ALL COURSE DESCRIPTIONS

ACCT 20003 PRINCIPLES OF ACCOUNTING I

ACTS Equivalent Course Number is ACCT2003

3 CR. (3 LEC.)

Prerequisite: None.

Principles of Accounting I covers basic accounting procedures for both service and merchandising businesses; special journals and ledgers; adjusting, closing, and reversing entries; income measurement; financial statements; and internal control for sole proprietorships. **(General Education Credit)**

ACCT 20103 PRINCIPLES OF ACCOUNTING II

ACTS Equivalent Course Number is ACCT2013

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in ACCT 20003 Principles of Accounting I.

This course is a continuation of the study of principles of financial accounting and an introduction to the concepts of managerial accounting and their application. The accounting processes applied to partnerships, corporations, manufacturing costs, income tax, managerial reports, cash flow, and statement analysis are covered. **(General Education Credit)**

ACCT 21043 PAYROLL ACCOUNTING

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in either ACCT 20003 Principles of Accounting I or BINS 10103 Bookkeeping.

This course introduces students to the major tasks of payroll accounting and examines employment practices; federal, state, and local governmental laws and regulations; internal controls; and various payroll accounting forms and records.

ACCT 22043 COMPUTERIZED ACCOUNTING

3 CR. (3 LEC.)

Prerequisite: None.

Computerized Accounting covers basic accounting principles. Students will also utilize an integrated accounting software package to apply accounting principles and prepare financial reports. Topics covered include general ledger, accounts receivable, accounts payable, inventory, depreciation, financial statement analysis, payroll, and system setup.

AINT 11003 AI FOUNDATIONS

3 CR. (3 LEC.)

Prerequisite: Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252 or a grade of “C” or higher in UNIV 02103 Reading; AND ACT Math score of 17, Classic ACCUPLACER Elementary Algebra score of 48, ACCUPLACER NG QAS score of 230.

This course introduces key principles and practical applications of Artificial Intelligence. Students will examine central AI challenges and review real-world implementations, while exploring historical milestones and philosophical considerations that shed light on the nature of intelligent behavior. Additionally, the course investigates the diverse types of agents and provides an overview of the societal impact of AI applications.

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ALHE 10005 CERTIFIED MEDICATION ASSISTANT

5 CR. (3 LEC., 6 LAB)

Prerequisite: GED® or high school diploma; ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading; ACT English score of 19, ACCUPLACER NG Writing score of 260, or a Grade of “C”or higher in UNIV 03003 Basic Composition; AND hold an unencumbered Arkansas CNA license for at least one year, be currently employed by an Arkansas nursing home.

This course combines classroom instruction with clinical experiences. Students will be prepared to perform the delegated function of medication administration and related tasks under the supervision of a licensed nurse. Upon successful completion of this course with a grade of “C” or higher, students may take the state board approved certification examination.

Offered in the fall and spring semesters.

ALHE 10204 NURSING ASSISTANT

4 CR. (3 LEC., 3 LAB)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a Grade of “C”or higher in UNIV 03003 Basic Composition.

This course combines classroom instruction with clinical experiences. Students will be prepared to provide competent, skilled nursing care in a compassionate manner to residents of long-term care, hospice, and hospital facilities. Upon successful completion of this course with a grade of “C” or higher, students may take the state competency exam. With successful passage, students will be eligible to become certified nursing assistants.

Offered in the fall and spring semesters.

ALHE 10224 INTRODUCTION TO NURSING

4 CR. (4 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a Grade of “C”or higher in UNIV 03003 Basic Composition.

This course integrates classroom instruction with hands-on skills lab experiences to provide a comprehensive introduction to the nursing profession. Students explore the history and evolution of nursing; roles and responsibilities of nurses; legal and ethical considerations; professional organizations; and an overview of the health care system. It reviews nursing math basics, medical terminology, anatomy & physiology, and student success skills. Emphasis is placed on the development of foundational nursing competencies, including basic clinical skills, patient safety, and successful completion of skills lab competency checks. In addition, the course focuses on essential professional skills for effective patient care, such as therapeutic communication, critical thinking, time management, empathy, teamwork, and crisis management. Academic and interpersonal communication, as well as strategies for managing stress and maintaining professional effectiveness, are also addressed.

AMST 10031 INDUSTRIAL SAFETY

1 CR. (1 LEC.)

Prerequisite: None.

This course provides students with basic safety training and protocols for general industry. Students are trained specifically in basic personal protective equipment (PPE), bloodborne pathogens, fall precautions, confined spaces, safety data sheets (SDS’s), dangers of hydrogen sulfide (H2S) and uses of self-contained breathing apparatuses (SCBA’s), and electrical safety, which including arc flash safety. Students will also be trained in basic first aid, automated external defibrillators (AED) and CPR. Upon successful completion of this training, students MEDIC First AID/CPR Certification card through the American Health & Safety Institute.

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AMST 11031 UNDERSTANDING OSHA REGULATIONS BASIC

1 CR. (1 LEC.)

Prerequisite: None.

The purpose of this course is to enable students to understand the purpose and role of the Occupational Safety and Health Administration (OSHA) and how the agency affects employers and workers. Students will become familiar with basic OSHA standards that apply to general industry and how to locate specific OSHA standards. (NOTE: This course cannot be taken if a student has already successfully completed TECH 1103 Introduction to Hazard Recognition and Safety Management.)

AMST 11203 RIGGING AND LOAD HANDLING

3 CR. (2 LEC., 3 LAB)

Prerequisite: ACT Reading score of 19 or grade of “C” or higher in UNIV 02103 Reading.

This course will provide the skills necessary to evaluate loads, select the appropriate hitch and hardware, and then rig all categories of loads. Students will be taught to perform daily inspections, assess rigging safety, properly communicate with other riggers and hoist operators during lifts, and ensure overall safety during material handling/lifting processes. Those attending this training will learn operating principles, operational safety, load control methods, inspection procedures, communications, and critical load handling techniques.

AMST 12004 FUNDAMENTALS OF ELECTRICITY

4 CR. (3 LEC., 3 LAB)

Prerequisite: ACT Reading score of 17 or ACCUPLACER NG Reading score of 248; OR ACT Reading score of 15-16, ACCUPLACER NG Reading score of <248 and “C” or better, or concurrently enrolled in ENGL 10083 Applied Technical Writing.

This course is designed to acquaint the student with the theory and practice of using electricity as it applies to industrial technology. The topics covered include atomic theory; electrostatic charges; basic concepts of electric circuits; Ohm’s Law; Kirchoff’s Law; series parallel, and hybrid circuits; component symbols; measuring instruments and transformer theory; magnetism; motors; generators; relays; and all magnetically operated devices.

AMST 12104 INDUSTRIAL MECHANICS

4 CR. (3 LEC., 3 LAB)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading.

This course introduces the principles and components of industrial mechanics. Topic will include: workplace safety, tools, fasteners, print reading, precision measurement, lubrication, bearings, belt and mechanical drives, vibration and alignment.

AMST 13053 SCHEMATICS

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 17, ACCUPLACER NG Reading score of 248; OR ACT Reading score of 15-16, ACCUPLACER NG Reading score of <248 and “C” or better, or concurrently enrolled in ENGL 10083 Applied Technical Writing.

The student will learn to read, draw, and interpret wiring diagrams and place the circuitry in operative arrangements with electrical and electronic symbols. System diagrams will be developed by the student for a wide variety of heating and cooling loads. Also included is a study of the distribution mediums such as duct design and sizing.

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AMST 20033 HYDRAULICS AND PNEUMATICS

3 CR. (2 LEC., 3 LAB)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading.

This course provides an introduction to hydraulics and pneumatics. Basic terminology, functions, and application of hydraulics and pneumatics will be studied.

AMST 21133 MOTORS AND SYSTEM CONTROLS

3 CR. (2 LEC., 3 LAB)

Prerequisite: Grade of “C” or higher in AMST 12004 Fundamentals of Electricity.

This course is a study of the fundamentals of motors and motor controls. This course provides the students with theory of sensors, transducers, and speed/position control of motors used in industry. The subject matter includes single-phase motors, three-phase motors, and an introduction to programmable motor controllers.

AMST 22003 TECHNICAL CAREER DEVELOPMENT

3 CR. (3 LEC.)

Prerequisite: Have completed at least 30 hours of course work toward technical degree.

In this course students will be introduced to career specific professional development. Topics covered will be appropriate appearance, interpersonal skills, workplace communications, career specific resume writing, goal setting, managing stress and time in the workplace, taking a proactive approach, interviewing, and handling conflict in the workplace.

AMST 22004 AUTOMATED SYSTEMS AND ROBOTICS

4 CR. (3 LEC., 3 LAB)

Prerequisite: Grade of “C” or higher in or concurrently enrolled in AMST 21133 Motor and Systems Controls.

This course lays the foundation for the understanding of robotics and automated systems used in industry today. In this course the student will get an introduction and understanding of different methods of automation through installation and programming. Students will work with Computer Numeric Code (CNC), G-code, Variable Frequency Drives (VFDs), Modules, full bridge rectifiers, capacitor banks, photosensors, proximity switches, and amplifiers. The topics covered will include ABB and Fanuc robotics instructions and setup including tool point center, load, work object, and welding.

AMST 23003 INTRODUCTION TO PROGRAMMABLE LOGIC CONTROLLERS

3 CR. (2 LEC., 3 LAB)

Prerequisite: Grade of “C” or higher in AMST 21133 Motors and Systems Controls.

This outlines the foundation for understanding basic programmable logic controller (PLC) operations used in industry. Topics covered in the course include input/output module interface, surge protection, AC/DC power supply, ladder logic identification, controller installation interfaced with equipment use. Also students will focus on understanding the importance of using PLCs as an effective troubleshooting tool in industry situations.

AMST 24003 PREVENTATIVE MAINTENANCE AND TROUBLESHOOTING

3 CR. (2 LEC., 3 LAB)

Prerequisite: Grade of “C” or higher in AMST 21133 Motors and Systems Controls.

This course is designed to give the student an introduction in the 3 Ps of Maintenance: Predictive, Preventative, and Proactive. The course will also give insight into lean manufacturing and Six Sigma as it applies to modern day manufacturing. The course will also go over troubleshooting processes used in various industries today. Students will be asked to troubleshoot electrical and mechanical issues on training equipment that arise in real world situations. This course is designed to improve teamwork and critical thinking skills.

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AMST 29003 INDUSTRIAL MECHANIC INTERNSHIP

3 CR. (9 LAB)

Prerequisite: Student must have successfully completed a minimum of 30 semester hours towards an Associate of Applied Science degree in Industrial Mechanics and Maintenance Technology with a cumulative grade point average of 2.5 or higher. Student must complete an internship application which will require a current student identification number, phone number, email address, copy of current driver license, and resume. This information must be submitted to the internship instructor on or before the prescribed deadline. Student may be required to interview with the prospective employer, complete a drug screen and a background check.

Students who elect to enroll in this course are placed by advisors in a business or industry that will provide on-the-job training as an extension of the classroom. This internship course is designed to give students the experience of a job in their field of study. An internship cannot be completed at a student's current place of employment. Completion of prerequisites does not guarantee student internship placement. The number of available internship positions and specific requirements may vary each semester depending on employer needs. Internship positions will be filled at the discretion of the internship instructor and will be based on information obtained and provided by internship applicants. This may include placement based on GPA rankings and student interests.

Offered on demand.

ANTH 10103 INTRODUCTION TO ANTHROPOLOGY

ACTS Equivalent Course Number is ANTH1013

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of "C" or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of "C" or higher in UNIV 03003 Basic Composition.

An exploration of human diversity and the four sub-fields of anthropology: archaeology, cultural anthropology, linguistic anthropology, and physical anthropology. **(General Education Credit)**

Offered in the fall and spring semesters.

ARHS 10003 ART APPRECIATION

ACTS Equivalent Course Number is ARTA1003

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of "C" or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of "C" or higher in UNIV 03003 Basic Composition.

This course is an introductory survey of the visual arts. Course offers exploration of purposes and processes in the visual arts, including evaluation of selected works, the role of art in various cultures, and the history of art. **(General Education Credit)**

Offered on demand.

ARHS 20003 ART HISTORY I

ACTS Equivalent Course Number is ARTA2003

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of "C" or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of "C" or higher in UNIV 03003 Basic Composition. Offered on demand.

This course offers examination of painting, sculpture, architecture, and media from prehistoric to Renaissance periods. **(General Education Credit)**

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Offered on demand.

ARHS 21003 ART HISTORY II

ACTS Equivalent Course Number is ARTA2103

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition.

This course offers examination of painting, sculpture, and media from the Renaissance to present. **(General Education Credit)**

ASTE 10103 LIGHT DUTY AUTOMOTIVE MAINTENANCE

3 CR. (2 LEC., 3 LAB)

Prerequisite: ACT Reading score of 17, ACCUPLACER NG Reading score of 248 OR ACT Reading score of 15-16, ACCUPLACER NG Reading score of <248 and “C” or better or concurrently enrolled in ENGL 10083 Applied Technical Writing.

Light Duty Automotive Maintenance is designed to train students to properly complete basic vehicle maintenance and repair. Students will learn about changing engine oil and filters, servicing transmissions, flushing and refilling coolants, checking fluid types and levels, inspecting belts, hoses, tires, air filters, and wiper blades, checking battery charge and connections for corrosion. Students in this course can earn S/P2 Automotive Service Safety certification, S/P2 Automotive Service Pollution certification and an EPA 609 MVAC certification.

ASTE 10203 AUTOMOTIVE ELECTRICAL SYSTEMS

3 CR. (2 LEC., 3 LAB)

Prerequisite: ACT Reading score of 17, ACCUPLACER NG Reading score of 248 OR ACT Reading score of 15-16, ACCUPLACER NG Reading score of <248 and “C” or better or concurrently enrolled in ENGL 10083 Applied Technical Writing.

This course covers diagnosis and repair of the following: general electrical systems, batteries, starters, lighting systems, gauges and warning devices, horns and wipers, charging systems, power seats, door locks, reading of wiring diagrams and other miscellaneous accessories. Lab is designed to allow students sufficient hands-on application to perform practical work in applying theory learned in lecture classes. Students will be assigned vehicles to repair in a manner designed to provide adequate practical application in all areas of automotive repair.

ASTE 12034 ENGINE REPAIR

4 CR. (3 LEC., 3 LAB)

Prerequisite: Grade of “C” or higher in ASTE 10203 Automotive Electrical Systems.

Engine Repair covers the general theory of engine diagnostics, cylinder head, valve train, and engine block repair, lubrication and cooling systems, ignition systems, fuel and exhaust systems. This course will provide the student hands-on application of the theory learned in lecture. Students will be assigned vehicles to repair to provide adequate practical application in all areas of automotive engine repair. This course prepares student for the ASE A1 Engine Repair student certification exam.

ASTE 13002 POWER TRAINS I

2 CR. (1 LEC., 3 LAB)

Prerequisite: Grade of “C” or higher in ASTE 18003 Automotive Electronics.

The student will study clutch diagnosis and repair, transmission and transaxle diagnosis, drive shaft and universal joint repair, ring and pinion gears, differential case assembly, and four-wheel drive component repair. Lab is designed to allow students sufficient hands-on application to perform practical work in applying theory learned in lecture classes. Students will be assigned vehicles to repair in a manner designed to provide adequate practical application in all areas of automotive repair.

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ASTE 14001 AUTOMOTIVE TRIM

1 CR. (1 LEC.)

Prerequisite: None.

This course will focus on teaching students how to diagnose and repair automotive issues pertaining to wind noise, water leaks, window regulators, trim, bolts and fasteners, latches and locks. Proper tool usage will be addressed in detail.

ASTE 16004 BRAKES

4 CR. (2 LEC., 6 LAB)

Prerequisite: Grade of “C” or higher in ASTE 18003 Automotive Electronics.

The student will study hydraulic system diagnosis and repair including master cylinder, fluid lines and hoses, valves, drum brakes, disk brakes, anti-lock brake systems, and power assist units. Lab is designed to allow students sufficient hands-on application to perform practical work in applying theory learned in lecture classes. Students will be assigned vehicles to repair in a manner designed to provide adequate practical application in all areas of automotive repair.

ASTE 17002 POWER TRAINS II

2 CR. (1 LEC., 3 LAB)

Prerequisite: Grade of “C” or higher in ASTE 13002 Power Trains I.

The student will study ring and pinion gears, differential case assembly, and four-wheel drive component repair. Lab is designed to allow students sufficient hands-on application to perform practical work in applying theory learned in lecture classes. Students will be assigned vehicles to repair in a manner designed to provide adequate practical application in all areas of automotive repair.

ASTE 18003 AUTOMOTIVE ELECTRONICS

3 CR. (2 LEC., 3 LAB)

Prerequisite: Grade of “C” or higher in ASTE 10203 Automotive Electrical Systems.

The student will learn the theory of electronic systems in anti-theft, SRS (supplement restraint system), module to module info, advanced module, network diagnosis and network communication. Lab is designed to allow students sufficient hands-on application to perform practical work in applying theory learned in a lecture classes. Students will be assigned vehicles to repair in a manner designed to provide adequate practical application in all areas of automotive repair.

ASTE 18034 CHASSIS AND STEERING

4 CR. (2 LEC., 6 LAB)

Prerequisite: Grade of “C” or higher or concurrently enrolled in ASTE 10203 Automotive Electrical Systems.

Chassis and steering includes the study of steering columns and manual steering gears, power-assisted steering units, linkage, suspension system diagnosis (front and rear), front and rear wheel alignment and adjustment, and wheel and tire diagnosis. Lab is designed to allow students hands-on application to perform practical work. Students will be assigned vehicles to repair to provide practical application in all areas of automotive repair.

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ASTE 20004 CLIMATE CONTROL

4 CR. (2 LEC., 6 LAB)

Prerequisite: Grade of “C” or higher in ASTE 18003 Automotive Electronics.

The student will study air conditioning and heating systems, engine cooling, electrical controls, vacuum controls, refrigerant recovery, recycling and handling. The student will learn the principles of diagnosis and repair of these systems. Lab is designed to allow students sufficient hands-on application to perform practical work in applying theory learned in lecture classes. Students will be assigned vehicles to repair to provide adequate practical application in all areas of automotive repair.

ASTE 21044 ENGINE PERFORMANCE

4 CR. (2 LEC., 6 LAB)

Prerequisite: Grade of “C” or higher in ASTE 18003 Automotive Electronics.

Engine performance includes the diagnosis and repair of ignition systems; emissions control systems; and fuel, air induction and exhaust systems as well as engine-related service such as computer diagnosis and repair including scan tool operation. Lab is designed to allow students sufficient hands-on application to perform practical work in applying theory learned in lecture classes. Students will be assigned vehicles to repair in a manner designed to provide adequate practical application in all areas of automotive repair.

ASTE 21055 AUTOMATIC TRANSMISSIONS

5 CR. (2 LEC., 9 LAB)

Prerequisite: Grade of “C” or higher in ASTE 18003 Automotive Electronics.

