequisites:** ACR 210

This course covers the theory and application of electrical circuits and starting components in commercial and industrial refrigeration.

**ACR 210 Heat Pumps 2-6-4**

**Prerequisites:** ACR 118 and ACR 140

This course is a study of theory and operational principles of the heat pump.

**ACR 250 Duct Fabrication 2-3-3**

**Prerequisites:** ACR 118

This course covers the design, fabrication, and installation of air duct systems.

## AET – Const Mgmt & Int Design

**AET 101 Building Systems I 2-3-3**

This course is a study of the fundamental concepts of design and construction techniques in residential, commercial, and industrial buildings.

**AET 110 Architectural Graphics I 2-3-3**

This course is an introduction to the skills of architectural manual drafting.

**AET 120 Architectural Graphics II 2-3-3**

**Prerequisites:** AET 110

This course requires the production of a set of working drawings of a residential or commercial building. Exercises incorporate construction methods, materials, building code requirements, site development, and technical skills required to draw and graphically present projects.

## AHS – Allied Health Science

**AHS 102 Medical Terminology 3-0-3**

This course covers medical terms, including roots, prefixes, and suffixes, with emphasis on spelling, definition, and pronunciation.

**AHS 106 Cardiopulmonary Resuscitation 1-0-1**

This course provides a study of the principles of cardiopulmonary resuscitation.

**AHS 108 Nutrition 3-0-3**

This course is a study of nutrition and diet therapy as related to health care.

**AHS 110 Patient Care Procedures 2-0-2**

**Prerequisites:** BIO 210

This course provides a study of the procedures and techniques used in the general care of the patient.

**AHS 113 Head and Neck Anatomy 1-0-1**

This course provides a detailed study of the structure of the head and neck with special emphasis on structure as it pertains to the study of dental science.

**AHS 114 Basic First Aid 1-0-1**

This course provides instruction in basic procedures used in medical emergencies.

**AHS 126 Health Calculations 1-0-1**

This course applies mathematical concepts in the calculation of drug dosages and solutions.

**AHS 141 Phlebotomy for HealthCare Prov** 2-3-3  
**Corequisites:** BIO 112, BIO 210, BIO 211, AHS 102

This course studies the essential theory, skills, and special procedures required to meet venipuncture needs in hospitals, clinics, and other health care settings.

**AHS 143 Phlebotomy Skills** 2-12-6  
**Prerequisites:** AHS 102 and AHS 106 and AHS 141

This course is a study of phlebotomy equipment, procedures, techniques, and practical experience.

**AHS 145 Electrocardiography** 2-0-2

This course provides the basic skills necessary to perform ECGs in a hospital, physician's office or other health care setting. The student will be able to perform and interpret basic ECGs.

**AHS 147 Clinical Pharmacology** 3-0-3

This course is the study of a broad spectrum of drugs, their classification, physical and chemical properties, usage, and contraindication in clinical settings.

**AHS 163 Long-Term Care** 3-6-5

This course emphasizes the basic skills needed to care for residents in the long-term care setting. Students will apply practical use of these skills through clinical experiences in a long-term care facility.

**AHS 175 Multi-Skilled Clinical Prac** 1-9-4

This course offers clinical experiences across health related disciplines exposing students to a variety of patient care areas such as cardiac monitoring, EKG, patient transport, and medical and surgical asepsis.

**AHS 176 Patient Care Clerical Prin** 4-0-4

This course provides a study of the practical applications related to receptionist and patient care clerical duties such as data entry, transferring physician orders, and coordinating unit communications in a variety of health care settings.

## AMF – Aircraft Maintenance

**AMF 101 Intro to Aviation Maintenance** 1-0-1

This course introduces students to the role of the Federal Aviation Administration and their regulations regarding aviation power plant and aviation airframe. Topics include a study of aircraft industry terminology and basic safety requirements, as well as a brief history of aviation.

## ANT – Anthropology

**ANT 101 General Anthropology** 3-0-3

This course is the study of physical and cultural anthropology. This course explores subfields of anthropology to examine primatology, human paleontology, human variation, archeology and ethnology.

## AOT – Administrative Office Tec

**AOT 105 Keyboarding** 3-0-3

This course focuses on the mastery of touch keyboarding.

**AOT 110 Document Formatting** 3-0-3

**Prerequisites:** AOT 105 and AOT 165

This course emphasizes speed, accuracy, and developing document formatting skills using keyboarding competencies.

**AOT 133 Professional Development** 3-0-3

**Prerequisites:** AOT 210 and AOT 165

This course emphasizes development of personal and professional skills required of an office worker in areas such as projecting a professional image, job seeking skills, office etiquette, ethics, and time and stress management.

**AOT 134 Office Communications** 3-0-3

This course is a study of grammar, punctuation, and written communication skills for the office environment.

**AOT 161 Records Management** 3-0-3

This course emphasizes records management functions and various types of storage methods, technology, and procedures.

**AOT 165 Information Processing Softwar** 3-0-3

This course includes applications of information processing software. Emphasis is placed on functions for acceptable document formatting and processing.

**AOT 180 Customer Service** 3-0-3

This course is a study of issues in the workplace relating to effective customer service. The course includes topics such as oral, written, verbal and nonverbal communication skills, effective telephone techniques and cultural diversity in the workplace.

**AOT 210 Document Production** 3-0-3

**Prerequisites:** AOT 110

This course emphasizes the production of documents found in typical business offices. The major focus is on productivity and excellence in document production.

**AOT 234 Admin Office Communications 3-0-3****Prerequisites:** AOT 134 and AOT 105 and AOT 165

This course emphasizes communication skills necessary in the business environment. It includes composing business correspondence, developing and giving oral presentations, practicing recording and translating information using the latest technology, and developing effective communication skills.

**AOT 239 Computerized Office Accounting 3-0-3****Corequisites:** AOT 165

This course covers specialized accounting functions performed on a computer.

**AOT 252 Medical Systems & Procedures 3-0-3****Prerequisites:** AOT 210 and HIM 103 and HIM 105

This course emphasizes development of proficiency in integrating skills commonly performed in medical offices.

**AOT 254 Office Simulation 3-0-3****Prerequisites:** AOT 210 and AOT 234 and AOT 261 and AOT 263

This course integrates a wide variety of skills and knowledge through practical work experiences in a simulated office environment.

**AOT 261 Office Spreadsheet Application 3-0-3****Prerequisites:** AOT 165

This course emphasizes the concepts of spreadsheets for information management in an office environment.

**AOT 263 Office Database Applications 3-0-3****Prerequisites:** AOT 165

This course emphasizes the concepts and structures of a database and the application of the concepts in an office environment.

**AOT 265 Office Desktop Publishing 3-0-3****Prerequisites:** AOT 165

This course emphasizes the integration of text and graphics using computer software to design, edit, and produce a variety of documents.

**AOT 269 Internet Skills for Work 3-0-3****Prerequisites:** AOT 165

This course is designed to enhance work place productivity through the use of the internet. Emphasis will be placed on the following topics: search engines, internet research, image and text formats, downloading from the internet, "netiquette," and introduction to web page design.

**AOT 270 SCWE in Admin Office Technolog 0-12-3****Prerequisites:** ( AOT 210 and HIM 103 and HIM 105 ) or ( AOT 210 and AOT 261 and AOT 263 and AOT 234 )

This course integrates office skills within an approved work site related to administrative office technology.

## ART – Art

**ART 101 Art History and Appreciation 3-0-3**

This is an introductory course to the history and appreciation of art, including the elements and principles of the visual arts.

**ART 108 History of Western Art 3-0-3**

This course is a visual and historical survey of western art from the Renaissance through modern times. The techniques, forms, and expressive content of painting, sculpture, and architecture will be studied within the context of the cultural environment which produced them.

## ARV – Digital Arts & Int Design

**ARV 110 Computer Graphics I 3-0-3**

This course is a study of the fundamentals of computer assisted graphic design.

**ARV 121 Design 3-0-3**

This course covers basic theories, vocabulary, principles, techniques, media and problem-solving in basic design.

**ARV 162 Graphic Reproduction I 3-0-3****Prerequisites:** ARV 121**Corequisites:** ARV 210

This course is a study of the principles and practices used in print preparation and print reproduction.

**ARV 163 Graphic Reproduction II 3-0-3****Prerequisites:** ARV 162

This course covers the development of the practices and skills used in print preparation and print reproduction.

**ARV 210 Computer Graphics II 3-0-3****Prerequisites:** ARV 110

This course is an advanced computer art course which includes a study of the creation of graphic design using electronic imagery.

**ARV 212 Digital Photography 2-3-3**

This course is a study of the principles, terminology, techniques, tools, and materials of basic digital photography. Images produced in this course will address the needs of the visual communication industry.

**ARV 219 Multimedia Techniques 3-0-3****Prerequisites:** ARV 163

This course is an introduction to the production of current audio-visual media.

**ARV 222 Computer Animation 3-0-3****Prerequisites:** ARV 228

This course introduces techniques of creating the illusion of motion and three-dimensional space.

**ARV 227 Web Site Design I 3-0-3****Prerequisites:** ARV 162

This course is an introduction to the production of an interactive world wide web site.

**ARV 228 Web Site Design II 2-3-3****Prerequisites:** ARV 227

This course covers a study of advanced web site design techniques culminating in an interactive web site.

**ARV 230 Visual Arts Bus Procedures 3-0-3**

This course covers a study of professional practices involved in the organization and operation of businesses concerned with the visual arts.

**ARV 234 Intro to Interior Design 3-0-3**

This course covers the historical, psychological, and sociological aspects of interior design, function, and the design process.

**ARV 235 Residential Interior Design 3-0-3****Prerequisites:** AET 110 and AET 120 and ARV 234

This course covers the design and presentation of small residential spaces.

**ARV 237 Materials and Estimating I 3-0-3**

This course places emphasis on various materials used in the field of interior design and how to calculate various amounts of the materials for purchasing. Students will receive an overview of textiles and their use in the field.

**ARV 238 History of Interiors 3-0-3**

This course is a study/lecture of the history of interiors as well as furniture beginning with Egyptian interiors and ending with Post-Modern furniture.

**ARV 239 AutoCAD for Interiors 2-3-3****Corequisites:** AET 110

This course is designed to introduce the interior design student to the basic components and functions of the personal computer as well as basic cad commands and techniques. Students will use the AutoCAD software system of computer aided drafting to complete a small house plan by the end of the course, reflecting the required information and presentation quality necessary to "professional" designers.

**ARV 261 Advertising Design I 3-0-3****Prerequisites:** ARV 121 and ARV 210 and ARV 162**Corequisites:** ARV 163

This course is an introduction to the advertising arts, including the principles, techniques, media, tools, and skills used in the visual communication field.

**ARV 262 Advertising Design II 3-0-3****Prerequisites:** ARV 261

This course covers advanced knowledge, practices, and skills in the visual communication field.

**ARV 264 Special Proj in Graphics Art 3-0-3****Prerequisites:** ARV 261

This course includes an advanced project as assigned from conception to final production.

**ARV 282 SCWE IN DIGITAL ARTS 0-2-4-6**

This course integrates digital arts skills within an approved worksite relating to the digital arts industry.

## AST – Astronomy

**AST 101 Solar System Astronomy 3-3-4**

This course is a descriptive survey of the universe with emphasis on basic physical concepts and the objects in the solar system. Related topics of current interest are included in the course.

**AST 102 Stellar Astronomy 3-3-4**

This course is a descriptive survey of the universe with emphasis on basic physical concepts and galactic and extra-galactic objects. Related topics of current interest are included in the course.

## BAF – Banking and Finance

**BAF 101 Personal Finance 3-0-3**

This course includes the practical applications of concepts and techniques used in managing personal finances. Major areas of study include financial planning, budgeting, credit use, housing, insurance, investments, and retirement planning.

**BAF 260 Financial Management 3-0-3**

This course is a study of financial analysis and planning. Topics include working capital management, capital budgeting, and cost of capital.

## BCT – Const Mgt/Timber Harvest

**BCT 200 SCWE IN BUILDING CONST TECH 0-2-4-6****Prerequisites:** AET 101 or CET 127

This course integrates building construction skills within an approved work site related to the construction industry.

## BIO — Biology

### BIO 101 Biological Science I 3-3-4

This university parallel transfer course is the first in a sequence of courses introducing biology through such topics as scientific method, basic biochemistry, cell structure and function, cell physiology, cell reproduction and development, Mendelian genetics, population genetics, natural selection, evolution and ecology.

### BIO 102 Biological Science II 3-3-4

**Prerequisites:** BIO 101

This university parallel transfer course is a continuation of introductory biology, including classification of organisms and structural and functional considerations of all kingdoms (particularly major phyla as well as viruses). Vertebrate animals and vascular plants are emphasized.

### BIO 105 Principles of Biology 3-3-4

This is an introductory biology course, unifying biology concepts and principles at all levels. This course introduces molecules and basic chemistry, cell structure and function, cellular metabolism and cell division as well as DNA structure and function and basic genetics. The course progresses into evolution and ecology and also provides an overview of animal and plant structure and function.

### BIO 112 Basic Anatomy and Physiology 3-3-4

This course is a basic integrated study of the structure and function of the human body.

### BIO 202 Botany 3-3-4

**Prerequisites:** BIO 101

This course is a study of cells, tissue, structure, growth, development, organization, energetics, and physiology of plants.

### BIO 210 Anatomy and Physiology I 3-3-4

This is the first in a sequence of courses, including an intensive coverage of the body as an integrated whole. All body systems are studied.

### BIO 211 Anatomy and Physiology II 3-3-4

**Prerequisites:** BIO 210

This is a continuation of a sequence of courses, including intensive coverage of the body as an integrated whole. All body systems are studied.

### BIO 225 Microbiology 3-3-4

**Prerequisites:** BIO 102 or BIO 211

This is a detailed study of microbiology as it relates to infection and the disease processes of the body. Topics include immunity, epidemiology, medically important microorganisms, and diagnostic procedures for identification.

## BKP — Baking & Pastry

### BKP 112 Intro to Baking Science 0-0-1

This course is the study of ingredient functions, product identification, weights and measures as they apply to baking. Students learn to identify various types of flours, leaveners, and pastry ingredients that affect the outcomes of their finished baked goods.

### BKP 119 Intro to Baking & Pastry 2-3-3

This course introduces baking fundamentals and classical baking techniques in a laboratory setting.

### BKP 121 Cake Decorate & Finish Tech 2-3-3

**Corequisites:** CUL 104

This course covers the techniques and assembling used in finishing theme cakes and international cakes with a variety of mediums used in commercial bakeshops.

### BKP 125 Hot and Cold Desserts 2-3-3

**Prerequisites:** BKP 112 and BKP 119

This course covers the principles of hot and cold desserts to include bombes, parfais, baked Alaska, ice cream, sorbets, sherbets, granitas, hand-stretched strudel, crepes and soufflé@s. Students will prepare desserts with suitable sauces and garnishes.

### BKP 181 Candies & Confectionaries 1-6-3

**Prerequisites:** BKP 112

This course focuses on the elements of making candies and confections. Students will develop a complete understanding of all components of chocolates, sugar, pastillage and marzipan, using basic patisserie principles.

### BKP 182 Artisan Breads 1-6-3

**Corequisites:** CUL 104

This course introduces the fundamental skills, concepts and techniques of artisan bread baking. Use of sponges, wild yeast, bigas and poolish will be incorporated in making authentic rustic bread. Students will make an assortment of international breads as well as breads for special occasions.

### BKP 183 Plated Desserts 1-6-3

**Prerequisites:** BKP 125 and BKP 222

This course focuses on the elements of modern dessert production and consumption. It stresses a thorough understanding and creation of all components of plated dessert production, using basic pastry principles.

### BKP 210 Advanced Cakes 2-3-3

**Prerequisites:** BKP 119

This course prepares students for advanced specialty cake production.

**BKP 220 Advanced Bakeshop 2-3-3****Prerequisites:** BKP 119

This course is a study of the preparation of advanced, classical, and international pastries. Emphasis is placed on producing quality, commercial baked goods.

**BKP 222 Chocolate and Sugar 1-6-3****Prerequisites:** BKP 112

This course is a study of chocolate artistry and sugar work to include tempering various types of chocolate for modeling and display work, as well as molding, pulling, and blowing sugar.

**BKP 236 Baking & Pastry Capstone 0-9-3****Prerequisites:** CUL 277

This course includes capstone competencies for baking and pastry students. Students work in a retail bakery producing an assortment of baked goods while managing and selling their products to the public.

## BUS — Business

**BUS 101 Introduction to Business 3-0-3**

This course is a study of the nature of business activity in relation to the economic society, including how a business is owned, organized, managed, and controlled.

**BUS 121 Business Law I 3-0-3****Prerequisites:** BUS 101 or AOT 134

This course is a study of legal procedures, law and society, classifications and systems of law, the tribunals administering justice and their actions, contracts, sales, transfer of titles, rights and duties of the parties, conditions, and warranties.

**BUS 152 Service Culture Development 1-0-1**

This course is a study of the philosophy, principles, processes and behavior, both individual and group, necessary to create and maintain a service culture in an organization.

**BUS 210 Intro to E-Commerce in Bus 3-0-3**

This course is the study of electronic commerce and the operations and applications from the business perspective. Emphasis is placed on business concepts and strategies and how they apply to the process of buying and selling goods and services online.

**BUS 220 Business Ethics 3-0-3**

This course includes an exploration of ethical issues arising in the context of doing business. Representative topics: employee rights and responsibilities, corporate regulations and rights, discrimination, truth in advertising, employee privacy, environmental exploitation and free enterprise.

**BUS 240 Business Statistics 3-0-3**

This course studies statistical methods related to business, including descriptive statistics, probability, binomial and normal distributions, and hypothesis testing.

**BUS 270 SCWE in Business 0-12-3****Prerequisites:** MKT 101 or MGT 101 or ACC 101 and BUS 101

This course includes the integration of business skills within an approved work site related to business and industry.

## CET — Civil Engineering Tech

**CET 127 Building Const & Print Reading 3-3-4**

This course is a study of construction methods and print reading.

**CET 140 Construction Financial Managem 3-0-3**

This course is the study of the fundamental financial management principles and accounting systems used to manage a construction company.

**CET 210 Strength of Materials 2-3-3****Prerequisites:** EGR 190 or EGR 260

This course is a study of the effects of applying various types of allowable stresses and strains.

**CET 216 Soil Mechanics 2-3-3**

This course studies soil types, their engineering properties, and techniques of field and laboratory identification and testing.

**CET 218 Hydraulics 2-3-3**

This course is a study of the fundamentals of flow, control, flow through open and closed conduits, and determination of pressure and head losses in simple and complex piping systems.

**CET 230 Construction Management 2-3-3****Prerequisites:** EGR 170 and CET 127

This course studies the management of construction firms, including one or more of the following areas: bidding process, contracts, job costs, labor costs, and labor relations.

**CET 242 Concrete Design 2-3-3****Prerequisites:** CET 210 or EGR 190 or EGR 260

This course covers the design of concrete structural members according to the ACI codes, quality control of concrete, and structural inspection.

**CET 245 Cost Estimating 2-3-3**

This course studies project cost, analysis and quantity takeoffs through the use of proven construction estimating techniques. Computer spreadsheet software is utilized throughout the course.

**CET 246 Environmental Systems Tech 2-3-3**

This course studies the sources, treatment, collection and distribution of water and waste water.

**CET 251 Highway Design** 2-3-3

This course covers a study of the design and construction of highways.

**CET 252 Special Topics in Eng Tec** 3-0-3

This course studies current, relevant topics in the field of civil engineering technology.

**CET 260 Constr Manag Senior Project** 2-3-3

**Prerequisites:** CET 230

This capstone course promotes the integration of the knowledge and skills of the construction management technology field.

## CHM – Chemistry

**CHM 105 Gen Organic and Biochemistry** 3-3-4

This course is a study of the fundamental principles of chemistry, including atomic and molecular structure, common substances and reactions, introduction to organic chemistry and biochemistry.

**CHM 110 College Chemistry I** 3-3-4

This is the first course in a sequence which includes the following topics: atomic and molecular structure, nomenclature and equations, properties, reactions and states of matter, stoichiometry, gas laws, solutions, and equilibria.

**CHM 111 College Chemistry II** 3-3-4

**Prerequisites:** CHM 110

(For students continuing in chemistry) this course is a continuation of the study of atomic and molecular structure, nomenclature and equations, properties, reactions and states of matter, stoichiometry, gas laws, solutions, and equilibria. Other topics included are kinetics, thermodynamics, and electrochemistry.

