A+ Certification Preparation
Current personal computer hardware including personal computer assembly and upgrading, setup and configuration, and troubleshooting. The A+ Certification Preparation Program prepares individuals for a career as a computer technician in the information technology industry. This course covers the various responsibilities and tasks required for a computer technician to successfully perform in a customer environment.

ABE EL Civics and Citizenship Workshop
This workshop is designed to provide Civics Education. This course is for students who can participate in conversations on a variety of subjects, might need some repetition but they are able to understand the main topic. These students can read different types of texts and use context to completely understand the message. These students navigate their workplace without difficulty but need to polish their communication skills. Participants in the class will learn English through everyday situation including workplace and civics. Adult learners will use their speaking, listening, reading and writing skills as well as grammar, numeracy, life skills, American culture and civics. In addition to this. Adult learners will be exposed to the use of technology in the classroom and computer lab experience to enhance their computer skills.

ABE ESOL Advanced Level / Civics
This course intends to address the language needs of adult learners who have an advanced English language skills. This course is designed to increase students’ proficiency and confidence in English and provide Civics Education. This course is for students, who can participate in conversations on a variety of subjects, might need some repetition but they are able to understand the main topic. These students can read different types of texts and use context to completely understand the message and develops reading strategies for comprehension. These students navigate their workplace without difficulty but need to polish their communication skills. Participants in the class will learn English through everyday situation including workplace and civics. Adult learners will use their speaking, listening, reading and writing skills as well as grammar, numeracy, life skills, American culture and civics. In addition to this, adult learners will experience the use of technology inside and outside the classroom to enhance their language learning experience.

ABE ESOL Beginning Level
This multilevel course intends to address the language needs of adult learners who have low to high beginning level of English language skills. This course is for adult learners who can understand basic greetings, phrases, and commands and whose literacy level allows them to read and write in their native language but it is limited in English. Participants in the class will obtain fundamental language knowledge and skills that will enable them to use the English language in their daily lives, activities, and workplace. Competency-based lessons are created around everyday topics everyday lessons containing topics such as community, health, shopping, transportation and family and friends. Adult learners will use their speaking, listening, reading and writing skills as well as grammar, numeracy, life skills and American culture. In addition to this, adult learners will experience the use of technology inside and outside the classroom to enhance their language learning experience.

ABE ESOL Intermediate Level
This multilevel course intends to address the language needs of adult learners who have a low to high intermediate level of English language skills. This course is for adult learners who can initiate and engage in simple conversations that include descriptions, personal opinions, and inferences on familiar topics. Adult learners in this course apply complex listening strategies to comprehend conversations; read different types of texts and is able to answer comprehension questions. Participants in the class will obtain intermediate level language knowledge and skills that will enable them to use the English language in their daily lives, activities, and workplace. Competency-based lessons are created around everyday topics such as workplace, community, family, emergencies, and health. Adult learners will use their speaking, listening, reading and writing skills as well as grammar, numeracy, life skills and American culture. In addition to this, adult learners will experience the use of technology inside and outside the classroom to enhance their language learning experience.
# ABE ESOL Literacy

This course is designed to address the language needs of adult learners who are true English language beginners and whose literacy level is low. This course is for adult learners who depend on gestures, their first language, and visual aids to communicate with others. Participants in the class will learn English through everyday lessons containing topics such as community, health, shopping, transportation and family and friends. Adult learners will work on developing their speaking, listening, reading, and writing skills as well as grammar, numeracy, life skills and American culture. In addition to this, adult learners will experience the use of technology inside and outside the classroom to enhance their language learning experience.

# ABE GED Language Arts II

Emphasis is on refining reading and writing skills required for college and career success. This course is aligned with Texas CCRS (College and Career Readiness Skills). Topics include critical reading skills, note-taking strategies, writing essays and research papers. In addition, understanding the importance of learning styles and time management in reading and writing will be addressed. This course is delivered in a hybrid format and employs an individualized/modularized approach so students can work on their problem areas as determined by an initial diagnostic test.

# ABE GED Math and Language Arts

This course is used in the grant-funded AEL program. This course designed to provide basic mathematics and foundational reading and writing skills and remediation necessary for career and college readiness. This course does not carry institutional credit. This course will not transfer nor be used to meet degree requirements. This course provides foundational mathematical, reading, language and writing skills for students preparing for the Texas Certificate of High School Equivalency test, TSIA assessment, entry into workforce certification programs, and career pathways. Approval Required, TSI placement score level 1-2, TABE test.

# ABE GED Math I

This course is a basic mathematics course designed to provide remediation in developmental basic mathematic skills necessary for career and college readiness. This course does not carry institutional credit. This course will not transfer nor be used to meet degree requirements. Approval Required, TSI placement score level 1-2, TABE test.

# ABE GED Math II

This course is a basic mathematics course designed to provide remediation in developmental basic mathematic skills necessary for career and college readiness. This course does not carry institutional credit. This course will not transfer nor be used to meet degree requirements. ABE GED Math II is a continuation of the ABE GED Math 1 course. This course provides foundational mathematic skills for students preparing for the Texas Certificate of High School Equivalency test, TSIA assessment, entry into workforce certification programs, and career pathways. Approval Required, TSI placement score level 1-2, TABE test.

# ABE Integrated EL Civics

This course is for Adult Basic Education students who are working towards completion in a workforce training/certification program. Students will increase proficiency in English language and civics education. Prior departmental approval is required.

# ABE Math and Reading for Allied Health Careers

This course is for Adult Basic Education students who are working towards completion in a workforce training/certification program. Student will increase proficiency in math and reading, as well as contextualized skills, specific to business, allied health or trade careers. Prior departmental approval is required.

# ABE Math and Reading for Business Careers

This course is for Adult Basic Education students who are working towards completion in a workforce training/certification program. Student will increase proficiency in math and reading, as well as contextualized skills, specific to business, allied health or trade careers. Prior departmental approval is required.
ABE MATH AND READING FOR TRADE CAREERS
This course is for Adult Basic Education students who are working towards completion in a workforce training/certification program. Student will increase proficiency in math and reading, as well as contextualized skills, specific to business, allied health or trade careers. Prior departmental approval is required.

ACCOUNTING, OFFICE I
This course focuses on analyzing, classifying and recording business transactions. Emphasis is placed on understanding the complete accounting cycle and preparing financial statements, bank reconciliations and payroll.

ACCOUNTING, OFFICE II
Focus on accounting for merchandising, notes payable, notes receivable, valuation of receivables, valuation of plant and equipment, and voucher systems.

ACPE IV STERILE COMPOUNDING CERTIFICATION
The process of compounding sterile preparations and aseptic technique within legal and regulatory guidelines specified by USP <797> standards. This course combines a preliminary online didactic component, followed by face-to-face laboratory sections that include process evaluations, and a final written exam. This course is designed to train pharmacists and pharmacy technicians in sterile compounding and aseptic technique (SCAT) based on current USP<797> standards. All course activities are designed to be completed within a short time-frame. CPE activity completers will receive a frame-able certificate of completion, ACPE statement of credit, and upload of ACPE CE credits for 40 hours/4.0 CEUs. This course is an "IV certification" course.

AMERICAN MUSIC
A general survey of various styles of music of the Americas, including but not limited to jazz, folk, rock, and contemporary music. This course is linked to MUSI 1310. (5009025326) Prerequisites: College Level Readiness in Reading AND Writing.

ANATOMY AND PHYSIOLOGY I, REVIEW
An applied systematic study of the structure and function of the human body designed for students considering a career in the health field. Includes anatomical terminology, cells, tissues, and the following systems: integumentary, skeletal, muscular, nervous, and endocrine. Emphasis on homeostasis. Students will study the systems of the body, how they interact, and how they are regulated to maintain life and homeostasis. This is a very fast-paced course; Designed for students with a previous passing grade of at least C in Human Anatomy & Physiology I (BIOL 2401).

ANATOMY AND PHYSIOLOGY II, REVIEW
A continuation of Applied Human Anatomy and Physiology I designed for students considering a career in the health field. The following body systems are included: digestive, respiratory, cardiovascular, lymphatic/immune, renal/excretory, and reproductive. Emphasis is on homeostasis. Students will study the systems of the body, how they interact, and how they are regulated to maintain life and homeostasis. In this study of the structure and function of the human body, emphasis will be given to the study of cells and tissues and anatomical and physiological interrelationships of the skeletal, muscular, nervous and endocrine systems. This is a very fast-paced course; Designed for students with a passing grade of at least a C in Human Anatomy & Physiology II (BIOL 2402).

ARABIC I, BEGINNING
This course includes beginner’s punctuation, oral practice, conversation, development of listening comprehension, basic principles of grammar, simple exercises in composition, easy reading which includes cultural material.(1601015113) This courses is linked to ARAB 1411. Prerequisite: College Level Readiness in Reading AND Writing.

ARABIC II, BEGINNING
This course is a continuation of ARAB 1411 with increased emphasis on comprehension, speaking, reading and writing. Intensive drills to increase vocabulary and knowledge of structure. This course is linked to ARAB 1412. Prerequisite: ARAB 1411; College Level Readiness in Reading AND Writing.
ART APPRECIATION
A general introduction to the visual arts designed to create an appreciation of the vocabulary, media, techniques, and purposes of the creative process. Students will critically interpret and evaluate works of art within formal, cultural, and historical contexts. This course is linked to ARTS 1301. Prerequisite: College Level Readiness in Reading AND Writing.

AUTOCAD, ADVANCED
Two- and three-dimensional drawings using three-dimensional display options and specifying user-defined coordinate systems. Prerequisites: AutoCAD, Intermediate. Textbook required.

AUTOCAD, INTERMEDIATE
Topics include applications; creating, sorting, and retrieving predefined components; placing, rotating, and scaling components; modifying; rubber banding; adding text and dimensions to drawings; multilayering drawings, grids, orthogonal mode; data storage format for writing auxiliary programs; input and output devices; resolution and physical limitations. Textbook required.

AUTOCAD, INTRODUCTION
Topics include CAD equipment selection and interface; software selection and installation; creating, editing and plotting of line drawings for architectural, electrical, circuit, mechanical, or interior design; create/modify graphic elements, storing and retrieving predefined components; and adding text and dimensions.