Students will study general transmission/transaxle diagnosis, maintenance and adjustment, in- and off-vehicle repair, removal, disassembly and assembly, oil pumps and converters, gear trains, bushings and electronic transmissions. Lab is designed to allow students sufficient hands-on application to perform practical work in applying theory learned in lecture classes. Students will be assigned vehicles to repair in a manner designed to provide adequate practical application in all areas of automotive repair

ASTE 29003 AUTOMOTIVE SERVICE INTERNSHIP

3 CR. (9 LAB)

Prerequisite: Student must have successfully completed a minimum of 30 semester hours towards an Associate of Applied Science degree in Automotive Service Technology with a cumulative grade point average of 2.5 or higher. Student must complete an internship application which will require a current student identification number, phone number, email address, copy of current driver license, and resume. This information must be submitted to the internship instructor on or before the prescribed deadline. Student may be required to interview with the prospective employer, complete a drug screen and a background check.

Students who elect to enroll in this course are placed by advisors in a business or industry that will provide on-the-job training as an extension of the classroom. This internship course is designed to give students the experience of a job in their field of study. An internship cannot be completed at a student’s current place of employment. Completion of prerequisites does not guarantee student internship placement. The number of available internship positions and specific requirements may vary each semester depending on employer needs. Internship positions will be filled at the discretion of the internship instructor and will be based on information obtained and provided by internship applicants. This may include placement based on GPA rankings and student interests.

BINS 10003 BUSINESS ENGLISH

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition.

Business English reviews and strengthens the basics in punctuation and English grammar as needed in current business usage. Additional practice is given in dictionary usage and proofreading techniques.

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BINS 10103 BOOKKEEPING

3 CR. (3 LEC.)

Prerequisite: None. Not open to anyone who has a grade of “C” or higher in ACCT 20003 Principles of Accounting I.

Bookkeeping introduces fundamental accounting concepts and procedures for sole proprietorships. The accounting cycle includes journalizing and posting transactions and preparing trial balances, worksheets, and financial statements. Emphasis is given to cash, banking and payroll procedures, sales, purchases, accounts receivable, and accounts payable.

BINS 10301 ELECTRONIC CALCULATORS

1 CR. (1 LEC.)

Prerequisite: None.

This course teaches the functions of the electronic calculator. Students learn to use the functions to solve business problems. Emphasis is placed on developing speed and accuracy by the touch operation.

BINS 10401 MICROSOFT OUTLOOK

1 CR. (1 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading.

This course provides instructions in using Outlook to send and receive electronic mail; manage the storage of incoming and outgoing mail; organize schedules and events; and maintain contact lists, to-do lists, and notes. In addition, students will learn to integrate Outlook with other Microsoft Office applications.

BINS 10501 FILE MANAGEMENT

1 CR. (1 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading; AND students should type 25 words per minute or be concurrently enrolled in UNIV 05001 Beginning Keyboarding.

This course is designed for all users of Windows-based applications (such as Word, Excel, PowerPoint, etc.). Instruction includes creating folders, copying and moving files and folders, finding files, setting up and organizing file systems on the computer, customizing the desktop, and setting other Windows options.

Offered in the fall and spring semesters.

BINS 11001 KEYBOARDING SKILLS II

1 CR. (1 LEC.)

Prerequisite: Grade of “C” or higher in UNIV 05001 Beginning Keyboarding or ability to key 25 net words per minute on a three-minute timed typing test.

Keyboarding Skills II enhances personal-use skills or job-related skills using the touch-keying method on the standard keyboard. The student will improve his or her ability to use the alphabetic and numeric keys and build speed and accuracy skills.

BINS 12203 ELECTRONIC SPREADSHEET

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in CPSI 12103 Computer Applications or CPSI 10003 Introduction to Computers; AND MATH 13343 Applied Business Math or MATH 10103 Applied Technical Math.

Electronic Spreadsheet provides detailed instruction in formatting techniques; formulas and various date, financial, logical, lookup, and text functions; data validation; charts; pivot tables; and multiple worksheet groups in Microsoft Excel. The students will have the opportunity to take the Microsoft Office Specialist (MOS) Excel certification exam.

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BINS 12303 DATABASE MANAGEMENT

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in either CPSI 12103 Computer Applications, CPSI 10003 Introduction to Computers, or ITEC 11003 Computer Hardware.

Skills covered include planning, creating, and modifying a relational database; searching for and retrieving information; sorting; indexing; creating tables, reports, forms, queries, and labels; and integration with other software packages.

BINS 12503 WORD PROCESSING I

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in CPSI 10003 Introduction to Computers AND a grade of “C” or higher in BUSI 11003 Document Formatting and Skill Building.

Word Processing I provides detailed instruction in character, paragraph, and page formatting and managing themes and styles in Microsoft Word to create complex business documents including letters; envelopes; labels; multipage reports with table of contents, references, and different odd and even headers and footers; and tables. Students will have the opportunity to take the Microsoft Office Specialist (MOS) Word Level 1 certification exam.

BINS 21103 HUMAN RELATIONS AND COMMUNICATIONS

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in BUSI 20103 Business Communications I AND a grade of “C” or higher or be concurrently enrolled in BINS 12503 Word Processing I.

Human Relations and Communication introduces basic theoretical concepts, including the process of communication; organizational communication; intercultural communication; electronic communication; writing and editing; gathering information; reports and decision-making process; reports and proposals; policy and procedure writing; using visual aids to communicate; oral presentations; nonverbal communication; legal and ethical aspects; human relations; customer focus; and readings in business communication.

BINS 22503 WORD PROCESSING II

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in BINS 12503 Word Processing I.

Word Processing II provides detailed instruction in the advanced features of Microsoft Word to create and format technical manuals, newsletters, brochures, forms, and templates; manage shared documents, and manage complex mail merges. The students will have the opportunity to take the Microsoft Office Specialist (MOS) Word Expert certification exam.

BINS 23003 PROOFREADING AND TRANSCRIPTION SKILLS

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in BINS 10003 Business English AND BUSI 11003 Document Formatting and Skill Building.

This course will build confidence and skills in proofreading and editing. Students will learn to read for meaning as they detect and correct errors in grammar, sentence structure, punctuation, and formatting. Students will learn to edit documents so that they are clear, concise, and complete. The course will also prepare students in the fundamental principles of operating transcription machines.

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BINS 23103 PROFESSIONAL DEVELOPMENT

3 CR. (3 LEC.)

Prerequisite: Final semester of enrollment and approval by the instructor.

Personal appearance; attitude; interpersonal skills; stress control; job interviews and resume writing; motivation, time management, business ethics; and professional etiquette, growth, and advancement are topics studied in this course. Students prepare typewritten summary reports and deliver oral presentations.

BINS 23203 BUSINESS PROCEDURES

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in CPSI 12103 Computer Applications or CPSI 10003 Introduction to Computers AND grade of “C” or higher or concurrently enrolled in BUSI 20103 Business Communications I.

Business Procedures emphasizes administrative practices and procedures used in a business office. Topics include filing and records management, using the office telephone, handling incoming and outgoing mail, organizing meetings and conferences, scheduling appointments and receiving visitors, and making travel plans.

BINS 23703 SUPERVISORY MANAGEMENT

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading.

Supervisory Management is designed to develop management decision-making skills through the study of organizational structure, management styles, and the functions of management (planning, organizing, leading, human resource management, and controlling). **(General Education Credit)**

BINS 29003 BUSINESS INTERNSHIP

3 CR. (9 LAB)

Prerequisite: Successfully complete a minimum of 45 semester hours toward a degree in Business and maintain a cumulative grade point average of 2.0 or higher. Students may be required to interview with the prospective employer and complete a drug screen and a background check.

Students who elect to enroll in this course are placed in a job-training position in business or industry where the intern site will provide on-the-job training as an extension of the classroom. The internship is designed to permit students the exposure and experience of an actual job in their field of study. The student and the employer arrange specific work times with a minimum of 150 clock hours on the job.

BIOL 01101 HUMAN ANATOMY & PHYSIOLOGY I EXTENDED LAB

ACTS Equivalent Course Number is BIOL2404

1 CR. (2 LAB)

Prerequisite: ACT Reading score of 18, ACCUPLACER NG Reading score of 248, or High School GPA of 2.8 AND concurrently enrolled in BIOL 24004 Human Anatomy and Physiology I.

This course is an extended format of the first half of a two-semester study of the structure and functions of the organ systems of the human body. The extended format allows for supplementary instruction time inside the classroom and is designed to prepare students for health-related programs. Lab required. **(General Education Credit)**

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BIOL 10104 FUNDAMENTALS OF BIOLOGY

ACTS Equivalent Course Number is BIOL1014

4 CR. (3 LEC., 2 LAB)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading.

This course offers a study of the principles of biology and provides the foundation for other advanced courses in the biological sciences. It includes an in-depth study of fundamental biological concepts including the scientific process, classification, structure and functions, cellular metabolism, evolution, and genetics. Course is appropriate for biology and health science majors, as well as general education. Lab required. **(General Education Credit)**

BIOL 101H4 HONORS FUNDAMENTALS OF BIOLOGY

ACTS Equivalent Course Number is BIOL1014

4 CR. (3 LEC., 2 LAB)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading. Approval of Dean of General Education required to enroll in this course.

This course offers a study of the principles of biology and provides the foundation for other advanced courses in the biological sciences. It includes an in-depth study of fundamental biological concepts including the scientific process, classification, structure and functions, cellular metabolism, evolution, and genetics. Course is appropriate for biology and health science majors, as well as general education. A minimum of four (4) service-learning hours are required for this course. Lab required. **(General Education Credit)**

BIOL 10304 GENERAL BOTANY

ACTS Equivalent Course Number is BIOL1034

4 CR. (3 LEC., 2 LAB)

Prerequisite: Grade of “C” or higher in BIOL 10104 Fundamentals of Biology.

This course is a scientific study of the principles of botany and provides the foundation for other advanced courses in the biological sciences. It includes an in-depth study of the properties; structure; and function, growth, and classifications of plants. Concepts of plant reproduction, photosynthesis, ecology, and genetics are included. Course is appropriate for biology majors. Lab required. **(General Education Credit)**

BIOL 10504 PRINCIPLES OF ZOOLOGY

ACTS Equivalent Course Number is BIOL1054

4 CR. (3 LEC., 2 LAB)

Prerequisite: Grade of “C” or higher in BIOL 10104 Fundamentals of Biology.

This course is an introduction to zoological principles relating to cells, organ systems, development, genetics, ecology, evolution, and animal phyla and is designed for biology majors but may also be taken for general education. Lab required. **(General Education Credit)**

BIOL 20004 MICROBIOLOGY

ACTS Equivalent Course Number is BIOL2004

4 CR. (3 LEC., 3 LAB)

Prerequisite: Grade of “C” or higher in either BIOL 10104 Fundamentals of Biology or BIOL 24004 Human Anatomy and Physiology I.

This is an introductory course in microbiology that includes microbiological concepts including the study of bacteria, viruses, fungi, and protozoa as they affect the human body. It is designed for majors in health professions programs. Lab required. **(General Education Credit)**

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BIOL 200H4 HONORS MICROBIOLOGY

ACTS Equivalent Course Number is BIOL2004

4 CR. (3 LEC., 3 LAB)

Prerequisite: Grade of “C” or higher in either BIOL 10104 Fundamentals of Biology or BIOL 24004 Human Anatomy and Physiology I. Approval of Dean of General Education required to enroll in this course.

This is an introductory course in microbiology that includes microbiological concepts including the study of bacteria, viruses, fungi, and protozoa as they affect the human body. It is designed for majors in health professions programs. Lab required. It differs from BIOL 20004 Microbiology in that it includes additional work in and out of the classroom including four hours of service-related time at a wastewater treatment facility, a research project, and assisting instructors with preparation of lab materials. **(General Education Credit)**

BIOL 24004 HUMAN ANATOMY & PHYSIOLOGY I

ACTS Equivalent Course Number is BIOL2404

4 CR. (3 LEC., 2 LAB)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading, or a High School GPA of 3.25.

This course is the first half of the structure and functions of the organ systems of the human body and how they work together to maintain homeostasis. It is designed for majors in health profession programs. Lab required. **(General Education Credit)**

BIOL 24104 HUMAN ANATOMY & PHYSIOLOGY II

ACTS Equivalent Course Number is BIOL2414

4 CR. (3 LEC., 2 LAB)

Prerequisite: Grade of “C” or higher in BIOL 24004 Human Anatomy and Physiology I.

This course is the second half of the structure and functions of the organ systems of the human body and how they work together to maintain homeostasis. Designed for majors in health profession programs. Lab required. **(General Education Credit)**

BLAW 20003 BUSINESS LAW

ACTS Equivalent Course Number is BLAW2003

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition.

Business Law is designed to familiarize the student with legal problems that arise in business. The main emphasis of the course will be on contract law and law as it relates to sales. Law relating to different forms of business ownership will also be discussed. **(General Education Credit)**

BUSI 10103 INTRODUCTION TO BUSINESS

ACTS Equivalent Course Number is BUSI1013

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading.

Introduction to Business is a basic course in the fundamentals of business. This course provides an understanding of the realistic problems and practices of business and offers a survey of several business areas. **(General Education Credit)**

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BUSI 11003 DOCUMENT FORMATTING AND SKILL BUILDING

ACTS Equivalent Course Number is BUSI1103

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher or concurrently enrolled in CPSI 12103 Computer Applications or CPSI 10003 Introduction to Computers.

Document Formatting and Skill Building uses a business word processing software package to provide instruction in the formatting of letters, memorandums, tables, and reports from unarranged and rough draft sources. The student will enhance personal-use skills or job-related skills using the touch-keying method on the standard keyboard. The student will improve his or her ability to use the alphabetic and numeric keys and build speed and accuracy skills.

BUSI 17004 SMALL BUSINESS ORGANIZATION AND MANAGEMENT

4 CR. (4 LEC.)

Prerequisite: ACT Reading score of 17, ACCUPLACER NG Reading score of 248 or a grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 17, ACCUPLACER NG Writing score of 250, or a grade of “C” or higher in UNIV 03003 Basic Composition.

This course applies business policies and procedures to the small business environment and is designed for students contemplating management or ownership of a small business. Topics include the nature of the entrepreneur, business structures and ownership options, planning, funding, marketing, government regulations, and other relevant business functions.

BUSI 20103 BUSINESS COMMUNICATIONS I

ACTS Equivalent Course Number is BUSI2013

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in CPSI 12103 Computer Applications or CPSI 10003 Introduction to Computers; AND grade of “C” or higher in BINS 10003 Business English or ENGL 10103 Composition I.

This course emphasizes effective use of written, oral, and electronic communication. Students create documents and solve problems typical of business and industry. Students prepare resumes and letters of application and research companies in preparation of the job search. **(General Education Credit)**

BUSI 24003 ENTREPRENEURSHIP

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 17, ACCUPLACER NG Reading score of 248 or a grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 17, ACCUPLACER NG Writing score of 250, or a grade of “C” or higher in UNIV 03003 Basic Composition.

Students will examine the procedures and principles involved in starting and operating a small business. Emphasis will be placed on developing a business plan that includes information on financing, managing, promoting, and operating a successful small business.

CHEM 10004 FUNDAMENTALS OF CHEMISTRY

ACTS Equivalent Course Number is CHEM1004

4 CR. (3 LEC., 2 LAB)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading; AND ACT Math Score of 17, ACCUPLACER NG QAS score of 230, or grade of “C” or higher in MATH 09103 Foundations of Algebra.

This is a survey course introducing chemistry as it applies to the real world and includes basic topics of scientific method, measurement, states of matter, atomic structure, periodic table, chemical properties, and chemical reactions. Appropriate for general education, but not appropriate for science majors. Lab required. **(General Education Credit)**

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CHEM 12104 INTRODUCTORY CHEMISTRY FOR HEALTH-RELATED PROFESSIONS

ACTS Equivalent Course Number is ChEM1214

4 CR. (3 LEC., 3 LAB)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading; AND ACT Math score of 20, ACCUPLACER NG QAS of 254, or grade of “C” or higher in MATH 09103 Foundations of Algebra.

The first half of a two-course series that is specifically designed for students interested in the health-related professions. This is an algebra-based chemistry course and is not appropriate for chemistry or other science majors or pre-professional (e.g., Pre-Medicine, etc.) students. Course content provides a foundation for work in health-related areas and includes nomenclature, atomic and molecular structure, bonding, and reactions. Lab required. **(General Education Credit)**

Offered on demand.

CHEM 12204 INTRODUCTION TO ORGANIC AND BIOCHEMISTRY

ACTS Equivalent Course Number is CHEM1224

4 CR. (3 LEC., 3 LAB)

Prerequisite: Grade of “C” or higher in CHEM 12104 Introductory Chemistry for Health-Related Professions.

The second half of a two-course series that is specifically designed for students interested in the health-related professions. This course provides an overview of organic and biochemistry. Lab required. **(General Education Credit)**

CHEM 14101 GENERAL COLLEGE CHEMISTRY I LABORATORY

ACTS Equivalent Course Number is CHEM1414

1 CR. (3 LAB)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, a grade of “C” or higher in UNIV 02103 Reading; AND a grade of “C” or higher in MATH 11003 College Algebra or its equivalent. Corequisite: Be concurrently enrolled in CHEM 14103 General College Chemistry I.

This course is designed for students currently enrolled in General College Chemistry I. The laboratory experiments conducted will supplement the topics presented in the lecture component. Laboratory experiments will allow students to examine, through hands-on learning, some of the fundamental laws and theories dealing with the structure and interactions of matter and the use of the principles in understanding the properties of matter, chemical bonding, chemical reactions, the physical states of matter, changes of state, and solutions. **(General Education Credit)**

CHEM 14103 GENERAL COLLEGE CHEMISTRY I

ACTS Equivalent Course Number is CHEM1414

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, a grade of “C” or higher in UNIV 02103 Reading; AND a grade of “C” or higher in MATH 11003 College Algebra or its equivalent. Corequisite: Be concurrently enrolled in CHEM 14101 General College Chemistry I Lab.

This algebra-based chemistry course is applicable for chemistry and other science majors and pre-professional students. This is the first course in a two-course sequence. Course content provides a foundation for work in advanced chemistry and related sciences. Course includes in-depth study of nomenclature, atomic and molecular structure, stoichiometry, bonding, and reactions. Lab required. **(General Education Credit)**

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Offered in the spring semester.

CHEM 14201 GENERAL COLLEGE CHEMISTRY II LABORATORY

ACTS Equivalent Course Number is CHEM1424

1 CR. (3 LAB)

Prerequisite: Grade of “C” or higher in CHEM 14103 General College Chemistry I and CHEM 14101 General College Chemistry I Lab. Corequisite: Concurrently enrolled in CHEM 14203 General College Chemistry II.

This course is designed for students currently enrolled in General College Chemistry II. The laboratory experiments conducted will supplement the topics presented in the lecture component. Laboratory experiments will allow students to examine, through hands-on learning, some of the fundamental laws and theories dealing with the solutions, kinetics, acid-base equilibrium, qualitative analysis, chemical reactivity, and reaction thermodynamics. **(General Education Credit)**

Offered in the spring semester.