**CHM 211 Organic Chemistry I** 3-3-4

**Prerequisites:** CHM 111

This is the first in a sequence of courses that includes nomenclature, structure and properties, and reaction mechanisms of basic organic chemistry.

**CHM 212 Organic Chemistry II** 3-3-4

**Prerequisites:** CHM 211

This course is a continuation of basic organic chemistry. Topics include nomenclature, structure and properties, reaction mechanisms of basic organic chemistry, biochemistry, and spectroscopy.

## COL – College Skills

**COL 105 Freshman Seminar** 3-0-3

This course is a study of the purposes of higher education and provides a general orientation to the functions and resources of the college. The course is designed to help freshmen adjust to the college community, develop a better understanding of the learning process, and acquire essential academic survival skills. An emphasis will be placed on the technology skills needed for academic success at the college level.

## COS – Cosmetology/Esthetics

**COS 106 Facials and Makeup** 1-6-3

**Prerequisites:** COS 155

**Corequisites:** COS 108, COS 112, COS 130, COS 220

This is an introductory course to the procedures for various skin treatments, including anatomy, chemistry, and safety.

**COS 108 Nail Care** 1-6-3

**Prerequisites:** COS 155

This course is a study of nail structure and manicuring techniques, including anatomy, chemistry and safety.

**COS 110 Scalp and Hair Care** 0-9-3

**Prerequisites:** COS 220

**Corequisites:** COS 201, COS 222

This course is a study of the structure and composition of hair, including the analysis and treatment of certain conditions of the hair and scalp.

**COS 112 Shampoo and Rinses** 1-9-4

**Prerequisites:** COS 114, COS 116, COS 155, COS 206, COS 210

This course is a study of procedures and safety precautions in the application of shampoo and rinses.

**COS 114 Hair Shaping** 1-9-4

**Prerequisites:** MAT 032, ENG 032

**Corequisites:** COS 116, COS 155, COS 206, COS 210

This is an introductory course to the techniques of hairshaping. Emphasis is given to the correct use and safety of implements, proper hair sectioning, and various techniques used in hair design in relationship to body structure.

**COS 116 Hair Styling I** 0-12-4

This course is a study of the fundamentals of hair design, including principles, techniques, safety precautions, and chemistry.

**COS 130 Professional Image** 1-3-2

**Prerequisites:** COS 155

This course is an introductory course that includes an overview of professionalism. Emphasis is on conduct, ethics, appearance and interpersonal skills.



**COS 151 Dermatology 1 - 6 - 3**

This course is the study of the structure, functions, conditions and disorders of the skin.

**COS 152 Hygiene and Sanitation 2 - 0 - 2**

This course is a study of professional hygiene and various methods of sanitation for facial implements and equipment used in the salon.

**COS 155 Sanitation Proc in Cosmetology 1 - 3 - 2**

This course is the study of methods for sanitation and hygiene, with emphasis placed on the requirements and guidelines of the cosmetology profession.

**COS 156 Fundamentals of Massage 0 - 6 - 2**

This is an introductory course in the theory, preparation, manipulations, and safety measures of massage.

**COS 157 Elec Currents and Hair Removal 3 - 0 - 3**

This course is a study of electrical currents as they relate to hair removal services. Emphasis is placed on the types of electrical currents associated with varying equipment. Topics also include proper procedures, safety measures, and sanitation practice.

**COS 158 Facial Treatments 0 - 6 - 2**

This is an introductory course in the procedures for various skin treatments and safety.

**COS 164 Basic Makeup and Application 3 - 0 - 3**

This is an introductory course in makeup application, including purpose, effects, supplies, implements, preparation, procedures, and safety.

**COS 201 Salon Management 1 - 6 - 3**

**Prerequisites:** COS 130 and COS 155

This course is a study of salon management, including rules, regulations, and codes governing the practice of cosmetology.

**COS 206 Chemical Hair Waving 1 - 6 - 3**

This course is a study of methods of permanently waving the hair, including product, chemistry, and safety.

**COS 210 Hair Coloring 0 - 9 - 3**

This course is a study of the science and art of coloring the hair, including methods, procedures, safety precautions, and chemistry.

**COS 220 Cosmetology Clinical Pract I 0 - 9 - 3**

**Prerequisites:** COS 114, COS 116, COS 155, COS 206, COS 210

This course is an integration of cosmetology skills in a simulated salon environment.

**COS 221 Facial Practice I 0 - 6 - 2**

This course is an integration of massage and facial skills in a simulated salon environment.

**COS 222 Cosmetology Clinical Prac II 0 - 9 - 3**

**Prerequisites:** COS 220 and COS 112 and COS 155

This course is an integration of cosmetology skills in a simulated salon environment to provide additional practical hours in skill development.

## CPT — Computer & Info Systems

**CPT 162 Intro to Web Page Publishing 2 - 3 - 3**

**Prerequisites:** IST 226 and CPT 187

This course studies the fundamentals of website design and implementation.

**CPT 168 Programming Logic and Design 2 - 3 - 3**

This course studies problem-solving techniques applied to program design. Topics include a variety of documentation techniques as means of solution presentation.

**CPT 170 Microcomputer Applications 2 - 3 - 3**

This course introduces microcomputer applications software, including word processing, data bases, spreadsheets, graphs, and their integration.

**CPT 187 Object-Oriented Logic & Design 2 - 3 - 3**

**Prerequisites:** CPT 168

This is a study in the planning and implementation of object-oriented programs.

**CPT 208 Special Topics in Comp Tech 2 - 3 - 3**

**Prerequisites:** IST 215

This course focuses on changes in computer technology.

**CPT 209 Computer Systems Management 2 - 3 - 3**

This course examines the methods and procedures used in maintaining microcomputer systems. Topics include hardware and software installation, configuration, operations, and troubleshooting.

**CPT 236 Intro to Java Programming 2 - 3 - 3**

**Prerequisites:** CPT 187

This course is an introduction to java programming. Topics will cover java syntax and classes for use in the development of java applications and applets.

**CPT 237 Advanced Java Programming 2 - 3 - 3**

**Prerequisites:** CPT 236

This course is a study of advanced topics of the java programming language by building on a basic knowledge of the java language. Topics covered will include multi-threading, swing classes, swing event models, advanced layout managers, the javabean component model, network programming and server-side programming.

**CPT 242 Database 2-3-3****Prerequisites:** CPT 187

This course introduces database models and the fundamentals of data base design. Topics include data base structure, data base processing, and application programs which access a data base.

**CPT 262 Advanced Web Page Publishing 2-3-3****Prerequisites:** CPT 162

This course is a study of advanced techniques in web page design and implementation.

**CPT 264 Systems and Procedures 2-3-3****Prerequisites:** CPT 242

This course is a study of the techniques of system analysis, design, development, and implementation.

**CPT 270 Adv Microcomputer Applications 2-3-3****Prerequisites:** CPT 170

This course emphasizes the integration of popular microcomputer software packages using advanced concepts in microcomputer applications software.

**CPT 280 SCWE in Computer Technology 0-12-3****Prerequisites:** CPT 242

This course integrates computer technology skills within an approved work site related to the computer industry.

**CPT 282 Info Systems Security 2-3-3**

This course is the study of the protection of information and equipment in computer systems. Topics include all aspects of systems protection, including physical security, hardware, software and communications security. Addresses technical, legal and ethical issues.

## CRJ — Criminal Justice

**CRJ 101 Intro to Criminal Justice 3-0-3**

This course includes an overview of the functions and responsibilities of agencies involved in the administration of justice to include police organizations, court systems, correctional systems, and juvenile justice agencies.

**CRJ 115 Criminal Law I 3-0-3**

This course covers the development of criminal law in the U.S. & reviews the basic elements of specific criminal offenses, criminal defenses, and various legal principles upon which criminal law is established are reviewed. This course is designed to familiarize the criminal justice student with criminal law in general and in South Carolina in particular.

**CRJ 120 Constitutional Law 3-0-3**

This course covers the analysis of the historical development of the U.S. Constitution and the relationship of rights contained therein to the State and the individual. The application of the Bill of Rights to federal and state systems is examined.

**CRJ 125 Criminology 3-0-3**

This course is a study of the various theories of criminal causation and control, the identification of criminal typologies and the reaction of society to crime and criminals.

**CRJ 130 Police Administration 3-0-3****Prerequisites:** CRJ 101

This course is a study of the organization, administration, and management of law enforcement agencies.

**CRJ 141 Forensic & Investigative Writ 3-0-3****Prerequisites:** CRJ 235

This course is a study of proper investigative and crime lab documentation through focused observational and writing skills. Effective techniques in the development of a criminal case file are examined, as well as the ethical and legal pitfalls encountered through poorly written documentation.

**CRJ 145 Juvenile Delinquency 3-0-3****Prerequisites:** CRJ 125**Corequisites:** CRJ 101

This course includes a survey of the sociological, biological, and psychological theories involved in juvenile delinquency, modern trends in prevention, and treatment.

**CRJ 197 Adv Fingerprint Classification 3-0-3****Prerequisites:** CRJ 235

This course is an advanced study of pattern types, classification filing sequence, searching and referencing. Additionally, coursework will include an introduction to Automated Fingerprint Identification (AFIS).

**CRJ 198 Fingerprint Classification I 3-0-3****Prerequisites:** CRJ 235

This course introduces the basic elements of fingerprint technology and techniques including the history and meaning of fingerprints, pattern types and classification filing sequence, searching and referencing.

**CRJ 199 Xrays as Investigativ Tls & Ev 3-0-3****Prerequisites:** CRJ 235

This course is an introduction to the use of X-rays as an investigative tool in cases associated with injury and trauma such as battered child syndrome. The course will be an examination of the role that X-rays play in analysis of evidence and in support of courtroom testimony.

**CRJ 200 Bsc Latent Prnt Dev & Coll 3-0-3****Prerequisites:** CRJ 235

This course is an introduction to the value of latent fingerprint evidence, the various conditions that affect the development and recovery of latent fingerprints, and the optimum methods of processing items of evidence found in crime scenes.

- CRJ 201 Fingerprint Science** 2-3-3  
This course includes a basic, practical approach to fingerprint classification, identification, and filing system for the police officer, investigator, or beginning fingerprint technician.
- CRJ 202 Criminalistics** 3-0-3  
This course covers an introduction to investigative techniques which stress the examination of questioned documents, fingerprint techniques, polygraph examinations, firearms' identifications, pathology, toxicology, ballistics, and clandestine operations.
- CRJ 203 Forensic Photography** 3-0-3  
**Corequisites:** CRJ 101  
This course is designed to introduce students to procedures for photographic documentation of crime scenes and physical evidence, including preparation of court exhibits and in-court presentations.
- CRJ 204 Adv Crime Scene & Inv Photo** 3-0-3  
**Prerequisites:** CRJ 235 CRJ 235  
This course is the study of advanced photography procedures and methodologies used in the documentation of crime scenes and forensic evidence to encompass the use of forensic light sources, digital imaging and the preparation and presentation of courtroom exhibits.
- CRJ 206 Adv Tech in Fingerprint Dev/Co** 3-0-3  
**Prerequisites:** CRJ 235  
This course examines the application and use of enhancement techniques, procedures and equipment, including the variety of powders used for the development of latent print evidence. Coursework is applied to different environments found in the field at crime scenes and in the crime lab.
- CRJ 217 CSI for Maj Incident/Mass Crim** 3-0-3  
**Prerequisites:** CRJ 235  
This course introduces students to securing, documenting and processing a large geographical crime scene. Topics include implementation of an effective incident command system, obtaining necessary resources, & overcoming unexpected obstacles associated with investigating a large geographical event.
- CRJ 218 Crisis Intervention** 3-0-3  
**Prerequisites:** CRJ 235  
This course is a study of the situational procedures and techniques necessary in defusing situations identified as crises.
- CRJ 220 The Judicial Process** 3-0-3  
**Prerequisites:** CRJ 101, 120  
This course is an overview of the law-making function of the courts, the growth of common law, the structure and organization of the courts, court processes and procedures involved in criminal and civil cases, and the question of reform for the administration of justice.
- CRJ 224 Police Community Relations** 3-0-3  
**Prerequisites:** CRJ 101, 130  
This course is a study of the importance of two-way communication between the criminal justice system and the community to foster a working relationship to control crime. A variety of topics are studied, including citizen involvement in crime prevention and police officer interpersonal relations.
- CRJ 225 Impression Evidence** 3-0-3  
**Prerequisites:** CRJ 235  
This course provides a study of the fundamental concepts of footwear and tire imprint evidence as related to forensic science, proper photographic recording, casting, and imprint identification.
- CRJ 226 Adv Bloodstain & Firearm Patt** 3-0-3  
**Prerequisites:** CRJ 229, CRN 235  
This course examines the principles and techniques used to establish the parameters in bullet trajectory and bloodstain pattern analysis as they relate to crime scene reconstruction.
- CRJ 227 Collection & Prs of Bio Evid** 3-0-3  
**Prerequisites:** CRJ 235  
This course is designed to introduce students to the proper collection and preservation of biological evidence used to connect the crime scene with a suspect. The need for precise collection records and use of established methods that are required for crime scene sample analysis.
- CRJ 228 Homicide Investigation** 3-0-3  
**Prerequisites:** CRJ 235, CRJ 229  
This course is an overview of the elements involved in death investigations to include crime scene evaluation and documentation, comprehension of forensic evidence, investigative strategies and case and courtroom presentations.
- CRJ 229 Bloodstain Pattern Analysis** 2-3-3  
**Prerequisites:** CRJ 101, CRJ 202, CRJ 203  
This course is an introduction to the theoretical foundations and scientific principles of bloodstain pattern analysis in the investigation of crimes of violence, including the properties, flight characteristics and bloodstain patterns, documentation and investigative significance of bloodstains.
- CRJ 230 Criminal Investigation I** 3-0-3  
**Prerequisites:** CRJ 120  
**Corequisites:** CRJ 101  
This course is a study of the fundamentals of interviewing witnesses and interrogating suspects. Different methods of conducting crime scene searches and methods used in investigating various crimes are studied in the course.
- CRJ 233 Cyber Crimes & the Law** 3-0-3  
This course examines the problem of crime involving computers and the strategies used for identification, investigation and prosecution.

**CRJ 235 Practical Crime Scene Investig** 2-3-3**Prerequisites:** CRJ 101, CRJ 201, CRJ 203, CRJ 229

This course is the study of practical, hands-on instruction in methodology and policies for the identification, interpretation, collection, packaging, preservation, and chain of custody of crime scenes and evidence taken from the crime scenes.

**CRJ 236 Criminal Evidence** 3-0-3**Prerequisites:** CRJ 115, CRJ 120, CRJ 220

This course studies established rules of evidence from arrest to release in the administration of criminal justice. The course focuses on the relationship between evidence and criminal procedure. The course will examine the path that evidence takes from arrest through presentation in court including the rules of evidence, examination of evidence, examination of witnesses, articles and exhibits, opinion evidence, and jury process and verdict.

**CRJ 239 Terrorism & Homeland Security** 3-0-3

This course provides an overview of the problem of terrorism and homeland security efforts by drawing on several disciplines. An emphasis is placed on problems and countermeasures within an "all-hazards" approach to protecting people and assets.

**CRJ 241 Transportation & Border Secur** 3-0-3**Prerequisites:** CRJ 101, CRJ 120, CRJ 233, CRJ 239

This course provides an in-depth view of modern border and transportation security. Specific topics include security for seaports, ships, aircraft, trains, trucks, pipelines, buses, and other types of transportation, as well as a study of the technology needed to for terrorist and weapon detection.

**CRJ 242 Correctional Systems** 3-0-3**Prerequisites:** CRJ 101, CRJ 125

This course is an introduction to aspects of the correctional function in criminal justice, including organization, process, procedure, and clients incarcerated and on conditional release.

**CRJ 245 Intel Analysis & Secur Mgmt** 3-0-3**Prerequisites:** CRJ 101, CRJ 120, CRJ 233, CRJ 239

This course examines intelligence analysis and its relationship to the security management of terrorist attacks, man-made disasters and natural disasters. Topics will also include the related vulnerabilities of our national defense and private sectors.

**CRJ 260 Seminar in Criminal Justice** 3-0-3**Prerequisites:** CRJ 125, CRJ 130, ENG 101, ENG 102**Corequisites:** CRJ 236, SPC 205

This course includes a study of new trends in criminal justice. This course through an internship of 135 clock hours, a portfolio development and presentation allows the criminal justice student to demonstrate effective skills and competencies based on the courses successfully completed for the Associate in Applied Science in Criminal Justice. The course is a second-year course limited to those students who are completing the Associate in Applied Science in Criminal Justice, and is one of the final courses the criminal justice student attempts. Instructor of Record or Department Chair permission required.

**CRJ 264 Alt Methods in Latent Print De** 3-0-3

This course examines the application of development and enhancement techniques through the use of forensic chemicals and related equipment including iodine fuming, Silver Nitrate, and other regents, to develop latent fingerprints and other impressions on physical evidence from crime scenes.

**CUL – Culinary Arts****CUL 104 Intro to Culinary Arts** 3-0-3

This survey course introduces students to the world of culinary arts. Students will be exposed to culinary history, culinary organizations and branches of the culinary field that offer different opportunities in the profession.

**CUL 105 Kitchen Fundamentals** 2-3-3

This course introduces students to the foundations of sanitation, basic measurements, equipment identification and basic costing.

**CUL 112 Classical Found of Cooking** 2-3-3

This course introduces classical cooking techniques that include stock, soup and sauce making. Students apply moist and dry heat classical cooking techniques while working with grains, vegetables and proteins.

**CUL 113 Success in Hospitality Studies** 1-0-1

This course provides an orientation on resources and academic skills to achieve success in a hospitality program. Emphasis is placed on technical, interpersonal and study skills, ethics, professionalism and time management.

**CUL 118 Nutritional Cooking** 2-3-3

This course focuses on the principles of food nutrition (based on ADA standards) and international food pyramids. Students will create menus, prepare and cook meals while adhering to the principles of a balanced diet.

**CUL 123 American Bistro** 1-6-3

Students will apply cooking techniques and theories while producing soups, salads, sandwiches and specials in a fast-paced delivery system.

**CUL 128 Culinary Mgmt & Human Resource 2-3-3**

This course is the study of the theories and concepts of management with an emphasis on human relations skills and managerial techniques as applied to chefs and kitchen managers. Legal aspects of the industry are introduced as part of human resources and executive team responsibilities.

**CUL 129 Storeroom & Purchasing 2-3-3**

This course combines purchasing theory with practical experience in the storeroom. Students develop skills in purchasing, developing requisitions, food transfers, inventory and organization of the storeroom.

**CUL 171 Food & Beverage Controls 3-0-3**

**Prerequisites:** CUL 235 and MAT 155

This course covers the principles and procedures involved in an effective food and beverage control system including standards determination, operating budgets, cost-volume-profit analysis, income and cost control, menu pricing, labor cost control, and computer applications related to these concepts.

**CUL 186 Mediterranean Cuisine 2-3-3**

This course is the study of the cuisine of the Mediterranean and the Mediterranean Dietary Pyramid, including Spain, France, Italy, Middle East, and North Africa. Emphasis is on the culture, cooking methods, food products and beverages of the various countries.

**CUL 187 Cuisines of Asia 2-3-3**

This course covers the basic influences, ingredients, utensils, and cooking techniques of various Asian cuisines. Students will identify the influence of Asian cuisines on western cooking and the development of East meets West cooking. Students prepare, taste, serve and critique regional dishes of China, Japan, Korea, Vietnam, Thailand and India.

**CUL 215 Cuisine of the Americas 2-3-3**

This course is a study of the cuisine of the culinary regions of the United States, South and Central America, Mexico and the Caribbean.

**CUL 220 Intro to Garde Manger 2-3-3**

This production course provides students with skills and knowledge of the organization, equipment and responsibilities of the cold kitchen. Students are introduced to classical garde manger techniques; salad and salad dressings, sandwiches, cured and smoked meats, sausage, terrines and pates, canapes, hors d'oeuvres, cold soups, vegetable and fruit displays, basic cheese knowledge and buffet presentation. Students must pass a written and practical exam.

**CUL 235 Menu Planning 3-0-3**

**Prerequisites:** CUL 112

This course is a study of the principles of menu planning and design with application of basic nutrition, organization plans, and recordkeeping techniques.

**CUL 236 Restaurant Capstone 1-6-3**

This course will include capstone competencies for culinary arts students. Students will manage and work multiple stations, develop food specials, cost menus, take inventories, produce a menu analysis and expedite food from the kitchen to the dining room.

**CUL 238 Culinary Marketing 2-3-3**

**Prerequisites:** CUL 128

This course is a study of marketing strategies to promote the chef, the menu and the restaurant or food-service establishment.