AUTODESK INVENTOR
The Inventor® software is a computer-aided design application for creating 3D digital prototypes used in the design, visualization and simulation of products. Topics include materials recommended by Autodesk®; navigating the user interface and managing files; utilize the ViewCube; setup the Environment information; manage Views; create object using the Sweep feature; create an iPart; emboss text and a profile; apply and use assembly constraints; create a part in the context of the assembly. Prerequisites: AutoCAD® or SolidWorks® experience helpful.

AWS ACADEMY CLOUD FOUNDATIONS
AWS Academy Cloud Foundations is intended for students who seek a foundational understanding of cloud computing concepts, independent of specific technical roles. It provides an overview of cloud concepts, AWS core services, security, architecture, pricing, and support. Upon successful completion of the AWS Cloud Foundations course, students get access to vouchers for a free practice exam and discounted exam voucher for the AWS Certified Cloud Practitioner exam. Prerequisite for all other AWS Academy courses.
Module 1: Cloud Concepts
Module 2: AWS Core Services
Module 3: AWS Cloud Security
Module 4: Cloud Architecting
Module 5: Cloud Support Services

AWS CLOUD ARCHITECTING
This course focuses on the fundamentals of building IT infrastructure on the AWS platform. You will learn how to optimize the AWS Cloud by understanding AWS services and how they fit into cloud-based solutions. Best practices and design patterns are covered to help you architect optimal IT solutions on the AWS Cloud. Build and explore a variety of infrastructures through guided discussions and hands-on activity.
### AWS Cloud Developing

Learn how to use the AWS Software Development Kit to develop secure and scalable cloud applications. You will be able to setup AWS SDK and developer credentials for Java, C#/.NET, Python, and JavaScript. Explore how to interact with AWS services, and develop solutions by using the AWS SDK. Also learn about key concepts, best practices, and troubleshooting tips.

### AWS Cloud Practitioner Essentials

This fundamental-level course is intended for individuals who seek an overall understanding of the AWS Cloud, independent of specific technical roles. You will learn about AWS cloud concepts, AWS services, security, architecture, pricing, and support to build your AWS Cloud knowledge. Throughout the day there are hands-on lab exercises to reinforce some of the core concepts of the class. It also helps you prepare for the AWS Certified Cloud Practitioner exam.

### Basic Blueprint Reading for Plumbers NCCER

Introduction to reading and interpreting working drawings. Includes symbols and abbreviations and the use of sketching techniques to create isometric and orthographic drawings of drain, waste, vent, hot and cold water, and gas piping components.

### Basic Electrical Wiring NCCER

Presentation of the theory of residential electric circuits. Topics include load calculations and safety in electrical work, installation of wiring, load protection, ground fault, and other devices commonly used in 110-volt household applications.

### Basic Framing NCCER

Knowledge and skills required to erect wood frame structures with emphasis on layout and construction of floors, walls, and roofs. Includes safety procedures for using hand and power tools and structural materials.

### Basic Handtools for Floorhands

This course introduces participants to the proper use of various types of hammers, wrenches, pliers, screwdrivers, saws, drills, ratchets and sockets, and much more. In addition to learning about the personal protective equipment (PPE) that should be worn while using various types of hand tools, the safety risks, and the best way to mitigate those risks, will also be covered. Participants will be required to select, properly use, inspect, clean and store tools after completing several hands-on lab projects.

### Basic Machine Shop I

An introductory course that assists the student in understanding the machinist occupation in industry. The student begins by using basic machine tools such as the lathe, milling machine, drill press, power saw, and bench grinder. Machine terminology, theory, math, part layout, and bench work using common measuring tools is included. Emphasis is placed on shop safety, housekeeping, and preventative maintenance. Prerequisite: Blueprint Reading & Sketching and Machine Shop Mathematics. Prerequisite: None.

### Basic Mechanical Skills for Mechatronics

Basic mechanical skills using hand and power tools in an industrial environment. Topics include tool use and maintenance, lubrication, measuring, threads and fasteners, bench works, basic mechanical drawings, and basic shop calculations (English and metric). Also addresses rigging procedures to include chain falls, jacks, cable, fulcrum, port-a-power, and come-alongs.

### Basic Pipefitting Skills NCCER

Mathematical operations necessary to calculate laying lengths of pipe fittings for fabrication. Identification and use of hand tools and power tools. Identification of pipe, pipe fittings, flanges, and fasteners used in the trade.
**BEGINNING GERMAN II**

A continuation of GERM 1411 with increased emphasis on comprehension, speaking, reading, and writing. Intensive drills to increase vocabulary and knowledge of structure. This course is linked to GERM 1412. Prerequisite: GERM 1411 OR placement by testing; College Level Readiness in Reading AND Writing.

**BEGINNING SPANISH I**

This course includes beginner’s pronunciation, oral practice, conversation, development of listening comprehension, basic principles of grammar, simple exercises in composition, easy reading which includes cultural material. Students with prior language experience must take a placement exam to advance to the next level and receive credit. (1609055113) This course is linked to SPAN 1411. Prerequisite: College Level Readiness in Reading AND Writing.

**BEGINNING SPANISH II**

This course is a continuation of SPAN 1411 with increased emphasis on comprehension, speaking, reading and writing. Intensive drills to increase vocabulary and knowledge of structure. Students with prior language experience must take a placement exam to advance to the next level and receive credit. (1609055113) This course is linked to SPAN 1412. Prerequisite: SPAN 1411 or placement exam; College Level Readiness in Reading AND Writing.

**BLUEPRINT READING AND SKETCHING**

An introduction to reading and interpreting working drawings for manufactured products and associated trades; use sketching techniques to create pictorial and multiple-view drawings. The student will solve related math equations, geometric dimensioning and tolerancing; and interpreted shop operations.

**BLUEPRINT READING FOR WELDERS**

Symbols/graphic language required in the interpretation of working drawings for specific occupations. Reading and interpreting blueprints including information on computer-aided design and computer numerical control. Students will develop the skills needed to interpret all types of working sketches and prints, from the simplest to the most complex, through step-by-step instructions. Both AWS and ISO welding symbols are covered, as well as auxiliary views, detail views, projections, sections, and detail and assembly drawings. Other topics covered include pipe welding symbols, metric and dual dimensioning, bills of materials, ISO for welding, and first and third angle orthographic projection. This course is designed as a component to prepare the student take the American Welding Society Certification Exam.

**CARDIOVASCULAR TECHNOLOGY TECHNICIAN, CLINICAL**

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Hospital will require immunizations such as Hepatitis B, TB Skin Test, Varicella, Measles, Mumps, Rubella and Tetanus. Student must present a successful background check in order to attend clinical. Prerequisite: Electrocardiography and Diagnostic Electrocardiography. CPR certification is also required in order to attend clinical. This course is a component of Electrocardiography Technician that prepares for American Certification Agency for Healthcare Professionals. This course will review the following medical terminology; heart anatomy and physiology, basic EKG techniques, and infection control and safety. The course will also review basic electrophysiology, ECG waves and interpretations, and basic pharmacology and special procedures while in a clinical setting.

**CCNA 1: INTRODUCTION TO NETWORKS**

This course covers networking architecture, structure, security, and functions; introduces the principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations to provide a foundation for the curriculum.

**CCNA 2: SWITCHING, ROUTING AND WIRELESS ESSENTIALS**

Describes the architecture, components, and basic operation of routers and explains the basic principles of routing and routing protocols. It also provides an in-depth understanding of how switches operate and are implemented in the LAN environment for small and large networks. Additionally, wireless technologies are covered along with best practices for implementing wireless within and network environment.
**CCNA 3: ENTERPRISE NETWORKING, SECURITY AND AUTOMATION**

Describes the architecture, components, operations, and security to scale for large, complex networks, including wide area network (WAN) technologies. Emphasizes network security concepts and introduces network virtualization and automation.

**CERAMICS I**

Exploration of ideas using basic ceramic processes. An introduction to ceramics that examines the historical and cultural significance of the ceramic arts through research and application of various construction methods and firing processes. This course is linked to ARTS 2346.

**CERAMICS II**

Investigates advanced techniques, as well as the creative possibilities of clay, glazes and firing procedures. This course is linked to ARTS 2347. Prerequisite: College Level Readiness in Reading AND Writing; ARTS 2346 or Departmental approval.

**CERTIFIED LOGISTICS TECHNICIAN**

The CLT Course provides students with the mid-level technical knowledge needed to understand the world of supply chain logistics and related core competencies, earning 21st Century, in-demand skills needed for long-term career paths in over 5.8 million supply chain logistics jobs. CLT is a nationally portable, industry-led certification that prepares individuals for front-line material handling and supply chain logistics jobs in fulfillment centers, warehouses, distribution centers, and factories. This Course includes product receiving, product storage, order processing, packaging and shipment, inventory control, safe handling of hazardous materials, evaluation of transportation modes, customs, dispatch and tracking operations.

**CHINESE I, BEGINNING**

An introduction to modern spoken and written Mandarin Chinese. Beginners speaking, listening comprehension and basic principles in grammar along with simple exercises in compositions and reading which include cultural material. Students will write Chinese characters. This course is linked to CHIN 1411. Prerequisite: College Level Readiness in Reading AND Writing

**CHINESE II, BEGINNING**

A continuation of CHIN 1411 as an introduction to modern spoken and written Mandarin Chinese. Increased emphasis on speaking, listening comprehension, and basic principles in grammar along with simple exercises in compositions and reading which include cultural material. Students will write Chinese characters. This course is linked to CHIN 1412. Prerequisite: College Level Readiness in Reading AND Writing; Completion of CHIN 1411.

**CLASS GUITAR I**

Class instruction in fundamental guitar playing, including technique, music-reading, fretboard theory, melodic and harmonic realizations. A maximum of four credit hours may be earned. (5009115126) This course is linked to MUSI 1192.

**CLASS VOICE**

Class instruction in the fundamentals of singing including breathing, tone production, and diction. Designed for students with little or no previous voice training. Does not apply to a music major degree. A maximum of four credit hours of voice classes may be earned. (5009085126) This course is linked to MUSI 1183.
CLINICAL MEDICAL ASSISTANT - CLINICAL
A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Introduction to medical office operations, equipment, procedures, and human relations skills. Emphasis on the application of basic psychological principles and the study of behavior as they apply to special populations. Emphasis on structure and function of human cells, tissues, organs, and systems with overview of common pathophysiology. Topics include procedures for self-understanding and social adaptability in interpersonal communication with patients and co-workers in an ambulatory care setting. Application of governmental health care guidelines. Includes specimen collection and handling, quality assurance and quality control in performance of Clinical Laboratory Improvement Amendments (CLIA)-waived laboratory testing.

