

CAREER & TECHNICAL EDUCATION

09777 AC/DC ELECTRONICS, 1 credit

GPA Level: Regular

Grade Level(s): 9-12 Service ID: 13036800

Prerequisite(s): None

Endorsement/Career Cluster: B & I or STEM / STEM

Students will demonstrate knowledge and applications of circuits, electronic measurement, and electronic implementation. Through use of the design process, students will transfer academic skills to component designs in a project-based environment. Students will use a variety of computer hardware and software applications to complete assignments and projects. Additionally, students will explore career opportunities, employer expectations, and educational needs in the electronics industry.

09740 ACCOUNTING I - GCM Only, 1 credit

GPA Level: Regular

Grade Level(s): 10-12 Service ID: 13016600

Prerequisite(s): Principles of Business, Marketing, and Finance

Endorsement/Career Cluster: Business & Industry/ Business, Marketing & Finance

This course introduces the basic principles of accounting theory and practice. Primary areas of study include special journals, the accounting cycle, preparing payroll records, recording sales and cash receipts, debit and credit theory, and preparation of financial statements. This course will give students a basic understanding of applications of accounting and will prepare them for advanced accounting courses in high school and college.

09741 ACCOUNTING II - GCM Only, 1 credit

GPA Level: Regular

Grade Level(s): 11-12 Service ID: 13016700

Prerequisite(s): Accounting I

Endorsement/Career Cluster: Business & Industry/Business, Marketing & Finance, Advanced CTE Credit

Industry Certifications: QuickBooks

This course is a more in-depth study of the theories and principles of accounting. More emphasis is placed on the accounting cycle, accounting for sole owners, partnerships, and corporations. It will also focus on depreciation, taxes, cost accounting, and payroll. Recommended for students who plan to major in accounting or business in college and/or seek entry level office jobs upon graduation.

19707 ADVANCED FLORAL DESIGN - GCM Only, 1 credit

GPA Level: Regular

Grade Level(s): 10-12 Service ID: N1300270

Prerequisite(s): Floral Design

Endorsement/Career Cluster: Business & Industry or STEM/Ag, Food, & Natural Resources, Advanced CTE Credit

Industry Certifications: Texas State Floral Association

In Advanced Floral Design, students gain advanced knowledge and skills specifically needed to enter the workforce as floral designers or as freelance floral event designers, with an emphasis on specialty designs and occasion-specific designs and planning. Students are also prepared to enter postsecondary certification or degree programs in floral design or special events design. Students build on the knowledge base from Principles and Elements of Floral Design and are introduced to more advanced floral design concepts. In addition, students gain knowledge of the design elements and planning techniques used to produce unique specialty floral designs that support the goals and objectives of an occasion or event.

A \$30 course fee will be assessed each semester.

CAREER & TECHNICAL EDUCATION

09702 ADVANCED ANIMAL SCIENCE, 1 credit

GPA Level: Regular

Grade Level(s): 11-12

Service ID: 13000700

Science Credit

Prerequisite(s): **Equine Science, Livestock Production, or Small Animal Management, & Biology, Chemistry or IPC, & Algebra I & Geometry**

Endorsement/Career Cluster: Business & Industry or STEM/Ag, Food, & Natural Resources, Advanced CTE Credit

Students will develop and investigate the scientific and technological dimensions of scientific animal agriculture, genetics and reproduction, anatomy and physiology of various livestock species, nutritional requirements, and disease and parasites of livestock. This class is recommended for those students with an interest in Veterinary Science.

19715 AGRICULTURAL EQUIPMENT DESIGN & FABRICATION, 1 credit

GPA Level: Regular

Grade Level(s): 11-12

Service ID: 13002350

Prerequisite(s): **Agricultural Structure Design & Fabrication**

Endorsement/Career Cluster: Business & Industry or STEM/Ag, Food & Natural Resources, Advanced CTE Credit

In Agricultural Equipment Design and Fabrication, students will acquire knowledge and skills related to the design and fabrication of agricultural equipment.

09705 AGRICULTURAL MECHANICS & METAL TECHNOLOGIES, 1 credit

GPA Level: Regular

Grade Level(s): 10-12

Service ID: 13002200

Prerequisite(s): **None**

Endorsement/Career Cluster: Business & Industry or STEM/ Ag, Food, & Natural Resources

Industry Certification: NCCER Core

This course is designed to introduce basic theory and specialized skill in agricultural fabrication. Skills to be developed include tool identification and safe use, carpentry, electricity, plumbing, masonry, fencing, painting metal working and welding processes.

09714 AGRICULTURAL STRUCTURES DESIGN & FABRICATION, 1 credit

GPA Level: Regular

Grade Level(s): 11-12

Service ID: 13002300

Prerequisite(s): **Agricultural Mechanics & Metal Fabrication**

Endorsement/Career Cluster: Business & Industry or STEM/Ag, Food, & Natural Resources, Advanced CTE Credit

Industry Certification: NCCER Core

To be prepared for career in mechanized agricultural systems, the student will demonstrate principles of facilities design and design and fabrication related to agricultural structures. This class is designed as a project-based class in which students design and fabricate agriculture structures and buildings (ex. Trailer systems, basic farm projects).