**CUL 277 SCWE in Culinary Arts 0-12-3**

**Prerequisites:** or BKP 119 and BKP 112

**Corequisites:** CUL 215, BKP 119

This course integrates culinary skills at an approved work site related to the culinary industry.

**CUL 299 Special Topics in Cul Studies 2-3-3**

This course will focus on a special topic in culinary or baking pastry arts such as regional world cuisines, food history, or current trends.

## CWE — Cooperative Work Exp

**CWE 101 Coop Work Exp Preparation 0-5-1**

**Prerequisites:** *This course includes cooperative work experience in an approved setting. Course numbers vary per semester. CWE may be taken for 1 to 8 credit hours, depending on weekly hours of student employment. CWE courses require 5 contact hours for one credit hour. Enrollment in CWE courses must be approved by the faculty advisor. (varying credit)*

This course includes cooperative work experience in an approved setting. Course numbers vary per semester. CWE may be take fro 1 to 8 credit hours, depending on weekly hours of student employment.

## DAT — Dental Assisting

**DAT 113 Dental Materials 3-3-4**

**Corequisites:** DAT 118, DAT 127, DAT 154

This course is a study of physical and chemical properties of matter and identification, characteristics, and manipulation of dental materials.

**DAT 115 Ethics and Professionalism 1-0-1**

**Prerequisites:** DAT 113 and DAT 118 and DAT 127 and DAT 154

**Corequisites:** DAT 121, DAT 122, DAT 123, DAT 183, DAT 174

This course introduces a cursory history of dental assisting, professional associations, scope of service in dentistry, and ethical, legal and professional considerations. The state dental practice act is reviewed.

**DAT 118 Dental Morphology 2-0-2****Corequisites:** DAT 113, DAT 127, DAT 154

This course emphasizes the development, eruption, and individual characteristics of each tooth and surrounding structures.

**DAT 121 Dental Health Education 1-3-2****Prerequisites:** DAT 113 and DAT 118 and DAT 127 and DAT 154**Corequisites:** DAT 122, DAT 123, DAT 183, DAT 174, DAT 115

This course defines the responsibilities of the dental assistant in individual and community dental health education with emphasis on the etiology of dental disease, methods for prevention, and principles of nutrition in relationship to oral health and preventive dentistry.

**DAT 122 Dental Office Management 1-3-2****Prerequisites:** DAT 113 and DAT 118 and DAT 127 and DAT 154**Corequisites:** DAT 121, DAT 123, DAT 183, DAT 174, DAT 115

This course provides a study of the business aspect of a dental office.

**DAT 123 Oral Medicine/Oral Biology 3-0-3****Prerequisites:** DAT 113 and DAT 118 and DAT 127 and DAT 154**Corequisites:** DAT 121, DAT 122, DAT 183, DAT 174, DAT 115

This course presents a basic study of oral pathology, pharmacology, nutrition, and common emergencies as related to the role of the Dental Assistant.

**DAT 127 Dental Radiography 3-3-4****Corequisites:** DAT 113, DAT 118, DAT 154

This course provides the fundamental background and theory for the safe and effective use of x-radiation in dentistry. It encompasses the history of x-rays, production and uses of radiation, radiographic film, exposure factors, interpretation of radiographs and radiation hygiene.

**DAT 154 Clinical Procedures I 2-6-4****Corequisites:** DAT 113, DAT 118, DAT 127

This course includes preparation to assist a dentist efficiently in four-handed dentistry. Emphasis is on the names and functions of all dental instruments, the principles involved in their use, and the assistants' role in dental instrumentation.

**DAT 174 Office Rotations 1-9-4****Prerequisites:** DAT 113 and DAT 118 and DAT 127 and DAT 154**Corequisites:** DAT 121, DAT 122, DAT 123, DAT 183, DAT 115

This is an introductory course to a general office with emphasis placed on chair side assisting and office management.

**DAT 177 Dental Office Experience 1-18-7****Prerequisites:** DAT 113 and DAT 118 and DAT 127 and DAT 154 and DAT 115 and DAT 121 and DAT 122 and DAT 123 and DAT 174 and DAT 183

This course consists of practice in the dental office or clinic with rotation of assignments to encompass experiences in office management and clinical experience in all areas of dentistry.

**DAT 183 Specialty Functions 1-6-3****Prerequisites:** DAT 113 and DAT 118 and DAT 127 and DAT 154**Corequisites:** DAT 121, DAT 122, DAT 123, DAT 174, DAT 115

This course is an introduction to dental specialties, the refinement, and the roles served by assistants in the dental specialties, and the expanded legal functions for qualified assistants.

## DHG – Dental Hygiene

**DHG 121 Dental Radiography 2-3-3****Prerequisites:** AHS 113 and BIO 211 and BIO 225 and DHG 125 and DHG 151**Corequisites:** DHG 141, DHG 165, DHG 243, SPC 205

This course provides the application of the principles of radiology with emphasis on exposing, processing, mounting, evaluating, and interpreting dental radiographs. Radiation safety is stressed.

**DHG 125 Tooth Morphology and Histology 1-3-2****Prerequisites:** BIO 210 and ( CHM 105 or CHM 110 ) and ENG 101 and MAT 101**Corequisites:** AHS 113, BIO 211, BIO 225, DHG 151

This course covers the embryogenesis and histology of the head and neck structures with primary emphasis on the oral cavity. The formation, eruption patterns, and morphology of primary and permanent dentitions are studied.

**DHG 140 General and Oral Pathology 2-0-2****Prerequisites:** DHG 175 and DHG 239 and PSY 201**Corequisites:** DHG 143, DHG 230, DHG 241, DHG 255

This course provides a correlation of basic pathologic principles of disease processes in the oral cavity. The role of the dental hygienist in early disease detection is emphasized. Diagnosis, treatment and prognosis of diseases affecting the head and neck are discussed.

**DHG 141 Periodontology 1-3-2****Prerequisites:** AHS 113 and BIO 211 and BIO 225 and DHG 125 and DHG 151**Corequisites:** DHG 121, DHG 165, DHG 243, SPC 205

This is a study of the principles, etiologies, classifications and treatments of periodontal disease with emphasis on the role of the dental hygienist.

**DHG 143 Dental Pharmacology 2-0-2****Prerequisites:** DHG 175 and DHG 239 and PSY 201**Corequisites:** DHG 140, DHG 230, DHG 241, DHG 255

This course provides a study of drugs used in dentistry. Emphasis is on the physical and chemical properties of the drugs, dosages and therapeutic effects, methods of administration, and indications/contraindications for the use of the drug. A study of dental anesthetics is included.

**DHG 151 Dental Hygiene Principles 3-6-5****Prerequisites:** BIO 210 and ( CHM 105 or CHM 110 ) and ENG 101 and MAT 101**Corequisites:** AHS 113, BIO 211, BIO 225, DHG 125

This course is a study of the principles of infection control and hazardous waste communication; instrumentation, instrument design; operator and patient positioning; operation of basic dental equipment; patient evaluation and medical history review.

**DHG 165 Clinical Dental Hygiene I 2-9-5****Prerequisites:** AHS 113 and DHG 125 and DHG 151 and BIO 211 and BIO 225**Corequisites:** DHG 121, DHG 141, DHG 243, SPC 205

This is an introductory course to the clinical setting for application of dental hygiene skills for patient care.

**DHG 175 Clinical Dental Hygiene II 2-9-5****Prerequisites:** DHG 121 and DHG 141 and DHG 165 and DHG 243**Corequisites:** SPC 205, DHG 239, PSY 201

This course provides for the continued development of the skills necessary to perform dental hygiene care. Emphasis is placed on total patient care and treatment planning.

**DHG 230 Public Health Dentistry 2-3-3****Prerequisites:** DHG 175 and DHG 239 and PSY 201**Corequisites:** DHG 140, DHG 143, DHG 241, DHG 255

This course provides a study of oral health and the prevention of oral disease in a community. Emphasis is on assessment of community groups and dental health needs, planning, implementation, and evaluation of community programs.

**DHG 239 Dental Assisting for DHGs 1-3-2****Prerequisites:** DHG 121 and DHG 141 and DHG 165 and DHG 243**Corequisites:** SPC 205, DHG 175, PSY 201

This course introduces the dental assisting role and responsibilities. Emphasis is on four-handed dentistry, the use and manipulations of dental materials, and office management.

**DHG 241 Integrated Dental Hygiene I 0-3-1****Prerequisites:** DHG 175 and DHG 239 and PSY 201**Corequisites:** DHG 140, DHG 143, DHG 230, DHG 255

This course provides for the integration of the basic and dental hygiene sciences with current concepts of clinical dental hygiene practice.

**DHG 242 Integrated Dental Hygiene II 0-3-1****Prerequisites:** DHG 140 and DHG 143 and DHG 230 and DHG 241 and DHG 255**Corequisites:** DHG 265, SOC 101

This course provides for the integration of the basic and dental sciences with current dental hygiene concepts. Emphasis is placed on ethical/legal aspects of dental hygiene practice and practice management techniques to include infiltration anesthesia.

**DHG 243 Nutrition and Dental Health 2-0-2****Prerequisites:** AHS 113 and DHG 125 and DHG 151 and BIO 211 and BIO 225**Corequisites:** DHG 121, DHG 141, DHG 165, SPC 205

This course studies nutrients, their nature, source and utilization. Emphasis is placed on the relationship between diet and oral health. Oral manifestations of nutritional deficiencies are also studied.

**DHG 255 Clinical Dental Hygiene III 1-12-5****Prerequisites:** DHG 175 and DHG 239 and PSY 201**Corequisites:** DHG 140, DHG 143, DHG 230, DHG 241

This course provides for the development of proficiency in the clinical dental hygiene setting with emphasis on the implementation of treatment plans to meet the individual patient's oral health needs.

**DHG 265 Clinical Dental Hygiene IV 0-15-5****Prerequisites:** DHG 140 and DHG 143 and DHG 230 and DHG 241 and DHG 255**Corequisites:** DHG 242, SOC 101

This course permits refinement of clinical techniques and skills, technology and current procedural practices of the dental hygienist with emphasis on self-evaluation and quality assurance.

## DMS — Diagnostic Med Sonography

**DMS 101 Ultrasound Physics and Instr I 2-0-2****Prerequisites:** DMS 164

This course is a study of fundamental principles of acoustic physics including sound waves, sound wave propagation, sound wave interactions, image production, ultrasound transducers, transducer arrays, transducer operation, imaging modes, and biological effects.

**DMS 112 Ob/Gyn Sonography I 2-3-3**

This course studies sonographic imaging methods of the female pelvis, the fetus and the gravid uterus, emphasizing anatomy, physiology, pathology, and embryology.

**DMS 114 DMS Cross Sectional Anatomy 2-3-3**

This course is a study of cross-sectional and sagittal anatomy of the abdomen along with basic scanning techniques.

**DMS 120 Sonographic Instrumentation II 3-0-3****Prerequisites:** DMS 101

This course is an advanced study of machine instrumentation, including display modes, components of an ultrasound system, quality control, an introduction to Doppler, the biological effects of ultrasound, artifacts, and future trends.

**DMS 122 Abdominal Sonography 0-3-1****Prerequisites:** DMS 101

This course is a study of the less common but significant pathological conditions of the abdominal organs and systems, advanced disease processes, differential diagnosis associated with these pathologies, and advanced scanning methods.

**DMS 124 Ob/Gyn Sonography II 1-3-2****Prerequisites:** DMS 112

This course is an advanced study of the gynecological pathologic processes, including fetal anomalies/abnormalities and advanced fetal gestational age testing.

**DMS 155 Clinical Education I 0-2-4-8****Prerequisites:** DMS 164

This course is a supervised clinical experience and practice designed to introduce the student to the diagnostic ultrasound department.

**DMS 164 Intro to Clinical Education 0-6-2**

This course is a supervised clinical experience and practice designed to introduce the student to the Diagnostic Ultrasound Department.

**DMS 166 Advanced Clinical Education 0-2-1-7****Prerequisites:** DMS 155

This course is supervised clinical experience and practice designed to continue and advance the student's ultrasound scanning skills and techniques.

**DMS 167 Imaging Practicum 0-2-4-8****Prerequisites:** DMS 165 or DMS 166

This course is supervised clinical experience and practice designed to continue and advance the student's ultrasound scanning skills and techniques. This clinical course also provides an opportunity for students to explore advancements in sonography.

## ECD — Early Childhood Dev

**ECD 101 Intro to Early Childhood 3-0-3**

This course is an overview of growth and development, developmentally appropriate curriculum, positive guidance techniques, regulations, health, safety, and nutrition standards in early care and education. Professionalism, family/cultural values and practical applications based on historical and theoretical models in early care and education are highlighted in this course.

**ECD 102 Growth and Development I 3-0-3**

This course is an extensive study of philosophies and theories of growth and development of infants/toddlers. Focus is on "total" development of the child, with emphasis on physical, social, emotional, cognitive, and nutritional areas. Developmental tasks and appropriate activities are explored in the course.

**ECD 105 Guidance-Classroom Management 3-0-3****Prerequisites:** ECD 102**Corequisites:** ENG 101 or ENG 155

This course is an overview of developmentally appropriate, effective guidance and classroom management techniques for the teacher of young children. A positive pro-active approach is stressed in the course.

**ECD 107 Exceptional Children 3-0-3**

This course includes an overview of special needs children and their families. Emphasis is on prevalence of disorders, treatment modalities, community resources serving exceptional children, the teacher's role in mainstreaming and early identification, and on federal legislation affecting exceptional children.

**ECD 108 Family and Community Relations 3-0-3**

This course is an overview of techniques and materials for promoting effective family/program partnerships to foster positive child development. Emphasis is on availability and accessibility of community resources and on developing appropriate communication skills.

**ECD 109 Administration & Supervision 3-0-3****Prerequisites:** ECD 108, ECD 201, and ENG 101 or ENG 155

This course is a study of the role and responsibilities of an early childhood administrator. Special focus is on program monetary matters, space management, curriculum, health and food services, and relations among the public, staff, and parents.

**ECD 131 Language Arts 2-3-3**

This course is a study of methods and materials in age-appropriate language experiences. Opportunities provided to develop listening, speaking, prereading and prewriting skills through planning, implementation, and evaluation of media, methods, techniques and equipment. Methods of selection, evaluation, and presentation of children's literature are included.

**ECD 132 Creative Experiences 3-0-3****Prerequisites:** ECD 131

In this course the importance of creativity and independence in creative expression are stressed. A variety of age-appropriate media, methods, techniques and equipment are utilized. Students plan, implement, and evaluate instructional activities.

**ECD 133 Science and Math Concepts 2-3-3**

This course includes an overview of pre-number and science concepts developmentally-appropriate for young children. Emphasis is on the planning, implementation, and evaluation of developmentally-appropriate activities utilizing a variety of methods and materials.



**ECD 135 Health Safety and Nutrition 3-0-3**

This course covers a review of health/safety practices recommended for child care and includes information on common diseases and health problems. Certification preparation is provided in pediatric safety, CPR, and first aid. Guidelines and information on nutrition and developmentally-appropriate activities are also studied in the course.

**ECD 200 Curr Issues in Infant/Todd Dev 3-0-3**

**Prerequisites:** ECD 101, ECD 102

This course is a study of infant and toddler care. Emphasis is on brain development and its implications for caring for infants and toddlers. Planning and teaching strategies as they relate to child development, curriculum and environment are included in the course.

**ECD 201 Prin of Ethics & Leadership 3-0-3**

**Prerequisites:** ECD 102 and ENG 101 or ENG 155

This course includes an overview of historical views on leadership and issues and challenges of leadership in early care and education. Emphasis is on current trends and issues. This course also reviews ethical principles as they relate to children, families, colleagues, and the community and society.

**ECD 203 Growth and Development II 3-0-3**

**Prerequisites:** ECD 102

This course is an in-depth study of preschool children growing and developing in today's world. Focus is on total development of the child with emphasis on physical, social, emotional, cognitive, and nutritional areas of development. Developmental tasks and appropriate activities are explored in the course.

**ECD 237 Methods and Materials 2-3-3**

**Prerequisites:** ECD 105, ECD 131, ECD 133, ECD 203, and ENG 101 or ENG 155

This course includes an overview of developmentally-appropriate methods and materials for planning, and evaluating environments. Emphasis is on integrating divergent activities in each curriculum area.

**ECD 243 Supervised Field Experience I 1-6-3**

**Prerequisites:** ECD 237 and ENG 101 or ENG 155

This course includes emphasis on planning, implementing, and evaluating scheduled programs, age appropriate methods, materials, activities, and environment of early childhood principles and practices.

**ECD 252 Divers Iss in Early Care & Edu 3-0-3**

**Prerequisites:** ECD 102, ECD 105

This course meets the growing need for students in Early Care and Education to learn how to interact with people who are different from them. It also allows students to examine and appreciate the differences that exist because of diversity from race, language, ethnicity, age and socio-economic levels.

**ECO — Economics****ECO 210 Macroeconomics 3-0-3**

This course is a university parallel transfer course studying fundamental principles and policies of a modern economy to include markets and prices, national income accounting, cycles, employment theory and fiscal policy, banking and monetary controls, and the government's role in economic decisions and growth.

**ECO 211 Microeconomics 3-0-3**

This university parallel transfer course studies the behavior of households and firms, including supply and demand, elasticity, price/input in different market structures, pricing of resources, regulations, and comparative advantage and trade.

**EDU — Education****EDU 102 Professional Prep for Ed Caree 2-3-3**

This course is designed to prepare students for careers in the education profession, including information literacy skills, PRAXIS preparation, academic and education career goals, recognition of appropriate resources for education majors, and preparation for professional program admission/success.

**EDU 110 Careers in Education 3-0-3**

This course introduces students to the role of the teacher, the nature of the teaching profession and assists students in personal and professional development. Topics addressed include an overview of the teaching profession: curriculum, instruction, environment, students, resources, and trends and pressures facing educators today.

**EDU 200 Foundations of Special Educ 3-0-3**

**Corequisites:** EDU 110

This course provides knowledge of basic concepts in special education related to the education of individuals with disabilities. Content includes historical factors, legislation, etiology, educational strategies, identification procedures, support services and the impact on academic performance.

**EDU 201 Classroom Inquiry w/ Technolog 3-0-3**

This course explores teaching as a data driven, reflective practice. Within the parameters of an approved articulation agreement, this course may transfer to an accredited Education program at a comprehensive four-year college or university.

**EDU 241 Learners & Diversity 4-0-4**

This course is a study of lifespan development and learning with an emphasis on individual & group diversity. The students are required to participate in a field experience. Within the parameters of an approved articulation agreement, this course may transfer to an accredited Education program at a comprehensive four-year college or university.

**EDU 242 Adolescent Growth & Develop 3-0-3**

This course is an investigation of the various patterns and theories related to intellectual, social, emotional, and physical growth and development of preadolescent and adolescent learners. Emphasis is placed on developmental applications in educational settings.

**EEM — Electronics Technology****EEM 105 Basic Electricity 2-0-2**

This course is a survey of basic electrical principles, circuits, and measurements.

**EEM 117 AC/DC Circuits I 2-6-4**

This course is a study of direct and alternating theory, Ohm's Law, series, parallel, and combination circuits. Circuits are constructed and tested.

**EEM 121 Electrical Measurements 1-6-3**

**Prerequisites:** EEM 117 and EEM 140

This course covers the basic principles of electrical measuring instruments and how they are used in industries.

**EEM 140 National Electrical Code 3-0-3**

This course is a study of the national electrical code and is based on the latest codes as published by the national fire protection association (NFPA).

**EEM 145 Control Circuits 3-0-3**

**Prerequisites:** EEM 117 and EEM 140

This course covers the principles and applications of component circuits and methods of motor control.

**EEM 165 Residential/Commercial Wiring 2-6-4**

This course is a study of wiring methods and practices used in residential and commercial applications.

**EEM 170 Electrical Installation 1-6-3**

**Prerequisites:** EEM 117 and EEM 140

This course covers electrical wiring techniques commonly used in commercial, industrial, and residential wiring.

**EEM 172 Electrical Print Reading 4-0-4**

This course is a study of electrical prints as they pertain to layout, planning, and installation of wiring systems in residential, commercial and/or industrial complexes.

**EEM 235 Power Systems 3-0-3**

**Prerequisites:** EEM 117 and EEM 140

This course is a study of the design, operation, and installation of power distribution applications. Load analysis rate and power economics are covered.

**EET — Electronics Engr Tech****EET 113 Electrical Circuits I 3-3-4**

This course studies direct and alternating currents, covering resistance and impedance in series, parallel, and series-parallel circuits using OHM's Law, Kirchhoff's Laws, and basic circuit theorems. Circuits are analyzed using mathematics and verified using electrical instruments.