CLINICAL MEDICAL ASSISTANT - LAB
A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Introduction to medical office operations, equipment, procedures, and human relations skills. Emphasis on the application of basic psychological principles and the study of behavior as they apply to special populations. Emphasis on structure and function of human cells, tissues, organs, and systems with overview of common pathophysiology. Topics include procedures for self-understanding and social adaptability in interpersonal communication with patients and co-workers in an ambulatory care setting. Application of governmental health care guidelines. Includes specimen collection and handling, quality assurance and quality control in performance of Clinical Laboratory Improvement Amendments (CLIA)-waived laboratory testing.

CLINICAL MEDICAL ASSISTANT - LEC
A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Introduction to medical office operations, equipment, procedures, and human relations skills. Emphasis on the application of basic psychological principles and the study of behavior as they apply to special populations. Emphasis on structure and function of human cells, tissues, organs, and systems with overview of common pathophysiology. Topics include procedures for self-understanding and social adaptability in interpersonal communication with patients and co-workers in an ambulatory care setting. Application of governmental health care guidelines. Includes specimen collection and handling, quality assurance and quality control in performance of Clinical Laboratory Improvement Amendments (CLIA)-waived laboratory testing.

CLINICAL TEACHING
The Clinical Teaching course prepares a candidate in the Alternative Teacher Certification Program to be recommended for Texas standard teacher certification. The course provides candidates with preparation training and field-based classroom experience at the appropriate grade level and content area. Clinical teachers work with a mentor teacher in a K-12 school for a minimum of 12 weeks, while under the supervision of the program. With the completion of Clinical Teaching and the 300+ hours of coursework and training per the Texas Education Agency, the candidate will be recommended for a Standard Certification. Total 62 Contact Hours (Pre-Service 24 hours) (online 24 hours) (Post-Service 14 hours).

CNC MACHINE CONTROLS, FUNDAMENTALS
An introduction to G and M codes (RS274-D) necessary to program Computer Numerical Controlled (CNC) machines. Emphasis is placed on lathe and mill programming techniques and structures, CNC controller types and overall machine operation. Prerequisite: Basic Machine Shop (MCHNC 210380). This course also prepares the student to take the accredited NIMS exam for Machinist.

COMMERCIAL DRIVER’S LICENSE EXAM PREPARATION
Preparation for the federally mandated Commercial Driver’s License Examination. CDL Class "A". This course is a component of the preparation required for testing and issuance of a commercial driver’s license, Class A from the Texas Department of Public Safety.
COMMERCIAL DRIVER’S LICENSE WRITTEN SKILLS
Overview of the State of Texas Class A Commercial Driver’s License written test. In-depth coverage of general knowledge, air brakes, combination vehicle, doubles and triples, tankers, and hazardous materials. Includes preparation for mastery of the Commercial Driver’s License written examination.

COMMERCIAL WIRING
Commercial wiring methods. Includes overcurrent protection, raceway panel board installation, proper grounding techniques, and associated safety procedures. This course is linked to ELPT 1345. Prerequisite: ELPT 1325.

COMMUNICATION SKILLS FOR THE ESOL WORKFORCE PROFESSIONAL BASIC
Addresses essential listening, speaking, reading, writing, and computational skills required by business and industry. Improvement skills as well as study skills related to successful job performance. This foundational course is designed to introduce students to the basic structures of the English language with an emphasis on listening for content and oral communication skills in conversation at the workplace, school, business, or at any other common place. Students will practice their basic English language skills by participating in simple conversations on familiar topics. The instructor will teach students the use of very basic phrases to communicate. Pair, small group discussion activities, brief reading material and some basic writing tasks will reinforce classroom activities. The instructor will guide the students in the use of clear pronunciation, level-appropriate vocabulary and level-specific grammar usage.

COMMUNICATION SKILLS FOR THE ESOL WORKFORCE PROFESSIONAL I
Designed for students whose primary language is other than English. Presentation of industry-related basic reading, writing, speaking, and listening skills. Emphasis on high-frequency vocabulary and phonics; refining oral and written production and listening skills for enhanced job productivity; and increasing control of the English sound system. This course is designed to help students develop English language skills and strategies with an emphasis on listening for content and oral communication skills in basic conversation at the workplace, school, business, or at any other common place. Students will practice their English language skills by participating in simple conversations, discussions and short presentation on familiar topics. The instructor will teach students the use of very basic phrases to communicate. Pair, small group discussion activities, brief reading material and some basic writing tasks will reinforce classroom activities. The instructor will guide the students in the use of clear pronunciation, level-appropriate vocabulary and level-specific grammar usage.

COMMUNICATION SKILLS FOR THE ESOL WORKFORCE PROFESSIONAL II
Provides on-the-job dynamic communicative practice for students whose primary language is other than English and introduces students to the uses of language in a variety of relevant job-related contexts. In this course, the student continues to develop English language skills and strategies with an emphasis on listening to general, educational, and fictional work-related content and on speaking skills in conversation and possible discussions at the workplace, business, school and community. Students will practice their English language skills and active listening skills by preparing a short presentation on a topic of interest. The instructor will teach students the use of phrases to communicate effectively in possible work-related interactions, school or everyday life. Pair, small group discussion activities, reading materials and some writing tasks, will reinforce classroom activities. The instructor will guide the students in the use of clear pronunciation, level-appropriate vocabulary and level-specific grammar usage.

COMMUNICATION SKILLS FOR THE ESOL WORKFORCE PROFESSIONAL III
Improvement in reading, writing, speaking and listening skills for job success. Focus on recognition and comprehension of analogies, antonyms, synonyms, and context clues. Interpretation of factual material and inferences associated with job-related communication. In this course, the students continue to develop their English language skills and strategies for listening to general, educational, or adapted work-related content and for speaking in conversation and possible discussions at the workplace, business, school and community. Students will improve their fluency when using the English language and will gain confidence when conversing with English native speakers. The instructor will teach students the use of phrases and active listening skills to communicate in work-related interactions and common small talk. Pair, small group discussion activities, reading materials and some writing tasks, will reinforce classroom activities. The instructor will guide the students in the use of inference, clear pronunciation, level-appropriate vocabulary and level-specific grammar usage. Requisites: Online Placement Test or Communication Skills for the ESOL Workforce Professional II.
### Communication Skills for the ESOL Workforce Professional IV

Designed for students whose primary language is other than English. Emphasis on industry-related vocabulary development and skills acquisition, including determining meaning from context, identifying word forms and variation in meaning, synonyms and antonyms, connotation and denotation, and fact and opinion. In this course, the students continue to develop English language skills and strategies with an emphasis on listening to general or simple authentic school or work-related content and on speaking skills in discussions and presentations on a variety of topics at the workplace, business, school, and community. Students will practice their English language skills by delivering individual and group informative and/or persuasive presentations with a variety of evidence as support. The instructor will teach students how to paraphrase and summarize listening/reading materials and evaluate a speaker/writer’s reasoning and support. Pair, small group discussion activities, reading materials and some writing tasks, will reinforce classroom activities. The instructor will guide the students in the use of inference, clear pronunciation, level-appropriate vocabulary and level-specific grammar usage.

### Components of Special Education

An introduction to Special Education, emphasizing proven practices, making accommodations and delivery of individualized instruction tailored to the specific needs of individual students with disabilities. Students will also develop awareness, sensitivity, knowledge, skills and competence necessary to become a special educator. This course is required to meet the 300+ hours of coursework and training to be in compliance with the Texas Education Agency to be recommended for a Standard Certification.

### Concepts of Total Quality Control for Mechatronics

Principles and elements of total quality management.

### Concert Choir

Concert Choir is a large vocal ensemble performing large-scale sacred and secular works. In addition to local concerts, the group participates in campus activities. The Choir is open to students with vocal experience. A maximum of four credit hours may be earned. (5009035726) This course is linked to MUEN 1141. Prerequisite: College Level Readiness in Reading AND Writing

### Configuring Adv Windows Server

This course focuses on advanced configuration of services necessary to deploy, manage and maintain a Windows Server infrastructure, such as advanced networking services. Active Directory Domain Services (AD DS), Active Directory Rights Management Services (AD RMS), Active Directory Federation Services (AD FS), Network Load Balancing, Failover Clustering, business continuity and disaster recovery services as well as access and information provisioning and protection technologies such as Dynamic Access Control (DAC), and Web Application Proxy integration with AD FS and Workplace Join. This course is linked to ITMT 2373. Prerequisite: ITMT 2372

### Construction Methods & Materials I NCCER

This course develops a foundation for construction skilled construction trade training. It covers basic job site safety, identification and safe use of construction and hand tools and power tools, reading construction drawings, construction math, rigging equipment identification and the safe use of rigging equipment, and job site communication skills.

### CPR for Healthcare Provider

HeartCode BLS is an interactive self-directed eLearning program which completes the requirements for the American Heart Association BLS for Healthcare Providers course. Learners complete a computer-based cognitive portion consisting of lessons teaching the BLS algorithm; realistic adult and infant patient cases that test knowledge of the correct sequence of patient care activities and give the student a detailed debriefing of performance; and a multiple choice exam.

### Creating Successful Classrooms

This course will address components of successful classroom management and effective instructional methods. Students will learn strategies to create an effective and positive learning environment for all students. This course is required to meet the 300+ hours of coursework and training to be in compliance with the Texas Education Agency to be recommended for a Standard Certification.
**DENTAL ASSISTING I**
An expanded study of dental assisting techniques with emphasis on four-handed dentistry and utilization of armamentarium for general practice and specialty procedures. This course focuses on office procedures, communication skills, basic dental anatomy and instrumentation, basic equipment operation and maintenance, preparation of examination and treatment areas, infection control, safety issues and clinical dental radiology. Also, dental assisting techniques with emphasis on four-handed dentistry and utilization of tray setups for general practice and specialty procedures. Students are required to submit complete immunization records including Hepatitis B and TB results. This course is a component of the Dental Assisting Certificate that prepares for the TSBDE exam. Textbooks, supplies and uniform are not included in tuition.

**DENTAL ASSISTING II**
A study of pre-clinical chairside assisting procedures, instrumentation, OSHA and other regulatory agencies' standards. This course prepares the student to function competently and safely as a chairside dental assistant. Prerequisite: Dental Assisting I. Co-requisite: Dental Assisting Clinical, CPR and Registered Dental Assistant Exam & Review.