CHEM 14203 GENERAL COLLEGE CHEMISTRY II

ACTS Equivalent Course Number is CHEM1424

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in CHEM 14103 General College Chemistry I and CHEM 14101 General College Chemistry I Lab. Corequisite: Concurrently enrolled in CHEM 14201 General College Chemistry II Lab.

This course is a continuation of CHEM 14103. This course is designed for chemistry and other science majors and pre-professional students. It includes a more in-depth study of chemical reactions. Lab required. **(General Education Credit)**

Offered on demand.

CHEM 22051 ORGANIC CHEMISTRY LAB

1 CR. (3 LAB)

Prerequisite: Grade of “C” or higher in CHEM 14103 General College Chemistry I and CHEM 14101 General College Chemistry I Lab. Corequisite: Concurrently enrolled in CHEM 22153 Organic Chemistry.

Organic Chemistry Lab will put into practice many common organic synthesis techniques. Infrared spectroscopy, mass spectroscopy and nuclear magnetic resonance spectroscopy will be used to confirm synthesis of desired products. **(General Education Credit)**

Offered on demand.

CHEM 22153 ORGANIC CHEMISTRY

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in CHEM 14103 General College Chemistry I and CHEM 14101 General College Chemistry I Lab. Corequisite: Concurrently enrolled in CHEM 22051 Organic Chemistry Lab.

Organic Chemistry will offer an extensive look at the special nature of carbon chemistry. Emphasis will be placed on structure, functional groups and nomenclature as well as some important classes of organic reactions. Classification methods including infrared spectroscopy, mass spectroscopy and nuclear magnetic resonance spectroscopy will be addressed. Biochemistry topics including proteins, carbohydrates, nucleic acids and lipids will also be included. **(General Education Credit)**

Offered in the fall and spring semesters.

COMM 23203 INTERPERSONAL COMMUNICATION

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition.

The primary aim of this course is to introduce students to the basic concepts and theories necessary for the study of interpersonal communications and to provide the student with the opportunity to gain and practice new interpersonal skills in an open and accepting environment. **(General Education Credit)**

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CPSI 10003 INTRODUCTION TO COMPUTERS

ACTS Equivalent Course Number is CPSI1003

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading.

Introduction to Computers introduces students to computer hardware, software applications, and procedures applied to academic and career success. It provides an introduction to Windows, Internet, electronic mail, word processing, spreadsheets, database management, and presentation software. **(General Education Credit)**

CPSI 12103 COMPUTER APPLICATIONS

ACTS Equivalent Course Number is CPSI1003

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading; AND students should type 25 words per minute or be concurrently enrolled in UNIV 05001 Beginning Keyboarding.

Computer Applications introduces students to computer hardware, software, and procedures as applied to business. It provides an introduction to Windows, the Internet, electronic mail, word processing, database management, spreadsheets, and presentation software. **(General Education Credit)**

CPSI 19003 COMPUTER ETHICS AND PROFESSIONALISM

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19 or ACCUPLACER NG Reading score of 252.

This course is a survey of ethics and its applications to the computing and information technology professions. Students will study professional codes of ethics and the responsibilities that they place on technology professionals, as well as investigate the background and implications of ethical aspects of the real-world professional environment.

CPSI 23403 INTRODUCTION TO PYTHON

3 CR. (3 LEC.)

Prerequisite: A grade of “C” or higher in MATH 09103 Foundations of Algebra, MATH 10103 Applied Technical Math, or MATH 11003 College Algebra.

This course is an introduction to object-oriented design and data structures using the Python programming language. Major topics covered in the course include the design of collection classes with polymorphism and inheritance, multiple implementations of collection interfaces, and the analysis of the space/time tradeoffs of different collection implementations (specifically array-based implementations and link-based implementations). Collections covered include sets, lists, stacks, queues, trees, dictionaries, and graphs.

CPSI 24003 UI/UX FUNDAMENTALS

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252 or a grade of “C” or higher in UNIV 02103 Reading; AND ACT Math score of 17, Classic ACCUPLACER Elementary Algebra score of 48, ACCUPLACER NG QAS score of 230.

This course is designed to provide a comprehensive introduction to user interface and user experience design. Through hands-on projects and practical exercises, students will learn key concepts such as user research, wire-framing, prototyping using front-end development frameworks, visual design principles, and usability testing. Industry standard design tools will be utilized throughout the course, allowing students to gain proficiency in modern UI/UX software. By the end of the course, students will be able to create user-centered designs that are both functional and visually appealing.

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CPSI 24303 JAVA PROGRAMING

3 CR. (3 LEC.)

Prerequisite: A grade of “C” or higher in MATH 11003 College Algebra or MATH 10103 Applied Technical Math.

This course gives students an understanding of the Java programming environment including: variable types, logical operators, logic control structures, controls, interface design, graphics, arrays and data access. This class will be using Java 2 to solve real-world problems by building various solutions with multimedia, animation, network access and more.

Offered in the fall and spring semesters.

CRJU 10203 INTRODUCTION TO CRIMINAL JUSTICE

ACTS Equivalent Course Number is CRJU1023

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition.

Course offers an overview of the history, philosophy and development of the criminal justice system, emphasizing an understanding of law enforcement, the courts and corrections and their respective roles in accomplishing the missions of the American Criminal Justice System. **(General Education Credit)**

CRTE 10033 ELECTRICAL AND MECHANICAL SYSTEMS

3 CR. (2 LEC., 3 LAB)

Prerequisite: ACT Reading score of 15, ACCUPLACER NG Reading score of 230, or a grade of “C” or higher in UNIV 02103 Reading.

This course covers the diagnosis and repair of electrical and mechanical systems including: general electrical systems, batteries, starters, lighting systems, gauges and warning devices, horns and wipers, charging systems, power seats, door locks, reading of wiring diagrams and basic chassis and steering repairs. Lab is designed to allow students sufficient hands-on application to perform practical work in applying theory learned in lecture classes.

CRTE 10103 AUTO BODY FUNDAMENTALS

3 CR. (1 LEC., 6 LAB)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252 or a grade of “C” or higher in ACAD 0213 Reading..

This course includes theory and application of fundamental auto body identification and repair methods. Emphasis is given to the proper use of hand tool, mig and oxyacetylene welding, and rigid and flexible plastic repair.

CRTE 10203 COLOR THEORY

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading.

Student will study the dimensions of color. The course focuses on how to deal with the different types of color effects, prior to any actual mixing of colors to match and blend paint. Light sources are explained and demonstrated in this course.

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CRTE 10303 REFINISHING PROCEDURES AND APPLICATIONS

3 CR. (2 LEC, 3 LAB)

Prerequisite: Grade of “C” or higher in CRTE 10103 Auto Body Fundamentals.

This course includes theory and application of proper refinishing procedures. Emphasis is given to top coat applications, polishing and compounding, color adjustment, live and simulated work analysis, refinishing procedures and problem-solving. Students will also learn the theory of spray guns and the equipment associated with painting.

CRTE 11003 MATERIALS AND PROCESSES

3 CR. (2 LEC., 3 LAB)

Prerequisite: ACT Reading score of 15, ACCUPLACER NG Reading score of 230, or a grade of “C” or higher in UNIV 02103 Reading

This course includes theory and application of basic auto body materials and processes. Emphasis is given to metal and fiberglass repair techniques.

CRTE 12103 NON-STRUCTURAL ANALYSIS AND REPAIR

3 CR. (1 LEC., 6 LAB)

Prerequisite: Grade of “C” or higher in CRTE 10103 Auto Body Fundamentals

This course includes theory and application of the analysis of body construction. Emphasis is given to diagnosis and repair of minor collision-related items. The class includes metal finishing, body filler application, and application of protective coating and sealer as well as straightening, alignment, removal and replacement of body panels, interior and exterior trim.

CRTE 12203 STRUCTURAL ANALYSIS AND REPAIR

3 CR. (1 LEC., 6 LAB)

Prerequisite: Grade of “C” or higher in CRTE 10103 Auto Body Fundamentals.

This course includes the study of unibody and frame construction. Theory portion emphasizes proper measuring and straightening techniques, stress analysis, use of equipment and replacement of structural components; lab includes replacement of structural components and use of specialized equipment and tools.

CSEC 11033 INTRODUCTION TO CYBERSECURITY

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading; AND ACT Math score of 17 or ACCUPLACER NG QAS score of 230.

This course introduces the cybersecurity discipline and the crosscutting concepts related to cybersecurity thought, which includes design principles, cryptography basics, organizational risk management, and privacy concepts.

CSEC 11203 CYBERSECURITY I

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, Classic ACCUPLACER Reading score of 78, ACCUPLACER NG Reading score of 252 or a grade of “C” or higher in UNIV 02103 Reading; AND ACT Math score of 17, Classic ACCUPLACER Elementary Algebra score of 48, ACCUPLACER NG QAS score of 230.

This course covers the holistic concept of a cyber system of people, processes, technology and data organized as a unit, understanding how to develop security requirements and selection of controls to meet requirements. This course also addresses the security issues of connecting components and using them within larger systems.

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CSEC 12203 CYBERSECURITY II

3 CR. (3 LEC.)

Prerequisite: A grade of “C” or higher in CSEC 11003 Cybersecurity I.

This course builds upon the foundational knowledge provided in CSEC 11203 Cybersecurity I by exploring advanced cybersecurity strategies and concepts. This course provides an in-depth introduction to network and cybersecurity, focusing on protecting data and systems from various threats. Students will explore transmission attacks, network security mechanisms like firewalls and intrusion detection systems, and the secure software development lifecycle. The course also covers cloud computing fundamentals, cybersecurity risk management, and the role of security policies, alongside key national and international laws on privacy and computer intrusion.

CSEC 20203 DIGITAL FORENSICS

3 CR. (3 LEC.)

Prerequisite: A grade of “C” or higher in ITEC 23003 Network Security.

This course introduces the concepts and techniques of digital forensics. The topics will cover the legal, technical, and procedural methods in forensic investigations. We will perform hands on analysis using common industry tools to understand the concepts of finding and investigating criminal activity in a computing environment.

CSEC 21003 SYSTEM SECURITY

3 CR. (3 LEC.)

Prerequisite: A grade of “C” or higher or concurrently enrolled in CSEC 11033 Introduction to Cybersecurity.

This course covers the holistic concept of a cyber system of people, processes, technology and data organized as a unit, understanding how to develop security requirements and selection of controls to meet requirements. This course also addresses the security issues of connecting components and using them within larger systems.

CSEC 21223 APPLIED CRYPTOGRAPHY

3 CR. (3 LEC.)

Prerequisite: A grade of “C” or higher in ITEC 23003 Network Security.

This course introduces a survey and study of major cryptographic techniques, algorithms, and implementations, emphasizing applications to data security and network security. Provides an overview of cryptosystems and cryptanalysis.

CSEC 21403 INCIDENT RESPONSE

3 CR. (3 LEC.)

Prerequisite: A grade of “C” or higher in ITEC 23003 Network Security.

Cybersecurity incidents are inevitable for organizations. This course prepares students for the lifecycle of planning for, responding to and recovering from cybersecurity incidents. Topics include (i) the technical mechanisms for log review, identification, containment and eradication and (ii) the organizational management of cybersecurity incident response, business continuity and disaster recovery functions.

CSEC 22033 ACCESS CONTROL

3 CR. (3 LEC.)

Prerequisite: A grade of “C” or higher in ITEC 23003 Network Security.

Covers logical and physical access control policy and mechanisms for cyber systems. Also covers the role of authorization, identification, authentication, and monitoring in access control.

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CSEC 23003 INDUSTRIAL SYSTEM SECURITY

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252 or a grade of “C” or higher in UNIV 02103 Reading; AND ACT Math score of 17, Classic ACCUPLACER Elementary Algebra score of 48, ACCUPLACER NG QAS score of 230.

Covers logical and physical access control policy and mechanisms for cyber systems. Also covers the role of authorization, identification, authentication, and monitoring in access control.

CTTE 10043 CONSTRUCTION FUNDAMENTALS

3 CR. (2 LEC., 3 LAB)

Prerequisite: ACT Reading score of 15, ACCUPLACER NG Reading score of 230, or a grade of “C” or higher in UNIV 02103 Reading.

This course is designed to acquaint the student with the fundamental skills needed to work in the construction industry. Topics covered in the course includes: Basic Safety, Introduction to Blue Prints, Basic Rigging, Basic Communication Skills, Basic Employability Skills, Orientation to the Trades, Building Materials, Fasteners, and Adhesives, Site Layout One - Distance Measurements and Leveling, Introduction to Concrete, Reinforcing Materials, and Forms, Foundations and Slab-on Grade, Reinforcing Concrete and Handling and Placing Concrete.

CTTE 11053 CARPENTRY

3 CR. (2 LEC., 3 LAB)

Prerequisite: ACT Reading score of 15, ACCUPLACER NG Reading score of 230, or a grade of “C” or higher in UNIV 02103 Reading.

This course is designed to acquaint the student with the fundamental carpentry skills needed to work in the construction industry. Topics covered in the course includes: Orientation to the Trade; Building Materials, Fasteners, and Adhesives; Hand and Power Tools; Introduction to Construction Drawings, Specifications, and Layout; Floor Systems; Wall Systems; Ceiling Joist and Roof framing; Basic Stair Layout; Introduction to Building Envelope Systems.

CTTE 12053 DRYWALL AND MASONRY

3 CR. (2 LEC., 3 LAB)

Prerequisite: ACT Reading score of 15, ACCUPLACER NG Reading score of 230, or a grade of “C” or higher in UNIV 02103 Reading.

This course is designed to acquaint the student with the fundamental skills needed to work with drywall and masonry in the construction industry. Topics covered in the course includes: Orientation to the Trade, Construction Materials and Methods, Thermal and Moisture Protection, Drywall Installation, and Drywall Finishing, Introduction to Concrete, Reinforcing Materials, and Forms, Handling and Placing Concrete, Introduction to Masonry, Masonry Units and Installation Techniques.

CTTE 16052 HIGHWAY CONSTRUCTION

2 CR. (1 LEC., 3 LAB)

Prerequisite: Grade of “C” or higher in CTTE 10043 Construction Fundamentals.

This course is designed to acquaint the student with the fundamental knowledge and basic skills needed to work in the highway construction industry. Topics covered in the course includes: Introduction to the Trade, Trucks, Heavy Equipment, Cranes, Below-Grade Construction, Earthmoving, Plant Operations, Paving and Structures.

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CTTE 18053 ADVANCED CARPENTRY

3 CR. (2 LEC., 3 LAB)

Prerequisite: Grade of “C” or higher in CTTE 10043 Construction Fundamentals.

This course is designed to acquaint the student with the more advanced carpentry skills needed to work in the construction industry. Topics covered in the course includes: Commercial Drawings, Roofing Applications, Thermal and Moisture Protection, Exterior Finishing, Cold-Formed Steel Framing, Doors and Door Hardware, Suspended Ceilings, Window, Door, Floor, and Ceiling Trim, and Cabinet Installation.

CTTE 19053 CONSTRUCTION TECHNOLOGY INTERNSHIP

3 CR. (9 LAB)

Prerequisite: Students must be in their final semester of enrollment towards a Technical Certificate in Construction Technology with a cumulative grade point average of 2.0 or better. Students must complete an internship application which will require a current student identification number, phone number, email address, copy of current driver license, and resume. This information must be submitted to the internship instructor prior to being enrolled in the course. Students will be required to meet employment requirements set by internship sponsor employer, which may include: minimum age requirement, interview, drug screen and background check, etc.

Students who elect to enroll in this course are placed by advisors in a business or industry that will provide on-the-job training as an extension of the classroom. This internship course is designed to give students the experience of a job in their field of study. An internship cannot be completed at a student’s current place of employment. Completion of prerequisites does not guarantee student internship placement. The number of available internship positions and specific requirements may vary each semester depending on employer needs. The student and the employer arrange specific work times with a minimum of 150 clock hours on the job.

DFTG 10103 BEGINNING DRAFTING

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading.

The course provides a foundation in drafting fundamentals and teaches essential manual (traditional) drafting skills. This course includes detailed instruction on geometric constructions, orthographic projection, and dimensioning practices. The course covers techniques and procedures used in creating multi-view drawings, section views, auxiliary views, pictorial views, and pattern developments. The course will also introduce the following software: AutoCAD, Inventor, and Revit.

DFTG 11003 AUTOCAD

3 CR. (2 LEC., 3 LAB)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading.

This course is an introduction to computer technology and terminology that relates to the drafting field. Emphasis will be placed on the fundamental concepts involved in computer-aided drafting. Instructions will include basic computer drafting operations such as creating layered drawings, making changes to drawings, and maintaining drawing files. Plotting and printing drawings will be included as well as creating PDFs.

DFTG 11103 INVENTOR

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading.

This course is an introduction to computerized parametric (3-D) drafting. Instruction will explore three-dimensional drafting operations to include sketching, constraints, extrusions, creating features, assemblies, and presentation drawings.

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DFTG 11204 REVIT

4 CR. (3 LEC., 3 LAB)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading.

This course is an introduction to computerized parametric residential (3-D) drafting using the Revit software platform. Instruction will explore three-dimensional drafting operations to include sketching, walls, doors, windows, components, slabs, roof, sheet sets, and presentation drawings.

DFTG 16004 CIVIL DRAFTING

4 CR. (3 LEC., 3 LAB)

Prerequisite or corequisite: Grade of “C” or higher in DFTG 10103 Beginning Drafting. Grade of “C” or higher or concurrently enrolled in DFTG 11003 AutoCAD. Grade of “C” or higher in CPSI 10003 Introduction to Computers.

This course introduces civil drafting techniques using Autodesk Civil 3D. Students will utilize Civil 3D in the development of alternatives through its model-based design tools as well as learn techniques enabling them to organize project data, work with points, create and analyze surfaces, model road corridors, create parcel layouts, perform grading and volume calculations tasks, and lay out pipe networks. Students will use various software to set up sheets sets for printings and set up PDFs for electronic transfers and submittals.

DFTG 20003 STRUCTURAL STEEL DRAFTING

3 CR. (2 LEC., 3 LAB)

Prerequisite: Grades of “C” or higher in DFTG 10103 Beginning Drafting, DFTG 11003 AutoCAD, and CPSI 10003 Introduction to Computers.

This course is an introduction to structural steel drafting/detailing utilizing solid modeling and two-dimensional CAD software.

DFTG 22204 MECHANICAL DRAFTING

4 CR. (3 LEC., 3 LAB)

Prerequisite: Grades of “C” or higher in DFTG 10103 Beginning Drafting and CPSI 10003 Introduction to Computers; AND grade of “C” or higher or concurrently enrolled in DFTG 11103 Inventor.

This course covers dimensioning, detail and assembly drawing, and drawings of special tools and products. Students will use various software to set up sheets sets for printings and set up PDFs for electronic transfers and submittals.

DFTG 23203 COMMERCIAL DRAFTING

3 CR. (2 LEC., 3 LAB)

Prerequisite: Grades of “C” or higher in CPSI 10003 Introduction to Computers; AND grade of “C” or higher or concurrently enrolled in DFTG 10103 Beginning Drafting and DFTG 11204 Revit.