**EET 114 Electrical Circuits II 3-3-4**

**Prerequisites:** EET 113

This course is a continuation in electrical circuits, including advanced network theorems. Circuits are analyzed using mathematics and verified using electrical instruments.

**EET 131 Active Devices 3-3-4**

**Prerequisites:** EET 114

This course studies semiconductor theory & principles, diodes & diode circuits, transistors, transistor circuits, and other components. Circuits are modeled, constructed, & tested.

**EET 145 Digital Circuits 3-3-4**

This course studies number systems, basic logic gates, Boolean algebra, logic optimization, flip-flops, counters and registers. Circuits are modeled, constructed, and tested.

**EET 147 I. C. Circuits 1-3-2**

**Prerequisites:** EET 131

**Corequisites:** EET 220

This course covers constructing and troubleshooting a series of applicable circuits using integrated circuit chips and other components, including the use of data books and test equipment. Course is offered Fall semester only.

**EET 210 Digital Integrated Circuits 3-3-4**

**Prerequisites:** EET 145

This course studies digital integrated circuits, including multiplexers, demultiplexers, buffers, decoders, encoders, converters, memory devices, and programmable logic devices. Circuits are modeled, constructed, and tested.

**EET 218 Electrical Power Systems 3-3-4**

**Prerequisites:** EET 114

This course is a study of power generation, transmission, transformers, distribution, and motor controls.

**EET 220 Analog Integrated Circuits 2-3-3**

**Prerequisites:** EET 131

This course includes analysis, application, and experiments involving such integrated circuits as op-amps, timers and IC regulators. Circuits are modeled, constructed, and tested.

**EET 227 Electrical Machinery** 2-3-3**Prerequisites:** EET 114

This course studies AC and DC electro-mechanical energy conversion devices, theory, applications and control. Devices are tested and verified using electrical instruments.

**EET 231 Industrial Electronics** 3-3-4**Prerequisites:** EET 227

This course is a survey of topics related to industrial application of electronic devices and circuits. The course covers switches, DC and AC motor controls, sensors and transducers, open and closed loop control circuits and voltage converting interfaces. Circuits are constructed and tested.

**EET 235 Programmable Controllers** 2-3-3**Prerequisites:** EET 145

This course is a study of relay logic, ladder diagrams, theory of operation, and applications. Loading ladder diagrams, debugging, and trouble-shooting techniques are applied to programmable controllers.

**EET 236 PLC Systems Programming** 2-3-3**Prerequisites:** EET 235

This course covers advanced topics in programmable logic controllers (PLC) systems and programming including timing, conversions, analog operations, PID control, auxiliary commands and functions, and PLC to PLC systems communications.

**EET 243 Data Communications** 2-3-3**Prerequisites:** EET 114 and EET 210

This course is a study of the techniques for sending and receiving information. Topics include media characteristics, modulation/demodulation, signal conversions, multiplexing and demultiplexing, protocols, industrial standards, networks, and error detection and correction. Circuits are modeled, constructed and tested.

**EET 253 Microprocessors** 3-3-4**Prerequisites:** EET 210

This course is a study of software and hardware interfacing techniques. Circuits are modeled, constructed, and tested.

**EET 272 Electronics Senior Seminar** 0-3-1**Prerequisites:** EET 147 and EET 220 and EET 231 and EET 235

This course includes various engineering topics, using field trips and discussions with practicing technical personnel. Proper use of test instruments is reinforced.

**EET 273 Electronics Senior Project** 0-3-1**Prerequisites:** EET 147 and EET 220 and EET 231 and EET 235

This course is a study of the construction and testing of an professor-approved project.

**EET 274 Selected Topics in Electrical/** 3-0-3**Prerequisites:** EET 231 and EET 220 and EET 147

This course is a study of current topics related to electrical electronics engineering technology. Technical aspects of practical applications are discussed.

**EET 275 Intro to Robotics Manuf Tech** 2-3-3**Prerequisites:** EET 113 and EET 145

This course introduces required skills for robotics manufacturing technicians. Instruction includes integrated content from electrical, mechanical, photonic, and geospatial systems. Students will experience industry simulations and practical application of content.

## EGR — Engineering

**EGR 109 Engineering Project Management** 2-3-3**Prerequisites:** MAT 111 and EET 231

This course is the study of integrated project management for the engineering technologist with emphasis on the methods and software used by engineers including task lists, Gantt charts, discussion of critical path, statistical resource management, scheduling, budgeting, and economic factors.

**EGR 170 Engineering Materials** 3-0-3

This course is a study of the properties, material behaviors, and applications of materials used in engineering structures and products.

**EGR 190 Statics** 3-0-3

This course is a study of forces and the effect of forces acting on bodies in equilibrium without motion.

**EGR 260 Engineering Statics** 3-0-3**Prerequisites:** EGR 270 and MAT 175 or MAT 110**Corequisites:** MAT 111

(Transfer course) this course is an introduction to the principles of engineering mechanics as applied to forces and force systems. The techniques of vector mathematics are employed.

**EGR 270 Intro to Engineering** 2-3-3

(Transfer course) this course covers the applications of computers in engineering practices, including the use of an appropriate operating system, programming in a high level language, spread sheets, and word processing applications.

**EGR 275 Intro to Eng/Computer Graphics** 2-3-3

(Transfer course) this course is a study of basic graphical concepts needed for engineering applications.

**EGR 282 Intro to Civil Engineering** 2-0-2

This course covers the engineering process from problem formulation to creative design through practical solutions of civil engineering problems.

**EGR 285 Engineering Surveying I** 3-0-3**Corequisites:** MAT 175, MAT 111, EGR 295

This course covers linear measurements, leveling, compass and transit/theodolite, Theory of Errors, areas, stadia, coordinate geometry, state plane coordinates, and standard map projections.

**EGR 286 Engineering Survey II** 3-0-3**Prerequisites:** EGR 285 and EGR 295**Corequisites:** EGR 296

This course covers land surveying and boundary laws, public land surveys, topographic mapping, horizontal and vertical curves, lot calculations, and engineering astronomy.

**EGR 288 Drainage Design** 2-3-3**Prerequisites:** EGR 275 and MAT 175 and CET 218

This course covers a study of hydrology and drainage design specifically to the local municipality.

**EGR 289 SCWE in Engineering** 0-12-3**Prerequisites:** EGR 275

This course integrates engineering skills with an approved job environment related to the engineering industry.

**EGR 295 Engineering Surveying Lab I** 0-3-1**Corequisites:** EGR 285

This course covers horizontal control, including distance and angular measurements, traversing, and preparation of a plat. Vertical control includes the performance of a level loop.

**EGR 296 Engineering Surveying Lab II** 0-3-1**Corequisites:** EGR 286

This course covers locating buildings and other objects within a boundary survey, performing a topographic survey, preparing a topographic map, and staking out a horizontal curve.

**EGT – CAD/Drafting****EGT 101 Basic Technical Drawing** 0-6-2

This course covers the basics of drafting, emphasizing geometric drafting principles, lettering, and basic ANSI drafting conventions.

**EGT 252 Advanced Cad** 2-3-3**Prerequisites:** EGT 151 or EGR 275

This course studies advanced concepts of CAD software and applications.

**ELW – Electrical Lineman Worker****ELW 110 Electrical Computations** 1-3-2

This course introduces the fundamental applications of mathematics that are used by an electrical line technician. Topics include whole numbers, fractions, decimals, powers, roots, simple electrical formulas, and use of a scientific calculator.

**ELW 111 Intro to Electrical Line Work** 2-3-3

This course introduces basic principles of electricity, safety standards and basic line worker tools. Topics include electrical distribution systems and components, line installation and maintenance applications.

**ELW 112 Intro to Electricity** 2-3-3

This course introduces the fundamental concepts of electricity and test equipment to non-electrical/electronic majors. Topics include basic DC and AC principles, components and operation of test equipment.

**ELW 114 Overhead Line Construction I** 2-3-3

This course introduces the basics of overhead power line construction. Topics include safe work habits, protective equipment and pole climbing techniques.

**ELW 211 Underground Line Const I** 2-3-3

This course introduces underground line distribution systems, including terminators, elbows, transformers, underground installations and safety practices.

**ELW 231 Electrical Power Systems** 2-3-3

This course examines the basic principles of electrical power systems, including transmission lines, generator and transformer characteristics, fault detection and correction, interpretation of line diagrams and performance of per-unit calculations for circuit performance analysis.

**EMS – Emergency Med Services****EMS 104 Emergency Care I** 6-3-7

This course is a study of the preparatory, pharmacology, airway management, patient assessment, trauma and shock modules as it relates to the provision of pre-hospital emergency medical care to critically ill and injured patients.

**EMS 109 Emergency Care II** 6-3-7**Prerequisites:** EMS 104**Corequisites:** EMS 212

This course is a study of medical emergencies, operations, pediatrics and other special populations as it relates to the provision of pre-hospital emergency medical care to critically ill and injured patients.

**EMS 115 Intl Trauma Life Support 1-0-1****Prerequisites:** EMS 109 and EMS 212**Corequisites:** EMS 119, EMS 150, EMS 223, BIO 112

This course is designed to educate the experienced pre-hospital healthcare provider in dealing with critically injured trauma patients in an emergency setting. An understanding of trauma care equipment, basic trauma-related and assessment skills are necessary. Currently accepted guidelines for international trauma care will be followed.

**EMS 116 Adv Cardiac Life Support 0-3-1****Prerequisites:** EMS 115 and EMS 119 and EMS 150 and EMS 223**Corequisites:** EMS 224, EMS 230, EMS 238

This course is designed to educate the experienced healthcare provider in dealing with critical cardiac patients in an acute, emergency setting. An understanding of cardiac equipment, basic pharmacology and cardiovascular function is necessary. Current American heart association guidelines will be followed.

**EMS 117 Pediatric Adv Life Support 1-0-1****Prerequisites:** EMS 116 and EMS 230 and EMS 224 and EMS 238**Corequisites:** EMS 118, EMS 240, EMS 241, EMS 248, EMS 272

This course is designed to educate the experienced healthcare provider in dealing with critical pediatric patients suffering from acute cardiac and respiratory problems in an emergency setting. An understanding of cardiac equipment, basic pharmacology and cardiovascular function is necessary.

**EMS 118 Adv Medical Life Support 1-0-1****Prerequisites:** EMS 116 and EMS 230 and EMS 224 and EMS 238**Corequisites:** EMS 117, EMS 240, EMS 241, EMS 248, EMS 272

This course is designed to present students with a practical method for the management of adult patients suffering from various medical emergencies. Students will be provided with the practical knowledge and skills to effectively manage on-scene, adult medical emergencies.

**EMS 119 Emergency Medical Services Ope 2-0-2****Prerequisites:** EMS 109 and EMS 212**Corequisites:** EMS 150, EMS 115, EMS 223, BIO 112

This course is a multi-faceted approach to theory of EMS operations. Topics include expanded provider roles, EMS systems overview, medical/legal aspects, theory of ambulance operations, mass casualty incident management, rescue awareness, crime scenes, terrorism, and weapons of mass destruction.

**EMS 150 Intro to Advanced Care 4-3-5****Prerequisites:** EMS 109 and EMS 212**Corequisites:** EMS 119, EMS 115, EMS 223, BIO 112

This course covers advanced care preparatory material, trauma, advanced airway material, and shock management.

**EMS 212 EMS Field Internship 0-6-2****Prerequisites:** EMS 104**Corequisites:** EMS 109

This course includes experiences with advanced life support emergency medical services.

**EMS 223 Paramedic Clinical I 0-6-2****Prerequisites:** EMS 109 and EMS 212**Corequisites:** EMS 115, EMS 119, EMS 150, BIO 112

This course includes hospital clinical experiences in many areas, such as the emergency center, surgery, labor and delivery, and pediatric centers.

**EMS 224 Paramedic Clinical II 0-6-2****Prerequisites:** EMS 115 and EMS 119 and EMS 150 and EMS 223**Corequisites:** EMS 116, EMS 230, EMS 238

This course is a study of emergency medical care procedures for the paramedic provider, including concepts and skills related to medical emergencies. Emphasis is on pathophysiology and treatment modalities related to the major systems of the body such as the respiratory and cardiovascular systems. This course includes compressed content from EMS 213.

**EMS 230 Adv Emergency Medical Care I 3-6-5****Prerequisites:** EMS 115 and EMS 119 and EMS 150 and EMS 223**Corequisites:** EMS 116, EMS 224, EMS 238

This course provides an introduction to pre-hospital pharmacology and cardiology as they relate specifically to patient care. Emphasis is placed on the appropriate methods for patient physical exams and solicitation of medical history to maximize patient outcomes.

**EMS 238 Paramedic Ambulance Fld Exp I 0-9-3****Prerequisites:** EMS 115 and EMS 119 and EMS 150 and EMS 223**Corequisites:** EMS 116, EMS 230, EMS 224

This course introduces the concept of emergency medical care in the E-911 ambulance setting.

**EMS 240 Adv Emergency Medical Care II 3-6-5****Prerequisites:** EMS 116 and EMS 230 and EMS 224 and EMS 238**Corequisites:** EMS 117, EMS 118, EMS 241, EMS 248, EMS 272

This course is a study of complex recurring emergency medical conditions that encompass all stages of the patient's life span.

**EMS 241 Paramedic Clinical III 0-6-2****Prerequisites:** EMS 116 and EMS 230 and EMS 224 and EMS 238**Corequisites:** EMS 117, EMS 118, EMS 240, EMS 248, EMS 272

This course is an advanced clinical experience and provides an overview of holistic patient care from the point of entry into the emergency department until patient discharge.

**EMS 248 Paramedic Amb Field Exp II** 0-6-2**Prerequisites:** EMS 116 and EMS 230 and EMS 224 and EMS 238**Corequisites:** EMS 117, EMS 118, EMS 240, EMS 241, EMS 272

This course will emphasize the knowledge and skills of emergency care in an E-911 ambulance setting. Focus is on the student and their ability to apply classroom knowledge during an emergency situation while treating a wide variety of patients.

**EMS 272 Paramedic Capstone** 0-12-4**Prerequisites:** EMS 116 and EMS 230 and EMS 224 and EMS 238**Corequisites:** EMS 117, EMS 118, EMS 240, EMS 241, EMS 248

This course provides the opportunity for the student to function as a team leader in a 911 response agency by managing and accounting for all aspects of the emergency scene and patient care.

## ENG – English

**ENG 032 Developmental English** 2-3-3

Developmental English is an intensive review of grammar and usage; mechanics of punctuation, spelling, and capitalization; sentence structure; and the writing process. Evidence of planning, organizing, drafting, editing, and revising are emphasized in this course along with a study of different modes of writing for a variety of rhetorical situations. Additionally, the course integrates the study of vocabulary, comprehension, and reading improvement strategies to improve basic reading and writing skills.

**ENG 100 Intro to Composition (Non-Deg)** 2-3-3

This course is a study of basic writing and different modes of composition and may include a review of usage. Non-degree credit. Additionally, the course integrates the study and application of critical reading and writing strategies to develop higher order thinking skills.

**ENG 101 English Composition I** 3-0-3

This is a (college transfer) course in which the following topics are presented: a study of composition in conjunction with appropriate literary selections, with frequent theme assignments to reinforce effective writing. A review of standard usage and the basic techniques of research are also presented.

**ENG 102 English Composition II** 3-0-3

This is a (college transfer) course in which the following topics are presented: development of writing skills through logical organization, effective style, literary analysis and research. An introduction to literary genre is also included.

**ENG 155 Communications I** 3-0-3

This course introduces the principles of expository writing and public speaking through practice and development of communication skills. The class is set within the context of business and professional communication, both oral and written.

**ENG 160 Technical Communications** 3-0-3

This course is a study of various technical communications such as definitions, processes, instructions, descriptions, and technical reports.

**ENG 201 American Literature I** 3-0-3**Prerequisites:** ENG 102

This course is a study of American literature from the colonial period to the civil war.

**ENG 202 American Literature II** 3-0-3**Prerequisites:** ENG 102

This course is a study of American literature from the civil war to the present.

**ENG 203 American Literature Survey** 3-0-3

This course is a survey of American literature: major authors, genres, and periods.

**ENG 205 English Literature I** 3-0-3**Prerequisites:** ENG 102

This is a (college transfer) course in which the following topics are presented: the study of English literature from the old English period to the Romantic period with emphasis on major writers and periods.

**ENG 206 English Literature II** 3-0-3**Prerequisites:** ENG 102

This is a (college transfer) course in which the following topics are presented: the study of English literature from the Romantic period to the present with emphasis on major writers and periods.

**ENG 208 World Literature I** 3-0-3**Prerequisites:** ENG 102

This course is a study of masterpieces of world literature in translation from the ancient world to the sixteenth century.

**ENG 209 World Literature II** 3-0-3**Prerequisites:** ENG 102

This course is a study of masterpieces of world literature in translation from the seventeenth century to the present.

**ENG 214 Fiction** 3-0-3**Prerequisites:** ENG 102

This course is a study of fiction from several cultures. Emphasis is on the nature of the genre and appropriate reading strategies.

**ENG 218 Drama** 3-0-3**Prerequisites:** ENG 102

This course is a study of drama from several cultures. Emphasis is on the nature of the genre and appropriate reading strategies.

**ENG 222 Poetry** 3-0-3

This course is a study of poetry from several cultures. Emphasis is on the nature of the genre and appropriate reading strategies.

**ENG 224 English Study Abroad 3-0-3**

This course provides a study abroad experience for students studying literature. The course includes travel to selected regions outside the United States and provides a field of study of historical and contemporary literature.

**ENG 230 Women in Literature 3-0-3**

**Prerequisites:** ENG 102

This course is a critical study of women's writings examined from historical, social, and psychological points of view.

**ENG 234 Survey in Minority Literature 3-0-3**

This course is a critical study of minority writings, examined from historical, social, and psychological points of view.

**ENG 236 African American Literature 3-0-3**

**Prerequisites:** ENG 102

This course is a critical study of African American literature examined from historical, social, and psychological perspectives.

**ENG 260 Adv Technical Communications 3-0-3**

This course develops skills in research techniques and increases proficiency in technical communications.

**FOR — Forestry Management Tech****FOR 102 Multiple Use of Forest Lands 3-0-3**

This course is a study of how the forest serves the multiple purposes of recreation, wildlife, watershed and range, as well as producing timber crops. It examines the relationship between the public and private sectors in achieving these different demands placed on the forest community.

**FOR 105 Equipment Basics & Safety 3-0-3**

This course is a study of the design, selection, operation, and maintenance of various types of equipment used in the timber industry including aspects of industrial safety, basic first aid and CPR techniques. Chainsaw operation is included.

**FOR 106 Computer App in Natural Res 2-3-3**

This course is a study of basic computer applications that are used in natural resource professions. Topics include word processing, spreadsheets, and constructing aesthetic graphs, diagrams, maps and other visual material.

**FOR 118 Forest Drafting 1-3-2**

This course covers principles of technical drawing and technical lettering. It provides the drafting background needed for surveying and map drawing.

**FOR 121 Woodland Safety and First Aid 1-0-1**

This course covers the general first aid practices and safety procedures that are required in outdoor work. Emphasis is placed on first aid techniques one might need until competent medical help arrives. Student will be offered training in First Aid, CPR, Blood Borne Pathogens, and automatic defibrillator.

**FOR 130 Dendrology 2-3-3**

This course is a study of the characteristics and uses of important trees, shrubs, and lesser vegetation of the southern forest. It includes collecting, mounting, and identifying approximately 130 species by leaf, twig, bark, and growth characteristics.

**FOR 140 Timber Harvesting Operations 1-6-3**

The analysis of logging situations & decision-making regarding timber harvesting. A study of various equipment & tools used in forestry operations, techniques of operating & maintaining equipment, & costs involved in conducting harvesting operations. A review of timber trespass laws is included.

**FOR 154 Mensuration 3-0-3**

This course is a study of the techniques and instruments used in the measurement of standing or harvested trees. The use of log rules, volume tables, yield tables, and elementary statistics are included.

**FOR 156 Timber Cruising and Marketing 3-3-4**

**Prerequisites:** FOR 154

This course is a study of the three systems of estimating volumes and values of standing timber--strip, plot, and prism. Stand analysis, dominant tree data, and statistical data are also collected and analyzed.

**FOR 180 Timb Indus & Assoc Gov Standar 3-0-3**

**Prerequisites:** FOR 105

This course is an introduction to the study of the Forest Products Industry, including operations and site organization and required government standards.