**DESIGNING EFFECTIVE WEBSITES**
Computer application and knowledge necessary to perform specific operations in a particular occupational setting. Varied design techniques to create a responsive website with inclusion of mobile platforms and delivery techniques.

**DRAFTING AND DESIGN TECHNOLOGY REVIT**
Topics address comprehensive architectural design, documentation and presentation using Revit Architecture 2 and 3 dimensional modeling. The primary emphasis will focus on the role of Building Information Modeling (BIM) in transferring building data throughout the building life cycle.

**DRAWING I**
A foundation studio course exploring drawing with emphasis on descriptive, expressive and conceptual approaches. Students will learn to see and interpret a variety of subjects while using diverse materials and techniques. Course work will facilitate a dialogue in which students will engage in critical analysis and begin to develop their understanding of drawing as a discipline. (5004015326) This course is linked to ARTS 1316.

**DRAWING II**
A studio course exploring drawing with continued emphasis on descriptive, expressive and conceptual approaches. Students will further develop the ability to see and interpret a variety of subjects while using diverse materials and techniques. Course work will facilitate a dialogue in which students will employ critical analysis to broaden their understanding of drawing as a discipline. (5007055226) This course is linked to ARTS 1317. Prerequisites: ARTS 1316; College Level Readiness in Reading AND Writing

**DRILLING/RIG FLOOR CORE SKILLS**
A study of practices and procedures drilling operations. Rig equipment, casing design, fishing, and proper procedures to successfully drill a well are discussed. Drilling, completion and workover processes are discussed.

**DRONE TRAINING**
Non-credit Fast Track program Industry requirements of flying a drone for business or employer. Earn a Sky Eye Drone Pilot Level 1 Certificate & ID Badge Earn a Lone Star College Noncredit Certificate Prepare for the FAA part 107 Remote Pilot Certificate. Industry training, without the need for core classes. This program is designed to prepare individuals to enter the fast-growing drone aviation industry and its many related service programs. Currently drones are being used in Agriculture, Construction, Delivery, Emergency Services, Engineering, Environmental monitoring and conservation, Inspection services, Media, Training, Wireless internet access, to name a few. With the growth of this industry the need for trained qualified individuals is growing daily to lead in those businesses in the growth of the many commercial applications that will have a positive impact, either on a business's bottom line or by making jobs safer. The program will also prepare you to take the separate FAA (Federal Aviation Administration) Part 107 Remote Pilot Certificate exam that’s necessary for the use of drones in any commercial or industrial support endeavors.
<table>
<thead>
<tr>
<th>Course Description</th>
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<tbody>
<tr>
<td><strong>EKG Tech Exam Review</strong></td>
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<tr>
<td>Review for the EKG Tech exam.</td>
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<tr>
<td><strong>Electrical Calculations I</strong></td>
</tr>
<tr>
<td>Introduction to mathematical applications utilized to solve problems in the electrical field. Topics include fractions, decimals, percentages, simple equations, ratio and proportion, unit conversions, and applied geometry. This course is linked to ELPT 1315.</td>
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<tr>
<td><strong>Electrical Safety and Tools, Introduction</strong></td>
</tr>
<tr>
<td>A comprehensive overview of safety rules and regulations and the selection, inspection, use and maintenance of common tools for electricians. This course is linked to ELPT 1321.</td>
</tr>
<tr>
<td><strong>Electrical Theory, Basic</strong></td>
</tr>
<tr>
<td>An overview of the theory and practice of electrical circuits including calculations as applied to alternating and direct current. This course is linked to ELPT 1311.</td>
</tr>
<tr>
<td><strong>Electrical/Electronics for Field Service Technicians</strong></td>
</tr>
<tr>
<td>A study of electricity and its use in a process control system and the production process. Topics include the conversion of electricity to mechanical, fluid, or thermal energy.</td>
</tr>
<tr>
<td><strong>Electrical/Electronics for Mechatronics</strong></td>
</tr>
<tr>
<td>A study of electricity and its use in a process control system and the production process. Topics include the conversion of electricity to mechanical, fluid, or thermal energy.</td>
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<tr>
<td><strong>Electrocardiography</strong></td>
</tr>
<tr>
<td>Fundamentals of cardiovascular anatomy and physiology. Includes basic electrocardiography procedures, interpretation of basic dysrhythmias, and appropriate treatment modalities. This continuing education course is an introduction to electrocardiography (ECG). This course is designed to prepare students to take a national certification. Students must also register for diagnostic electrocardiography, ECG clinical, professional liability insurance and exam. This course is a component of Electrocardiography Technician that prepares for American Certification Agency for Healthcare Professionals. This course will define the foundations of medical terminology, heart anatomy and physiology, basic EKG techniques, and infection control and safety.</td>
</tr>
<tr>
<td><strong>Electrocardiography Monitor Technician</strong></td>
</tr>
<tr>
<td>Fundamentals of cardiovascular anatomy and physiology. Includes basic electrocardiography procedures, interpretation of basic dysrhythmias, and appropriate treatment modalities. 6 hours of observation time TBA.</td>
</tr>
<tr>
<td><strong>Electrocardiography Technician Proctor Fee</strong></td>
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<tr>
<td>Three hour examination to achieve certification as an electrocardiogram technician consisting of both written and practical portions. Student must have successfully completed the college’s ECG Technician training program in order to sit for exam. Exam will be administered by an (ACA) American Certification Agency instructor. Student is also responsible for (ACA) American Certification Agency for Health Professionals examination fee. Prerequisites: Electrocardiography, Diagnostic Electrocardiography, Clinical-Cardiovascular Technology/Technologist.</td>
</tr>
<tr>
<td><strong>Electrocardiography, Diagnostic</strong></td>
</tr>
<tr>
<td>Cardiac testing including the techniques and interpretation of patient physical assessment. Covers electrocardiography, stress testing, Holter monitoring, vital signs, and cardiovascular pharmacology. This intermediate electrocardiography (ECG) course prepares students for more advanced cardiac testing. Prerequisite is Electrocardiography. This course is designed to prepare students to take a national certification. Students must also register for ECG clinical, professional liability insurance and exam.</td>
</tr>
</tbody>
</table>
**Enterprise Systems, Tools, Concepts, and Careers**

This seminar course provides an overview discussion of ERP emerging trends and projects. This can include a look at new ERP software tools, reviewing case studies on ERP implementation issues, discussion of “big data” generated by enterprise systems and data analytics tools, and a preview of career opportunities for those with an ERP skillset.

**ERP Business Process Integration with Simulation**

This seminar course emphasizes the integration of enterprise systems within an organization using a sequence of ERP simulation games. Students will compete as corporate teams to make common business decisions such as product lines, sales pricing, advertising, production levels, and distribution markets using one or more ERP simulation games (Distribution game, Manufacturing game, etc..) with the ultimate goal to see who will be the most profitable. The objective of these exercises is to show how a common ERP system is used by managers to carry out business decisions.

**ERP Configuration**

This is an advance level course that will focus on the implementation phase of enterprise (ERP) systems. Emphasis is on based on three key areas of: defining and assigning user organizational levels (company code, plant, storage location, etc..), defining master data requirements (chart of accounts, cost centers, customer master data, vendor master data, material master data), and implementation of business rules for each module of an enterprise system. Students will have a back end look of enterprise system and complete hands on exercises using the SAP IMG implementation tool where they will create the required organizational elements and master data, and then test out the configuration for each business process (FICO, production, sales, MRP, and IWM).

**ERP Program Capstone**

This capstone course in ERP systems leads students through the official SAP TERP10 (training in ERP for 10 days) certification course culminating in the SAP professional certification exam. Students will complete a rigorous curriculum that includes the integration of the complete supply chain and business process to include FICO, Purchasing, Manufacturing, Sales, MRP, Inventory & Warehouse Management, Enterprise Asset Management, Project Systems, and Business Intelligence. The knowledge base will include the integration of organizational levels, master data, business process, and reporting. After completion of this final course and exam students will be awarded an SAP Certification and will be ready for a career as an SAP implementation consultant.

**ESOL Advanced Listening and Speaking**

Develops listening and speaking skills in speakers of languages other than English and prepares them to function in educational, vocational and/or personal English-speaking contexts. This course carries institutional credit but will not transfer and will not be used to meet degree requirements. This course is linked to ESOL 0384. Prerequisite: ESOL 0383 or placement by testing.

**ESOL Career Transitions for ESOL Professionals**

This 16-hour workshop is designed for the ESOL student who has an education level higher than high school and/or some professional experience and is interested in exploring career paths in the U.S. The content of this course covers topics from credentials evaluation, immigration, career path exploration and career ready. The goal is to provide the ESOL student with practical knowledge about professional growth in the U.S. taking into account his/her own experience and knowledge.

**ESOL Grammar for Writing V**

Focuses on Standard English grammar usage for academic purposes. Open only to non-native speakers. This course carries institutional credit but will not transfer and will not be used to meet degree requirements. 3201085712 This course is linked to ESOL 0395. Prerequisite: ESOL 0394 or Placement by exam.

**ESOL Grammar I**

This course is designed to help students with very little English proficiency to understand and use basic English grammar correctly in both written and spoken communication. Students develop control of fundamental structures including basic tenses, parts of speech and simple sentences. This course carries institutional credit but will not transfer and will not be used to meet degree requirements. Prerequisite: Placement by exam. This course is linked to ESOL 0391.
ESOL Grammar II

This course continues to develop English grammar skills by providing extensive and varied practice that encourages growth in all areas of language use. Emphasis is placed on the use of verb tenses, modal verbs, nouns, adjectives and adverbs. This course carries institutional credit but will not transfer and will not be used to meet degree requirements. This course is linked to ESOL 0392. Prerequisite: ESOL 0391 or Placement by exam.

ESOL Grammar III

This course continues to develop the existing knowledge of grammatical structures and helps students to acquire new ones. Emphasis is placed on the complex verb tenses, passive voice, and compound sentences. This course will help students apply grammatical accuracy to their writing and speaking. This course carries institutional credit but will not transfer and will not be used to meet degree requirements. This course is linked to ESOL 0393. Prerequisite: ESOL 0392 or Placement by exam.