This course uses a project-oriented approach to navigate the student through the process of producing construction documents as it relates to commercial building construction. The student will develop a set of construction documents necessary for bidding and construction using preliminary architectural sketches provided. The projects include commercial spaces and surrounding areas (landscape and parking areas).

DFTG 23304 RESIDENTIAL DRAFTING

4 CR. (3 LEC., 3 LAB)

Prerequisite: Grades of “C” or higher in CPSI 10003 Introduction to Computers; AND grade of “C” or higher or concurrently enrolled in DFTG 10103 Beginning Drafting and DFTG 11204 Revit.

This course emphasizes site location, planning, determining clients’ needs, designing a one-story residential plan, residential drawing techniques, dimensioning floor plans, exterior elevations and electrical plans.

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DFTG 23404 SPATIAL PLANNING

4 CR. (3 LEC., 3 LAB)

Prerequisite: Grades of “C” or higher in DFTG 10103 Beginning Drafting and CPSI 10003 Introduction to Computers; AND grade of “C” or higher or concurrently enrolled in DFTG 11204 Revit.

This course is an introduction to the profession of spatial design. Students will be introduced to the design process, basic design vocabulary, application of design fundamentals, various presentation skills and techniques. Professional practices and responsibilities, trade resources, and the value of design organizations will be discussed.

DFTG 29003 DRAFTING INTERNSHIP I

3 CR. (9 LAB)

Prerequisite: Successfully complete a minimum of 30 semester hours toward a degree in Drafting and receive consent of the instructor. Students may be required to interview with the prospective employer and complete a drug screen and a background check.

This internship course is designed to give students the experience of a job in their field of study. Over the course of the semester, the student will work a minimum of 150 hours for the internship partner.

DFTG 29103 PROJECT DRAFTING

3 CR. (2 LEC., 3 LAB)

Prerequisite: Grade of “C” or higher in DFTG 11204 Revit; AND grades of “C” or higher or concurrently enrolled in DFTG 23203 Commercial Drafting, DFTG 23304 Residential Drafting and DFTG 23404 Spatial Planning.

This course will introduce the student to the practical applications of project management. The student will develop, plan, manage and present a final project. The student will be required to develop a complete set of professional-quality working drawings in conjunction with the application of project management. A portfolio of the student’s completed work will be developed and presented with the final project.

DFTG 29203 DRAFTING INTERNSHIP II

3 CR. (9 LAB)

Prerequisite: Successfully complete a minimum of 45 semester hours toward a degree in Drafting and receive consent of the instructor. Students may be required to interview with the prospective employer and complete a drug screen and a background check.

This internship course is designed to give students the experience of a job in their field of study. Over the course of the semester, the student will work a minimum of 150 hours for the internship partner.

DIEL 10002 CAREER READINESS

2 CR. (2 LEC.)

Prerequisite: None.

The purpose of this course is to equip students with the basic soft skills needed to achieve educational and career goals. Topics covered include integrity, basic communication skills, teamwork, managing conflict, and critical thinking. Students will research potential employers/internship sponsor companies, write a resume and cover letter, learn best practices for interviewing, and learn about the internship process required for admissions into the Diesel Technology program.

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DIEL 10033 PREVENTATIVE MAINTENANCE AND INSPECTION

3 CR. (2 LEC., 3 LAB)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252 or a grade of “C” or higher in UNIV 02103 Reading.

This course is an introduction to the skills and knowledge required by all service technicians including: precision measurement; environmental and safety regulation compliance; safety and personal protection equipment. Student will learn about complete preventative servicing of vehicles including changing of engine oil and filter; coolant flush and refill; checking of all fluid levels; inspecting belts, hoses, tires, air filters, and wiper blades; checking battery connections for corrosion, using the correct type fluids for the vehicle; and proper uses of tools and fasteners.

DIEL 12003 GAS AND DIESEL ENGINES SYSTEMS

3 CR. (2 LEC., 3 LAB)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading.

This course is an introduction to engine terminology, operating principles and maintenance. Engine systems are examined along with diagnostic, repair and maintenance procedures. The student will study the theory, operation, troubleshooting and repair of engine intake, exhaust and fuel systems used in equipment. The function and operation of various types of fuel systems, fuel system maintenance and basic troubleshooting is covered. The application of repair procedures for engines is emphasized. Safety, special tool use, and the use of service publications are stressed.

DIEL 13003 DIESEL ELECTRONIC SYSTEMS

3 CR. (2 LEC., 3 LAB)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading.

This course covers diagnostic testing as specified by manufacturer software, literature, troubleshooting charts and wiring diagrams to complete required service, repair, or replacement procedures on diesel electronic systems. Students are required to identify, locate, service, test and repair connectors, sensors, actuators, switches and control modules.

DIEL 21003 DIESEL DRIVE TRAINS, SUSPENSION, AND STEERING

3 CR. (2 LEC., 3 LAB)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading.

This course covers diagnosis and repairs of the following: Drive axle and drive shaft noises, vibrations, adjustments and failures. Clutch component failure and diagnosis, manual transmission noise and vibration repairs. The student will also learn about tire, wheel and hub, steering system, wheel alignment, and suspension systems.

DIEL 23003 DIESEL BRAKES

3 CR. (2 LEC., 3 LAB)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading.

The student will learn about air brake systems. Course content will include brake system construction, operation, maintenance, and troubleshooting of anti-lock braking systems (ABS) and automatic traction control systems (ATC).

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DIEL 25003 HEATING, VENTILATION, AND AIR CONDITIONING SYSTEMS

3 CR. (2 LEC., 3 LAB)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading.

The student will learn about the operation, maintenance, service, and diagnostics related to heavy-duty truck heating, venting, and air conditioning systems (HVAC). This course is a study of the theory, application, and repair of mobile air conditioning and refrigeration systems. Emphasis is on preventive maintenance, design, failure analysis, troubleshooting, proper repair and refrigerant recovery recycle methods. This course prepares students for the EPA 609 certification exam.

DIEL 29003 DIESEL INTERNSHIP I

3 CR. (9 LAB)

Prerequisite: Student must have successfully completed a certificate of proficiency in Diesel Technology and concurrently enrolled in or completed DIES1303 Diesel Electronic Systems with a “C” better, have a minimum 2.0 cumulative GPA, and a valid driver’s license.

This course is designed to provide on-the-job training as an extension of the classroom. A cooperative agreement between industry and education allows students to utilize and refine skills learned during the educational process. All work is performed in accordance with industry standards and guidelines, supervised by industry and school representatives. Workplace learning of a minimum of 150 documented hours (10 hours per week for 15-week term) is required for completion of this course.

DIEL 29036 DIESEL INTERNSHIP II

6 CR. (18 LAB)

Prerequisite: Student must have successfully completed a Technical Certificate in Diesel Technology and concurrently enrolled in or completed DIES2103 Diesel Drive Trains, Suspension, & Steering; DIES2303 Diesel Brakes; and DIES2503 Heating, Ventilation, & A/C Systems with a “C” better, have a minimum 2.0 cumulative GPA, and a valid driver’s license.

This course is designed to provide on-the-job training as an extension of the classroom. A cooperative agreement between industry and education allows students to utilize and refine skills learned during the educational process. All work is performed in accordance with industry standards and guidelines, supervised by industry and school representatives. Workplace learning of a minimum of 300 documented hours (20 hours per week for 15-week term) is required for completion of this course.

DIEL 29048 DIESEL INTERNSHIP III

8 CR. (24 LAB)

Prerequisite: Student must have successfully completed a Technical Certificate in Diesel Technology and concurrently enrolled in or completed DIES2103 Diesel Drive Trains, Suspension, & Steering; DIES2303 Diesel Brakes; and DIES2503 Heating, Ventilation, & A/C Systems with a “C” better, have a minimum 2.0 cumulative GPA, and a valid driver’s license.

This course is designed to provide on-the-job training as an extension of the classroom. A cooperative agreement between industry and education allows students to utilize and refine skills learned during the educational process. All work is performed in accordance with industry standards and guidelines, supervised by industry and school representatives. Workplace learning of a minimum of 400 documented hours (~27 hours per week for 15-week term) is required for completion of this course.

Offered in the fall and spring semesters.

ECED 10133 EARLY CHILDHOOD COMPETENCIES

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading.

This is an introductory course that covers the Child Development Associate (CDA) credential competencies that are necessary for meeting the needs of all children including those with unique individual developmental variations, to maximize physical, cognitive, social and emotional, and linguistic development.

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Offered in the fall and spring semesters.

ECED 10233 FOUNDATIONS OF EARLY CHILDHOOD EDUCATION

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition.

Offered in the fall semester.

ECED 12033 CHILD GUIDANCE

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading.

This course relates principles of child development to appropriate methods of guiding children’s behavior for children birth through preschool, including children with unique individual developmental variations. Techniques for managing groups of children in the various childcare settings are practiced. This course requires two hours of field experience. This course meets the competencies for the Arkansas Birth through Prekindergarten Teaching Credential by the Office of Early Childhood Education; however, candidates must earn a “C” or higher to receive the credential.

Offered in the fall and spring semesters.

ECED 14033 CHILD DEVELOPMENT

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition.

This course is the study of environmental and hereditary effects on the cognitive, affective, psychomotor, and sociolinguistic development of typically and atypically developing children from conception to middle childhood (conception through age 8) with diverse cultural backgrounds within and outside of the United States. The candidates will be introduced to methods used to observe and evaluate children’s development and recognize possible delays in development. Practical application of theory is provided through a variety of hands-on experiences and observations. This course includes 10 hours of field experience. Candidates earning a “C” or higher in this course will receive certificates of completion for Child Development: Birth to Three, Child Development: Three to Five, and Child Development: Five to Eight through the Arkansas Professional Development Registry. This course meets the competencies for the Arkansas Birth through Prekindergarten Teaching Credential by the Office of Early Childhood Education; however, candidates must earn a “C” or higher to receive the credential.

Offered in the spring semester.

ECED 20133 HEALTH, SAFETY, AND FACILITIES FOR YOUNG CHILDREN

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in ECED 10133 Early Childhood Competencies.

Basic fundamentals of health and safety for young children and appropriate childcare facilities will be explored. Topics covered will include safety management, illness, accidents, injuries, and menu planning to meet the needs of all children including those with unique individual developmental variations, to maximize physical, cognitive, social and emotional, and linguistic development. In addition, candidates will study local, state, and federal regulations for group care facilities, guidelines for conducting a needs assessment, site location, and playgrounds. Candidates earning a “C” or higher in this course will receive a certificate of completion for Health, Safety, and Nutrition through the Arkansas Professional Development Registry.

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Offered in the fall semester.

ECED 20233 MATH AND SCIENCE FOR YOUNG CHILDREN

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition.

Candidates will become familiar with a variety of ways to introduce children birth through preschool, including children with unique individual developmental variations to ideas and concepts related to math and science. Candidates will create activities; plan and practice developmentally appropriate experiences that would meet recognized standards (National Association for the Education and Young Children (NAEYC) and Council for Exceptional Children (CEC) for these areas. Candidates earning a “C” or higher in this course will receive a certificate of completion for PreK Math and Science through the Arkansas Professional Development Registry. This course meets the competencies for the Arkansas Birth through Prekindergarten Teaching Credential by the Office of Early Childhood Education; however, candidates must earn a “C” or higher to receive the credential.

Offered in the spring semester.

ECED 20333 LANGUAGE AND LITERACY FOR YOUNG CHILDREN

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading.

This course is designed to allow the early childhood educator to become aware of the acquisition of language and how to provide children birth through preschool, including children with unique individual developmental variations with language-rich environments by incorporating the four areas of language: speaking, listening, writing, and reading. Candidates will develop a resource file containing materials related to language and literacy that meet recognized standards (NAEYC, etc.). This course includes two hours of field experience. This course meets the competencies for the Arkansas Birth through Prekindergarten Teaching Credential by the Office of Early Childhood Education; however, candidates must earn a “C” or higher to receive the credential.

Offered in the fall semester.

ECED 20433 CURRICULUM AND ASSESSMENT FOR INFANTS AND TODDLERS

3 CR. (3 LEC.)

Prerequisite: Grades of “C” or higher in ECED 10233 Foundations of Early Childhood Education, ECED 14033 Child Development, ECED 20233 Math and Science for Young Children, and ECED 20333 Language and Literacy for Young Children.

This course is based on the foundation of research in child development and focuses on planning and implementing enriching environments with appropriate interactions and activities for young children (birth through 2) including those with unique individual developmental variations, to maximize physical, cognitive, social and emotional, and linguistic development. Competencies are based on Standards developed by the National Association for the Education of Young Children for quality early childhood settings. Also covered is information on the Quality Approval process and Accreditation for Early Childhood settings in Arkansas, now called Better Beginnings and The Arkansas Standards: Infant Toddler Standards: Arkansas Child Development Early Learning Standards (CDELS). This course meets the competencies for the Arkansas Birth to Five Early Childhood Teaching Credential by the Office of Early Childhood Education; however, candidates must earn a “C” or higher to receive the credential.

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Offered in the spring semester.

ECED 20533 CURRICULUM AND ASSESSMENT FOR YOUNG CHILDREN

3 CR. (3 LEC.)

Prerequisite: Grades of “C” or higher in ECED 10233 Foundations of Early Childhood Education, ECED 14033 Child Development, ECED 20233 Math and Science for Young Children, and ECED 20333 Language and Literacy for Young Children.

This course is based on the foundation of research in child development and focuses on planning and implementing enriching environments with appropriate interactions and activities for young children (3 through 5) including those with unique individual developmental variations, to maximize physical, cognitive, communication, creative, language/ literacy, and social/emotional growth and development. Competencies are based on standards developed by the National Association for the Education of Young Children for quality early childhood settings. Also covered is information on the Quality Approval process and Accreditation for Early Childhood settings in Arkansas, called Better Beginnings, and the Arkansas Child Development and Early Learning Standards (CDELS): This course meets the competencies for the Arkansas Birth through Prekindergarten Teaching Credential by the Office of Early Childhood Education; however, candidates must earn a “C” or higher to receive the credential.

Offered in the spring semester.

ECED 21033 PROFESSIONALISM AND ETHICS IN EARLY CHILDHOOD

3 CR. (3 LEC.)

Prerequisite: Grades of “C” or higher in ECED 21233 Supervised Lab, ECED 20233 Math and Science for Young Children, and ECED 20333 Language and Literacy for Young Children.

This course introduces candidates to current research in the field of Early Childhood education. Candidates will develop a knowledge base of the NAEYC Code of Conduct through analyzing case studies designed to demonstrate competencies compatible with current research and practice, development of a professional pathway to demonstrate competencies in the skills relating to the NAEYC Professional Preparation Standards and the Professional Standards and Competencies for Early Childhood Educators. Also covered is information on the Quality Approval process and Accreditation for Early Childhood settings in Arkansas, called Better Beginnings, and the Arkansas Child Development and Early Learning Standards: Birth through 60 months (CDELS). This course meets the competencies for the Arkansas Birth through Prekindergarten Teaching Credential by the Office of Early Childhood Education; however, candidates must earn a “C” or higher to receive the credential.

Offered on demand.

ECED 21233 SUPERVISED LAB

3 CR. (9 LAB)

Prerequisite: Grade “C” or higher in ECED 10133 Early Childhood Competencies.

Candidates will interact with all children in an inclusive supervised laboratory setting. Implementation of developmentally appropriate activities and assessment procedures will be achieved. Candidates must complete 90 contact hours in an approved facility for this course. Candidates are required to have malpractice insurance and completion of the following background checks: Arkansas Child Maltreatment Central Registry and Arkansas FBI Criminal background check. Candidates must have the ability to stand for prolonged periods of time and to lift up to 50 pounds.

Offered on demand.

ECED 21333 PRACTICUM FOR EARLY CHILDHOOD DEVELOPMENT

3 CR. (9 LAB)

Prerequisite: Grade of “C” or higher in ECED 21233 Supervised Lab.

Practicum is designed to provide candidates hands-on, practical experience in the early childcare field working with all children (birth through pre-kindergarten). Observation of the candidate’s work and evaluation of candidate’s skills are conducted by instructors following the NAEYC Professional Preparation Standards and the Professional Standards and Competencies for Early Childhood Educators. The instructor of the course will arrange facility placements. Candidates must demonstrate competency in all areas observed and must complete 90 contact hours in an approved facility for this course. An emphasis will be on the observation of physical, cognitive, language, social, and emotional development in connection with previous courses. Candidates must have the ability to stand for prolonged periods- of- time and to lift up to 50 pounds. This course meets the competencies for the Arkansas Birth through Prekindergarten Teaching Credential by the Office of Early Childhood Education; however, candidates must earn a “C” or higher to receive the credential.

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ECON 21003 MACROECONOMICS

ACTS Equivalent Course Number is ECON2103

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition.

This course covers theory and application of economics to behavior of the economy as a whole. **(General Education Credit)**

ECON 22003 MICROECONOMICS

ACTS Equivalent Course Number is ECON2203

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition.

This course covers theory and application of economic principles to the production, distribution, and exchange of goods and services. **(General Education Credit)**

Offered in the fall and spring semesters.

EDHP 11373 INTRODUCTION TO EDUCATION

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition.

This course is an overview of the education profession. Topics include philosophies of education, an overview of the history of education, public school organization, educator roles, school curriculum, teacher characteristics, contemporary issues, careers in education, legal and ethical concerns, and certification and admission processes. This course requires 13 hours of field experience. **(General Education Credit)**

Offered in the fall and spring semesters.

EDHP 13093 EDUCATIONAL TECHNOLOGY

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition.

This course is designed as a teacher education elective. It introduces the candidate to a variety of technological tools used by educators. Topics include the computer as a tool for the teacher for instruction and communication, electronic portfolio construction, and digital technology. Candidates will develop competencies in technology utilization. **(General Education Credit)**

Offered in the fall and spring semesters.

EDHP 22093 TEACHING LEARNERS WITH EXCEPTIONALITIES

3 CR. (3 LEC.)

Prerequisite: Grade of C or higher in EDHP 11373 Introduction to Education or ECED 10233 Foundations of Early Childhood Education.

This course introduces learners with exceptionalities. Emphasis is given to characteristics of students with exceptionalities, legal foundations for all learners, evidence based inclusive methods, and modifications and accommodations in educational settings. Future educators will become equipped with skills to be effective communicators and partners with families of all students. Effective collaboration between general education teachers and special education teachers will be addressed. This course requires 10 hours of field experience. **(General Education Credit)**

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Offered in the fall semester.

EDHP 22103 INTEGRATED CURRICULUM AND ASSESSMENT PLANNING

3 CR. (3 LEC.)

Prerequisite: Grade of C or higher in EDHP 22193 Development and Learning Theories. Co-requisite: MATH 20163 Math for Teachers I OR 2113 Math for Teachers II.

This course is for those seeking elementary education and special education teaching licensure. The focus of this course is effective curriculum planning aligned with TESS and state curriculum frameworks. Candidates will learn how to develop a clear purpose in curriculum planning to meet the abilities of all learners, how to respond to close the learning and doing gap, how to increase candidate achievement through interdisciplinary curriculum experiences, how to create valid and varied assessments, and how to utilize assessment data to plan future curriculum. Candidates will work individually and in professional learning communities to encourage efficacy. **(General Education Credit)**

Offered in the fall and spring semesters.