**FOR 206 Forest Ecology 3-0-3**

This course is a study of the nature of forests and forest trees, how they grow, reproduce, and their relationships to the physical and biological environment.

**FOR 220 SCWE in Forestry 0-32-8**

**Prerequisites:** FOR 154 and FOR 156 and FOR 130

This course is a study of the problems of day to day natural resource operations. Employment in an approved forest or natural resource related industry or agency is required.

**FOR 230 Forest Products 2-0-2**

**Prerequisites:** FOR 130

This course is a study of the various forest industries, including the manufacturing process and material produced. Grading specifications, raw materials, by-products, labor, and markets by specific products are included.

**FOR 240 Mapping and Photo Inter** 2-3-3  
**Prerequisites:** FOR 106

This course is a study of the mechanics of mapping forest lands with emphasis on the use of aerial photographs. It includes calculation of land area by transit, dot-grid, and polar planimeter methods as well as taking measurements and identifying objects from aerial photographs.

**FOR 257 Forest Ecology** 2-0-2  
**Prerequisites:** FOR 130

This course covers the scientific foundations on which cultural practices are based. It also includes the affects of environment upon tree growth and distribution and the inter-relationships which take place between a tree or forest stand and the environment.

**FOR 258 Forest Surveying and Eng** 3-3-4

This course covers the use of surveying and engineering as adapted to forest management. The use of the hand compass, staff compass, transit, and level in locating old boundary lines as well as procedures for recording and looking up deeds are included.

**FOR 263 Forest Management** 2-6-4  
**Prerequisites:** and FOR 154 and FOR 156 and FOR 271  
**Corequisites:** FOR 240

This course examines the tools and techniques used in constructing formal management plans for forests. Subdivision of the forest for management purposes, regulation, and regeneration are included.

**FOR 265 Equip and Timber Harvesting** 3-3-4  
**Prerequisites:** FOR 154 and FOR 156  
**Corequisites:** FOR 269, MAT 120

This course covers the analysis of logging situations and decision-making regarding timber harvesting. A study of the various equipment and tools used in forestry operations, techniques of operating and maintaining equipment, and harvesting operations and the costs involved are included.

**FOR 268 Forest Protection Practices** 3-3-4

This course covers forest fires and the major insects and diseases which attack southern forests. Methods of prevention and control are explored.

**FOR 269 Forestry Stat & Data Proc** 2-3-3  
**Prerequisites:** FOR 154 and FOR 156 and FOR 106

This course covers measuring, recording, and summarizing various forestry field data and its presentation in technical form. Basic statistical and finance computations, interest, and discount computations are included.

**FOR 271 Silviculture** 3-3-4  
**Prerequisites:** FOR 154 and FOR 156

This course covers the treatment of forest stands to achieve prescribed objectives. Specific topics include intermediate forest management practices, the four basic harvest methods, and regeneration of trees.

## FRE — French

**FRE 101 Elementary French I** 4-0-4

This course consists of a study of the four basic language skills: listening, speaking, reading and writing, including an introduction to French culture.

**FRE 102 Elementary French II** 4-0-4  
**Prerequisites:** FRE 101

This course continues the development of basic language skills and includes a study of French culture.

**FRE 201 Intermediate French I** 3-0-3  
**Prerequisites:** FRE 102

This course is a review of French grammar with attention given to complex grammatical structures and reading difficult prose.

## GEO — Geography

**GEO 101 Introduction to Geography** 3-0-3

This course is an introduction to the principles and methods of geographic inquiry.

**GEO 102 World Geography** 3-0-3

This course includes a geographic analysis of the regions of the world, i.e., North and South America, Europe, Australia, Asia and Africa. Diversity of each region is emphasized by examining its physical environment, natural resources, social, cultural, economic and political systems.

## GER — German

**GER 101 Elementary German I** 4-0-4

This course is a study of the four basic language skills: listening, speaking, reading and writing. The course includes an introduction to German culture.

**GER 102 Elementary German II** 4-0-4  
**Prerequisites:** GER 101

This course continues the development of the four basic language skills and the study of German culture.



**GER 201 Intermediate German I 3-0-3****Prerequisites:** GER 102

This course is a review of German grammar with attention given to complex grammatical structures and reading difficult prose.

**GER 202 Intermediate German II 3-0-3****Prerequisites:** GER 201

This course continues the review of German grammar with attention given to more complex grammatical structures and reading more difficult prose.

## GMT – Geographic Mapping

**GMT 101 Intro to Geographic Info Sys 2-3-3**

This course is a study of the development of digital techniques to portray mapping/spatial data, hardware and software components of digital mapping systems, and review of basic procedures in creating, maintaining and utilizing digital mapping.

## HIM – Health Information Mgmt

**HIM 103 Intro to Health Info & Coding 3-0-3**

This course focuses on the principles of health information management and explores basic concepts in diagnostic and procedural coding and classification systems.

**HIM 105 Med Office Comm and Practices 3-0-3****Prerequisites:** HIM 103

This course is the study of the principles of effective medical office communications, with an emphasis on specific job responsibilities and communication skills needed in order to be successful in the health care industry.

**HIM 130 Billing and Reimbursement 3-0-3****Prerequisites:** HIM 103

This course provides an introduction to medical insurance billing and reimbursement practices with emphasis on the primary payers such as Medicare and Medicaid.

**HIM 135 Medical Pathology 3-0-3****Prerequisites:** AHS 102 and BIO 112 or BIO 210 or BIO 211

This course is a study of disease processes, general classification of disease, including signs and symptoms, systems affected by disease, diagnostic measures, types of treatment, including surgical and/or chemical intervention, and terminology.

**HIM 138 Pharm for Med Records Coding 2-0-2****Prerequisites:** AHS 102 or BIO 112 or BIO 210

This course is a study of therapeutic drug categories appropriate for medical insurance billing and reimbursement practices.

**HIM 140 Current Procedural Termi I 3-2-3****Prerequisites:** ( BIO 210 or BIO 211 or BIO 112 ) and HIM 103 and AHS 102**Corequisites:** HIM 216

This course provides a basic study of the CPT and HCPCS coding and classification systems particular to the physician's office setting. Students will learn how to assign codes to capture the professional component of services provided.

**HIM 141 Current Procedural Termi II 2-3-3****Prerequisites:** HIM 140 and HIM 216**Corequisites:** HIM 225

This course provides an intermediate study of the CPT and HCPCS coding and classification systems with respect to surgical outpatient facilities and hospitals.

**HIM 153 Electronic Health Rec Clin Exp 3-0-3****Prerequisites:** HIM 140 and HIM 216

This course expands on the application of theoretical principles of the electronic health record. Focus is on the management of patient information in a digital environment.

**HIM 216 Coding and Classification I 3-2-3****Prerequisites:** BIO 210 or BIO 112 and HIM 103 and AHS 102**Corequisites:** HIM 140

This course includes a study of disease and procedural coding and classification systems.

**HIM 225 Coding and Classification II 2-3-3****Prerequisites:** HIM 140 and HIM 216**Corequisites:** HIM 141

This course studies advanced coding and classification systems.

**HIM 266 Computers in HealthCare 3-0-3****Prerequisites:** HIM 103

This course covers hardware and software components of computers for medical record applications, methods of controlling accuracy and security of data in computer systems, record linkage, and data sharing concepts.

## HIS – History

**HIS 101 Western Civilization to 1689 3-0-3**

This university parallel transfer course is a study of western civilization from ancient times to 1689, including the major political, social, economic, and intellectual factors shaping western cultural tradition.

**HIS 102 Western Civilization Post 1689 3-0-3**

This university parallel transfer course is a study of western civilization from 1689 to the present, including major political, social, economic, and intellectual factors which shape the modern western world.

**HIS 201 American History: Disc to 1877 3-0-3**

This university parallel transfer course is a survey of U.S. history from discovery to 1877. This course includes political, social, economic, and intellectual developments during this period.

**HIS 202 American History: 1877 to Pres 3-0-3**

This university parallel transfer course is a survey of U.S. history from 1877 to the present. This course includes political, social, economic, and intellectual developments during this period.

**HIS 214 History Study Abroad 3-0-3**

This course provides a study abroad experience for students studying history. The course includes travel to selected regions outside the United States and provides a field study of historical and contemporary history.

**HIS 220 American Studies I 3-0-3**

This course is an interdisciplinary study of selected topics and eras in U.S. history.

**HIS 230 The American Civil War 3-0-3**

This course explores the history of the civil war from the election of 1860 through the end of reconstruction in 1877.

## HOS – Hospitality

**HOS 105 Survey of Food Management 3-0-3**

This course is a broad overview of operations in food, sanitation, kitchen equipment, first aid and safety, inventory, cost control, and ordering procedures.

**HOS 140 The Hospitality Industry 3-0-3**

This course surveys the hospitality industry and the principles of operations of both lodging and food service industries.

**HOS 150 Hotel Management 3-0-3**

This course covers the management of the lodging phase of the hospitality industry, including front office, housekeeping, and engineering.

**HOS 157 Hospitality Service 3-0-3**

This course is a comprehensive study of the principles and techniques required to provide exceptional service in the hospitality industry. Emphasis is placed on the service environment from the customer's perspective and the behavioral component of service.

**HOS 160 Purchasing for Hospitality 3-0-3**

This course is a study of a systematic approach to principles of effective control and procurement of food products, beverages, and equipment. Emphasis is placed on practical applications of facilities design, food cost reporting, and inventory accountability functions.

**HOS 161 Event Management 3-0-3**

This course provides an introduction to the event management industry. Topics include planning, implementation and evaluation of special events and festivals.

**HOS 164 Travel & Tourism 3-0-3**

This course covers the history, development, concepts, and principles of the travel and tourism industry.

**HOS 252 Adv Food & Beverage Service 2-3-3**

**Prerequisites:** CUL 104

This course is an advanced food and beverage management course requiring conception, operation and management of a small quantity food and beverage operation in an applied lab setting.

**HOS 255 Food Service Management 3-0-3**

**Prerequisites:** HOS 140

This course studies operational food service management. Topics include food service operations, restaurant layout & design, marketing and sales promotion, food and beverage procedures, and public relations.

**HOS 265 Hotel Rest & Travel Law 3-0-3**

**Prerequisites:** HOS 140

This course is a study of legal for sight for hospitality management. Topics include litigation involving innkeepers and legal responsibilities of the innkeeper.

**HOS 272 SCWE in Hosp/Tourism Mgmt 0-12-3**

**Prerequisites:** HOS 140 and HOS 265

This course integrates hospitality skills at an approved work site related to the hospitality industry.

## HRT – Golf Mgt, Horticulture

**HRT 110 Plant Form and Function 3-3-4**

This course studies morphology, anatomy, and physiology of higher plants. Emphasis is on plant structure, functions of plant parts, plant processes, plant growth and development, and plant inheritance.

**HRT 113 Plant Materials 2-3-3**

This course is a study of herbaceous and woody plant materials used in the landscaping and nursery trade.

**HRT 125 Soils 3-3-4**

A sound knowledge of soils is the foundation for nearly all agricultural endeavors. This course gives an historical and global perspective of soil and its uses with emphasis on current horticulture applications. While the basic concepts of physical, water, and chemical soil properties are taught, they are presented primarily through golf course management use.

**HRT 150 Arboriculture I 2-3-3**

This course is a study of tree maintenance. Topics covered are tree physiology and anatomy, ropework, tree climbing techniques pruning, fertilization, planting, and watering.

**HRT 154 Grounds Maintenance 2-3-3**

**Prerequisites:** HRT 113

This course covers cost estimation of a landscape design and its maintenance, preparation of contracts, and development and implementation of maintenance schedules.

**HRT 255 Urban Tree Care 2-3-3**

**Prerequisites:** FOR 102

This course is a study of selection, installation and maintenance of trees in the urban landscape. Emphasis will be placed on industry standards and municipality requirements. Topics also covered are basic tree anatomy and proper tree pruning and health management.

## HUS — Human Services

**HUS 101 Introduction to Human Services 3-0-3**

This course covers an overview of the field of human services. Role responsibilities, problems, boundaries, and strategies of human service workers are included.

**HUS 115 Geriatric Serv & Activities 3-0-3**

**Prerequisites:** HUS 101

This course provides an overview of services, community resources and recreational/therapeutic activities designed for diverse groups in the senior population.

**HUS 202 Life Transitions 3-0-3**

This course is a study of the life transitions, the changing roles and the issues faced by the elderly and the effects on these individuals, and their family, friends and/or caregivers. Students will develop skills to provide helpful interventions in an entry level position.

**HUS 205 Gerontology 3-0-3**

This course is a survey of the physical, social, and mental changes that occur as a person ages. The related problems and current programs designed for people age 55 and over are studied in the course.

**HUS 208 Alcohol and Drug Abuse 3-0-3**

This course is a study of the etiology of alcohol and drug abuse, various types of addictive substances, physical, mental and social implications, programs in rehabilitation, and preventive education.

**HUS 209 Case Management 3-0-3**

This course covers accepted methods and strategies for effectively assessing client needs, accessing necessary provider agencies, and monitoring and properly documenting service delivery and client welfare.

**HUS 212 Survey of Disabil & Disorders 3-0-3**

This course is a survey of the major categories of disabilities and disorders with which the helping professional is most likely to work. These will include, but not be limited to, developmental and psychological disorders, visual and hearing impairment and physical disabilities resulting from injury or disease.

**HUS 214 Health, Wellness & Nutrition 3-0-3**

**Corequisites:** HUS 101, HUS 219

This course discusses theoretical etiologies, current thinking and current trends in the field of health and wellness in gerontology and developmental disabilities.

**HUS 216 Behavior Change Techniques 3-0-3**

This course is a study of major theories associated with individual and group psychotherapy, family therapy, and alcohol, drug, and vocational rehabilitation. Emphasis is placed on the techniques of behavioral change.

**HUS 219 Psychopharmacology 3-0-3**

**Corequisites:** HUS 101, HUS 214

This course examines the use and effects of various brain-altering substances (i.e., drugs). Psychological, pharmacological, and behavioral effects of drugs are examined with a focus on the brain changes that occur with substance abuse.

**HUS 221 Professional Ethics in Human 3-0-3**

This course is an in-depth analysis of human services ethics, application of NOHSE codes of ethics, and concepts and dilemmas specific to helping relationships.

**HUS 230 Interviewing Techniques 3-0-3**

**Prerequisites:** ENG 100 or ENG 101 and HUS 101

This course covers the development of skills necessary for interviews in various organizational settings. Students in human services will use these skills and knowledge later on their supervised field placements.

**HUS 231 Counseling Techniques 3-0-3**

This course studies counseling techniques necessary to assist qualified therapists in a variety of therapeutic settings. Students will demonstrate procedures and knowledge of basic counseling theories and techniques related to human services.

**HUS 235 Group Dynamics 3-0-3**

This course is a study of the effects of crisis on people, methods of intervention, & use of multiple resources to reestablish individual function. Students are required to demonstrate mock crisis activities.

**HUS 237 Crisis Intervention 3-0-3**

This course is a study of the effects of crisis on people, the methods of intervention, and other use of multiple resources to reestablish individual function. Students are required to demonstrate mock crisis activities.

**HUS 250 Supervised Field Placement I 0-16-4**

**Prerequisites:** HUS 101

This course integrates human services skills within an approved work site related to the human service field.

**HUS 260 Human Services Special Topics 3-0-3**

This course studies special topics of interest to particular populations and locations.

## IDS — Business and Social Skill

**IDS 105 Career Assessment & Explor 1-0-1**

This course provides students opportunities to determine personality types and career interests. Using assessment results, students will explore career opportunities through a variety of media.

**IDS 201 Leadership Development 3-0-3**

This course focuses on the development of leadership, including philosophy, moral/ethics, and individual ability/style. It is designed to increase students understanding of themselves and the theories and techniques of leadership and group processes by integrating theoretical concepts with the reality of application within a group setting.

## IMT — Industrial Maint Tech

**IMT 160 Preventive Maintenance 2-3-3**

This course covers preventative maintenance techniques on equipment used in association with timber harvesting operations.

## IST — Computer & Info Systems

**IST 161 Intro to Network Admin 2-3-3**

**Prerequisites:** IST 166

This course is an introductory study of networking operating system administration. Techniques on installation and administration of a networking operating system will be included. Tasks will include configuration of routers and switches as well as connecting devices to a LAN.

**IST 162 Intro to Workstation Net Admin 2-3-3**

**Prerequisites:** IST 166

This course is an introductory study of the administration of a single and multiple domain networks. Tasks will include handling user group accounts, resource management, permissions, ownership assignments, printing, security and backup.

**IST 165 Implem & Admin Wind Dir Serv 2-3-3**

**Prerequisites:** IST 162

This course is a study of directory services covering the planning, design, installation, configuration and administration of a network directory structure.

**IST 166 Network Fundamentals 2-3-3**

**Prerequisites:** CPT 209

This course is a study of local area networking concepts through discussions on connectivity, communications and other networking fundamentals. The course is designed to prepare the student to be successful in completing industry network fundamental certification exams.

**IST 190 LINUX Essentials 2-3-3**

This course will provide students with the fundamental knowledge and concepts of the LINUX operating system, including command line functions, file systems, user and group administration, process management, text editors, and network applications.

**IST 192 LINUX Network Applications 2-3-3**

**Prerequisites:** IST 190

This course will provide students with the skills necessary to deploy and administer the core networking services in a LINUX system, such as Apache Web Server, Samba File Server, BIND Domain Name Service, NFS, and others.

**IST 201 Cisco Internetworking Concepts 2-3-3**

This course is a study of current and emerging computer networking technology. Topics covered include safety, networking, network terminology and protocols, network standards, LANs, WANs, OSI models, cabling, cabling tools, CISCO routers, router programming, star topology, IP addressing, and network standards.

**IST 202 Cisco Router Configuration 2-3-3**

**Corequisites:** IST 201

This course is a study of LANs, WANs, OSI models, Ethernet, token ring, fiber distributed data interface TCP/IP addressing protocol, dynamic routing, routing, and the network administrator's role and function.

**IST 203 Adv Cisco Router Configuration 2-3-3**

**Prerequisites:** IST 202

This course is a study of configuring CISCO routers.

**IST 204 Cisco Troubleshooting 2-3-3**

**Corequisites:** IST 203

This course is a study of troubleshooting network problems.