ESOL Grammar IV

Students continue the study of grammatical structures required for quality oral and written academic communication. They develop skills in understanding form, meaning and usage of complex grammatical structures including gerunds and infinitives, conditionals and complex sentences with noun, adjective and adverb clauses. This course carries institutional credit but will not transfer and will not be used to meet degree requirements. This course is linked to ESOL 0394. Prerequisite: ESOL 0393 or Placement by exam.

ESOL Language Skills Workshop

This course refines the use of communication skills necessary for personal, academic, and business communication. It incorporates negotiated student/instructor-generated content and accommodates individual goals in a workshop format. Open lab available. This course carries institutional credit but will not transfer and may not be used to meet degree requirements. This course is linked to ESOL 0308. Prerequisite: Placement by testing.

ESOL Oral Communication II

In this course English-language students increase proficiency in the spoken language necessary for basic personal, academic, and professional communication. Students communicate with a growing degree of fluency, using newly acquired vocabulary with some degree of accuracy, and master basic language functions. Students acquire and practice strategies for comprehending statements and short spoken passages. This course carries institutional credit but will not transfer and may not be used to meet degree requirements. This course is linked to ESOL 0382. Pre-requisite: ESOL 0381 or placement by testing.

ESOL Oral Communication III

This course continues to provide dynamic communicative practice for English-language students. Students increase their degree of fluency, accuracy, and comprehension in listening and speaking skills necessary for personal, academic, and professional communication. They develop skills at using functional language in a variety of relevant contexts. This course carries institutional credit but will not transfer and may not be used to meet degree requirements. This course is linked to ESOL 0383. Prerequisite: ESOL 0382 or placement by testing.

ESOL Reading I

In this course beginning English-language students develop basic reading and vocabulary skills. Materials are vocabulary-controlled and based on concrete topics. Students practice reading and comprehending simple short stories and articles, writing related sentences, and developing basic library skills. Focus is on literal comprehension and developing a personally relevant vocabulary base. Students who enroll in this course should have basic literacy skills in their native language and be familiar with Roman script. This course carries institutional credit but will not transfer and may not be used to meet degree requirements. This course is linked to ESOL 0361. Pre-requisite: Placement by testing.
ESOL Reading II
In this course English-language students continue to develop the reading and vocabulary skills necessary for personal, academic, and professional purposes using materials based on high interest topics. The course includes practice in reading and comprehending multi-paragraph descriptive and narrative articles, stories, reports, and dictionary entries. Focus is on literal comprehension, word analysis, vocabulary expansion, dictionary skills, and the use of library resources. Writing is required to complement varied reading activities. This course carries institutional credit but will not transfer and may not be used to meet degree requirements. This course is linked to ESOL 0362. Pre-requisite: placement by exam or ESOL 0361.

ESOL Reading III
This course continues to develop English-language students' reading and vocabulary skills for personal, academic and professional purposes using a wide variety of text types and topics. The course includes extensive practice in reading and comprehending multi-page articles, narratives, reports, editorials, opinion essays, and reference materials, and writing related responses. Focus is on interpretation of factual material, drawing inferences and conclusions, and paraphrasing and summarizing selected passages. Writing is required to complement reading activities. This course is linked to ENGL 0363. Prerequisites: ENGL 0362 or placement by exam.

ESOL Reading IV
Development of reading and higher order thinking skills necessary for college readiness. This course carries institutional credit but will not transfer and will not be used to meet degree requirements. This course is linked to ESOL 0364. Prerequisite: ESOL 0363 or placement by testing.

ESOL Writing I
In this course beginning English-language students develop, practice and apply the basic structures of English to perform simple writing tasks. Students who enroll in this course should have basic literacy skills in their native language and be familiar with Roman script. This course carries institutional credit but will not transfer and may not be used to meet degree requirements. This course is linked to ESOL 0371. Pre-requisite: placement by testing.

ESOL Writing II
In this course English-language students increase proficiency in the writing skills necessary for basic personal, academic, and professional communication. Students use process writing techniques to write simple paragraphs and gain mastery in the use of the basic structures of the language. This course carries institutional credit but will not transfer and may not be used to meet degree requirements. This course is linked to ESOL 0372. Pre-requisite: ESOL 0371 or placement by testing.

ESOL Writing III
This course continues to develop English-language students' writing skills for personal, academic and professional purposes. Students use more sophisticated grammar structures in writing well-developed paragraphs and/or essays using process writing techniques. This course carries institutional credit but will not transfer and may not be used to meet degree requirements. This course is linked to ESOL 0373. Pre-requisite: ESOL 0372 or placement by testing.

ESOL Writing IV
Development of college-level writing focusing on idea generation, drafting, organization, revision, and utilization of standard English. This course carries institutional credit but will not transfer and will not be used to meet degree requirements. This course is linked to ESOL 0374. Pre-requisites: ESOL 0373 or placement by testing.

ESSENTIALS OF MEDICAL TERMINOLOGY
Medical terminology related to sterile processing is unique. The course introduces the student to a broad range of terms related to health care with a focus on sterile processing.

EXCEL I
Instruction in terminology, program parameters, display characteristics, formatting features, mathematical functions, and printing. Create and modify workbooks, format worksheets, create and apply ranges, and create and print reports. Additional topics include using formulas, creating and modifying lines and objects. Prerequisite: Windows or equivalent knowledge.
**Excel II**
Instruction in moving and copying, cell contents; sorting mathematical, statistical, and financial functions; date and time arithmetic; report generation; and built-in graphics support; data and time arithmetic; report generation; and built-in graphics support. Create formulas to generate mathematical functions; create charts and produce reports. Prerequisite: Excel I.

**Exercise Science**
This course will include a survey of scientific principles, methodologies, and research as applied to exercise and physical fitness. Emphasis on physiological responses and adaptations to exercise. Topics include basic elements of kinesiology, biomechanics, motor learning, and the physical fitness industry. Co-requisite: FITTC 2103701, Personal Training.

**Film Appreciation**
Survey and analyze cinema including history, film techniques, production procedures, selected motion pictures and cinema's impact on and reflection of society. This course is linked to DRAM 2366.

**French I, Beginning**
This course includes beginner's pronunciation, oral practice, conversation, use of recordings for ear training, basic principles of grammar, simple exercises in composition, easy reading which includes cultural material. This course is linked to FREN 1411. Prerequisite: College Level Readiness in Reading AND Writing

**French II, Beginning**
A continuation of FREN 1411 with increased emphasis on comprehension, speaking, reading and writing. Intensive drills to increase vocabulary and knowledge of structure. This course is linked to FREN 1412. Prerequisite: FREN 1411 OR placement by exam; College Level Readiness in Reading AND Writing

**Fundamentals of Networking Technologies**
Instruction in networking technologies and their implementation. Topics include the OSI reference model, network protocols, transmission media, and networking hardware and software. This course is linked to ITNW 1325. Corequisite: ITSC 1301 or COSC 1301 or BCIS 1305 (for Business majors only)

**Gas Metal Arc Welding (GMAW)**
Principles of gas metal arc welding, setup and use of Gas Metal Arc Welding (GMAW) and Flux Cored Arc Welding (FCAW) equipment, and safe use of tools/equipment. Instruction in various joint designs. This course covers manipulative skills in welding techniques, applications, and theory. Knowledge and skills in Gas Metal Arc Welding and Flux Cored Arc Welding using mild steel; perform fillet welds in the flat, horizontal, vertical, and overhead positions. Students work independently in the welding booth under the guidance of an instructor to meet and/or exceed the competencies.

**Gas Tungsten Arc Welding (GTAW)**
Principles of gas tungsten arc welding (GTAW), including setup, GTAW equipment. Instruction in various positions and joint designs. This course covers advanced principles of welding with emphasis on special processes and special needs of students. The course is designed to familiarize students with the complexities of using the GTAW process. Each student will learn about different electrodes and the applications using various techniques to become knowledgeable in the welding process. Student purchases personal tools, supplies and workbook.

**GED Full Review**
Instruction in the content areas of the GED Test: Reasoning through Language Arts, Mathematics, Social Studies, and Science. A person must be 17 years of age to take this class. The GED test must be registered for separately.
GED REVISIÓN EN ESPAÑOL
La preparación en las cinco áreas del GED en Español examen: GED matemáticas, estudios sociales de GED, GED ciencia, comprensión de lectura de GED y escritura GED. La persona interesada en este curso, debe ser de 17 años de edad al registrarse.

GENERALIST TEACHER PREPARATION
The Generalist course prepares individuals to teach in early childhood through grade 8 classrooms in Texas. The course addresses the standards and competencies needed to pass the TExES EC-6 and/or 4-8 Generalist examinations, and provides students with the knowledge and skills associated with elementary curricular content and appropriate learning and assessment practices. This course is required to meet the 300+ hours of coursework and training to be in compliance with the Texas Education Agency to be recommended for a Standard Certification.

GERMAN I, BEGINNING
Beginner's pronunciation, oral practice and dictation. Conversation, use of recordings for ear training, basic principles of grammar, simple exercises in composition, easy reading which includes cultural material. This course is linked to GERM 1411. Prerequisite: College Level Readiness in Reading AND Writing

GOOGLE IT SUPPORT PROFESSIONAL CERTIFICATION
This five-course certificate, developed exclusively by Google, includes innovative curriculum designed to prepare you for an entry-level role in IT support. Through a dynamic mix of video lectures, quizzes, and hand-on labs and widgets, this certificate program will introduce you to troubleshooting and customer service, networking, operating systems, system administration, and security.

GROUP EXERCISE INSTRUCTION
A study of guided and sequential experiences for developing aerobic based group exercise leadership skills. Opportunities provided for students to practice these skills under a professional mentor in a group setting. The (ACE) American Council on Exercise Group Fitness Instructor certification is for individuals wanting to become fitness professionals teaching any form of exercise in a group setting.

HEALTH CARE MANAGEMENT IN OCCUPATIONAL THERAPY
Explores the roles of the occupational therapy assistant in health care delivery. Topics include documentation, reimbursement, credentialing, ethical standards, health care team role delineation, and management.

HEALTH OCCUPATIONS ORIENTATION
Health Occupations Orientation introduces students to the expectations of the health occupations program they have enrolled in and the career pathways available to them at Lone Star College.

HEALTH OCCUPATIONS PROFESSIONALISM
Develop entry-level skills for the workforce. Includes professionalism, interpersonal skills, communication, workplace civility, and employability skills. This course is a component of the Patient Care Tech Certification that prepares for National Center for Competency Exam.