EDHP 22193 DEVELOPMENT AND LEARNING THEORIES

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition.

This introduces the student to the physical, cognitive, linguistic, social, moral and emotional development of individuals from infancy through adulthood. This course addresses six developmental stages: prenatal development, infancy and toddlerhood, early childhood, middle childhood, adolescence, and early adulthood and the physical, cognitive and emotional changes that occur during these periods. This course requires 10 hours of field experience. **(General Education Credit)**

EMSC 10008 EMERGENCY MEDICAL TECHNICIAN

8 CR. (7 LEC., 3 LAB)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading.

This course is an introduction to the study of emergency medical services and the basic principles and techniques of pre-hospital emergency care. Instruction includes a minimum of 120 contact hours of lecture and 48 hours of clinical practice; this includes 24 hours of clinicals in an emergency room setting and a minimum of six emergency calls with an ambulance service. The course is based on the National Standard Curriculum Guidelines as developed by the Department of Transportation. Successful completion of this course prepares the student to apply for the National Registry Emergency Medical Technician Examination.

ENGL 03001 COMPOSITION I LAB

1 CR. (2 LAB)

Prerequisite: Prerequisites: ACT Reading score of 18, ACCUPLACER NG Reading score of 248, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 17-18 or ACCUPLACER NG Writing score of 252-259.

This course reinforces the objectives covered in ENGL 10103 Composition I: principles and techniques of expository and persuasive composition, analysis of texts with introduction to research methods, and critical thinking.

ENGL 10083 APPLIED TECHNICAL WRITING

3 CR. (3 LEC.)

Prerequisite or corequisite: ACT Reading score of 15, ACCUPLACER NG Reading score of 230, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 15, ACCUPLACER NG Writing score of 245, or a grade of “C” or higher in UNIV 03003 Basic Composition.

This course includes active reading strategies and producing effective technical writings. Students will be required to produce and present a proposal and will use technology to find research and format documents.

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Offered in the fall and spring semesters.

ENGL 10103 COMPOSITION I

ACTS Equivalent Course Number is ENGL1013

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition or ENGL 10083 Applied Technical Writing.

This course covers principles and techniques of expository and persuasive composition, analysis of texts with introduction to research methods, and critical thinking. **(General Education Credit)**

Offered in the fall semester.

ENGL 101H3 HONORS COMPOSITION I

ACTS Equivalent Course Number is ENGL1013

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition, or ENGL 10083 Applied Technical Writing. Approval of Dean of General Education required to enroll in this course.

This course covers principles and techniques of expository and persuasive composition, analysis of texts with introduction to research methods, and critical thinking. Students have the opportunity to earn at least six service-learning hours in this course. **(General Education Credit)**

Offered in the fall and spring semesters.

ENGL 10203 COMPOSITION II

ACTS Equivalent Course Number is ENGL1023

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in ENGL 10103 Composition I.

This course is a further study of principles and techniques of expository and persuasive composition, analysis of texts, research methods, and critical thinking. **(General Education Credit)**

Offered in the spring semester.

ENGL 102H3 HONORS COMPOSITION II

ACTS Equivalent Course Number is ENGL1023

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in ENGL 10103 Composition I. Approval of Dean of General Education required to enroll in this course.

This course is a further study of principles and techniques of expository and persuasive composition, analysis of texts, research methods, and critical thinking. Students have the opportunity to earn at least one service-learning hour in this course. **(General Education Credit)**

Offered in the spring semester.

ENGL 20103 CREATIVE WRITING

ACTS Equivalent Course Number is ENGL2013

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in ENGL 10203 Composition II.

This course offers practical experience in the techniques of writing, poetry, fiction, and drama. **(General Education Credit)**

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Offered in the fall and spring semesters.

ENGL 20203 TECHNICAL COMMUNICATIONS

ACTS Equivalent Course Number is EnGL2023

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in ENGL 10103 Composition I.

This course covers principles of formatting and organizing technical documents, such as letters, memos, emails, reports, proposals, and resumes. Students will integrate research, technology, and visual data to produce professional documents. **(General Education Credit)**

Offered in the fall and spring semesters.

ENGL 21103 WORLD LITERATURE I

ACTS Equivalent Course Number is ENGL2113

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in ENGL 10203 Composition II.

This course contains selected significant works of world literature from ancient, medieval, and renaissance periods. It includes study of movements, schools, and periods. **(General Education Credit)**

Offered in the fall semester.

ENGL 211H3 HONORS WORLD LITERATURE I

ACTS Equivalent Course Number is ENGL2113

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in ENGL 10203 Composition II. Approval of Dean of General Education required to enroll in this course.

This course contains selected significant works of world literature from ancient, medieval, and renaissance periods. It includes study of movements, schools, and periods. Students have the opportunity to earn one service-learning hour in this course. **(General Education Credit)**

Offered in the fall and spring semesters.

ENGL 21203 WORLD LITERATURE II

ACTS Equivalent Course Number is ENGL2123

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in ENGL 10203 Composition II.

This course covers selected significant works of world literature from the Renaissance to the present. Includes study of movements, schools, and periods. **(General Education Credit)**

Offered in the spring semester.

ENGL 212H3 HONORS WORLD LITERATURE II

ACTS Equivalent Course Number is ENGL2123

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in ENGL 10203 Composition II. Approval of Dean of General Education required to enroll in this course.

This honors course covers select significant works of world literature from the Renaissance to the present. Includes study of movements, schools, and periods. Students have the opportunity to earn one service-learning hour in this course. **(General Education Credit)**

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Offered on demand.

ENGL 26503 AMERICAN LITERATURE I

ACTS Equivalent Course Number is ENGL2653

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in ENGL 10203 Composition II.

This course features selected works of American Literature from its beginnings to 1865. **(General Education Credit)**

Offered on demand.

ENGL 26603 AMERICAN LITERATURE II

ACTS Equivalent Course Number is ENGL2663

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in ENGL 10203 Composition II.

This course features selected works of American literature from 1865 to present. **(General Education Credit)**

Offered on demand.

ENGL 26703 BRITISH LITERATURE I

ACTS Equivalent Course Number is ENGL2673

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in ENGL 10203 Composition II.

This course features selected works of British literature from its beginnings through the Renaissance. **(General Education Credit)**

Offered on demand.

ENGL 26803 BRITISH LITERATURE II

ACTS Equivalent Course Number is ENGL2686

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in ENGL 10203 Composition II.

This course features selected works of British literature from the Renaissance to present. **(General Education Credit)**

Offered on demand.

FILM 20203 FILM APPRECIATION

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition.

A study of cinema as an art form through the examination of stylistic techniques, genres, and aesthetic elements of popular and historically significant films. **(General Education Credit)**

FINN 20103 PERSONAL FINANCE

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading.

This course is designed to provide students with the fundamental concepts of personal financial planning and goal achievement. It emphasizes personal financial planning, credit and cash management, insurance coverage, investments, retirement, and estate planning. **(General Education Credit)**

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Offered on demand.

GEOL 11104 GENERAL PHYSICAL GEOLOGY

ACTS Equivalent Course Number is GEOL1114

4 CR. (3 LEC., 2 LAB)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading.

This course is a study of the Earth and modification of its surface by internal and external processes. Topics include examination of the Earth’s interior, magnetism, minerals, rocks, landform development, structure, plate tectonics, and geological processes. Lab required. **(General Education Credit)**

Offered in the fall semester.

HEAL 10003 PERSONAL HEALTH

ACTS Equivalent Course Number is HEAL1003

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition.

Personal Health is a study designed to assist students in understanding and developing attitudes and behaviors necessary to establish healthful living practices. **(General Education Credit)**

Offered in the fall and spring semesters.

HIST 11103 WORLD CIVILIZATION I

ACTS Equivalent Course Number is HIST11103

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition.

The study of world civilizations from prehistoric times to the early modern period. **(General Education Credit)**

Offered in the fall and spring semesters.

HIST 11203 WORLD CIVILIZATION II

ACTS Equivalent Course Number is HIST11203

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition.

This course is a study of world civilizations from the early modern period to the present day. **(General Education Credit)**

Offered in the fall and spring semesters.

HIST 21103 UNITED STATES HISTORY I

ACTS Equivalent Course Number is HIST2113

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition.

This course is a survey of United States history through the Civil War era. **(General Education Credit)**

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Offered in the fall and spring semesters.

HIST 21203 UNITED STATES HISTORY II

ACTS Equivalent Course Number is HIST2123

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition.

This course is a survey of United States history since the Civil War era. **(General Education Credit)**

Offered on demand.

HIST 21393 AMERICAN SOUTH SINCE 1865

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in HIST 21203 United States History II.

This course is a survey of Southern history from the Civil War to the present. Emphasis is placed on the political journey through Reconstruction, the economic changes brought about by the end of slavery and the rise of industrialization, and the political transformation and turbulence of the New Deal and Civil Rights Movement. **(General Education Credit)**

Offered in the fall and spring semesters.

HIST 25503 ARKANSAS HISTORY

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition.

This course is a comprehensive study of the history of the state from prehistory to contemporary times. **(General Education Credit)**

Offered on demand.

HNRS 100H1 HONORS ORIENTATION

1 CR. (2 LAB)

Prerequisite: Admission into the Honors Program. Corequisite: Enrollment in at least one other honors-designated course.

The seminar-style Honors Program Orientation aids scholars enrolled in the UACCM Honors Program by providing guidance on communication skills in academic research. The course hones critical thinking skills by applying research to experiences and course assignments, including the Honors Program capstone project. To enhance scholars’ awareness of culture and community, a minimum of three (3) service-learning hours are required for the successful completion of this course. A background check is required for course and is covered by course fees.

Offered on demand.

HNRS 200H1 HONORS PROGRAM CAPSTONE

1 CR. (2 LAB)

Prerequisite: Acceptance in the Honors Program.

This web-based lab course is designed to assist students who plan to graduate from the UACCM Honors Program with developing their cumulative capstone project. Students will develop a personalized research project; gather evidence; and design a project summary and presentation. Students are encouraged to enroll in this course the semester prior to graduation to ensure they have time to conduct quality academic research and collect needed data. This course includes a minimum of three (3) service-learning hours.

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HVAC 12103 HVACR SYSTEMS AND COMPONENTS

3 CR. (2 LEC., 3 LAB)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading, and a grade of “C” or higher in HVAC 14004 AC and Heating Systems I.

A comprehensive study of HVACR systems emphasizing component identification and operation. Testing procedures, parts removal, and installation are covered in depth. A study of the computation of temperature-pressure relationship and related problems is included. Practical applications are provided in the laboratory. Safety is emphasized.

HVAC 14004 AC AND HEATING SYSTEMS I

4 CR. (3 LEC., 3 LAB)

Prerequisite: ACT Reading score of 17, ACCUPLACER NG Reading score of 248 OR ACT Reading score of 15-16, ACCUPLACER NG Reading score of <248 and “C” or better or concurrently enrolled in ENGL 10083 Applied Technical Writing.

This course is designed to teach the principles of the basic refrigeration cycle including temperature-pressure relationships, evaporation, condensation, heat transfer, and refrigerants. The identification and use of hand tools as well as safety principles and practices will be taught. Practical application is provided through laboratory activities.

HVAC 19104 AC AND HEATING SYSTEMS II

4 CR. (3 LEC, 3 LAB)

Prerequisite: Grade of “C” or higher in HVAC 14004 AC and Heating Systems I, and grade of “C” or higher or concurrently enrolled in ENGL 10083 Applied Technical Writing.

This course is designed to teach the basic installation of heating, ventilation, and air conditioning systems. Topics include AC and Heating systems load calculations, electrical, mechanical, and fuel and gas code requirements, basics of duct work, refrigerant characteristics, system evacuation, charging, and leak detection. Practical application is provided through hands-on laboratory activities.

HVAC 20003 COMMERCIAL REFRIGERATION

3 CR. (2 LEC., 3 LAB)

Prerequisite: Grade of “C” or higher in both HVAC 12103 HVACR Systems and Components and HVAC 14004 AC and Heating Systems I.

This course is designed to teach the components, operation, and design characteristics of commercial refrigeration to include, but not limited to, walk-in cooling and freezing cabinets, ice machines, and reach in coolers. Applications of these principles combined with practical experience on actual equipment will provide the student with the knowledge and skills to diagnose and repair equipment malfunctions.

HVAC 20134 AC AND HEATING SYSTEMS III

4 CR. (3 LEC., 3 LAB)

Prerequisite: Grade of “C” or higher in both HVAC 19104 AC and Heating Systems II and AMST 12004 Fundamentals of Electricity.

This course covers the process of identifying tubing and pipe with practical applications in sizing and fitting to different configurations using mechanical fittings, soft soldering, silver brazing and aluminum soldering. Also included are the study of air properties and the instrumentation to meet the environmental needs of structures, residential and commercial, and the factors involved in the calculation of heating and cooling loads.

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HVAC 20233 SERVICE, MAINTENANCE, AND TROUBLESHOOTING

3 CR. (1 LEC., 6 LAB)

Prerequisite: Grade of “C” or higher in both HVAC 19104 AC and Heating Systems II and HVAC 12103 HVACR Systems and Components.

This course is designed to teach students to service, maintain, and troubleshoot residential and commercial air conditioning units and commercial refrigeration units. Topics will include cleaning, service and trouble-shooting procedures for refrigerants and electrical components, and proper system charging. Students will also review completing invoices, receipts, Freon tracking, parts sheets, and time sheets in order to ensure customers’ satisfaction.

HVAC 21004 COMMERCIAL HVAC

4 CR. (3 LEC., 3 LAB)

Prerequisite: Grade of “C” or higher in both HVAC 12103 HVACR Systems and Components and HVAC 14004 AC and Heat Systems I.

This course is designed to teach the components, operation, and service characteristics of commercial HVAC equipment. Applications of basic HVACR principles combined with practical experience on actual commercial equipment will provide the student with the knowledge and skills to service, troubleshoot and repair basic equipment malfunctions. The subject matter includes commercial package units, variable air volume systems, variable refrigerant flow systems, hot and chilled water systems, and building automation systems. Safety is emphasized throughout the course.

HVAC 21103 HVACR MOTORS AND SYSTEMS CONTROLS

3 CR. (2 LEC., 3 LAB)

Prerequisite: Grade of “C” or higher in AMST 12004 Fundamentals of Electricity.

This course is a study of the fundamentals of motors used in the HVACR industry and their control circuits. This course provides the students with theory of pressure and temperature sensors, contactors, VFDs, relays, and other control components of motors used in industry. The subject matter includes, but not limited to, variable speed, ECM, constant torque, inducer, compressor, and other single-phase and three phase-motors.

HVAC 29003 HVACR INTERNSHIP

3 CR. (9 LAB)

Prerequisite: Students must have successfully completed a minimum of 30 semester hours toward an Associate of Applied Science degree in Air Conditioning, Heating, and Refrigeration Technology with a cumulative grade point average of 2.5 or higher. Students must complete an internship application which will require a current student identification number, phone number, email address, copy of current driver’s license, and resume. The student must also complete and submit an Arkansas Department of Health application for HVACR Registrant to the internship instructor. Students may be required to interview with the prospective employer, complete a drug screen and a background check. Students who elect to enroll in this course are placed by advisors in a business or industry that will provide on-the-job training as an extension of the classroom.

This internship course is designed to give students the experience of a job in their field of study. An internship cannot be completed at a student’s current place of employment. Completion of prerequisites does not guarantee student internship placement. The number of available internship positions and specific requirements may vary each semester depending on employer needs. Internship positions will be filled at the discretion of the internship instructor and will be based on information obtained and provided by internship applicants. This may include placement based on GPA rankings and student interests.

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Offered on demand.

INST 20033 GLOBAL STUDIES

3 CR. (3 LAB)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition.

The course will offer students firsthand studies in fine arts to be conducted abroad in the areas of literature, art, music and theatre from ancient to contemporary times. Includes the study of the history and culture of the selected country. **(General Education Credit)**

Offered in the summer semester.

INST 200H3 HONORS GLOBAL STUDIES

3 CR. (3 LAB)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition. Approval of Dean of General Education required to enroll in this course.

This course will offer students firsthand studies in fine arts to be conducted abroad in the areas of literature, art, music and theatre from ancient to contemporary times. Includes the study of the history and culture of the selected country. Students have the opportunity to earn at least two service-learning hours in this course. **(General Education Credit)**

ISHP 10003 MEDICAL TERMINOLOGY

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading.

This course is designed to assist students in developing the appropriate use of medical terminology in health-related professions. Emphasis will be given to fundamental word structures, anatomical terminology, overview of body systems, and numerous pathological conditions associated with the body and its systems. **(General Education Credit)**

ITEC 11003 COMPUTER HARDWARE

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading.

This course is an introduction for the beginning computer information systems technology student. It includes a survey of computing and an introduction to computer hardware and software. This course prepares the student for the CompTIA A+ Core 1 Exam as the first step in completing the CompTIA A+ certification **(General Education Credit)**

ITEC 11103 NETWORKING ESSENTIALS

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading.

This course, an introduction to local area networks (LANs), is the first course of study of networking. The student will learn to make networking cables, structured wire installations, and build and troubleshoot simple LANs. Other topics include the OSI Model, data link and network layer devices, IP addresses, subnet masking, ARP, RARP, cabling, topologies, wiring closets, and basic electrical and electronic issues in networks. The course prepares the student for ITEC 12003 Introduction to Network Administration, the second semester of the CompTIA Network+ certification training.

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ITEC 11303 INTRODUCTION TO COMPUTER PROGRAMMING LOGIC AND LANGUAGE

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading; AND ACT Math score of 17, ACCUPLACER NG QAS score of 230, or grade of “C” or higher in MATH 09103 Foundations of Algebra, MATH 10103 Applied Technical Math, or MATH 11003 College Algebra.

This course covers the fundamentals of computer programming. Through the use of C#, students will be given the skill sets required to perform all aspects of program operation. Logical thinking, flowcharting, program flow control structures, event processing, and graphical user interface concepts are the focus of this class. Structured program design is also stressed. Upon completion, students will have the background required to master more advanced programming concepts. **(General Education Credit)**

ITEC 12003 INTRODUCTION TO NETWORK ADMINISTRATION

3 CR. (3 LEC.)

Prerequisite: A grade of “C” or higher in ITEC 11103 Networking Essentials.

This course, an introduction to local area networks (LAN’s), is the first course in the study of networking. The student will learn to make Ethernet networking cables, structured wire installations, and build and troubleshoot simple LANs. Other topics include the OSI Model, data link and network layer devices, IP addresses, subnet masking, ARP, RARP, cabling, topologies, wiring closets, and basic electrical and electronic issues in networks. This course prepares the student for the CompTIA Network+ Certification Exam.

ITEC 20203 INTERNET TECHNOLOGIES

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading; AND ACT Math score of 17, ACCUPLACER NG QAS score of 230, or grade of “C” or higher in MATH 09103 Foundations of Algebra, MATH 10103 Applied Technical Math, or MATH 11003 College Algebra.