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| <p><b>IST 215 Health Info Networking</b> 2 - 3 - 3<br/> <b>Prerequisites:</b> IST 266</p> <p>This course studies the application of information technology principles in a health care environment. Topics include electronic health records, medical group LANs and WANs, and effective security and support strategies for medical group networks.</p>                  | <p><b>IST 271 Object Oriented Technologies</b> 2 - 3 - 3<br/> <b>Prerequisites:</b> CPT 236</p> <p>This course emphasizes the application of the object model to design well-structured complex systems. A variety of object-based tools and object-oriented programming languages will be used to implement small-scale projects.</p>  |
| <p><b>IST 226 Internet Programming</b> 2 - 3 - 3<br/> <b>Prerequisites:</b> CPT 187</p> <p>This course covers designing internet pages and applications for personal/business use, writing the required program code in languages such as HTML, Java, and VRML, testing and debugging programs, uploading and maintaining internet pages and applications.</p>            | <p><b>IST 290 Special Topics in Info Science</b> 2 - 3 - 3<br/> <b>Prerequisites:</b> IST 242 and IST 291</p> <p>This course covers special topics in information sciences technologies.</p>  |
| <p><b>IST 236 Mobile &amp; Wireless Appliances</b> 2 - 3 - 3<br/> <b>Prerequisites:</b> IST 226</p> <p>This course is a survey of the protocols and interface standards for mobile and wireless appliances accessing the internet. An introduction to development and deployment of applications is included in this course.</p>  | <p><b>IST 291 Fund of Network Security I</b> 2 - 3 - 3<br/> <b>Prerequisites:</b> IST 161</p> <p>This course is the study of intro levels of security processes based on a security policy, emphasizing hands-on skills in the areas of secure perimeter, security connectivity, security management, identity services, and intrusion detection. The course prepares students to manage network security.</p>      |
| <p><b>IST 242 Network Architecture II</b> 3 - 2 - 3<br/> <b>Prerequisites:</b> IST 161</p> <p>This course is a study of the internal operations of the packet switching network and their implementation, as well as the numerous international standards applicable to such systems. Several models of packet switching networks and current interfaces are covered.</p> | <p><b>IST 292 Fund of Network Security II</b> 2 - 3 - 3<br/> <b>Prerequisites:</b> IST 291</p> <p>This course is the study of advanced security processes based on a security policy, emphasizing hands-on skills in the areas of secure perimeter, security connectivity, security management, identity services, and intrusion detection. The course prepares students to install/configure secure firewalls.</p> |
| <p><b>IST 261 Adv Network Administration</b> 2 - 3 - 3<br/> <b>Prerequisites:</b> IST 165</p> <p>This course is an advanced study of the networking operating system. Topics include installation upgrades, IP services, internet infrastructure, advanced server management and security, NDS management, and server optimization.</p>                                   | <p><b>IST 293 IT and Data Assurance I</b> 2 - 3 - 3<br/> <b>Corequisites:</b> CPT 282</p> <p>This course introduces the basics of network security. Topics covered will include network vulnerabilities and threats, security planning, security technology, network security organization, as well as legal and ethical issues related to network security.</p>  |
| <p><b>IST 266 Internet &amp; Firewall Security</b> 2 - 3 - 3<br/> <b>Prerequisites:</b> CPT 282</p> <p>This course is an introduction to firewalls and other network security components that can work together to create an in-depth defensive perimeter around a Local Area Network (LAN).</p>  | <p><b>IST 294 IT and Data Assurance II</b> 2 - 3 - 3<br/> <b>Prerequisites:</b> IST 293</p> <p>This course introduces methods for attacking a network. Concepts, principles, tools, and techniques for attacking and disabling a network will be covered in the context of understanding how to properly secure a network as a network administrator.</p>   |
| <p><b>IST 268 Computer Forensics</b> 2 - 3 - 3<br/> <b>Prerequisites:</b> IST 266</p> <p>This course provides students with a foundational knowledge in computer forensics investigation. Students are introduced to the skills, tools, and methods used to gather, document, and handle electronic evidence.</p>   | <p><b>IST 295 Fundamentals of Voice Over IP</b> 2 - 3 - 3<br/> <b>Prerequisites:</b> IST 291</p> <p>This course is an introduction to features of Voice over IP protocols, including VOIP hardware selection and network design considerations. Concepts include analog and digital voice encoding signaling and Quality of Service (QOS) and troubleshooting and configuration of VOIP networks.</p>               |
| <p><b>IST 269 Digital Forensics</b> 2 - 3 - 3<br/> <b>Prerequisites:</b> IST 268</p> <p>This course examines advanced technical aspects of digital computer evidence to include detection, collection, identification, and preservation. Emphasis is placed on specific tools and methods for extracting deleted or destroyed computer-related evidence.</p>              |   |

## LEG — Paralegal

### LEG 120 Torts 3-0-3

This course is a study of the various classifications and functions of tort law, including intentional and negligent torts, causation, proximate cause, and defenses.

### LEG 121 Business Law I 3-0-3

This course is a study of the basics of commercial law, emphasizing the formation and enforcement of contracts and the rules particular to the Uniform Commercial Code (UCC) and sales of goods.

### LEG 132 Legal Bibliography 3-0-3

This course is a study of the methods of legal research, proper citation of authority, use of legal treatises, texts, reporters, and digests. (Legal Specialty)

### LEG 135 Introduction to Law and Ethics 3-0-3

This course provides a general introduction to law, including courts, legal terminology, procedures, systems, and laws of society. Emphasis is on ethics and the role of the paralegal in the legal system.

### LEG 140 Sports Tourism Law 3-0-3

**Prerequisites:** SPT 101 and SPT 102

This course provides an investigation of legal aspects of the sports tourism industry as applies to areas such as facilities, human resources, liabilities and transportation.

### LEG 201 Civil Litigation I 3-0-3

This course studies principles of litigation and the rules of procedure for each court in the South Carolina system, including pleading, practice, and discovery procedures.

### LEG 202 Civil Litigation II 3-0-3

**Prerequisites:** LEG 201

This course includes an in-depth examination of the principles of litigation, focusing on the application of civil techniques and the role of a paralegal using hypothetical cases. (Legal Specialty)

### LEG 212 Workers' Compensation 3-0-3

This course is a study of the history of workers' compensation case laws, statutes and regulations, and procedures in handling claims.

### LEG 213 Family Law 3-0-3

This course is an examination of the laws of marriage, divorce, annulment, separation, adoption, custody, and the juvenile. (Legal Specialty)

### LEG 214 Property Law 3-0-3

This course is an overview of South Carolina property law, including the mechanics of various commercial and private property transactions and mortgage foreclosures.

### LEG 230 Legal Writing 3-0-3

**Prerequisites:** LEG 132 and ENG 101

This course is a study of the methods, techniques, and procedures for research and preparation of legal memoranda, trial and appellate briefs, and trial notebooks. (Legal Specialty)

### LEG 231 Criminal Law 3-0-3

This course is a study of the definition and classification of criminal offenses, criminal responsibility, and legal procedures in a criminal prosecution.

### LEG 232 Law Office Management 3-0-3

This course is a study of the basic principles of office management, including administrative procedures, client relations, and office operating procedures.

### LEG 233 Wills Trusts and Probate 3-0-3

A detailed study of testacy and intestacy, preparation of wills and codicils, and fundamentals of trust and probate administration. (Legal Specialty)

### LEG 242 Law Practice Workshop 1-6-3

This course includes the application of substantive knowledge in a practical situation as a paralegal. (Legal Specialty)

### LEG 245 Real Estate Law I 3-0-3

Course examines residential real estate closing procedures and the preparation of a closing package by utilizing both print and electronic forms. (Legal Specialty)

### LEG 252 Business Applications 3-0-3

This course introduces computer applications in various business transaction settings using general and legal software programs. (Legal Specialty)

## MAT — Math

### MAT 032 Developmental Mathematics 3-0-3

This course includes the study of integers, rational numbers, percents, basic statistics, measurement, geometry, and basic algebra concepts. Application skills are emphasized.

### MAT 101 Beginning Algebra 3-0-3

This course includes the study of rational numbers and their applications, operations with algebraic expressions, linear equations and applications, linear inequalities, graphs of linear equations, operations with exponents and polynomials, and factoring.

### MAT 102 Intermediate Algebra 3-0-3

This course includes the study of linear systems and applications; quadratic expressions, equations, functions and graphs; and rational and radical expressions and functions.

**MAT 110 College Algebra 3-0-3**

This course includes the following topics: polynomial, rational, logarithmic, and exponential functions; inequalities; systems of equations and inequalities; matrices; determinants; and solutions of higher degree polynomials.

**MAT 111 College Trigonometry 3-0-3**

This course includes the following topics: trigonometric functions; trigonometric identities; solution of right and oblique triangles; solution of trigonometric equations; polar coordinates; complex numbers, including DeMoivre's Theorem; vectors; conic sections; and parametric equations. (Prerequisite: College Algebra)

**MAT 120 Probability and Statistics 3-0-3**

This course includes the following topics: introductory probability and statistics, including organization of data, sample space concepts, random variables, counting problems, binomial and normal distributions, central limit theorem, confidence intervals, and test hypothesis for large and small samples; types I and II errors; linear regression; and correlation.

**MAT 122 Finite College Mathematics 3-0-3**

This course includes the following topics: logic; sets; Venn Diagrams; counting problems; probability; matrices; systems of equations; linear programming, including the simplex method and applications; graphs; and networks. (Prerequisite: a college algebra course)

**MAT 130 Elementary Calculus 3-0-3**

This course includes the following topics: differentiation and integration of polynomials, rational, logarithmic, and exponential functions; and interpretation and application of these processes. (Prerequisite: College Algebra)

**MAT 140 Analytical Geometry and Calc I 4-0-4**

**Prerequisites:** MAT 111

This course includes the following topics: derivatives and integrals of polynomial, rational, logarithmic, exponential, trigonometric, and inverse trigonometric functions; curve sketching; maxima and minima of functions; related rates; work; and analytic geometry. (Prerequisite: a college algebra course and a college trigonometry course or pre-calculus)

**MAT 141 Analytical Geometry & Calc II 4-0-4**

**Prerequisites:** MAT 140

This course includes the following topics: continuation of calculus of one variable, including analytic geometry, techniques of integration, volumes by integration, and other applications; infinite series, including Taylor series and improper integrals. (Prerequisite: Analytical Geometry and Calculus I)

**MAT 155 Contemporary Mathematics 3-0-3**

This course includes techniques and applications of the following topics: properties of and operations with real numbers, elementary algebra, consumer mathematics, applied geometry, measurement, graph sketching and interpretations, and descriptive statistics.

**MAT 168 Geometry and Trigonometry 3-0-3**

This course includes the following topics: points, lines, angles, and angle measure; triangles; polygons; circles; geometric solids; trigonometric solution of triangles; graph of the sine function; and vectors.

**MAT 170 Algebra Geometry and Trig I 3-0-3**

This course includes the following topics: elementary algebra, geometry, trigonometry, and applications.

**MAT 175 Algebra and Trigonometry I 3-0-3**

This course includes the following topics: basic laws and operations of algebra, linear and quadratic equations, systems of equations, introduction to trigonometry and vectors, concepts of functions, and graphs of functions.

**MAT 176 Algebra and Trigonometry II 3-0-3**

**Prerequisites:** MAT 175

This course includes the following topics: advanced algebra, exponential and logarithmic functions, complex numbers, trigonometric identities, and graphs of trigonometric functions. Additional topics may include statistics and discrete mathematics.

**MAT 240 Analy Geometry and Calc III 4-0-4**

**Prerequisites:** MAT 141

This course includes the following topics: multivariable calculus, including vectors; partial derivatives and their applications to maximum and minimum problems with and without constraints; line integrals; multiple integrals in rectangular and other coordinates; and stokes' and green's theorems.

**MAT 242 Differential Equations 4-0-4**

**Prerequisites:** MAT 240

This course includes the following topics: solution of linear and elementary non-linear differential equations by standard methods with sufficient linear algebra to solve systems; applications; series; Laplace transform; and numerical methods.

**MAT 250 Elementary Mathematics 3-0-3**

Course provides students with an understanding of the meaning of numbers, fundamental operations of arithmetic, structure of the real number system & its subsystems, & elementary numbers theory. Within the parameters of an approved articulation agreement, this course may transfer to an accredited Education program at a comprehensive four-year college or university.

**MAT 251 Elementary Mathematics II 3-0-3**

**Prerequisites:** MAT 250

This course provides students with an understanding of informal geometry and basic concepts of algebra. Within the parameters of an approved articulation agreement, this course may transfer to an accredited Education program at a comprehensive four-year college or university.

## MGT – Management

### **MGT 101 Principles of Management 3-0-3**

This course is a study of management theories, emphasizing the management functions of planning, decision making, organizing, leading, and controlling.

### **MGT 120 Small Business Management 3-0-3**

This course is a study of small business management and organization, forms of ownership, and the process of starting a new business.

### **MGT 150 Fundamentals of Supervision 3-0-3**

This course is a study of supervisory principles and techniques required to effectively manage human resources in an organization. First-line management is emphasized.

### **MGT 201 Human Resources Management 3-0-3**

**Prerequisites:** *MGT 101*

This course is a study of personnel administration functions within a business organization. Major areas of study include: job analysis; recruitment, selection and assessment of personnel, wage, salary and benefit administration.

### **MGT 240 Management Decision Making 3-0-3**

This course is a study of various structured approaches to managerial decision making.

## MKT – Marketing

### **MKT 101 Marketing 3-0-3**

This course introduces the field of marketing with a detailed study of the marketing concept and the processes of product development, pricing, promotion, and marketing distribution.

### **MKT 110 Retailing 3-0-3**

This course is a study of the importance of retailing in American business and covers the concepts of store location, layout, merchandising, display, pricing, inventory control, promotional programs and profit management.

### **MKT 120 Sales Principles 3-0-3**

This course is a study of the personal selling process with special emphasis on determining customer needs and developing effective communications and presentation skills.

### **MKT 135 Customer Service Techniques 3-0-3**

This course studies techniques and skills required for providing customer service excellence, including illustrations to turn customer relations into high standards of customer service, satisfaction, and repeat sales.

### **MKT 240 Advertising 3-0-3**

**Prerequisites:** *MKT 101*

Studies the role of advertising in the marketing of goods and service, including types of advertising, media, how advertising is created, agency functions, and regulatory aspects of advertising.

### **MKT 290 SCWE in Marketing 0-12-3**

**Prerequisites:** *MKT 101*

This course is an application of marketing skills at an approved business site.

## MTH – Massage Therapy

### **MTH 113 Essentials of A&P for Massage 2-3-3**

This course will focus on the pre-massage assessment of each body region including signs and symptoms relating to pathological conditions. Specific emphasis will be given to the skeletal, muscular, cardiovascular and nervous systems.

### **MTH 120 Introduction to Massage 4-0-4**

A comprehensive introduction to therapeutic massage including history, theories, benefits, contraindications, ethical considerations, and S.C. Law for licensure. Swedish techniques are introduced.

### **MTH 121 Principles of Massage I 3-3-4**

This course is an in-depth study of Swedish massage techniques and applications to a complete body massage.

### **MTH 122 Principles of Massage II 3-3-4**

**Prerequisites:** *MTH 113, MTH 120, MTH 121*

This course introduces basic assessment skills and application of therapeutic techniques to muscles, tendons, ligaments, and other structures.

### **MTH 126 Pathology for Massage Therapy 2-0-2**

**Prerequisites:** *MTH 113, MTH 120, MTH 121, MTH 122*

This course covers basic pathology for the massage therapy student. The course includes signs and symptoms of diseases with emphasis on recognition and identification, as prescribed in massage therapy.

### **MTH 128 Clinical Apps of Massage 2-6-4**

**Prerequisites:** *MTH 113, MTH 120, MTH 121, MTH 122*

Students will perform massage therapy in a clinical massage setting. Students will be closely supervised and evaluated by instructors in all aspects of massage.



**MTH 132 Massage Therapy Seminar 1-0-1****Prerequisites:** MTH 113 and MTH 120 and MTH 121 and MTH 122**Corequisites:** MTH 128, MTH 135, MTH 136, MTH 141, MTH 126

This course includes the integration of didactic and clinical techniques in Massage Therapy. This course is the study of the skills needed to enter the professional arena, including resume writing, interviewing, professional decision making, and preparation for the Massage & Bodywork Licensing Examination.

**MTH 135 Massage Practicum 0-6-2****Prerequisites:** MTH 113, MTH 120, MTH 121, MTH 122 MTH 113, MTH 120, MTH 121, MTH 122 MTH 113, MTH 120, MTH 121, MTH 122**Corequisites:** MTH 126, MTH 128, MTH 136, MTH 141

This course provides practical experience in all aspects of therapeutic massage application using advanced techniques & specialized modalities in the professional setting. Students will observe facility & business operations under supervision of licensed massage therapists or licensed medical staff.

**MTH 136 Kinesiology for Massage Therap 1-3-2****Prerequisites:** MTH 113 and MTH 120 and MTH 121 and MTH 122

This course is a study of body movement and the body's muscular and structural factors, such as posture and gait, in relation to massage therapy. Specific emphasis will be placed on the affects of massage therapy on the way the body reacts during various activities.

**MTH 141 Pharmacology for Massage 1-0-1****Prerequisites:** MTH 113 and MTH 120 and MTH 121 and MTH 122

This course studies the effects of medications commonly reported on health intake forms by massage clients. Topics include common over-the-counter pain relievers, NSAIDS, and medications for cardiovascular disease and diabetes. Emphasis is placed on possible contradictions for massage therapy.

## MTT – Machine Tool Technology

**MTT 101 Introduction to Machine Tool 1-3-2**

This course covers the basics in measuring tools, layout tools, bench tools and basic operations of lathes, mills, and drill presses.

**MTT 105 Machine Tool Math Applications 3-0-3****Prerequisites:** MAT 170**Corequisites:** MTT 112, MTT 130, MTT 141

This course is a study of shop math relevant to the machine tool trade.

**MTT 106 Machine Tool Computer App 3-0-3**

This course is a study of basic computer applications that are used in machining industries. Topics will include word processing, ASCII text editing, spreadsheets, locating information on the internet and serial communicational concepts.

**MTT 111 Machine Tool Theory & Prac I 1-12-5**

This course is an introduction to the basic operation of machine shop equipment.

**MTT 112 Machine Tool Theory & Prac II 1-12-5****Prerequisites:** MTT 101 and MTT 111**Corequisites:** MTT 105, MTT 130, MTT 141

This course is a combination of the basic theory and operation of machine shop equipment.

**MTT 113 Machine Tool Theory & Prac III 1-12-5****Prerequisites:** MTT 101 and MTT 112**Corequisites:** MTT 255

This advanced course is a combination of theory and practice to produce complex metal parts. This course will include advanced machining and grinding procedures required to complete all machining applications.

**MTT 120 Machine Tool Print Reading 3-0-3**

This course is designed to develop the basic skills and terminology required for visualization and interpretation of common prints used in the machine tool trades.

**MTT 130 Fund of Geometric Dim & Tole 2-0-2****Prerequisites:** MTT 120**Corequisites:** MTT 105, MTT 112, MTT 141

This course covers the basic uses and interpretation of geometric dimensions and tolerances as specified for machine trade prints.

**MTT 141 Metals & Heat Treatment 3-0-3****Prerequisites:** MTT 101**Corequisites:** MTT 105, MTT 112, MTT 130

This course is a study of the properties, characteristics, and heat treatment procedures of metals.

**MTT 171 Industrial Quality Control 1-3-2****Prerequisites:** MTT 112**Corequisites:** MTT 241, MTT 249, MTT 250

This course covers the methods and procedures of quality control.

**MTT 241 Jigs and Fixtures I 1-3-2****Prerequisites:** MTT 101**Corequisites:** MTT 171, MTT 249, MTT 250

This course includes the theory necessary to design working prints of simple jigs and fixtures.

**MTT 249 Introduction to CAM** 2-3-3**Prerequisites:** MTT 112 and MTT 106**Corequisites:** MTT 171, MTT 241, MTT 250

This course covers the basic commands necessary to create a simple part program for CNC machines using a graphics programming software.

**MTT 250 Principles of CNC** 2-3-3**Prerequisites:** MTT 112**Corequisites:** MTT 171, MTT 241, MTT 249

This course is an introduction to the coding used in CNC programming.

**MTT 251 CNC Operations** 2-3-3**Prerequisites:** MTT 250**Corequisites:** EGR 275, MTT 253, MTT 252, WLD 116

This course is a study of CNC machine controls, setting tools, and machine limits, and capabilities.

**MTT 252 CNC Setup and Operations** 1-9-4**Prerequisites:** MTT 250**Corequisites:** EGR 275, MTT 251, MTT 253, WLD 116

This course covers CNC setup and operations.

**MTT 253 CNC Programming & Oper** 1-6-3**Prerequisites:** MTT 250**Corequisites:** EGR 275, MTT 251, MTT 252, WLD 116

This course is a study of the planning, programming, selecting tooling, determining speeds and feeds, setting up, operating, and testing of CNC programs on CNC machines.

**MTT 254 CNC Programming I** 1-6-3**Prerequisites:** EGR 275**Corequisites:** MTT 113, MTT 255

This course is a study of CNC programming, including machine language and computer assisted programming.

**MTT 255 CNC Programming II** 2-3-3**Prerequisites:** MTT 254**Corequisites:** MTT 113

This course includes CNC programming with simulated production conditions.

## MUS – Music

**MUS 105 Music Appreciation** 3-0-3

This course is an introduction to the study of music with focus on the elements of music and their relationships, the musical characteristics of representative works and composers, common musical forms and genres of various western and non-western historical style periods, and appropriate listening experiences.

**MUS 111 Band I** 0-3-1

**Prerequisites:** Prior experience on a brass, woodwind, or percussion instrument, or in dance or color guard. Band camp in early August is required of all members for placement auditions, fundamentals training and show preparations.

This course includes the study and performance of selected band music.

**MUS 112 Band II** 0-3-1

**Prerequisites:** Prior experience on a brass, woodwind, or percussion instrument.

This course includes the study and performance of selected band music.

## NMT – Nuclear Medicine Tech

**NMT 101 Intro to Nuclear Medicine** 2-0-2

This course is a study of the overall basics of nuclear medicine technology.

**NMT 102 Nuclear Medicine Procedures I** 2-0-2

This course is a study of didactic concepts for the practice of clinical nuclear medicine.

**NMT 103 Nuclear Medicine Physics** 2-0-2

This course is a study of the basic math and statistical skills necessary to perform nuclear physics problems.

**NMT 104 Nuclear Med Procedures II** 2-0-2**Prerequisites:** NMT 102

This course is a study of background knowledge for application of nuclear medicine procedures.

**NMT 105 Quality Assurance Methodology** 2-0-2**Prerequisites:** NMT 150

This course covers the information necessary to plan and implement procedures that will satisfy quality assurance standards.