HTML I, WEB SITE DEVELOPMENT
This course will focus on the use of the World Wide Web (WWW) and the creation of a home page. Web browsers and Hypertext Markup Language (HTML) are discussed. Plan the content, structure, and layout of a web site that you create using HTML. Includes tables, hot buttons, animations, and comparison of browsers. Prerequisite: Computer Fundamentals or equivalent knowledge.
**HTML II, WEBSITE DEVELOPMENT (ADVANCED)**

Instruction in more technical and in-depth uses of HTML and the internet in business and service-related opportunities. Application of styles to a website and introduction to CSS best practices, layout and techniques. Participants must have high school diploma or successful completion of the GED.

**HYDRAULICS**

Designed to give students the fundamental knowledge and skills required to work with hydraulic equipment. This course is supported by lab Volt equipment, giving students hands on experience with hydraulic equipment.

**IADC RigPass® PETROLEUM SAFETY AND ENVIRONMENTAL HAZARDS**

Various hazards associated with the petroleum industry.

**IADC WellSharp®**

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

**INFECTION CONTROL**

This course discusses the importance of preventing the spread of diseases as it relates to the sterile processing team. Topics include use of personal protective equipment, indirect and direct patient contact, modes of disease transmission, noncritical, semi critical and critical devices, bioburden, decontamination, disinfection, antisepsis, sterilization, storage, and instrument inspection. Fundamentals of safe reprocessing of surgical armamentarium for patient is the primary focus. Surgical related supplies and inventory case-cart systems are also introduced.

**INTEGRATED READING AND WRITING FOR ESOL**

Integration of critical reading and academic writing skills. The course fulfills TSI requirements for reading and/or writing. This course carries institutional credit but will not transfer and will not be used to meet degree requirements. This course is linked to ESOL 0310. Prerequisite: ESOL 0364 and ESOL 0374 or instructor approval or placement by exam.

**INTRO TO HUMAN BODY & DISEASE**

This course provides students with an overview of the major organ systems of the human body. The structure and function of each system is outlined. These systems include the integumentary, gastrointestinal, musculoskeletal, cardiovascular, genitourinary, neurological, special senses, and endocrine systems. Fundamental information about common diseases, the disease process and the immune system are introduced.

**INTRO TO INDUSTRIAL MAINTENANCE**

Basic mechanical skills and repair techniques common to most fields of industrial maintenance. Topics include precision measuring instruments and general safety rules common in industry, including lock-out/tag-out.

**INTRODUCTION TO CARPENTRY NCCER**

An introduction to the carpentry trade including safety, tools, equipment, terminology, and methods.

**INTRODUCTION TO COMPUTERS**

Overview of computer systems--hardware, operating systems, the Internet, and application software including word processing, spreadsheets, presentation graphics, and databases. Current topics such as the effect of computers on society, and the history and use of computers in business, educational, and other interdisciplinary settings are also studied. This course is not intended to count toward a student's major field of study in business or computer science. This course is linked to COSC 1301.
**INTRODUCTION TO ENTERPRISE SYSTEMS**
This course is an introduction to enterprise systems with a particular emphasis on SAP software. This includes the fundamentals of enterprise resource planning (ERP) systems concepts and the importance of how they are used within an organization. Students will have an applied curriculum that takes them through the following business processes: financial and cost accounting (FICO), production, sales, material planning, and inventory & warehouse management. Students will learn the front-end user perspective of each of these areas on the most current SAP system, and become comfortable with creating standard business documents such as general ledger postings, purchase orders, production orders, sales orders, and goods movements in and out of the warehouse.

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

**INTRODUCTION TO THE PLUMBING TRADE NCCER**
Material selection, mathematical calculations applicable to the plumbing trade, hand and power tools, and safety practices.

**IT ESSENTIALS**
IT Essentials curriculum provides an introduction to the computer hardware and software skills needed to help meet the growing demand for entry-level Information and Communications Technology (ICT) professionals. The curriculum covers the fundamentals of computer hardware and software as well as advanced concepts such as security, networking, and the responsibilities of an ICT professional. This course is linked to ITSC 1371. Co-requisites: COSC 1301 or ITSC 1301 or BCIS 1305 (for Business majors only).

**IT FOUNDATIONS**
This course is designed to expose students to fundamentals of Information Technology (IT) Service Management with knowledge/skills specific to (but not limited to): IT Service Management best practices, Process Management, Project Management, Customer Service, Understanding roles of Stakeholders, Owners, Champions, System Operators, Systems Administrators, Users and Service Desk. This course is linked to ITSC 1372. Co-requisites: COSC 1301 or ITSC 1301 or BCIS 1305 (for Business majors only).

**JAPANESE I, BEGINNING**
Beginner’s oral practice and dictation. Conversation, use of recordings for ear training, basic principles of grammar, simple exercises in composition, easy reading which includes cultural material. This course is linked to JAPN 1411. Prerequisite: College Level Readiness in Reading AND Writing

**JAPANESE II, BEGINNING**
A continuation of JAPN 1411 with increased emphasis on comprehension, speaking, reading and writing. Intensive drills to increase vocabulary and knowledge of structure. This course is linked to JAPN 1412. Prerequisite: JAPN 1411 or 2 years high school language in the preceding two years; College Level Readiness in Reading AND Writing.

**LEADERSHIP SKILLS FOR EXPERIENCED SUPERVISORS**
Supervisory tasks, leadership and motivational skills, communication processes, organizational design, and effective solution strategies. This course is designed to provide experienced supervisors with effective strategies for managing and developing their employees. The program builds on the required Management Skills for New Supervisors. Much of the program will be focused on developing team relationships, improving departmental and personal productivity, understanding profit and loss, and managerial skills expected of mid-level managers. Each module will also include a targeted Leadership piece. The Action Planning lesson will help participants create a plan for using what they have learned after they leave the course. Participants will learn and apply tips, tricks, and techniques that promote the company's core values. Prerequisites: Leadership Certificate Program: Level 1, or commiserate experience.
LEADERSHIP SKILLS FOR NEW SUPERVISOR
This course is designed to provide new and current supervisors with effective strategies for managing and developing their employees. Much of the program will be focused on developing positive working relationships, improved communication, and targeted employee improvement processes. It is also designed to help the supervisor identify his or her own strengths, attitudes, and leadership approach. Each module will include a targeted Leadership piece. The Action Planning lesson will help participants create a plan for using what they have learned after they leave the course. Participants will learn and apply tips, tricks, and techniques that promote the company's core values.

LEAN SIX SIGMA BLACK BELT CERTIFICATION
Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. Course was designed to be repeated multiple times to improve student proficiency. This course is designed to take Green Belts to the Black Belt level; this certification requires completing a capstone project, which gives you the opportunity to apply the knowledge and skills acquired to specific problems. As a Black Belt or Project Lead, you will master the skills necessary to lead a complex process improvement project that produces bottom line results. Format: Workshop/Online.

LEAN SIX SIGMA GREEN BELT CERTIFICATION
Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. The content blends the Lean process improvement tools with the problem-solving tools of Six Sigma following the DMAIC (Define, Measure, Analyze, Improve, and Control) model. Learn to play a major role in process improvement projects as a team member or leader of projects within your functional areas. This certification requires completing a capstone project, which gives you the opportunity to apply the knowledge and skills acquired to specific problems. As a Green Belt or Project Lead, you will master the skills necessary to lead a complex process improvement project that produces bottom line results. Format: Workshop/Online.

MACHINE SHOP MATHEMATICS
Designed to prepare the student with technical, applied mathematics necessary in future machine shop-related courses. This course is a component of the preparation for the Machinist Workforce Certificate as well as a component of the Master Machinist Certificate. This course is a component of the preparation for the national accredited NIMS Exam for Machinist.

MATH FOR WELDERS
Math skills applicable to welding occupations. Includes fraction and decimal manipulation, measurement, percentage, and problem solving techniques for equations and ratio/proportion applications. Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. Student purchases personal tools, supplies, and workbook. This course is designed as a component to prepare the student to take the American Welding Society Certification Exam.

MEDICAL TERMINOLOGY I
Study of medical terms through word origin and structure. Introduction to abbreviations and symbols, surgical and diagnostic procedures, and medical specialties. This course is a component of the Patient Care Tech Certification that prepares for National Center for Competency Exam.

MENTAL HEALTH IN OCCUPATIONAL THERAPY
Promotion of mental health and wellness through occupational therapy. Topics include theory and intervention strategies to enhance occupational performance.

MUSIC APPRECIATION
Understanding music through the study of cultural periods, major composers, and musical elements, illustrated with audio recordings and live performances. Course does not apply to a music major degree. This course is linked to MUSI 1306. Prerequisite: College Level Readiness in Reading AND Writing.
**MUSIC THEORY I**
The study of analysis and writing of tonal melody and diatonic harmony, including fundamental music concepts, scales, intervals, chords, 7th chords, and early four-part writing. Analysis of small compositional forms. Optional correlated study at the keyboard. Prerequisite: College Level Readiness in Reading AND Writing; Corequisite: MUSI 1116. This course is linked to MUSI 1311.

**MUSIC THEORY II**
Analysis and writing of tonal melody and diatonic harmony up to and including all diatonic chords and seventh chords in root position and inversions, non-chord tones and functional harmony. Introduction to more complex topics, such as modulation, may occur. Linked with MUSI 1312. Prerequisites: MUSI 1311 or MUSI 1211. Corequisite: MUSI 1117 (MUSIC 3101701).

**NATIONAL ELECTRICAL CODE I**
An introductory study of the National Electric Code (NEC) for those employed in fields requiring knowledge of the Code. Emphasis on wiring design, protection, methods, and materials; equipment for general use; and basic calculations. This course is linked to ELPT 1325. Prerequisite: ELPT 1311.

**NATIONAL ELECTRICAL CODE II**
In-depth coverage of the National Electrical Code (NEC) for those employed in fields requiring knowledge of the Code. Emphasis on wiring protection and methods, special conditions, and advanced calculations. This course is linked to ELPT 2325. Prerequisite ELPT 1325.

**NURSE AIDE FOR HEALTH CARE**
Knowledge, skills, and abilities essential to provide basic care to residents of long-term care facilities. Topics include resident's rights, communication, safety, observation, reporting and assisting residents in maintaining basic comfort and safety. Emphasis on effective interaction with members of the health care team. This course is a component of the Certified Nurse Aide Certification that prepares for Nurse Aide Competency Exam. The course explains the National Nurse Aide Assessment Program (NNAAP) Skills.