This course will teach the student how to develop an effective website using popular Web design languages and techniques. The fundamentals of a browser are covered and students will learn industry standard practices used in the design and implementation of Internet Web pages. Major topics covered include HTML5, Cascading Style Sheets, layout and design, website development, multimedia and interactivity, e-commerce, Web promotion, and JavaScript. **(General Education Credit)**

ITEC 21003 COMPUTER SOFTWARE

3 CR. (3 LEC.)

Prerequisite: A grade of “C” or higher in ITEC 11003 Computer Hardware.

The basics of supporting Windows 11 and Windows 10 are covered as well as various communication techniques such as network and Internet connections. Advanced hardware support topics such as printers and notebook computers are also discussed. Maintenance techniques, disaster recovery, routine data backups and the essentials of being a professional PC support technician round out the topics. This course prepares the student for the CompTIA A+ Core 2 Exam as the last step in completing the CompTIA A+ certification. **(General Education Credit)**

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ITEC 21203 DESKTOP OPERATING SYSTEMS AND APPLICATIONS

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher or concurrently enrolled in ITEC 11103 Networking Essentials.

This course provides a comprehensive introduction to desktop operating systems, with a primary focus on newest Windows client system, while also covering Linux (Ubuntu) and macOS. Students will learn to install, configure, and troubleshoot Windows in various environments, as well as compare and contrast it with Linux and macOS. Hands-on labs will provide experience with system management, security settings, deployment methods, and troubleshooting techniques. By the end of the course, students will confidently navigate these operating systems, utilizing built-in tools, and optimizing system performance.

ITEC 21303 SERVER OPERATING SYSTEMS

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in ITEC 11103 Networking Essentials.

This course provides students with comprehensive knowledge of the Windows server operating systems. Students who complete this course will be able to install and configure the Windows server operating system and implement common server roles necessary to facilitate a Windows domain environment. Students will install and configure Active Directory Domain Services, DHCP, DNS, WDS, routing protocols and more.

ITEC 22403 DATABASE CONCEPTS

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading.

This course provides a comprehensive introduction to the SQL language. This course not only covers the syntax of SQL, it also shows how it can be used to create and maintain a database and retrieve information from it. The course also provides an introduction to relational database concepts.

ITEC 22503 INTRODUCTION TO LINUX

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading.

This course is designed to provide students with an introduction to the Linux environment, an understanding of the concepts of a multitasking, multi-user operating system and an introduction to commonly used features and commands.

ITEC 23003 NETWORK SECURITY

3 CR. (3 LEC.)

Prerequisite: A grade of “C” or higher in ITEC 11103 Networking Essentials.

This course covers the physical areas; logical aspects, goals and plans; and different standards for network security. The OSI model of networking will be used to study different types of secure protocols, accounts, and software packages. Policy, authentication, authorization, keying, hacking, encryption, wireless, disaster recovery, and application security will also be covered.

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ITEC 24603 MOBILE APPLICATION DEVELOPMENT

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading; AND ACT Math score of 17, ACCUPLACER NG QAS score of 230, or grade of “C” or higher in MATH 09103 Foundations of Algebra or MATH 10103 Applied Technical Math.

This course serves as a practical guide to the development of applications (apps) for mobile devices. Topics include multimedia, communication, and other properties that should be considered during app development. Functional elements and the program structures of apps will be emphasized in the development of well-structured solutions to the challenges presented by this unique form of programming.

ITEC 24703 INTRODUCTION TO JAVASCRIPT

3 CR. (3 LEC.)

Prerequisite: A grade of “C” or higher in ITEC 20203 Internet Technologies.

This course teaches web page development with JavaScript. It covers the basics of ECMAScript Edition 3, which is compatible with older versions of Internet Explorer, as well as some features of ECMAScript 5.1, which is supported by all modern browsers. This course also covers advanced topics including object-oriented programming, the Document Object Model (DOM), touch and mobile interfaces, and AJAX. The HTML documents in this book are written to HTML5 standards, with some XHTML-compatible element syntax. After completing this course, students will be able to use JavaScript to build professional quality web applications.

ITEC 25003 ETHICAL HACKING AND NETWORK DEFENSE

3 CR. (3 LEC.)

Prerequisite: A grade of “C” or higher or concurrently enrolled in ITEC 12003 Introduction to Network Administration.

This course provides an in-depth understanding of how to effectively protect computer networks. Students will learn the tools and penetration-testing methodologies used by ethical hackers. It also provides a thorough discussion of what and who an ethical hacker is and how important they are in protecting corporate and government data from cyber-attacks. Students will learn updated computer security resources that describe new vulnerabilities and innovative methods to protect networks. Also covered is a thorough update of federal and state computer crime laws, as well as changes in penalties for illegal computer hacking.

ITEC 29003 CIS INTERNSHIP

3 CR. (9 LAB)

Prerequisite: Successfully complete a minimum of 45 semester hours toward a degree in Computer Information Systems Technology and receive consent of the instructor. Students may be required to interview with the prospective employer and complete a drug screen and a background check.

Students who elect to enroll in this course are placed in a job-training position in business or industry where the intern site will provide on-the-job training as an extension of the classroom. The internship is designed to permit students the exposure and experience of an actual job in their field of study. The student and the employer arrange specific work times with a minimum of 150 clock hours on the job.

MATH 01141 QUANTITATIVE LITERACY LAB

1 CR. (2 LAB)

Prerequisite: ACT Math score of 15-18, ACCUPLACER NG QAS score of 220-239, or a High School GPA of 2.25. Corequisite: Be currently enrolled in MATH 11103 Quantitative Literacy.

This course includes applications, critical thinking, quantities and measurement, managing money and personal finance, statistical reasoning, probability and mathematical modeling.

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MATH 09041 COLLEGE ALGEBRA LAB

1 CR. (2 LAB)

Prerequisite: ACT Math score of 18-19, ACCUPLACER NG QAS score of 235-253, a High School GPA of 2.8 and a “B” in HS Algebra I & II, or a grade of “C” or higher in MATH 09103 Foundations of Algebra or MATH 11103 Quantitative Literacy. Corequisite: Be currently enrolled in MATH 11003 College Algebra.

The purpose of this course is to prepare students for college-level mathematics. Content of the course includes polynomials, factoring, quadratic equations and functions, rational equations and functions, radical equations and functions, and graphing.

MATH 09103 FOUNDATIONS OF ALGEBRA

3 CR. (3 LEC.)

Prerequisite: ACT Math score of 15-17, ACCUPLACER NG QAS score of 220-234, a High School GPA of 2.5, or a grade of “C” or higher in MATH 11103 Quantitative Literacy.

The purpose of this course is to prepare students for college-level mathematics. Content of the course includes exponents, polynomials, factoring, linear and quadratic equations and functions, linear inequalities, rational expressions, radicals, functions, and graphing.

MATH 10103 APPLIED TECHNICAL MATH

3 CR. (3 LEC.)

Prerequisite: None.

This course provides an in-depth study of practical applications in technical areas. Problems are related to arithmetic, algebra, geometry, and trigonometry.

MATH 11003 COLLEGE ALGEBRA

ACTS Equivalent Course Number is MATH1103

3 CR. (3 LEC.)

Prerequisite: ACT Math score of 20, ACCUPLACER NG QAS score of 254 or above, a High School GPA of 3.0 and a “B” in HS Algebra I & II, OR a grade of “C” or higher in MATH 09103 Foundations of Algebra.

This course includes study of functions including, but not limited to, absolute value, quadratic, polynomial, rational, logarithmic, and exponential, systems of equations, and matrices. **(General Education Credit)**

MATH 11103 QUANTITATIVE LITERACY (FOR NON-STEM MAJORS ONLY)

ACTS Equivalent Course Number is MATH1113

3 CR. (3 LEC.)

Prerequisite: ACT Math score of 19-20, ACCUPLACER NG QAS score of 240 or above, or a High School GPA of 2.8 and a “B” in HS Algebra I, OR a grade of “C” or higher in MATH 09103 Foundations of Algebra, MATH 10103 Applied Technical Math, MATH 13343 Applied Business Math, or NURS 12143 Math for Nurses.

This course includes applications, critical thinking, quantities and measurement, managing money and personal finance, statistical reasoning, probability and mathematical modeling. Quantitative Literacy is designed as a general education course for students pursuing degree requirements in areas of study not related to STEM disciplines (science, technology, engineering or mathematics). Students pursuing majors in any of the following - Natural Sciences and Mathematics; Health Professions; Business and Education - are expected to complete College Algebra as a degree requirement. **(General Education Credit)**

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MATH 12003 PLANE TRIGONOMETRY

ACTS Equivalent Course Number is MATH1203

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in MATH 11003 College Algebra.

This course offers a study of trigonometric functions, identities, equations, and applications. **(General Education Credit)**

Offered in the fall semester.

MATH 13005 PRECALCULUS

ACTS Equivalent Course Number is MATH1305

5 CR. (5 LEC.)

Prerequisite: ACT Math score of 20, ACCUPLAER NG QAS score of 254 or above, or a grade of “C” or higher in MATH 09103 Foundations of Algebra; AND ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition.

This is an integrated, unified course of algebra and trigonometry with strong emphasis on graphing and functions. This course is designed for students who will take MATH 24004 Calculus I. Course is not open to students who already have credit for MATH 11003 College Algebra or MATH 12003 Plane Trigonometry. **(General Education Credit)**

MATH 13343 APPLIED BUSINESS MATH

3 CR. (3 LEC.)

Prerequisite: None.

Applied Business Math provides training in solving problems related to business situations and financial management in businesses, including percentages, inventory, depreciation, cash and trade discounts, simple/compound interest, mark-ups/mark downs, payroll, and distribution of overhead.

MATH 20103 DISCRETE MATH

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in Math 11003 College Algebra.

This course is designed for students to develop an understanding of mathematical reasoning, set theory, proofs by induction and other methods, number systems, relations and functions, graph theory, trees, counting and probability and related topics of study. It emphasizes applications of mathematics in computer science and other areas of technology. This course requires a significant amount of reading and writing. Proofs are required to be written in complete sentences and equipped with proper logic. **(General Education Credit)**

Offered in the fall semester.

MATH 20163 MATH FOR TEACHERS I

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in MATH 11103 Quantitative Literacy or MATH 11003 College Algebra. Check the receiving institution requirements.

This course is for prospective education majors. Topics include a study of sets, numeration systems, the structure of arithmetic, number theory, and beginning concepts of rational numbers, all with an emphasis on problem solving. **(General Education Credit)**

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Offered in the spring semester.

MATH 20263 MATH FOR TEACHERS II

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in MATH 11103 Quantitative Literacy or MATH 11003 College Algebra. Check the receiving institution requirements.

This course is for prospective education majors. Topics include a study of probability and statistics and an informal study of geometry all learned within a problem-solving framework. **(General Education Credit)**

MATH 20543 FINITE MATH

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in MATH 11003 College Algebra.

Finite mathematics is an introduction to linear regression, finance, systems of linear equations and matrices, linear programming, probability, and statistics. Emphasis will be placed on various business applications.

MATH 21003 INTRODUCTION TO STATISTICS

ACTS Equivalent Course Number is MATH2103

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in MATH 11103 Quantitative Literacy or MATH 11003 College Algebra.

This algebra-based course involves the presentation and interpretation of data, probability, sampling, basic inference, correlation and regression, and analysis of variance. It may include the use of statistical software. **(General Education Credit)**

MATH 210H3 HONORS INTRODUCTION TO STATISTICS

ACTS Equivalent Course Number is MATH2103

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in MATH 11103 Quantitative Literacy or MATH 11003 College Algebra. Approval of Dean of General Education required to enroll in this course.

This course involves the presentation and interpretation of data, probability, sampling, basic inference, correlation and regression, and analysis of variance. It may include the use of statistical software. Service-learning hours: To enhance scholar’s awareness of culture and community. Ten (10) service-learning hours are required for the successful completion of this course. **(General Education Credit)**

MATH 22003 CALCULUS FOR BUSINESS

ACTS Equivalent Course Number is MATH2203

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in MATH 11003 College Algebra.

Calculus for Business is an introduction to the techniques of differentiation and integration. Topics include calculus of algebraic, exponential, and logarithmic functions. Emphasis will be placed on various quantitative methods used in business and economics. In this course, the student is presented with an elementary introduction to calculus for students majoring in business, economics, or the management, life and social sciences. Calculus is the mathematics of change, and the world is in a constant state of change. The purpose of this course is to equip students with the powerful analytic tools of calculus. **(General Education Credit)**

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MATH 24004 CALCULUS I

ACTS Equivalent Course Number is MATH2405

4 CR. (4 LEC.)

Prerequisite: Grade of “C” or higher in MATH 11003 College Algebra AND grade of “C” or higher in MATH 12003 Plane Trigonometry or MATH 13005 Precalculus.

This is the first calculus course and includes the topics of function (including exponential, trigonometric, and logarithmic), limits, continuity, differentiation, antiderivatives, inverse functions, and integration. **(General Education Credit)**

MATH 25004 CALCULUS II

ACTS Equivalent Course Number is MATH2505

4 CR. (4 LEC.)

Prerequisite: Grade of “C” or higher in MATH 24004 Calculus I.

This is the second calculus course and includes the topics of integration and applications, integration by parts, sequences and series, parametric equations, polar coordinates, and conic sections. **(General Education Credit)**

MKTG 20003 MARKETING PRINCIPLES

ACTS Equivalent Course Number is MKTG2003

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition.

Marketing Principles is a study of marketing fundamentals, retailing and wholesaling systems, and marketing functions (price, place, promotion, and product) to accomplish value-added exchange in a global economy. This includes segmentation, targeting, and positioning to create a competitive advantage. **(General Education Credit)**

Offered on demand.

MUSC 10003 MUSIC APPRECIATION

ACTS Equivalent Course Number is MUSC1003

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading.

This course is an introductory survey of music, including the study of elements and forms of music; selected musical works; music terminology; important musical genres, periods, and composers; as well as introduction to major musical instruments. **(General Education Credit)**

NURS 12143 MATH FOR NURSES

3 CR. (3 LEC.)

Prerequisite: ACT Math score of 17, ACCUPLACER NG QAS score of 230, or grade of “C” or higher in MATH 11103 Quantitative Literacy/MATH 01141 Quantitative Literacy Lab AND admission to the Practical Nursing program or currently a licensed practical nurse in pursuit of an A.A.S.-RN. If enrolled in the Practical Nursing program, this course is a corequisite to PNUR 10091 Pharmacology I, PNUR 11005 Basic Nursing I, and PNUR 11036 Clinical Practicum I.

This course provides instruction in dosage calculation using ratio to proportion and other means of calculation related to medication. Topics include interpretation of drug labels, syringe types, conversions, roman numerals, reconstitution and apothecaries, mixing medications, IV flow rates, drip rates, interpretation of physician orders and transcribing to medication administration records, dispensing, and proper documentation of medications as well as the six rights of medical administration and military time.

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NURS 21102 PHARMACOLOGY I

2 CR. (2 LEC.)

Prerequisite: Acceptance into the Registered Nursing (ADN) RN Program. Corequisite: Concurrently enrolled in NURS 21253 Nursing Practicum I, NURS 21106 Medical-Surgical Nursing I, and NURS 21201 Mental Health Nursing.

This course transitions the foundational knowledge of the LPN/LVN with a focus on the RN scope of practice with medications indicated for disease processes discussed in Medical-Surgical Nursing I and Mental Health Nursing. This course will expand on the pharmacokinetics of these drugs, safe administration of these medications, and instill the basics of drug therapy for the RN student.

NURS 21106 MEDICAL-SURGICAL NURSING I

6 CR. (6 LEC.)

Prerequisite: Acceptance into the Registered Nursing (ADN) RN Program. Corequisite: Concurrently enrolled in NURS 21253 Nursing Practicum I, NURS 21102 Pharmacology I, and NURS 21201 Mental Health Nursing.

This course transitions the foundational knowledge of the LPN/LVN with a focus on the RN scope of practice in medical-surgical nursing. Incorporates evidence-based practice in medical/surgical nursing to develop the knowledge base to care for the adult patient, including the geriatric patient. Incorporates all phases of the nursing process, holistic nursing care, laboratory/diagnostic tests, quality improvement, and professional standards for the body systems discussed, as well as care across the wellness/illness continuum.

NURS 21201 MENTAL HEALTH NURSING

1 CR. (1 LEC.)

Prerequisite: Acceptance into the Registered Nursing (ADN) RN Program. Corequisite: Concurrently enrolled in NURS 21253 Nursing Practicum I, NURS 21102 Pharmacology I, and NURS 21106 Medical-Surgical Nursing I.

This course transitions the foundational knowledge of the LPN/LVN with a focus on the RN scope of practice in the mental health aspect of nursing. Prepares nursing students to care for clients with mental health disorders consisting of neuroses, personality disorders, psychoses, addictive disorders, suicidal ideation, and violence. Emphasizes nursing care of the mentally ill client, interventions, and treatments for these clients.

NURS 21253 NURSING PRACTICUM I

3 CR. (9 LAB)

Prerequisite: Acceptance into the Registered Nursing (ADN) RN Program. Corequisite: Concurrently enrolled in NURS 21102 Pharmacology I, NURS 21106 Medical-Surgical Nursing I, and NURS 21201 Mental Health Nursing.

This course applies medical/surgical and mental health nursing theory, pharmacological concepts, and critical thinking/clinical reasoning necessary for safe, patient-centered care. Incorporates evidence-based practice, quality improvement, and professional standards in a variety of healthcare settings.

NURS 22156 MATERNAL/CHILD NURSING

6 CR. (6 LEC.)

Prerequisite: Grade of “C” or higher in NURS 21106 Medical-Surgical Nursing I, NURS 21102 Pharmacology I, NURS 21201 Mental Health Nursing, and NURS 21253 Nursing Practicum I. Corequisite: Concurrently enrolled in NURS 22253 Nursing Practicum II.

Application of additional knowledge focusing on the childbearing family, newborn, women’s health, and pediatric patients. It incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the professional nurse. This course also includes the Arkansas state mandate on “Child Maltreatment” involving abuse, sexual abuse, neglect, sexual exploitation, or abandonment of a child under the Child Maltreatment Act § 12-18-101 et seq.

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NURS 22253 NURSING PRACTICUM II

3 CR. (9 LAB)

Prerequisite: Grade of “C” or higher in NURS 21106 Medical-Surgical Nursing I, NURS 21102 Pharmacology I, and NURS 21201 Mental Health Nursing. Corequisite: Concurrently enrolled in NURS 22156 Maternal/Child Nursing.

This course applies concepts learned in Maternal/Child Nursing to provide safe, quality, patient-centered care to a diverse population focusing on wellness and acute conditions affecting the childbearing family, newborn, women’s health, and pediatric patients.