**NMT 106 Nuclear Med Procedures III** 2-0-2**Prerequisites:** NMT 104

This course covers theory and principles of non-imaging procedures.

**NMT 107 Nuclear Medicine Instrumentati** 3-0-3**Prerequisites:** NMT 102

This course covers theory and application of radiation detection instruments.

**NMT 109 Special Topics in Nuclear Med** 2-0-2**Prerequisites:** NMT 104

This course covers a variety of special topics in nuclear medicine.

**NMT 150 Applied Nuclear Medicine I 0-24-8**

This course covers the application of nuclear medicine.

**NMT 151 Applied Nuclear Medicine II 0-24-8**

**Prerequisites:** NMT 150

This course covers more advanced applications of nuclear medicine.

**NMT 152 Applied Nuclear Medicine III 0-18-6**

**Prerequisites:** NMT 151

This course covers challenging and difficult applications of nuclear medicine.

## NRM – Environmental Science

**NRM 130 Outdoor Recreation Management 2-3-3**

This course examines the management of natural resources for outdoor recreational purposes.

**NRM 151 Vertebrate Natural History 3-0-3**

This course includes the taxonomic classification, identification, geographic range, and biology of fish, amphibians, reptiles, birds, and mammals native to South Carolina and the Southeast.

**NRM 201 Soil Fertility & Plant Prod 2-3-3**

This course is a study of agronomic principles of soil management and plant production, including use and application of chemical fertilizers.

**NRM 230 Wildlife Management I 3-0-3**

This course is a basic study and application of management practices which are beneficial to wildlife. Methods for increasing food production, developing water sources, providing cover requirements, and improving wetlands are included.

**NRM 231 Habitat Assessment & Apps 3-0-3**

**Prerequisites:** ( NRM 230

**Corequisites:** FOR 102

This course examines assessment methods for the purposes of enhancing existing habitats. Coursework will include practical application of assessment concepts including fertilization, vegetation control, tillage, use of herbicides and others.

**NRM 235 Techniques of Wildlife Mgmt 2-3-3**

**Prerequisites:** NRM 230

This course includes a survey of applied techniques of wildlife management. The course covers "hands on" instruction in the outdoors.

**NRM 250 Wetlands Ecology 2-3-3**

**Prerequisites:** FOR 130

This course covers the identification, taxonomy, and life histories of freshwater fish, associated plant species and their environment. Management implications for various species of fish with commercial, sport or ecological value are included.

## NUR – Nursing

**NUR 101 Fundamentals of Nursing 4-6-6**

**Prerequisites:** or MAT 130

**Corequisites:** NUR 161, BIO 210, ENG 101, MAT 110, MAT 120, NUR 161

This course facilitates the development of beginning technical competency in the application of the nursing process to assist in meeting the physiological, sociological, psychological and spiritual needs of selected patients of varying ages. Concepts forming the foundation for general nursing practice, nursing process, critical thinking, communication and management are emphasized campus lab and hospital facilities are the major settings for clinical experiences.

**NUR 120 Basic Nursing Concepts 4-9-7**

**Prerequisites:** NUR 101 and NUR 161

**Corequisites:** BIO 211, ENG 102

This course introduces the application of the nursing process in the care of adult clients throughout the life span who are experiencing selected common health problems. Course builds upon the concepts introduced in NUR 101, increasing in complexity with emphasis on application of the nursing process, critical thinking, communication and management in the clinical setting. A variety of clinical settings including campus labs are used for clinical experiences.

**NUR 150 Chronic Health Problems 4-6-6**

**Prerequisites:** NUR 120

**Corequisites:** NUR 201, NUR 162, BIO 225, PSY 201

This course expands application of the nursing process in meeting needs of adult clients with chronic health problems. Course emphasizes the application of the nursing process, critical thinking, communication and management to promote, maintain and restore health of clients experiencing chronic health problems at various stages of the lifespan. General medical and rehabilitation facilities are used for clinical experiences.

**NUR 161 Basic Concepts of Pharmacology 2-0-2**

**Prerequisites:** or MAT 130 or ( NUR 150 and NUR 162 )

**Corequisites:** NUR 101, BIO 210, ENG 101, MAT 110, MAT 120

This course is an introductory study to pharmacotherapeutics, including drug classifications and clinical implications for clients.

**NUR 162 Psychiatric & Mental Health Nu 2-3-3**

**Prerequisites:** NUR 120

**Corequisites:** NUR 201, NUR 150, BIO 225, PSY 201

This course covers application of critical thinking skills and nursing concepts in the care of adult clients with selected mental health problems in a variety of settings. The course includes the study of dynamics of human behavior ranging from normal to extreme.

**NUR 201 Transition Nursing 3-2-3****Prerequisites:** *and BIO 225 and PSY 201***Corequisites:** *NUR 150, NUR 162*

This course facilitates the transition of the practical nurse graduate to the role of the associate degree nursing student. Philosophical, ethical and legal concepts of registered nursing practice and the physiological and psychosocial needs of the person are emphasized. Clinical experiences assist the student in application of the nursing process, communication, critical thinking, and management in the delivery of nursing care.

**NUR 217 Trends and Issues in Nursing 1-3-2****Prerequisites:** *NUR 220 and NUR 161 and NUR 161***Corequisites:** *NUR 221, SPC 205*

This course is an exploration of health care trends and issues to facilitate role transition from student to graduate nurse. Critical thinking, management and communication within the framework of the nursing process are emphasized. Decision making, priority setting and analyzing all dimensions of nursing care for groups of clients across the lifespan with various health care needs in a variety of settings are included. This course is to be taken in the students final semester of the nursing curriculum.

**NUR 220 Family Centered Nursing 4-9-7****Prerequisites:** *NUR 150 and NUR 162 and NUR 161*

This course facilitates the application of the nursing process in the care of persons during the childbearing years and from birth through adolescence to promote optimal individual health and development at any stage of the health continuum.

**NUR 221 Advanced Nursing Concepts 3-6-5****Prerequisites:** *NUR 220 and NUR 161***Corequisites:** *NUR 217, SPC 205*

This course expands the application of the nursing process throughout the lifespan in the care of clients experiencing complex health problems. Continual development in application of the nursing process, critical thinking, communication and management to meet the holistic needs of the individual with acute complex health problems as a member of the family and community is emphasized. Acute care facilities including critical care as well as various community settings are used for clinical experiences.

## PHI — Philosophy

**PHI 101 Introduction to Philosophy 3-0-3**

This course includes a topical survey of the three main branches of philosophy -- epistemology, metaphysics, and ethics -- and the contemporary questions related to these fields.

**PHI 103 Workplace Ethics 3-0-3**

This course is a study of specific ethical issues that arise in a workplace setting. The course includes the utilization of problem scenarios, case studies, and codes of ethics used in industry and the professions.

**PHI 110 Ethics 3-0-3**

This course is a study of the moral principles of conduct emphasizing ethical problems and modes of ethical reasoning.

**PHI 115 Contemporary Moral Issues 3-0-3****Prerequisites:** *PHI 110*

This course examines moral issues in contemporary society, including basic principles and applications of ethics.

**PHI 201 History of Philosophy 3-0-3**

This course is a survey of the history of philosophical thinking.

## PHM — Pharmacy Technology

**PHM 101 Introduction to Pharmacy 3-0-3**

This course provides a study of and introduction to pharmacy and the role in providing patient care services.

**PHM 103 Pharmacy Law & Ethics 2-0-2**

This course is a study of the current laws and ethical practices appropriate to pharmacy and the role of patient services.

**PHM 110 Pharmacy Practice 3-3-4****Prerequisites:** *PHM 101 and PHM 103 and PHM 111 and PHM 112 and PHM 114***Corequisites:** *PHM 113, PHM 173*

This course provides a study of theory and practice in procuring, manipulating, and preparing drugs for dispensing.

**PHM 111 Applied Pharm Prac Laboratory 0-6-2**

This course is a study of laboratory based, hands-on application of principles used in manipulation of data and materials in the preparing and dispensing of drugs.

**PHM 112 Pharmacy Math 0-2-2**

This course provides a study of mathematical manipulation and measurement systems as allied to pharmacy.

**PHM 113 Pharmacy Technician Math 0-3-3****Prerequisites:** *PHM 101 and PHM 103 and PHM 111 and PHM 112 and PHM 114***Corequisites:** *PHM 110, PHM 173*

This course includes a review of basic mathematics focusing on its application to common pharmaceutical calculations.

**PHM 114 Therapeutic Agents I 2-3-3**

This course provides an introductory study of therapeutic drug categories.

**PHM 118 Community Pharmacy Seminar 1-0-1****Prerequisites:** *PHM 113 and PHM 110 and PHM 173***Corequisites:** *PHM 124, PHM 175*

This course is a study of the pharmacy issues related to the community pharmacy practice.

**PHM 124 Therapeutic Agents II** 3-0-3**Prerequisites:** PHM 113 and PHM 110 and PHM 173**Corequisites:** PHM 118, PHM 175

This course includes a study of therapeutic drug categories.

**PHM 173 Pharmacy Tech Practicum III** 0-9-3**Prerequisites:** PHM 101 and PHM 103 and PHM 111 and PHM 112 and PHM 114**Corequisites:** PHM 110, PHM 113

This course includes practical experience in a working pharmacy environment.

**PHM 175 Pharmacy Tech Practicum** 0-9-3**Prerequisites:** PHM 113 and PHM 110 and PHM 173**Corequisites:** PHM 118, PHM 124

This course provides a study of and introduction to the pharmacy in providing patient care services.

## PHY — Physics

**PHY 118 Medical Imaging Science** 3-0-3

This course is the study of the fundamental physics associated with the field of medical imaging sciences. The areas of study include concepts of radiation production as it relates to x rays and nuclear medicine studies and acoustical properties related to sonographic exams.

**PHY 201 Physics I** 3-3-4

This is the first of a sequence of courses. The course includes a calculus based treatment of the following topics: vectors, laws of motion, rotation, vibratory, and wave motion.

**PHY 202 Physics II** 3-3-4**Prerequisites:** PHY 201

This course covers physics topics, including mechanics, wave motion, sound, heat, electromagnetism, optics, and modern physics.

**PHY 221 University Physics I** 3-3-4**Prerequisites:** MAT 130 or MAT 140

This is the first of a sequence of courses. The course includes a calculus based treatment of the following topics: vectors, laws of motion, rotation, vibratory, and wave motion.

**PHY 222 University Physics II** 3-3-4**Prerequisites:** PHY 221

This course is a continuation of calculus based treatment of the following topics: thermodynamics, kinetic theory of gases, electricity and magnetism, including electrostatics, dielectrics, electric circuits, magnetic fields, and induction phenomena.

## PNR — Practical Nursing

**PNR 110 Fundamentals of Nursing** 3-6-5**Prerequisites:** or MAT 110 or MAT 120 or MAT 130**Corequisites:** BIO 210, MAT 155

This course provides an introduction to basic principles and beginning skills necessary to the nursing process. Concepts are integrated relating to physiological and psychosocial needs of the individual. Legal and ethical roles of the practical nurse are emphasized.

**PNR 120 Medical/Surgical Nursing I** 3-6-5**Prerequisites:** PNR 110 and BIO 210 and ( MAT 155 or MAT 110 or MAT 120 or MAT 130 ) PNR 110

This course is a beginning study utilizing the nursing process to meet the needs of adults. Concepts include physiological, psychosocial, nutritional, and health and safety needs of the adult. Clinical experiences address selected commonly occurring health problems having predictable outcomes.

**PNR 130 Medical/Surgical Nursing II** 3-6-5**Prerequisites:** PNR 120**Corequisites:** BIO 211, AHS 108

This course is a continuation of PNR 120, utilizing the nursing process to meet the needs of adults. Concepts include physiological, psychosocial, nutritional and health and safety needs of the adult. Clinical experiences address selected commonly occurring health problems having predictable outcomes.

**PNR 140 Medical/Surgical Nursing III** 3-6-5**Prerequisites:** and PNR 154 or ENG 101 )**Corequisites:** PNR 183, ENG 101, PSY 201

This course is a continuation of PNR 120, utilizing the nursing process to meet the needs of adults. Concepts include physiological, psychosocial, nutritional, and health and safety needs of the adult. Clinical experiences address selected commonly occurring health problems having predictable outcomes.

**PNR 154 Maternal/Infant/Child Nursing** 3-6-5**Prerequisites:** PNR 130 and BIO 211 and AHS 108

This course is a study utilizing the nursing process to meet the needs of the childbearing family. Clinical experiences address the care of the mother, newborn, and the care of the child with commonly occurring diseases.

**PNR 183 Special Topics in Prac Nursing** 3-0-3**Prerequisites:** and PNR 154**Corequisites:** PNR 140, ENG 101, PSY 201

This course covers special topics in practical nursing.

## PSC — Political Science

### PSC 201 American Government 3-0-3

This course is a study of national governmental institutions with emphasis on the Constitution, the functions of executive, legislative and judicial branches, civil liberties and the role of the electorate.

### PSC 215 State and Local Government 3-0-3

This course is a study of state, county, and municipal government systems, including interrelationships between these systems and within the federal government.

## PSY — Psychology

### PSY 103 Human Relations 3-0-3

This course is a study of human relations, including the dynamics of behavior, interrelationships, and personality as applied in everyday life.

### PSY 201 General Psychology 3-0-3

This course includes the following topics and concepts in the science of behavior: scientific method, biological bases for behavior, perception, motivation, learning, memory, development, personality, abnormal behavior, therapeutic techniques, and social psychology.

### PSY 203 Human Growth and Development 3-0-3

**Prerequisites:** PSY 201

This course is a study of the physical, cognitive, and social factors affecting human growth, development, and potential.

### PSY 210 Educational Psychology 3-0-3

**Corequisites:** PSY 201, EDU 110

This course is the study of the teaching-learning process with emphasis on learning theory, transfer, problem solving, habit formation, individual difference, and other factors that facilitate learning.

### PSY 212 Abnormal Psychology 3-0-3

**Prerequisites:** PSY 201

This university parallel transfer course is a study of the nature and development of behavioral disorders, including the investigation of contemporary treatment procedures.

## PTH — Physical Therapy

### PTH 101 Physical Therapy Prof Prep 1-3-2

**Prerequisites:** and BIO 210

**Corequisites:** ENG 102, BIO 211, SPC 205

This course introduces the purpose, philosophy and history of physical therapy and medical/legal documentation.

### PTH 202 Physical Therapy Modalities 3-3-4

**Prerequisites:** PTH 101, PTH 205, PTH 221 or BIO 211, CPT 101, ENG 102, SPC 205

This course introduces patient care techniques, including patient preparation and therapeutic hot/cold modalities.

### PTH 205 Physical Therapy Func Anatomy 3-3-4

**Prerequisites:** Enrollment Limited to students with major code of PTA 3

This course introduces the basic concepts and principles of muscles, joints, and motion, including traditional testing procedures.

### PTH 221 Pathology I 2-0-2

**Prerequisites:** Enrollment Limited to students with major code of PTA 3

This course is an introduction to basic pathophysiology of the body with the emphasis on the body's reaction to disease and injury.

### PTH 222 Pathology II 2-0-2

**Prerequisites:** PTH 101, PTH 205 and PTH 221

This course is a continuation of the pathologies commonly treated in physical therapy with emphasis on etiology, clinical picture, diagnosis and treatment.

### PTH 228 Manual Therapy Techniques 1-3-2

**Prerequisites:** PTH 202, PTH 222, PTH 234, PTH 240

This course introduces principles and basic techniques of manual therapy and wound care.

### PTH 234 Clinical Education I 0-9-3

**Prerequisites:** BIO 211, CPT 101, ENG 102, PTH 101, PTH 205, PTH 221, SPC 205

This course provides basic clinical experiences for the physical therapist assistant student within a physical therapy setting.

### PTH 235 Interpersonal Dynamics 2-0-2

**Prerequisites:** PTH 228, PTH 242 and PTH 253

This course introduces the dynamics of the health professional/patient relationship and includes communication and the principles of respectful interaction throughout the life cycle.

### PTH 240 Therapy Exercises/Applications 3-6-5

**Prerequisites:** BIO 211, CPT 101, ENG 102, PTH 101, PTH 205, PTH 221, SPC 205

This course provides the practical application of therapeutic exercise.

### PTH 242 Orthopedic Management 3-3-4

**Prerequisites:** PTH 202, PTH 222, PTH 234 and PTH 240

This course introduces basic orthopedic assessment skills and application of treatment techniques for the trunk and extremities.

**PTH 244 Rehabilitation 3-3-4****Prerequisites:** PTH 228 and PTH 253 and PTH 242

This course introduces neurological principles, pathology, and specialized rehabilitation techniques for pediatric and adult care.

**PTH 253 Clinical Practice II 0-9-3****Prerequisites:** PTH 202 and PTH 240 and PTH 234 and PTH 222

This course involves the student's participation in the basic treatment techniques of physical therapy, intensified in both the clinic and classroom setting.

**PTH 270 Special Topics in Physical The 2-3-3****Corequisites:** PTH 101, PTH 205, PTH 221, SPC 205, ENG 102, PSY 203

This course provides opportunities for specialized study of selected topics in physical therapy.

**PTH 275 Adv Professional Preparation 1-0-1****Prerequisites:** PTH 228 and PTH 253 and PTH 242

This course is the study of the skills needed to enter the professional arena, including resume writing, interviewing, professional decision making, and preparation for the PTA National Board Examination.

**PTH 276 Physical Therapy Prac II 0-18-6****Prerequisites:** PTH 228 and PTH 253 and PTH 242

This course includes a practicum experience in a clinical setting using advanced skills under the supervision of a licensed physical therapist and/or a licensed physical therapist assistant.

## RAD — Radiologic Technology

**RAD 101 Introduction to Radiography 1-3-2**

This course introduces radiologic technology with emphasis on orientation to the radiology department, ethics, and basic radiation protection.

**RAD 102 Radiology Patient Care Proc 2-0-2**

This course provides a study of the procedures and techniques used in the care of the diagnostic imaging patient.

**RAD 103 Intro to Computed Tomography 2-0-2**

This course is a study of the technological developments behind computed tomography, an overview of scanner components, terminology, data acquisition, digital imaging, image reconstruction, display and manipulations. Current applications will be explored, including patient screening, contract utilization and administration, contrast reactions and treatment, pediatrics, conscious sedation and monitoring, and radiation protection.

**RAD 110 Radiographic Imaging I 2-3-3****Prerequisites:** RAD 101

This course provides a detailed study of the parameters controlling radiation quality and quantity for radiographic tube operation and image production.

**RAD 115 Radiographic Imaging II 3-0-3****Prerequisites:** RAD 110

This course continues a detailed study of primary and secondary influencing factors and accessory equipment related to imaging.

**RAD 130 Radiographic Procedures I 2-3-3**

This course provides an introduction to radiographic procedures. Positioning of the chest, abdomen, and extremities are included.

**RAD 136 Radiographic Procedures II 2-3-3****Prerequisites:** RAD 130

This course is a study of radiographic procedures for visualization of the structures of the body. Also study of the vertebral column and bony thorax.

**RAD 153 Applied Radiography I 0-9-3**

This course introduces the clinical environment of the hospital by providing basic use of radiographic equipment and routine radiographic procedures.

**RAD 165 Applied Radiography II 0-15-5****Prerequisites:** RAD 153

This course includes the use of radiographic equipment and performance of radiographic procedures within the clinical environment of the hospital.

**RAD 175 Applied Radiography III 0-15-5****Prerequisites:** RAD 165

This course includes clinical education needed for building competence in performing radiographic procedures within the clinical environment.

**RAD 201 Radiation Biology 2-0-2**

This course is a study of the principles of radiobiology and protection. It emphasizes procedures that keep radiation exposure to patients, personnel, and the population at large to a minimum.

**RAD 205 Radiographic Pathology 2-0-2****Prerequisites:** RAD 136

This course provides a survey of disease processes significant to the radiographer, including etiology, diagnosis, prognosis, and treatment.

**RAD 210 Radiographic Imaging III 3-0-3****Prerequisites:** RAD 115

This course provides a detailed study of advanced methods and concepts of imaging, including radiology and the law, radiology management and venipuncture.

**RAD 220 Selected Imaging Topics 3-0-3****Prerequisites:** RAD 201 or RAD 210 or RAD 230

This course is a study of advanced topics unique to the radiological sciences.

**RAD 230 Radiographic Procedures III 3-0-3****Prerequisites:** RAD 136

This course is a study of special radiographic procedures.

**RAD 256 Advanced Radiography I 0-18-6****Prerequisites:** RAD 175

This course includes independently performing routine procedures in a radiology department, including involvement in advanced radiographic procedures.