**NURSE AIDE, CERTIFIED**
Knowledge, skills, and abilities essential to provide basic care to residents of long-term care facilities. Topics include resident's rights, communication, safety, observation, reporting and assisting residents in maintaining basic comfort and safety. Emphasis on effective interaction with members of the health care team. This course is a component of the Certified Nurse Aide Certification that prepares for Nurse Aide Competency Exam. The course explains the National Nurse Aide Assessment Program (NNAAP) Skills.

**NURSE AIDE, CERTIFIED (CLINICAL)**
A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. This course is a component of the Certified Nurse Aide Certification that prepares for Nurse Aide Competency Exam. The course explains the National Nurse Aide Assessment Program (NNAAP) Skills in a long-term care facility. Student must also register for insurance and state exam proctor fee.

**NUTRITION**
Introduction to nutrients and the role of diet therapy in growth and development and in the maintenance of health and wellness for individuals, health, fitness and wellness professionals. Option for credentialing with various professional organizations.

**OCCUPATIONAL PERFORMANCE FOR ELDERS**
Occupational performance of elders. Includes frames of reference, evaluation tools and techniques, and intervention strategies.

**OCCUPATIONAL PERFORMANCE FROM BIRTH THROUGH ADOLESCENCE**
Occupational performance of newborns through adolescence. Includes frames of reference, evaluation tools and techniques, and intervention strategies.
# Occupational Therapy Practitioner Field
Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. This is a recertification course for students who currently hold a licensure for Occupational Therapy which has expired.

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

# Operation of CNC Machining Centers

# Operation of CNC Turning Centers

# Painting I
An introduction to various painting theories and techniques using oil and/or acrylics. (5007085226) This course is linked to ARTS 2316. Prerequisites: ARTS 1311 and ARTS 1316.

# Painting II
A continuation of Painting I, with an emphasis on individual expression. (5007085226) This course is linked to ARTS 2317. Prerequisites: ARTS 2316. College Level Readiness in Reading AND Writing.

# Payroll Accounting I
Focus on payroll and associated records, including time and record keeping, actual payroll, and quarterly and annual reports.

# Payroll Accounting II
Continuation of Payroll Accounting I. Focus on payroll and associated records, including time and record keeping, actual payroll, and quarterly and annual reports.

# Pedagogy and Professional Responsibilities (PPR)
Students will learn to design developmentally appropriate classroom instruction and assessment; create a positive, productive learning environment; manage a classroom in a way that encourages cooperation and self-discipline; and apply technology applications as part of the instructional process. This course requires 30 hours of external field-based experience in K-12 schools. This course is required to meet the 300+ hours of coursework and training to be in compliance with the Texas Education Agency to be recommended for a Standard Certification.

# Percussion Ensemble
This course involves the study and performance of music compositions for small percussion groups. It is recommended for music majors whose performing medium is percussion. Open to other qualified students by approval of department. A maximum of four credit hours may be earned. (5009035626) This course is linked to MUEN 1134. Prerequisite: College Level Readiness in Reading AND Writing

# Personal Training
A study of the aspects of one-on-one training including marketing, program development, legal aspects, documentation, training methodologies, and business considerations. Emphasis on the development of safe and enjoyable individualized training sessions. This course is a component of the program that prepares for the National Academy of Sports Medicine.
PHLEBOTOMY
Skill development in the performance of a variety of blood collection methods using proper techniques and universal precautions. Includes vacuum collection devices, syringes, capillary skin puncture, butterfly needles and blood culture, and specimen collection on adults, children, and infants. Emphasis on infection prevention, proper patient identification, labeling of specimens and quality assurance, specimen handling, processing, and accessioning. Topics include professionalism, ethics, and medical terminology. This course is a component of the program that prepares for the ASCP Certification. This course will define and measure competencies of the following described which are required by ASCP; circulatory system, laboratory operations, non-blood specimens, point-of-care testing, specimen collection, and specimen processing and handling.

PHLEBOTOMY CLINICAL FOR PATIENT CARE TECHNICIAN
Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. For Patient Care Tech students.

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

PHOTOSHOP I FOR WEB
Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. Course content with focused modules on Copyright Law and licensing considerations, web graphic formats, image layers and blending, image export and delivery. Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student in web design and web development.

PHOTOSHOP II FOR WEB
Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. Course content with focused modules on typographical design, vector drawing techniques, advanced filtering and creating a professional web gallery. Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student in web design and web development.

PHYSICAL FUNCTION IN OCCUPATIONAL THERAPY
Physical function to promote occupational performance. Includes frames of reference, evaluative tools, intervention strategies, and consumer education.

PIANO CLASS I
Beginning class instruction in the fundamentals of keyboard technique. This course is linked to MUSI 1181.

PIANO CLASS II
Advanced beginning class instruction in the fundamentals of keyboard technique. This course is linked to MUSI 1182.

PIANO CLASS IV
Advanced class instruction of keyboard technique. This course is linked to MUSI 2182.

PIPE WELDING
This course covers pipe welding techniques and applications. Student purchases personal tools, supplies and workbook.
Lone Star College Continuing Education Non-Credit Course Descriptions

**PMP Certification Exam Preparation**
Methods for planning and controlling projects. Includes project management concepts and models, critical path, analysis of time/cost benefits, and resource utilization. If you have work-related experience, this class is for you. We will help you hone your expertise to a razor sharp edge during our comprehensive review of the ten major project management subject areas from the PMBOK® 5th Edition. This course prepares you to take the Project Management Professional (PMP®) exam and satisfies the 35-contact hour requirement needed to qualify to take the PMP® exam. Structure: Environment: Seminar/Classroom/ Workshop/Online. Three days of classroom instruction followed by two days of online practice questions and comprehensive feedback (at your own pace). Includes a new Amazon Kindle, lunch and refreshments.

**Pop Singers I**
The Pop Singers specialize in performing contemporary popular music, including music of radio, TV, motion picture, and Broadway. Some choreography and staging may be involved. A maximum of four credit hours may be earned. This course is linked to MUEN 1154.

**Professional Truck Driver I**
Overview of the State of Texas Class A Commercial Driver’s License written test. Includes presentation for mastery of the Commercial Driver’s License written examination, general truck driving skills with hands-on component, and instruction coordinated with the Department of Transportation. This course provides the trainee with the basic knowledge and skills test which includes pre-trip inspection, basic control skills test, straight line backing, parallel parking and alley docking. The purpose of the Commercial Driver’s license is to certify basic skills in actually operating a commercial vehicle. Day and weekend classes are available. For further information on how to register, please call 281-765-7750. Student support specialists will help you complete registration information.

**Professional Truck Driver II**
A continuation of Professional Truck Driver I. General truck driving with hands-on skill development and instruction coordinated with the Department of Transportation. This course provides the trainee with the basic knowledge and skills test which includes pre-trip inspection, basic control skills test, driving. The purpose of the Commercial Driver’s License is to certify basic skills in actually operating a commercial vehicle. Day and weekend classes are available. For further information on how to register, please call 281.765.7750. Student support specialists will help you complete registration information. Commercial Driver’s License Written Skills, Professional Truck Driver I, Professional Truck Driver II, and Commercial Driver’s License Exam Preparation must be taken concurrently.

**Professional Truck Driver: Classroom**
This course is for students in the Stevens Transport Truck Driving Program only. The course is designed to prepare participants to obtain a Commercial Permit License (CPL). Overview of the State of Texas Class A Commercial Driver’s License written test. Includes preparation for mastery of the Commercial Driver’s License written examination, general truck driving skills with hands-on component, and instruction coordinated with the Department of Transportation.

**Professional Truck Driver: Road Skills**
A continuation of Professional Truck Driver I. General truck driving with hands-on skill development and instruction coordinated with the Department of Transportation. This course is for students in the Stevens Transport Truck Driving Program only. A continuation of Professional Truck Driver: Theory. The course is designed to prepare participants to obtain a Commercial Driver’s License (CDL). General truck driving with hands-on skill development and instruction coordinated with the Department of Transportation. Includes behind-the-wheel driving time on a practice range and on public roads.

**Programmable Logic Controllers**
Basic hardware and software applications for industrial Programmable Logic Controllers (PLC). Includes power supplies, discrete Input/Output (IO) modules, programming devices, processors, basic logic elements, timers, and counters. This course teaches participants about programmable logic controllers (PLCs) and how they are used in industrial environments. Participants will learn about PLC theory, installation, operation, maintenance, and troubleshooting. PLC hardware with external equipment.
**PROGRAMMABLE LOGIC CONTROLLERS FOR MECHATRONICS**

Basic hardware and software applications for industrial Programmable Logic Controllers (PLC). Includes power supplies, discrete Input/Output (IO) modules, programming devices, processors, basic logic elements, timers, and counters.

**PROJECT MANAGEMENT SOFTWARE**

Use of project management software for developing a project plan including timelines, milestones, scheduling, life cycle phases, management frameworks, skills, processes, and tools. This course is linked to ITSC 1315.

**PRONUNCIATION IMPROVEMENT FOR THE ESOL WORKFORCE AND PROFESSIONAL**

Designed to be repeated with varying content. Skill development in pronunciation and use of job-related vocabulary. Includes non-verbal communication techniques. This course is designed for the non-native English-speaking student who wants to improve his/her pronunciation skills in English. In order to improve students' ability to understand and be understood when using the English language, various aspects of pronunciation will be covered in this course. Topics covered include English sounds, syllables, rhythm, intonation, linking, and practice with oral comprehension. Students will be equipped with techniques to use on their own and keep improving their pronunciation, understanding, and communication skills.

**QUICKBOOKS I**

Set up accounts; record and process basic transactions, journal entries, accounts receivable and payable; and generate fundamental business reports. Additional topics include cost accounting, budget controls, and year-end reporting. Prerequisites: Windows or equivalent knowledge and Office Accounting or equivalent experience.

**QUICKBOOKS II**

Enhance your skills using advanced features in accounts receivable, transactions, invoicing, adjustments, and security features. Topics include advanced report verification and generation. Prerequisite: QuickBooks I or equivalent experience.

**REFRIGERATION PRINCIPLES NCCER**

An introduction to the refrigeration cycle, heat transfer theory, temperature/pressure relationship, refrigerant handling, refrigeration components, and safety.