NURS 23151 NCLEX-RN PREPARATION

1 CR. (1 LEC.)

Prerequisite: Grade of “C” or higher in NURS 21106 Medical-Surgical Nursing I, NURS 21201 Mental Health Nursing, NURS 21253 Nursing Practicum I, NURS 22156 Maternal/Child Nursing, and NURS 22253 Nursing Practicum II. Corequisite: Concurrently enrolled in NURS 23253 Nursing Practicum III, NURS 23302 Pharmacology II, NURS 23305 Medical-Surgical Nursing II, and NURS 23301 Community/Leadership in Nursing.

This course provides study skills, Capstone Review, Virtual ATI, and NCLEX comprehensive review to prepare the student to sit for the NCLEX-RN exam.

NURS 23253 NURSING PRACTICUM III

3 CR. (9 LAB)

Prerequisite: Grade of “C” or higher in NURS 21106 Medical-Surgical Nursing I, NURS 21102 Pharmacology I, NURS 21201 Mental Health Nursing, NURS 21253 Nursing Practicum I, NURS 22156 Maternal/Child Nursing, and NURS 22253 Nursing Practicum II. Corequisites: Concurrently enrolled in NURS 23302 Pharmacology II, NURS 23305 Medical-Surgical Nursing II, NURS 23301 Community/Leadership in Nursing, NURS 23151 NCLEX-RN Preparation.

This course applies concepts learned in Medical-Surgical II, Community/Leadership in Nursing, and previous courses to provide safe, quality, patient-centered care to a diverse patient population focusing on further medical-surgical conditions of the high acuity patient and family. Incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the professional nurse into the care of patients in a variety of healthcare settings.

NURS 23301 COMMUNITY/LEADERSHIP IN NURSING

1 CR. (1 LEC.)

Prerequisite: Grade of “C” or higher in NURS 21106 Medical-Surgical Nursing I, NURS 21201 Mental Health Nursing, NURS 21253 Nursing Practicum I, NURS 22156 Maternal/Child Nursing, and NURS 22253 Nursing Practicum II. Corequisite: Concurrently enrolled in NURS 23253 Nursing Practicum III, NURS 23302 Pharmacology II, and NURS 23305 Medical-Surgical Nursing II.

This course transitions the foundational knowledge of the LPN/LVN with a focus on the RN scope of practice in community nursing with emphasis on leadership of the RN in the clinical settings. The course will discuss the role of an RN in the community setting and elaborate on the qualities of leadership an RN should have in practice.

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NURS 23302 PHARMACOLOGY II

2 CR. (2 LEC.)

Prerequisite: Grade of “C” or higher in NURS 21106 Medical-Surgical Nursing I, NURS 21201 Mental Health Nursing, NURS 21253 Nursing Practicum I, NURS 22156 Maternal/Child Nursing, and NURS 22253 Nursing Practicum II. Corequisite: Concurrently enrolled in NURS 23253 Nursing Practicum III, NURS 23301 Community/Leadership in Nursing, and NURS 23305 Medical-Surgical Nursing II.

This course transitions the foundational knowledge of the LPN/LVN with a focus on the RN scope of practice with medications indicated for disease processes discussed in Medical-Surgical Nursing II. This course will expand on the pharmacokinetics of these drugs, safe administration of these medications, and instill the basics of drug therapy for the RN student.

NURS 23305 MEDICAL-SURGICAL NURSING II

5 CR. (5 LEC.)

Prerequisite: Grade of “C” or higher in NURS 21106 Medical-Surgical Nursing I, NURS 21201 Mental Health Nursing, NURS 21102 Pharmacology, NURS 21253 Nursing Practicum I, NURS 22156 Maternal/Child Nursing, and NURS 22253 Nursing Practicum II. Corequisite: Concurrently enrolled in NURS 23302 Pharmacology II, NURS 23301 Community/Leadership in Nursing, NURS 23151 NCLEX-RN Preparation, and NURS 23253 Nursing Practicum III.

This course expands the knowledge from Medical-Surgical Nursing I incorporating evidence-based practice, the nursing process, holistic care, laboratory/diagnostic testing, quality improvement, and professional standards to care for the adult patient, including the geriatric patient, in the concepts of: renal/urinary function and disorders, male and female reproductive system function and disorders, cardiovascular function and disorders, endocrine system function and disorders, hematology function and disorders, neurological function and disorders, musculoskeletal function and disorders, and gastrointestinal function and disorders.

NUTR 12103 NUTRITION

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition.

This course includes the science, principles, and application of nutrition for all age groups. There is an emphasis on the importance of nutrition as a preventative health measure and source of supply for our bodies’ changing needs. **(General Education Credit)**

Offered on demand.

PEAC 10181 VOLLEYBALL

1 CR. (2 LAB)

Prerequisite: None.

This course is designed for the beginning volleyball player. The fundamentals and theory of volleyball will be taught in this course. Students will develop basic skills as well as learn the rules, regulations, and terminology associated with volleyball. Students will be expected to participate in moderate to vigorous activities when in class. **(General Education Credit)**

Offered on demand.

PEAC 10381 RECREATIONAL ACTIVITIES

1 CR. (2 LAB)

Prerequisite: None.

This course is designed to provide learning experiences that will lead to the development of basic skills, knowledge, and techniques for a variety of recreational activities. Students will be expected to participate in moderate to vigorous activities when in class. **(General Education Credit)**

Continues On Next Page.

Offered on demand.

PEAC 10581 PRINCIPLES OF LIFETIME FITNESS

1 CR. (2 LAB)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading.

Students will learn basic fitness techniques such as flexibility, strength training, aerobic conditioning, anaerobic conditioning, and the importance of a safe, life-long fitness program. **(General Education Credit)**

Offered on demand.

PEAC 10681 AEROBICS

1 CR. (2 LAB)

Prerequisite: None.

Aerobics is a conditioning course designed to acquaint students with basic fitness principles while at the same time, offering students a variety of exercise forms to improve their level and understanding of fitness. Students are taught proper exercise form and fundamentals in aerobic dancing. **(General Education Credit)**

Offered on demand.

PEAC 10781 BOWLING

1 CR. (2 LAB)

Prerequisite: None.

Students will learn fundamental skills and general bowling knowledge and etiquette. Skills are practiced, developed, and evaluated in the bowling alley setting. This course is structured for the beginning bowler. **(General Education Credit)**

Offered in the fall and spring semesters.

PEAC 10871 FITNESS WALKING/RUNNING

1 CR. (2 LAB)

Prerequisite: None.

Fitness Walking/Running is a lifetime conditioning course designed to improve cardiovascular fitness, flexibility, body composition and muscle tone through a planned program of progressive fitness walking and/or running. This course will teach basic anatomy and physiology important to fitness walking and running, training techniques and equipment, proper warm-up, and stretching and injury prevention. **(General Education Credit)**

Offered on demand.

PEAC 10981 PILATES/YOGA

1 CR. (2 LAB)

Prerequisite: None.

Pilates/Yoga is a conditioning course designed to acquaint students with basic pilates and yoga principles. It teaches basic anatomy important to pilates and yoga, breathing techniques, and uses a progressive approach to teaching proper execution of pilates moves and yoga positions. This class is designed to teach lifetime skills, build strength, and increase flexibility. **(General Education Credit)**

Offered on demand.

PHIL 10003 INTRODUCTION TO CRITICAL THINKING

ACTS Equivalent Course Number is PHIL1003

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition.

Course content includes the study of applied reasoning, analysis of arguments, informal and formal fallacies, syllogisms, construction of definitions, and scientific reasoning. **(General Education Credit)**

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Offered on demand.

PHIL 11003 INTRODUCTION TO PHILOSOPHY

ACTS Equivalent Course Number is PHIL1103

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition.

This is a philosophical exploration of topics that include human values, critical thinking, and nature of reality and knowledge. **(General Education Credit)**

PHSC 10004 PHYSICAL SCIENCE

ACTS Equivalent Course Number is PHSC1004

4 CR. (3 LEC., 2 LAB)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading; AND ACT Math score of 17, ACCUPLACER NG QAS of 230, or grade of “C” or higher in MATH 09103 Foundations of Algebra, MATH 10103 Applied Technical Math, or MATH 13343 Applied Business Math.

This survey course of the physical sciences is designed for general education. Course includes topics in physics and chemistry. It may also include other physical science topics. Lab required. **(General Education Credit)**

PHSC 11004 EARTH SCIENCE

ACTS Equivalent Course Number is PHSC1104

4 CR. (3 LEC., 2 LAB)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading.

This course introduces to the basic concepts of Earth sciences. Lab required. **(General Education Credit)**

Offered in the fall semester.

PHSC 20234 CONCEPTS IN SCIENCE EDUCATION

4 CR. (3 LEC., 2 LAB)

Prerequisite: BIOL 10104 Fundamentals of Biology and PHSC 10004 Physical Science.

This course is required for Elementary and Special Education programs. This course emphasizes development of scientific content knowledge, and investigations in natural sciences (Physical, Life, Earth/Space) and their real-world applications (Engineering and Technology) for curricula development in elementary and special education. Lab required. **(General Education Credit)**

Offered in the fall and spring semesters.

PLSC 20003 AMERICAN GOVERNMENT

ACTS Equivalent Course Number is PLSC2003

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition.

This course is an introduction to the principles, structure, processes, and functions of the United States federal government and other related political activities. **(General Education Credit)**

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Offered in the fall and spring semesters.

PLSC 200H3 HONORS AMERICAN GOVERNMENT

ACTS Equivalent Course Number is PLSC2003

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition. Approval of Dean of General Education required to enroll in this course.

This Honors course is an introduction to the principles, structure, processes, and functions of the United States federal government and other related political activities. Students will be required to use critical thinking skills to evaluate and critique various governmental institutions established by the U. S. Constitution. A minimum of four (4) service-learning hours are required for this course. **(General Education Credit)**

PNUR 10091 PHARMACOLOGY I

1 CR. (1 LEC.)

Prerequisite: Admission to the Practical Nursing program. Corequisite: PNUR 11005 Basic Nursing I, NURS 12143 Math for Nurses, PNUR 11036 Clinical Practicum I.

This course introduces pharmacology as it applies to nursing. Topics include the history and basics of pharmacology, regulations, medication orders, and administration. This course emphasizes patient safety in medication administration.

PNUR 10191 PHARMACOLOGY II

1 CR. (1 LEC.)

Prerequisite: Successful completion of first semester Practical Nursing requirements. Corequisites: PNUR 12025 Medical Surgical Nursing I, PNUR 12203 Maternal/Child Nursing, and PNUR 12106 Clinical Practicum II.

This course concentrates on the medications used to treat the disorders discussed in PNUR 12025 Medical Surgical I and PNUR 12203 Maternal/Child. Students are prepared to safely administer medications to treat these disorders.

PNUR 10291 PHARMACOLOGY III

1 CR. (1 LEC.)

Successful completion of first and second semester Practical Nursing requirements. Corequisites: PNUR 22002 Mental Health, PNUR 22011 NCLEX - PN Prep, PNUR 23135 Medical Surgical Nursing II, and PNUR 22036 Clinical Practicum II.

This course concentrates on the medications used to treat the disorders discussed in PNUR 23135 Medical Surgical Nursing II and NUR 2001 Mental Health. Students are prepared to safely administer medications to treat these disorders.

PNUR 11005 BASIC NURSING I

5 CR (5 LEC.)

Prerequisite: Admission to the Practical Nursing program. Corequisite: NURS 12143 Math for Nurses, PNUR 10091 Pharmacology I, PNUR 11036 Clinical Practicum I.

This course provides nursing students with the opportunity to learn the theory of nursing practice and skills required to deliver safe and effective care across the life span of the adult. Concepts such as the nursing process, safety, comfort, documentation, and health promotion will be introduced as well as other concepts which are needed to practice entry-level nursing and to promote critical thinking.

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PNUR 11036 CLINICAL PRACTICUM I

6 CR. (18 LAB)

Prerequisite: Admission to the Practical Nursing program. Corequisite: NURS 12143 Math for Nurses, PNUR 10091 Pharmacology I, and PNUR 11005 Basic Nursing I.

This lab-based course provides beginning nursing students with the opportunity to practice and perfect basic skills needed to care for patients. The geriatric clinical is completed in this course.

PNUR 12025 MEDICAL SURGICAL NURSING I

5 CR. (5 LEC.)

Prerequisite: Successful completion of first semester Practical Nursing requirements. Corequisites: PNUR 10191 Pharmacology II, PNUR 12203 Maternal/Child Nursing, and PNUR 12106 Clinical Practicum II.

This course introduces the student to medical/surgical nursing concepts. It prepares the student to care for adult patients, including the geriatric patient, incorporating all phases of the nursing process for these topics. Holistic nursing care for patients, laboratory/diagnostic tests, and pharmacotherapies are included for body systems discussed, as well as care across the wellness/illness continuum.

PNUR 12106 CLINICAL PRACTICUM II

6 CR. (18 LAB)

Prerequisite: Successful completion of first semester Practical Nursing requirements. Corequisite: PNUR 12025 Medical Surgical Nursing I, PNUR 12025 Medical Surgical Nursing I, and PNUR 12203 Maternal/Child Nursing.

This course is a continuation of PNUR 11036 Clinical Practicum I and provides the nursing student the opportunity to practice and perfect basic nursing skills needed to care for patients. The clinical rotation for this course is primarily in a hospital setting.

PNUR 12203 MATERNAL/CHILD NURSING

2 CR. (2 LEC.)

Prerequisite: Successful completion of the first semester Practical Nursing requirements. Corequisite: PNUR 12025 Medical Surgical Nursing I, and PNUR 12106 Clinical Practicum II.

This course prepares students to care for pregnant women from conception to delivery and to care for the child from birth through adolescence. Topics include anatomy and physiology of the reproductive system, conception, fetal development, labor and delivery, post-partum care, and family planning. The developmental milestones and normal care of each age group is studied. The pathophysiology and nursing care of selected disorders of each age group is also covered in this course.

PNUR 22002 MENTAL HEALTH

2 CR. (2 LEC.)

Prerequisite: Successful completion of first and second semester Practical Nursing requirements. Corequisites: PNUR 10191 Pharmacology II, PNUR 22011 NCLEX - PN Prep, PNUR 23135 Medical Surgical Nursing II, and PNUR 22036 Clinical Practicum II.

This course prepares students to care for patients with mental health disorders. Topics include neuroses, psychoses, personality disorders, addictive disorders and, suicide violence. The course emphasizes the nursing care of the mentally ill, interventions, and treatments, as well as psychopharmacology.

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PNUR 22011 NCLEX - PN PREP

1 CR. (1 LEC.)

Prerequisite: Successful completion of first and second semester Practical Nursing requirements. Corequisites: PNUR 10191 Pharmacology II, PNUR PNUR 22002 Mental Health, PNUR 23135 Medical Surgical Nursing II, and PNUR 22036 Clinical Practicum II.

This online course provides a comprehensive review of materials taught in the program in preparation for taking the NCLEX-PN.

PNUR 22036 CLINICAL PRACTICUM III

6 CR. (18 LAB)

Prerequisite: Successful completion of second semester Practical Nursing requirements. Corequisite: PNUR 10191 Pharmacology II, PNUR 22002 Mental Health, PNUR 22011 NCLEX - PN Prep, and PNUR 23135 Medical Surgical Nursing II.

This course provides the opportunity for continued clinical application of nursing theory and skills in a variety of community health care settings. It provides students with experiences to become more independent in their practice of nursing. The pediatric clinical rotation and leadership rotation are completed in this course.

PNUR 23135 MEDICAL SURGICAL NURSING II

5 CR. (5 LEC.)

Prerequisite: Successful completion of first and second semester Practical Nursing requirements. Corequisites: PNUR 10191 Pharmacology II, PNUR 22002 Mental Health, PNUR 22011 NCLEX - PN Prep, PNUR 22036 Clinical Practicum III.

This course is the continuation of PNUR 12025 Medical Surgical Nursing I. In this course students will continue to be introduced to medical/surgical nursing concepts which will prepare the student to care for the adult patient, including the geriatric patient, incorporating all phases of the nursing process for these topics. Holistic nursing care for patients, laboratory/diagnostic tests, and pharmacotherapies are included for body systems discussed, as well as care across the wellness/illness continuum.

Offered in the fall and spring semesters.

PSYC 11003 GENERAL PSYCHOLOGY

ACTS Equivalent Course Number is PSYC1103

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition.

This course is an overview of major topics in modern psychology, the scientific study of behavior, and mental processes. As a first course in the discipline of psychology, it introduces some of the fundamental concepts, principles, and theories with a consideration for the complexity of human behavior. **(General Education Credit)**

Offered on demand.

PSYC 20133 ABNORMAL PSYCHOLOGY

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in PSYC 11003 General Psychology.

This course is designed to survey the principal forms of abnormal behavior. Causes, symptoms, classification, treatment, and prevention will be addressed. **(General Education Credit)**

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Offered in the fall and spring semesters.

PSYC 21003 PSYCHOLOGY OF HUMAN DEVELOPMENT

ACTS Equivalent Course Number is PSYC2103

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in PSYC 11003 General Psychology.

This course is a survey covering the processes and domains of human development from conception throughout the entire lifespan. **(General Education Credit)**

Offered on demand.

PSYC 21173 SENSATION AND PERCEPTION

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in PSYC 11003 General Psychology.

This course provides an introduction into how the brain makes sense of all the sensory inputs it receives. Students will learn how the anatomy and physiology of the eye, ear, and related parts of the brain allow human beings to understand speech, perceive color, see motion and depth, and recognize faces. **(General Education Credit)**

Offered on demand.

RELS 20503 SURVEY OF WORLD RELIGIONS

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition.

This course seeks to provide the tools necessary to understand and appreciate the various religious traditions of the world. By understanding the religion of others, we can better learn to appreciate how and why they see the world as they do, and hopefully we can learn with them and from them. **(General Education Credit)**

Offered in the fall and spring semesters.

SOCI 10103 INTRODUCTION TO SOCIOLOGY

ACTS Equivalent Course Number is SOCI1013

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition.

This course is an introduction to the theories, concepts, and basic principles used in the study of group life, social institutions, and social processes. **(General Education Credit)**

Offered in the fall semester.

SOCI 101H3 HONORS INTRODUCTION TO SOCIOLOGY

ACTS Equivalent Course Number is SOCI1013

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition. Approval of Dean of General Education required to enroll in this course.

This honors course is an introduction to the theories, concepts, and basic principles used in the study of group life, social institutions, and social processes. Students will be required to utilize sociological concepts and apply them to real world macro and micro-level situations and social problems. A minimum of three (3) service-learning hours are required for this course. **(General Education Credit)**

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Offered in the fall and spring semesters.

SOCI 20103 SOCIAL PROBLEMS

ACTS Equivalent Course Number is SOCI2013

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition.

This course covers the application of sociological principles to the investigation of major social problems currently faced by societies. **(General Education Credit)**

Offered in the fall and spring semesters.

SOCI 25073 MARRIAGE AND THE FAMILY

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition.

This course covers the various patterns of marriage and family systems with a focus on historical changes and social issues interrelated to these systems. Divorce, family violence, parenting, and the changing nature of gender roles will be examined in the analysis of marriage and the family. **(General Education Credit)**

Offered in the fall semester.

SPAN 10103 ELEMENTARY SPANISH I

ACTS Equivalent Course Number is SPAN1013

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition.