**RAD 268 Advanced Radiography II 0-24-8****Prerequisites:** RAD 256

This course includes routine radiographic examinations, as well as advanced procedures, while continuing to build self-confidence in the clinical atmosphere.

**RAD 278 Advanced Radiography III 0-24-8****Prerequisites:** RAD 268

This course includes routine and advanced radiographic procedures in the clinical environment.

## REL — Religion

**REL 103 Comparative Religion 3-0-3**

This course is an analysis of the religious experience of various persons and groups, east and west, in traditional and contemporary settings. It includes indigenous religions, Hinduism, Buddhism, Confucianism, Taoism, Judaism, Christianity, and Islam.

## RES — Respiratory Care

**RES 101 Intro to Respiratory Care 2-3-3**

This course includes introduction topics pertinent to entering the respiratory care profession, i.e., medical terminology, ethical issues, and legal issues.

**RES 111 Pathophysiology 2-0-2****Prerequisites:** RES 101

This course is a study of the general principles and analyses of normal and diseased states. The course will detail the etiology, diagnosis, and treatment of such disease states.

**RES 121 Respiratory Skills I 2-6-4**

This course includes a study of basic respiratory therapy procedures and their administration. Skills required to be a Respiratory Care Professional are detailed in this course. Modalities and therapeutic procedures are covered in detail to prepare the student to for entry into the clinical setting. The lab portion of this class will require the student to demonstrate adequate knowledge of the procedures covered before entering the healthcare setting.

**RES 131 Respiratory Skills II 3-3-4****Prerequisites:** RES 121

This course is a study of selected respiratory care procedures and applications. This course will detail the advanced skills required to practice as an advanced Respiratory Care Professional. Modalities and therapeutic procedures are covered in this course to prepare the student to build on the knowledge obtained in Respiratory Skills I.

**RES 141 Respiratory Skills III 2-3-3****Prerequisites:** RES 246

This course covers mechanical ventilation systems, pediatrics and associated monitors. The course will introduce the student to theory and practice of mechanical ventilation to the acute or chronic pulmonary impaired patient. The theory of operation, classifying the need for mechanical ventilation and managing the care of the pulmonary impaired patient are introduced in this course. The laboratory portion of this class will allow the student to practice and demonstrate proficiency before performing these procedures in the healthcare setting.

**RES 152 Clinical Applications II 0-9-3**

This course includes practice of respiratory care procedures in the hospital setting. This healthcare setting course will allow the student, working a long side licensed healthcare professional, to observe daily routines of the Respiratory Care professional and work to become proficient with current assigned therapeutic procedures covered in the laboratory setting. The student will be required to maintain physician contact and skills check offs of all therapeutic procedure covered in this course.

**RES 154 Clinical Applications II 0-12-4****Prerequisites:** RES 152

This course includes practice of respiratory care procedures in the hospital setting. This healthcare setting course will allow the student, working a long side licensed healthcare professional, to observe daily routines of the Respiratory Care professional and work to become proficient with current assigned therapeutic procedures covered in the laboratory setting. The student will be required to maintain physician contact and skills check off of all therapeutic procedures covered in this course.



**RES 204 Neonatal/Pediatric Care 2-3-3**

**Prerequisites:** RES 141

This course focuses on cardiopulmonary physiology, pathology, and management of the newborn and pediatric patient. Development of the cardiopulmonary state of the fetus to changes at birth is detailed. Ventilation techniques of this special population are also addressed, as well as, testing critical thinking skills for emergency intervention on the neonatal and pediatric patient. Disease states common to these patients are also addressed in this course.

**RES 207 Management in Respiratory Care 2-0-2**

**Prerequisites:** RES 204

This course is a study of health care management, emphasizing the importance of good planning, decision-making, and organizational skills as they relate to respiratory care.

**RES 220 Hemodynamic Monitoring 1-0-1**

**Prerequisites:** RES 111

This course is a study of basic hemodynamic monitoring. As well as laboratory results related to the Respiratory Care Profession. This course will also integrate the basic concepts of Math, Physics, and Chemistry used by Respiratory Care Professionals in their daily practice.

**RES 232 Respiratory Therapeutics 2-0-2**

**Prerequisites:** RES 131

This course is the study of specialty areas in respiratory care, including rehabilitation. The course will detail the different types of healthcare settings and record keeping the therapist may become involved with, such, homecare, skilled nursing facilities, rehabilitation units, physician offices, and hospice facilities. Professional organizations and licensure regulations are addressed in this course as well.

**RES 235 Respiratory Diagnostics 3-3-4**

**Prerequisites:** RES 101

This course is a study of diagnostic and therapeutic procedures. Students will develop the skills required to assess, diagnose, and manage a patient's airway. It specifically describes the Respiratory Therapist's role in maintaining a patent airway by using lung expansion therapy, bronchial hygiene techniques, and suctioning. The insertion, maintenance, and removal of artificial airways, which include endotracheal tubes and tracheostomy tubes, will be discussed in detail.

**RES 236 Cardiopulmonary Diagnostics 3-0-3**

**Prerequisites:** RES 235

This course focuses on the purpose, use, and evaluation of equipment/procedures used in the diagnosis and therapeutic management of patients with cardiopulmonary disease. This course builds on the knowledge in Respiratory Diagnostics and introduces an in depth study of Electrocardiography, Pulmonary Function and Stress testing, and Radiographic procedures involved in the Respiratory Care profession.

**RES 242 Adv Respiratory Care Trans 1-0-1**

**Prerequisites:** RES 236

This course provides a comprehensive review of respiratory care. This course assists in preparation for the successful completion of the written board exam. Analyze test taking strategies to enhance performance on standardized tests. Review cognitive material relevant to the advanced-level Respiratory Care Practitioner and describe three different types of exam questions found on the NBRC credentialing exam. Lastly, practice exam questions in preparation for the national credential exams.

**RES 244 Advanced Respiratory Skills I 0-12-4**

**Prerequisites:** RES 141

This course includes an in-depth study of mechanical ventilation and considerations for management of the critical care patient. The course will allow the student to build on the theory of mechanical ventilation taught in Respiratory Skills III. The student will learn advanced theory of practice and care of the mechanically ventilated patient. Ventilation protocols will be covered in this course to all the student to practice critical thinking skills involved in the practice of a Respiratory Therapist. The lab portion of this class will enable the student to become proficient with all types of ventilation skills while treating all ages and types of impaired patients before performing these procedures in the healthcare setting.

**RES 246 Respiratory Pharmacology 2-0-2**

This course includes a study of pharmacologic agents used in cardiopulmonary care. This course covers the indications, side effects, and hazards of pharmacologic agents used in the intensive care unit. Emphasis is on agents commonly administered by the respiratory care practitioner. Including pharmacokinetic and pharmacodynamics phases of therapy. The student will learn the detailed application and use of medication in the Respiratory Care setting. Current and detailed calculations of medications used are stressed in detail in this course to ensure adequate and proper dosage of all medications to all types of acute and chronically ill patients.

**RES 249 Comprehensive Applications 0-6-2**

**Prerequisites:** RES 152 and RES 154

This course includes the integration of didactic and clinical training in respiratory care technology. This section will introduce the student to the alternative types of Respiratory including Homecare, Sleep Clinics, and Outpatient testing labs.

**RES 253 Adv Clinical Studies I 0-18-6**

**Prerequisites:** RES 152 and RES 154 and RES 249

This course includes clinical instructions in advanced patient care practice. This healthcare setting course will allow the student, working a long side a licensed health care professional, to become proficient with the skills covered to this point in the Respiratory Care Program. The student will be required to maintain physician contact and skills check offs of all therapeutic procedure covered in RES 152, Clinical Applications I; RES 154, Clinical Applications II; and RES 249, Comprehensive Applications. During this rotation the student will be encourage to work and participate in the critical care environment and become proficient with the skills learned in the laboratory setting of mechanical ventilation.

**RES 254 Adv Clinical Studies II** 0-21-7**Prerequisites:** RES 152 and RES 154 and RES 249 and RES 253

This course includes clinical instruction in advanced patient care practice. This healthcare setting course will allow the student, working a long side a licensed health care professional, to become proficient with the skills covered to this point in the Respiratory Care Program. The student will be required to maintain physician contact and skills check offs of all therapeutic procedure covered in RES 152, Clinical Applications II; RES 154, Clinical Applications II; RES 249, Clinical Applications; and RES 253, Advanced Clinical Studies I. The student will finalize all clinical responsibilities involved with the Respiratory Care Technology program and prepare for entry into the professional healthcare environment.

## SOC—Sociology

**SOC 101 Introduction to Sociology** 3-0-3

This course emphasizes the fundamental concepts and principles of sociology, including culture, socialization, interaction, social groups and stratification, effects of population growth, and technology in society and social institutions.

**SOC 102 Marriage and The Family** 3-0-3

This course introduces the institutions of marriage and the family from a sociological perspective. Significant forms and structures of family groups are studied in relation to current trends and social change.

**SOC 205 Social Problems** 3-0-3**Prerequisites:** SOC 101

This course is a survey of current social problems in America, stressing the importance of social change and conflicts as they influence perceptions, definitions, etiology, and possible solutions.

**SOC 210 Juvenile Delinquency** 3-0-3**Prerequisites:** SOC 101

This course presents the nature, extent, and causes of juvenile delinquency behavior, including strategies used in the prevention, intervention, and control of deviant behavior.

**SOC 220 Sociology of the Family** 3-0-3

This course includes an application of theory and research related to family behaviors, roles, and values with emphasis on understanding family problems.

## SPA—Spanish

**SPA 101 Elementary Spanish I** 4-0-4

This university parallel transfer course is a study of the four basic language skills: listening, speaking, reading, and writing, including an introduction to the Spanish culture.

**SPA 102 Elementary Spanish II** 4-0-4**Prerequisites:** SPA 101

This university parallel transfer course continues development of the basic language skills and the study of the Spanish culture.

**SPA 107 Hispanic Culture & Communicati** 3-0-3

This course is a study of Hispanic culture and intercultural communication.

**SPA 201 Intermediate Spanish I** 3-0-3**Prerequisites:** SPA 102

This course is a review of Spanish grammar with attention given to more complex grammatical structures and reading difficult prose.

**SPA 202 Intermediate Spanish II** 3-0-3**Prerequisites:** SPA 201

This course continues a review of Spanish grammar with attention given to more complex grammatical structures and reading more difficult prose.

## SPC—Speech

**SPC 205 Public Speaking** 3-0-3

This course is an introduction to principles of public speaking with application of speaking skills.

**SPC 210 Oral Interpretation of Literat** 3-0-3**Prerequisites:** ENG 101

This course presents the principles and practices in oral interpretation of literary works.

## SPT—Sports Tourism

**SPT 101 Sports Tourism** 3-0-3

This course introduces the development and organizational structure of the sports tourism industry. Emphasis is placed on the various aspects of game operations and sports tourism and inter-relationships between tourists, residents, businesses, and governments.

**SPT 102 Customer Serv in Sports Tour** 3-0-3

This course focuses on the fundamentals of effective, interpersonal communication, and awareness of the diverse needs of sports tourism audiences.

**SPT 103 Sports Event Planning & Mkt** 3-0-3

This course emphasizes strategic planning and marketing of sports tourism destinations, with emphases on development and positioning. Topics include community relations, environmental considerations, resource requirements, plus social and cultural considerations.

**SPT 105 Sports Tourism Facil & Oper 3-0-3**

This course provides an overview of managing indoor and outdoor facilities used for sports, conventions, and entertainment events. Topics may include conducting feasibility studies, market research, facility design and layout, event bidding, quality assurance, risk management, and event staffing.

**SPT 107 Leadership in Sports Tourism 3-0-3**

This course explores all aspects of the sports tourism industry including public and employee relations, community relations, and governmental regulations. Emphasis will be placed on case studies and decision-making activities with application of concepts required in leadership and in developing leadership philosophy.

**SPT 108 The Business of Sports Tourism 3-0-3**

This course will prepare students to utilize sports tourism knowledge of both participatory sports tourism and event-based sports tourism to determine for each the economic impact, appropriate marketing, and risk management processes.

**SPT 270 SCWE in Sports Tourism I 0-12-3**

**Prerequisites:** SPT 101 and SPT 102

This course includes the application of skills within an approved work site related to sports tourism.

**SPT 272 SCWE in Sports Tourism II 0-12-3**

**Prerequisites:** SPT 101 and SPT 102

This course includes the application of skills within an approved work site related to sports tourism.

**SPT 273 SCWE in Sports Tourism III 0-12-3**

**Prerequisites:** SPT 101 and SPT 102

This course includes the application of skills with an approved work site related to sports tourism.

## SUR – Surgical Technology

**SUR 101 Intro to Surgical Technology 3-6-5**

**Prerequisites:** BIO 210 and BIO 211 and BIO 225

**Corequisites:** SUR 103, AHS 102, AHS 126

This course includes a study of the surgical environment, team concepts, aseptic technique, hospital organization, basic instrumentation and supplies, sterilization, principles of infection control, and wound healing.

**SUR 102 Applied Surgical Technology 4-3-5**

**Prerequisites:** AHS 102 and AHS 126 and SUR 101 and SUR 103

**Corequisites:** SUR 104, SUR 111

This course covers the principles and application of aseptic technique, the perioperative role, and medical/legal aspects. Patient safety, medical legal aspects of the operating room, speciality equipment and pharmacology are included.

**SUR 103 Surgical Procedures I 3-3-4**

**Prerequisites:** BIO 225

**Corequisites:** AHS 102, AHS 126, SUR 101

This course is a study of a system to system approach to surgical procedures and relates regional anatomy, pathology, speciality equipment, and team responsibility. Patient safety, medical/legal aspects, and drugs used in surgery are emphasized.

**SUR 104 Surgical Procedures II 4-0-4**

**Prerequisites:** AHS 102 and AHS 126 and SUR 101 and SUR 103

**Corequisites:** SUR 102, SUR 111

This course is a study of the various specialties of surgical procedures.

**SUR 111 Basic Surgical Practicum 1-18-7**

**Prerequisites:** AHS 102 and AHS 126 and SUR 101 and SUR 103

**Corequisites:** SUR 102, SUR 104

This course includes the application of theory under supervision in the perioperative role in various clinical affiliations.

**SUR 113 Advanced Surgical Practicum 0-18-6**

**Prerequisites:** SUR 102 and SUR 104 and SUR 111

**Corequisites:** SUR 120

This course includes a supervised progression of surgical team responsibilities and duties of the perioperative role in various clinical affiliations.

**SUR 120 Surgical Seminar 2-0-2**

**Prerequisites:** SUR 102 and SUR 104 and SUR 111

**Corequisites:** SUR 113

This course includes the comprehensive correlation of theory and practice in the perioperative role.

## THE – Theatre

**THE 101 Introduction to Theatre 3-0-3**

This university parallel transfer course includes the appreciation and analysis of theatrical literature, history, and production.

## TUF – Turf Management

**TUF 171 Intro to Turf Management 3-0-3**

This course is designed to introduce principles of turfgrass management and golf course operations to non-Golf Course Management majors. Topics include turfgrass selection, mowing, fertility, irrigation, pest management, and cultural practices. The history and function of golf related organizations are also discussed.

**TUF 172 Turf Management I 2-3-3**

This course is a Golf Course Management introductory course. The student is exposed to the history of golf and the management of its playing areas through awareness and sound application of selected cultural practices, presented as the means to produce and maintain a quality golf course for player use. They include mowing, fertilization and irrigation. Identification of grasses normally managed is included.

**TUF 174 Turfgrass Pests I 2-3-3**

This course is a study of turf insects and diseases with emphasis placed on identification and control. Weed identification is also included.

**TUF 175 Turfgrass Pests II 2-3-3**

**Prerequisites:** TUF 174

This course provides an in-depth analysis of turfgrass pests with emphasis on scientific resources.

**TUF 190 SCWE in Turf Grass Management 0-20-5**

**Prerequisites:** TUF 172

This course provides for practical work experience and integration of turf grass skills at an approved turf grass facility or golf course.

**TUF 201 SCWE in Golf Course Management 0-32-8**

**Prerequisites:** TUF 172

This course provides practical work experience at an approved golf course. Record keeping, experience in supervision and objective reporting of the golf course problems, corrections, and cost analysis are included.

**TUF 203 SCWE in Sports Turf Management 0-32-8**

**Prerequisites:** TUF 172

This course provides practical work experience at an approved sports turf facility. All aspects of the business will be covered while working under the supervision of an industry professional. Progress will be monitored by faculty and students are required to file reports on a regular basis.

**TUF 204 Sports Turf Seminar 1-3-2**

This course is designed to give students an overview of the sports turf profession. Guest speakers from the industry will discuss topics pertinent to today's highly specialized athletic field managers. Career development and certification will be emphasized.

**TUF 215 Turf Business Practices 3-0-3**

**Prerequisites:** TUF 175 and TUF 252

This course is a study of business practices and personnel mgmt. Needed to operate a turf enterprise. Topics include budget management, business and economics, communication skills, interpersonal relations, government requirements, and problem solving.

**TUF 220 Special Topics in Turf Mgmt 3-0-3**

**Prerequisites:** TUF 172

This course is a study of special topics in the area of turf management.

**TUF 252 Turf Management II 2-3-3**

**Prerequisites:** TUF 172

This course emphasizes the development of management programs for golf courses. Topics include plant growth regulators, overseeding, fertilizer programs, and environmental issues. As a course requirement, the student will be required to participate in the Carolinas Golf Course Superintendents Association Conference and Show, and will be responsible for conference expenses.

**TUF 272 Turf Irrigation and Drainage 4-3-5**

This course is a study of the principles and practices of irrigation design, installation, and maintenance as it applies to golf courses. Practical application is included.

**TUF 274 Turf Records and Budgets 2-0-2**

**Prerequisites:** TUF 171

This course includes all aspects of golf course management and warranties record keeping. Purchasing materials and the preparation of a projected budget for an 18-hole course are emphasized.

**TUF 275 Performance Turf Design & Cons 2-3-3**

**Prerequisites:** TUF 172

This course is a study of the concepts needed to design, construct and renovate various golf and sports turf playing surfaces. Topics include: USGA green construction, proper survey and layout of athletic fields, drainage methods, construction timelines and budgeting.

## WLD – Welding

**WLD 103 Print Reading I 1-0-1**

This is a basic course which includes the fundamentals of print reading, the meaning of lines, views, dimensions, notes, specifications, and structural shapes. Welding symbols and assembly drawings as used in fabrication work are also covered.

**WLD 106 Gas and Arc Welding 2-6-4**

This course covers the basic principles and practices of oxyacetylene welding, cutting, and electric arc welding. Emphasis is placed on practice in fundamental position welding and safety procedures.

**WLD 110 Welding Safety and Health 1-0-1**

This course is an introduction to safety and health hazards associated with welding and related processes.

**WLD 111 Arc Welding I** 2-6-4

This course covers the safety, equipment, and skills used in the shielded metal arc welding process. Fillet welds are made to visual criteria in several positions.

**WLD 113 Arc Welding II** 2-6-4

**Prerequisites:** WLD 111

This course is a study of arc welding of ferrous and/or non-ferrous metals.

**WLD 116 Welding** 1-3-2

This course is designed to acquaint students with common welding and techniques/equipment used currently in trades and industry. Students are expected to develop basic skills in general welding.

**WLD 132 Inert Gas Welding Ferrous** 2-6-4

**Prerequisites:** WLD 111

This course covers set up and adjustment of equipment and fundamental techniques for welding ferrous metals.

**WLD 134 Inert Gas Welding Non-Ferrous** 1-6-3

**Prerequisites:** WLD 111

This course covers fundamental techniques for welding non-ferrous metals.

**WLD 140 Weld Testing** 1-0-1

**Prerequisites:** WLD 111

This is an introductory course in destructive and non-destructive testing of welded joints.

**WLD 154 Pipe Fitting and Welding** 2-6-4

**Prerequisites:** WLD 111

This is a basic course in fitting and welding pipe joints, either ferrous or non-ferrous, using standard processes.

**WLD 201 Welding Metallurgy** 2-0-2

This course covers the weldability of metals, weld failure, and the affects of heat on chemical, physical, and mechanical properties.

**WLD 228 Inert Gas Welding Pipe I** 2-6-4

**Prerequisites:** WLD 132 and WLD 154

**Corequisites:** WLD 229

This course covers the techniques used in gas tungsten arc welding of groove welds on ferrous pipe.

**WLD 229 Inert Gas Welding Pipe II** 1-3-2

**Corequisites:** WLD 228

This course covers the techniques used in gas tungsten arc welding of groove welds on alloyed steel and non-ferrous pipe.