**RESIDENTIAL WIRING**

Wiring methods for single family and multi-family dwellings. Includes load calculations, service entrance sizing, proper grounding techniques, and associated safety procedures. This course is linked to ELPT 1329. Prerequisites: ELPT 1325.

**SCAFFOLDING NCCER**

Elevated work situations including ladders, rigging, scaffolding, work platforms, and aerial lifts. Also covers personal protective equipment. This course develops a foundation for construction skilled construction trade training. It covers basic job site safety, identification and safe use of construction and hand tools and power tools, reading construction drawings, construction math, rigging equipment identification and the safe use of rigging equipment, and job site communication skills. This course prepares trainees to perform safely on the job site, with information on tools and equipment they will use in the industry, as well as discussion of stationary, mobile, and suspension scaffolds. Math needed to perform on the job is also included.

**SEO: ANALYTICS AND TRACKING**

Students develop skill set to survey search engines and indexes using tools including Google, Woopra and others. Develop SEO best practices. Topics address recently identified current events, skills, knowledges, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. Participants must have high school diploma or successful completion of the GED.
SHIELDED METAL ARC WELDING (SMAW)
An introduction to the shielded metal arc welding process. Emphasis placed on power sources, electrode selection, oxy-fuel cutting, and various joint designs. Instruction provided in SMAW fillet welds in various positions. Students will develop knowledge and skills in the welding process; safety and health, use and care of hand tools, and five essentials of shielded metal arc, strike and control the arc, run a straight bead in the flat position, complete a series of beads, and restart a continuous bead and fill the crater; perform fillet welds in the flat, horizontal, vertical, and overhead positions; discuss electrode selection, power sources, and safety. Students work independently in the welding booth under the guidance of an instructor to meet and/or exceed the competencies. Break test may be used. Student purchases personal tools, supplies and workbook.

SIGHT SINGING AND EAR TRAINING I
Singing tonal music in treble and bass clefs, and aural study of elements of music, such as scales, intervals and chords, and dictation of basic rhythm, melody and diatonic harmony. This course is linked to MUSI 1116. Corequisite: MUSI 1311

SIGHT SINGING AND EAR TRAINING II
Singing tonal music in treble, bass, alto, and tenor clefs. Aural study, including dictation, of rhythm, melody, and diatonic harmony. A continuation of MUSI 1116. Prerequisites: MUSI 1116. (MUSIC 3101601). Linked to MUSI 1117. Corequisite MUSI 1312. (MUSIC 3101201).

SOLIDWORKS I
Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. Learn the basics of user interface, how to model objects, simple assemblies, and creating technical drawings.

SOLIDWORKS II
Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. Learn to develop the skills more and get into complex assembly, difficult modeling concepts, and the creation of fully functional production drawings. Learn how to make solid models, how to make assemblies, and how to make technical drawings, when a student has these skills, they can learn all other aspects of the program as well.

SPECIAL TOPICS IN COMPUTER SYSTEMS AND NETWORKING AND TELECOMMUNICATIONS
Academy Cloud Architecting covers the fundamentals of building IT infrastructure on Amazon Web Services. The course is designed to teach solutions architects how to optimize the use of the AWS Cloud by understanding AWS services and how these services fit into cloud-based solutions. This course emphasizes best practices for the AWS Cloud, and it recommends various design patterns to help you think through the process of architecting optimal IT solutions on AWS. Upon successful completion of the AWS Cloud Architecting course, students get access to vouchers for a free practice exam and discounted exam voucher for the AWS Certified Solutions Architect Associate.

Module 1: Welcome to Cloud Architecting
Module 2: Designing Your Environment
Module 3: Designing for High Availability I
Module 4: Designing for High Availability II
Module 5: Automating Your Infrastructure
Module 6: Decoupling Your Infrastructure
Module 7: Designing Web-Scale Media
Module 8-13: Well-Architected Framework
Module 14: Troubleshooting
Module 15: Design Patterns and Sample Architecture
### SPECIAL TOPIC: IN DRAFTING DESIGN TECH
Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. This course is for the SolidWorks user who is already familiar with the SOLIDWORKS program and is also more CAD literate, who wants to expand their knowledge of the different features that SOLIDWORKS has to offer. The class will cover SOLIDWORKS tools and techniques and expands on Solids, Surfaces, Multibodies, Configurations, Drawings, Sheet Metal and Assemblies. This class will help students to prepare for the Certified Solid Works Associate exam. Textbook required.

### STRING ENSEMBLE
This course involves the study and performances of music compositions for small string groups. It is recommended for music majors whose principle performing medium is the violin, viola, or cello. A maximum of four credit hours may be earned. (5009035626) This course is linked to MUEN 1131.

### SUBSTITUTE TEACHER
An exploration of the role of the substitute, identification of student needs, behavior modification and classroom management, teaching methodologies, school personnel relationships, mandated state standards, and growth and development of students. NOTE: Before registering for this class, please check with your local school district to find out the requirements for working as a substitute teacher in that district. Some districts require a minimum number of college credit hours. This course may be used to complete the Substitute Teaching Certification along with taking the Tools for Teaching class. Book required.

### TCP INTERNSHIP EXTENSION
This fee is charged to individuals who have not completed all requirements of their internship and who must extend their internship and the mentoring relationship for one more semester.

### TCP INTERNSHIP I
This course is designed for post-baccalaureate individuals who have been accepted into the Alternative Teacher Certification Program with the Lone Star College System and have been hired as the teacher of record by a school accredited through the Texas Education Agency. The intern will learn the fundamentals of providing feedback to students, as well as understanding instructional strategies that support a well-managed classroom. The intern will learn experimentally in the classroom and will be supported and coached by a supervisor assigned by the college. The course is designed to demonstrate learner-centered instruction regardless of individual differences among students. This course is required to meet the 300+ hours of coursework and training to be in compliance with the Texas Education Agency to be recommended for a Standard Certification.

### TCP INTERNSHIP II
This course is designed for post-baccalaureate individuals who have been accepted into the Alternative Teacher Certification Program with the Lone Star College System and have been hired as the teacher of record by a school accredited through the Texas Education Agency. The intern will learn the fundamentals of providing feedback to students, as well as understanding instructional strategies that support a well-managed classroom. The intern will learn experimentally in the classroom and will be supported and coached by a supervisor assigned by the college. The course is designed to demonstrate learner-centered instruction regardless of individual differences among students. This course is required to meet the 300+ hours of coursework and training to be in compliance with the Texas Education Agency to be recommended for a Standard Certification.

### TECHNICAL CUSTOMER SERVICE
Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. This course covers general principles of customer service within a technical environment. Participants will learn topics which internal/external customer relationships, time-management, best practices, and verbal and non-verbal communication skills.
**TEXES ESL/Bilingual Review Session**

Preparation of teachers to test for the supplemental exam in English As a Second Language or Bilingual Supplemental. Teachers will learn competencies required by the State of Texas for the certifications and review for the State TEExES exam.

**TEXES Review: Generalist 4-8**

The TEExES review course is an overview of the standards and competencies needed to pass the TEExES examination. The course provides students with preparation training at the appropriate grade and content levels.

**TEXES Review: Generalist EC-6**

The TEExES review course is an overview of the standards and competencies needed to pass the TEExES examination. The course provides students with preparation training at the appropriate grade and content levels.

**TEXES Review: Math**

The TEExES review course is an overview of the standards and competencies needed to pass the TEExES examination. The course provides students with preparation training at the appropriate grade and content levels.

**TEXES Review: PPR EC-12**

The TEExES review course is an overview of the standards and competencies needed to pass the TEExES examination. The course provides students with preparation training at the appropriate grade and content levels. This course is required to meet the 300+ hours of coursework and training to be in compliance with the Texas Education Agency to be recommended for a Standard Certification.

**TEXES Review: Special Education**

The TEExES review course is an overview of the standards and competencies needed to pass the TEExES examination. The course provides students with preparation training at the appropriate grade and content levels.

**Theatre Appreciation**

Survey of theatre including its history, dramatic works, stage techniques, production procedures, and relation to other art forms. This course is linked to DRAM 1310.

**Theatre, Practicum**

This course is open to all students interested in theatrical production and is recommended for all students participating in productions. Credit is earned for technical work (costuming, lighting, set construction, publicity and makeup), performance work, or other participation as designated by departmental faculty. This course is linked to DRAM 1120, 1121, 2120, and 2121. Prerequisite: College Level Readiness in Reading AND Writing

**Tools for Teaching Module**

The Tools for Teaching module will address specific strategies on how to deal with disruptive classroom behavior. The design and strategies in the module were developed by Dr. Fred Jones. The tools presented prepare teachers for designing their classroom to minimize discipline problems and maximize instruction. These tools will help promote confidence and effective teaching. This course may be used to complete the Substitute Teaching Certification along with taking the Substitute Teacher Training.

**Troubleshooting Skills/Technical**

A study of the techniques used in troubleshooting various types of industrial equipment to include mechanical, electrical, hydraulic, and pneumatic systems and their control devices.
**WordPress I**

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. Identifying the factors for a data driven site with CMS vs. a Static Site including review of all the options of WordPress, Joomla and Drupal. Recognizing the components and practical usage of WordPress.

**WordPress II**

This course includes extending knowledge of WordPress I into advanced practices with PHP, MySQL and jQuery. Course modules vary from embedding PHP in HTML, adding dynamic content to web, learning how to employ variables and conditional logic. Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. Participants must have high school diploma or successful completion of the GED.

**Work Skills for the Workplace**

Develop entry-level skills for the workforce. Includes professionalism, interpersonal skills, communication, workplace civility, and employability (resume/interview) skills.

**Workplace Microbiology**

A study of the identification and growth of microorganisms as pathogenic or non-pathogenic agents including epidemiology. Includes the detection of microbes and control of infectious agents in the workplace emphasizing sanitation and asepsis. Designed for students with a passing grade of at least a C in Medical Microbiology (BIOL 2420).

**Writing, Creative**

Practical experience in the techniques of imaginative writing. May include fiction, nonfiction, poetry, screenwriting, or drama. This course is linked to ENGL 2307. Prerequisite: College Level Readiness in Reading AND Writing

**Yoga I**

This introductory course offers practice in basic Yoga. Students study history and basic terms along with philosophical and physiological principles and the movements of Yoga. This course is linked to PHED 1128.