Spanish I is a beginning course designed to help students develop a basic proficiency in the four skills of listening, speaking, reading, and writing. The instruction is communicatively oriented and emphasizes the everyday life and culture of Spanish-speaking people. **(General Education Credit)**

Offered in the spring semester.

SPAN 10203 ELEMENTARY SPANISH II

ACTS Equivalent Course Number is SPAN1023

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in SPAN 10103 Elementary Spanish I.

This course seeks to further develop a basic proficiency in the four skills of listening, speaking, reading, and writing. The instruction is communicatively oriented and emphasizes the everyday life and culture of Spanish-speaking people. **(General Education Credit)**

Offered on demand.

SPAN 20103 INTERMEDIATE SPANISH I

ACTS Equivalent Course Number is SPAN2013

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher in SPAN 10203 Elementary Spanish II.

SPAN 20103 is designed to help the student develop an intermediate-level proficiency in the four skills of listening, speaking, reading, and writing. The instruction is communicatively oriented and emphasizes the everyday life and culture of Spanish-speaking people. **(General Education Credit)**

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Offered in the fall and spring semesters.

SPCH 10003 INTRODUCTION TO ORAL COMMUNICATIONS

ACTS Equivalent Course Number is SPCH1003

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition.

This course covers the theory and practice of communication in interpersonal, small group, and public speaking emphasizing proficiency in speech organization, delivery, and critical thinking/listening applications. **(General Education Credit)**

Offered in the fall and spring semesters.

SPCH 100H3 HONORS INTRODUCTION TO ORAL COMMUNICATIONS

ACTS Equivalent Course Number is SPCH1003

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of “C” or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of “C” or higher in UNIV 03003 Basic Composition. Approval of Dean of General Education required to enroll in this course.

This course covers the theory and practice of communication in interpersonal, small group, and public speaking emphasizing proficiency in speech organization, delivery, and critical thinking/listening applications. A minimum of three (3) service-learning hours are required for this course. **(General Education Credit)**

SURV 11101 INTRODUCTION TO SURVEYING

1 CR. (1 LEC.)

Prerequisite: None.

This course provides an introduction to the profession of land surveying. The course introduces the student to the history of surveying in the United States, Introduction to the United States Public Land Survey System (USPLSS), surveying terminology, equipment used in the surveying, National Council of Examiners for Engineering and Surveying (NCEES), the Fundamentals of Surveying (FS) exam and Surveyor Intern (SI). Students will gain basic knowledge of the duties and responsibilities of a Professional Surveyor (PS).

SURV 12004 PLANE SURVEYING

4 CR. (3 LEC., 3 LAB)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252 or a grade of “C” or higher in UNIV 02103 Reading; AND ACT Math score of 17, ACCUPLACER NG QAS 230, or a grade of “C” or higher or currently enrolled in MATH 09103 Foundations of Algebra.

This is an introductory course in surveying equipment use and surveying computations. Field work includes taking survey field notes, leveling, using an automatic level, and traversing using total station instruments. The theory portion covers the history of surveying; the theory of measurement and errors; theory of leveling; angles, bearings, and azimuths; introduction to coordinate geometry (COGO); and the basics of the U. S. Public Land Survey System.

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SURV 12103 INTRODUCTION TO CAD AND SURVEYING SOFTWARE

3 CR. (2 LEC., 3 LAB)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252 or a grade of “C” or higher in UNIV 02103 Reading; AND ACT Math score of 17, ACCUPLACER NG QAS 230, or a grade of “C” or higher or currently enrolled in MATH 09103 Foundations of Algebra.

The student will be instructed in basic computer drafting operations including drawing and constructing lines, circles, arcs, polygons and other shapes and the placement of text on drawings. Also included will be surveying functions such as coordinate geometry (COGO), design, area, annotation, and land surface modeling. The course will examine the procedures and terminology that students should expect to encounter in a typical surveying/civil engineering office.

SURV 12204 BOUNDARY SURVEYING

4 CR. (3 LEC., 3 LAB)

Prerequisite: Grade of “C” or higher in CPSI 10003 Introduction to Computers; AND grade of “C” or higher in SURV 12004 Plane Surveying or SURV 12103 Introduction to CAD & Surveying Software. Corequisite: Concurrent enrollment in SURV 22203 Survey Plats & Deeds.

This course is a study of the research and field work involved in doing boundary surveys. Courthouse research, GLO notes and plats, a history and analysis of the United States Public Land Survey System (USPLSS), astronomical observations, surveying software, total stations data collectors, tree identification, and Arkansas Minimum Standards will be included.

SURV 14134 CONSTRUCTION AND ROUTE SURVEYING

4 CR. (3 LEC., 3 LAB)

Prerequisite: Grade of “C” or higher in CPSI 10003 Introduction to Computers; AND grade of “C” or higher in SURV 12004 Plane Surveying or SURV 12103 Introduction to CAD & Surveying Software. Corequisite: Concurrent enrollment in SURV 22103 Topographic & Civil Mapping.

This course is a study of the construction and route applications of surveying. Automatic levels, total stations, and data collectors will be used. Field work and computations will include topographic surveying, horizontal and vertical curves, and components of route surveying. Work will be processed using surveying software.

SURV 20033 LEGAL PRINCIPLES AND BOUNDARIES

3 CR. (3 LEC.)

Prerequisite: None.

This course is the study of rights and interest in land ownership and transfer of property, statute law, common law, riparian and littoral rights, original surveys of sectionalized land, and resurveys of sectionalized land.

SURV 20103 BOUNDARY EVIDENCE AND PROCEDURES

3 CR. (3 LEC.)

Prerequisite: None.

This course will teach the surveying student the laws of evidence pertaining to the location of land boundaries described by writings and to apply the laws of evidence when locating deed boundaries. It is an introduction to the proper methods of recognizing, gathering, interpreting, and applying the evidence of land boundaries in order to properly locate those boundaries on the ground. It also instructs the student in the proper methods of creating evidence for the future surveyor so that boundary locations may be perpetuated. Professionalism and ethics in land surveying are also introduced.

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SURV 21003 GLOBAL POSITIONING SYSTEMS

3 CR. (3 LEC.)

Prerequisite: Grades of “C” or higher in SURV 12004 Plane Surveying, SURV 12103 Introduction to CAD & Surveying Software, and CPSI 10003 Introduction to Computers.

This course prepares the student with the background needed to plan, execute, and analyze a GPS survey. The student will learn the theoretical background and the use of survey-grade GPS equipment and software. Mission planning, field projects, post-processing, reports, topographic maps, NGS datasheets, monument recovery, and the future of GPS in civilian applications will be integral parts of this course.

SURV 21101 FUNDAMENTALS OF SURVEYING (FS) EXAM PREP

1 CR. (1 LEC.)

Prerequisite: Grade of “C” or higher in SURV 11101 Intro to Surveying, SURV 12004 Plane Surveying, and SURV 12103 Introduction to CAD and Surveying Software. This class should be taken in the third or fourth semester of the AAS Surveying degree.

This course is designed to help the student prepare to take the Fundamentals of Surveying (FS) exam. The FS is the first national exam required of the surveying student in their pursuit of a professional surveying license.

SURV 22003 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading.

Geographic Information Systems (GIS) is a computer-based data processing tool used to manage and analyze spatial information. This course introduces the student to the tools and techniques of GIS, including hands-on experience using GIS software. The course will combine lecture, tutorials, discussions, and a project.

SURV 22103 TOPOGRAPHIC AND CIVIL MAPPING

3 CR. (3 LEC.)

Prerequisite: Grade of “C” or higher or concurrent enrollment in SURV 20001 Construction Route Surveying; AND grades of “C” or higher in SURV 12004 Plane Surveying, SURV 12103 Introduction to CAD & Surveying Software, and CPSI 10003 Introduction to Computers.

Topics covered include basic civil drafting techniques, mapping scales and symbols, surveying fundamentals as they relate to civil drafting, relevant mathematical calculations, horizontal and vertical curves, contour lines, profiles, highway layout, and earthwork.

SURV 22203 SURVEY PLATS AND DEEDS

3 CR. (2 LEC. 3 LAB)

Prerequisite: Grade of “C” or higher or concurrent enrollment in SURV 12204 Boundary Surveying; AND grades of “C” or higher in SURV 12004 Plane Surveying, SURV 12103 Introduction to CAD & Surveying Software, and CPSI 10003 Introduction to Computers.

This course is an introduction to the terminology, mathematics, legal principles, and software associated with the interpretation and preparation of survey plats, maps, and legal boundary descriptions. The student will learn how to perform the calculations necessary to evaluate and verify the correctness of boundary survey field data. The student will also learn to interpret and prepare a variety of legal boundary descriptions and to prepare boundary plats that conform to the Arkansas Minimum Standards for Property Boundary Surveys and Plats.

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SURV 29003 SURVEYING INTERNSHIP

3 CR. (9 LAB)

Prerequisite: Successfully complete a minimum of 45 semester hours toward a degree in Surveying and receive consent of the instructor. Students may be required to interview with the prospective employer and complete a drug screen and a background check.

This is an opportunity for the surveying student to work directly under the supervision of an experienced surveyor either in an office setting or in the field performing surveying duties. Over the course of the semester the student will work a minimum of 150 hours for the internship partner. The type of work performed will be at the discretion of the employer but will be directly related to land boundary and /or construction surveying. This internship is developed so that the surveying student will be exposed to job situations that cannot be produced in the classroom and enhance student employability.

TECH 12041 OSHA 10-HOUR CONSTRUCTION INDUSTRY

1 CR. (1 LEC.)

Prerequisite: None.

This course provides training for entry-level workers on the recognition, avoidance, abatement, and prevention of safety and health hazards in construction industry workplaces. The course also provides information regarding workers' rights, employer responsibilities, and how to file a complaint. Students who successfully complete the OSHA 10-Hour Construction Industry course receive an OSHA 10-Hour Construction Industry wallet card.

Offered on demand.

THTR 10003 THEATRE APPRECIATION

ACTS Equivalent Course Number is DRAM1003

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or grade of "C" or higher in UNIV 02103 Reading; AND ACT English score of 19, ACCUPLACER NG Writing score of 260, or a grade of "C" or higher in UNIV 03003 Basic Composition.

This course is designed to help students develop an awareness and an appreciation of theatre art and its place in contemporary human culture. It incorporates the study of theatrical styles, history, theory, and live and recorded performances. **(General Education Credit)**

UNIV 02103 READING

3 CR. (3 LEC.)

Prerequisite: ACT score of 18 or below or ACCUPLACER NG Reading score of 251 or below.

This course provides instruction and practice to improve vocabulary, comprehension and critical thinking on a college level. Students must complete this course with a "C" or higher in order to advance to ENGL 10103 Composition I.

UNIV 03003 BASIC COMPOSITION

3 CR. (3 LEC.)

Prerequisite: ACT English score of 18 or below or ACCUPLACER NG Writing score of 259 or below.

Basic Composition is a fundamental writing course that prepares students for Composition I. The course focuses on essay construction grounded in reasoning, effective sentence and paragraph development, and practical grammar skills. Students must complete this course with a "C" or higher in order to advance to ENGL 10103 Composition I.

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UNIV 04004 PRECOLLEGE READING AND WRITING

4 CR. (4 LEC.)

Prerequisite: ACT score of 18 or below or ACCUPLACER NG Reading score of 251 or below and ACT English score of 18 or below or ACCUPLACER NG Writing score of 259 or below.

This course provides instruction and practice to improve vocabulary, comprehension, essay construction, practical grammar skills, and critical thinking on a college level. Students must complete this course with a “C’ or higher in order to advance to ENGL 10103 Composition I.

UNIV 05001 BEGINNING KEYBOARDING

1 CR. (2 LAB)

Prerequisite: None. (Not open to anyone who has completed BINS 11001 Keyboarding Skills II or BUSI 11003 Document Formatting and Skill Building.)

Beginning Keyboarding develops personal-use skills or job-related skills using the touch-keying method on the standard keyboard. The student will learn the alphabetic and numeric keys, proper keyboarding techniques, and use of the mouse and will build speed and accuracy skills. This course is offered on a credit/no-credit basis. This course may not be used toward a certificate or associate degree in business.

UNIV 05033 FUNDAMENTALS OF COMPUTERS

3 CR. (3 LEC.)

Prerequisite: None.

This course introduces the basics of using a computer. Students will produce and print documents, manage files, send and receive email, and search the Internet. The course also reinforces effective mouse and keyboarding techniques.

UNIV 10181 FIRST YEAR EXPERIENCE

1 CR. (2 LAB)

Prerequisite: None.

This course is designed to transition students into college life by providing tools for lifelong learning. Students are introduced to campus resources as well as given strategies for academic success that focus on critical reading, note-taking, studying techniques, test-taking, stress and time management, financial literacy, goal setting, and career development. This course may be taken by any student and may be used to meet graduation requirements. **(General Education Credit)**

UNIV 10281 RESEARCH AND INFORMATION LITERACY

1 CR. (2 LAB)

Prerequisite: Grade “C” or higher in ENGL 10103 Composition I.

Designed for students who intend to complete bachelor’s-level degree programs, this course focuses on the production of information, information retrieval, understanding research products, evaluating information, and applying information critically in academic or research environments. Concepts and principles in the course are based on the Frameworks for Information Literacy in Higher Education outlined by the Association of College and Research Libraries. **(General Education Credit)**

WELD 10071 BASIC WELDING

1 CR. (3 LAB)

Prerequisite: None.

This course is NOT for welding majors. This course provides training in theory, manipulative skills, safety and related shop practices involving the use of oxyacetylene and electric arc stick welding. Students who successfully complete this course will be able to make quality welds in various positions. Techniques of fusion, brazing, soldering, and arc welding are covered.

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WELD 12072 CRAFT SKILLS

2 CR. (2 LEC.)

Prerequisite: None.

This is an introductory course to basic craft skills essential to the welding industry as well as all other skilled trades. The course is designed to help entry-level craft workers increase their awareness of material handling techniques and basic equipment safety. The curriculum for this course is based on the National Center for Construction Education and Research (NCCER) guidelines and represents one of the foundational courses in the NCCER accredited welding program.

WELD 12173 GAS METAL ARC WELDING

3 CR. (1 LEC., 6 LAB)

Prerequisite: ACT Reading score of 15, ACCUPLACER NG Reading score of 230, or a grade of “C” or higher in UNIV 02103 Reading.

This course includes an in-depth study of the gas metal arc welding process (GMAW). The student will learn the principles of a constant voltage power source and the mechanics and maintenance of the wire feeding system. Lab classes provide opportunities for students to practice short circuiting transfer on flux cored wire feeding systems. All instruction will be based on American Welding Society (AWS) standards.

WELD 14076 SHIELDED METAL ARC WELDING

6 CR. (3 LEC., 9 LAB)

Prerequisite: ACT Reading score of 15, ACCUPLACER NG Reading score of 230, or a grade of “C” or higher in UNIV 02103 Reading.

In this course, students will learn basic welding techniques in shielded metal arc welding, including cutting with oxyfuel equipment, electrode classification, and testing weldments using destructive and non-destructive methods. Lab class provides opportunities for students to apply knowledge from theory-based classes to practical exercises. All instruction will be based on American Welding Society (AWS) standards.

WELD 21073 BLUEPRINT READING

3 CR. (3 LEC.)

Prerequisite: ACT Reading score of 19, ACCUPLACER NG Reading score of 252, or a grade of “C” or higher in UNIV 02103 Reading.

Topics in this course include lines and views, size descriptions, print formats, fasteners, and types of fabrication drawings. The course covers the various welding symbols prescribed by the American Welding Society for all standard production type welds. The last half of the course consists of reading blueprints and weld symbols.

WELD 23073 GAS TUNGSTEN ARC WELDING

3 CR. (1 LEC., 6 LAB)

Prerequisite: Grade of “C” or higher in WELD 14076 Shielded Metal Arc Welding.

In this course, students will use Gas Tungsten Arc Welding (GTAW) equipment to perform various welds in all positions. Lab class provides opportunities for students to practice GTAW. All instruction will be based on American Welding Society (AWS) standards.

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WELD 24072 FLUX CORE ARC WELDING

2 CR. (6 LAB)

Prerequisite: Grades of “C” or higher in WELD 12173 Gas Metal Arc Welding.

This course includes an in-depth study of the Flux Core Arc Welding process (FCAW). The student will learn the principles of a constant voltage power source and the mechanics and maintenance of the wire feeding system. This lab class will provide opportunities for students to practice flux cored wire feeding systems. All instruction will be based on American Welding Society (AWS) standards.

WELD 24176 STRUCTURAL WELDING

6 CR. (3 LEC., 9 LAB)

Prerequisite: Grades of “C” or higher in WELD 14076 Shield Metal Arc Welding.

Students will further increase their welding proficiency by observing and performing industry standard fillet and groove welds on structural metals. They will also practice proper cutting, fitting, and basic layout of these metals. All instruction will be based on American Welding Society (AWS) standards.

WELD 24273 ADVANCED GAS TUNGSTEN ARC WELDING

3 CR. (1 LEC., 6 LAB)

Prerequisite: Grades of “C” or higher in WELD 23073 Gas Tungsten Arc Welding.

In this course, students will further their knowledge in the process of Gas Tungsten Arc Welding (GTAW). Lab class provides opportunities for students to advance their skills and knowledge in the GTAW process on high quality stainless steel, aluminum, and galvanized material. All instruction will be based on American Welding Society (AWS) standards.

WELD 25073 WELDING SPECIAL PROJECTS

3 CR. (9 LAB)

Prerequisite: Consent of instructor.

This course provides an opportunity for the student to complete individual study that is supervised by the instructor on special projects related to the welding industry.

WELD 26076 ADVANCED WELDING

6 CR. (3 LEC., 9 LAB)

Prerequisite: Grades of “C” or higher in WELD 12173 Gas Metal Arc Welding, WELD 24176 Structural Welding, and WELD 23073 Gas Tungsten Arc Welding.

In this course, students will advance their knowledge and skills in SMAW, GTAW, GMAW, or FCAW. Lab classes provide opportunity for students to apply knowledge from theory classes to practical exercises.

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WELD 29073 WELDING INTERNSHIP

3 CR. (9 LAB)

Prerequisite: Student must have successfully completed a minimum of 30 semester hours towards an Associate of Applied Science degree in Welding with a cumulative grade point average of 2.5 or higher. Student must complete an internship application which will require a current student identification number, phone number, email address, copy of current driver license, and resume. Student may be required to interview with the prospective employer, complete a drug screen and a background check.

This internship course is designed to give students the experience of a job in their field of study. An internship cannot be completed at a student's current place of employment. Completion of prerequisites does not guarantee student internship placement. The number of available internship positions and specific requirements may vary each semester depending on employer needs. Internship positions will be filled at the discretion of the internship instructor and will be based on information obtained and provided by internship applicants. This may include placement based on GPA rankings and student interests. Students who are selected to enroll in this course are placed by advisors with a business/company that will provide on-the-job training as an extension of the classroom. Internship positions may be paid hourly, paid stipend, provided scholarship, or not paid at all. Specific arrangements will be determined individually by the internship employers.