08833 ANATOMY & PHYSIOLOGY, 1 credit

GPA Level: Regular

Grade Level(s): 11-12

Service ID: 13020600

Science Credit

Prerequisite(s): **Biology and a Second Science**

Endorsement/Career Cluster: Public Services or STEM/Health Science, Advanced CTE Credit

Anatomy and Physiology studies the human body from two aspects. First, students will learn proper anatomical terminology and location of body parts. Second, students will study the function of each system from the cellular level through tissues and the organs involved. During this course of study, students will use microscopes, dissecting tools and basic chemistry to study the workings of the organs, tissues and cells of the human body. This course is a great college prep class for any student interested in furthering their education in the field of medicine.

CAREER & TECHNICAL EDUCATION

01773 AP COMPUTER SCIENCE A, 1

GPA Level: Advanced Placement

Grade Level(s): 11-12

Service ID: A3580110

Satisfies 4th Math Credit
Satisfies Technology Credit

Prerequisite(s): Computer Science I

Endorsement/Career Cluster: Business and Industry or STEM / STEM

AP Computer Science A introduces students to computer science through programming. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language.

01774 AP COMPUTER SCIENCE PRINCIPLES, 1 Credit

GPA Level: Advanced Placement

Grade Level(s): 10-12

Service ID: A3580300

Satisfies Technology Requirement

Prerequisite(s): Algebra I (Note: AP Computer Science course builds upon a foundation of mathematical reasoning that should be acquired before attempting such a course.)

Endorsement/Career Cluster: Business and Industry or STEM / STEM

AP Computer Science Principles is an introductory college-level computing course that introduces students to the breadth of the field of computer science. Students learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They incorporate abstraction into programs and use data to discover new knowledge. Students also explain how computing innovations and computing systems work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical.

SCIT 1414 APPLIED GENERAL CHEMISTRY, ½ credit

GPA Level: Dual Credit

Grade Level(s): 9-12

Service ID: 13037200

Prerequisite(s): ENRD 401 or equivalent, MATH 310/MABR 310 or equivalent

Applications of general chemistry emphasizing industry related laboratory skills and competencies including laboratory safety and report writing. Addresses supporting chemical theories including atomic and molecular structure, nomenclature, chemical reactivity, gas laws, acids and bases, and solutions.

SCIT 1418 APPLIED PHYSICS, ½ credit

GPA Level: Dual Credit

Grade Level(s): 11-12

Service ID: 13037210

Prerequisite(s): ENRD 401 or equivalent; MATH 310 or equivalent

Introduction to physics for industrial applications including vectors, motion, mechanics, simple machines, matter, heat, and thermodynamics.

H09789 BANKING AND FINANCIAL SERVICES (Global Business Academy), .5 Credit

GPA Level: Honors

Grade Level(s): 10-12

Service ID: 13016300

Prerequisite(s): Principles of Business, Marketing and Finance

Endorsement/Career Cluster: Business and Industry / Business, Marketing and Finance

Banking and Financial Services introduces students to the specializations offered in the career field. Students will obtain fundamental knowledge and skills in accounting, banking services, corporate finance, insurance, and securities and investments. They will acquire knowledge of financial analysis and application, business law and ethics, economics, and international business, and business relationships. Knowledge management and information technology will be emphasized. Employability skills, leadership, and communications will be incorporated in classroom activities.

H09796 BIOMEDICAL INNOVATION (PLTW) (RSS), 1 credit

GPA Level: Honors

Grade Level(s): 12

Service ID: N1302095

Prerequisite(s): Medical Interventions

Endorsement/Career Cluster: Public Service or STEM/STEM, Advanced CTE Credit

In the final course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology.

CAREER & TECHNICAL EDUCATION

SPCH 1321 BUS. & PROF. SPEECH (PROFESSIONAL COMMUNICATIONS), ½ credit

GPA Level: Dual Credit

Grade Level(s): 11-12

Service ID: 13009900

Prerequisite(s): **Meet Dual Credit Requirements & See Lee College's Course Catalog**

Endorsement/Career Cluster: Business & Industry/Arts, A/V Technology & Communications

Business and Professional Communication applies the techniques of oral communication to business and professional settings that people might encounter in business situations. Discussion and practical application include methods and theory, problem-solving, research, organization, and presentation of speeches, trends in media and interviewing.

BCIS 1305 BUSINESS COMPUTER APPL. (BUSI INF MGMT), ½ credit

GPA Level: Dual Credit

Grade Level(s): 10-12

Service ID: 13011400

Satisfies Technology Requirement

Prerequisite(s): **Meet Dual Credit Requirements & See Lee College's Course Catalog**

This course discusses computer terminology, hardware, software, operating systems, and information systems relating to the business environment. The main focus of this course is on business applications of software, including word processing spreadsheets, databases, presentation graphics, and business-oriented utilization of the Internet.

09731 BUSINESS INFORMATION MANAGEMENT I, 1 credit

GPA Level: Regular

Grade Level(s): 9-12

Service ID: 13011400

Satisfies Technology Requirement

Prerequisite(s): **None**

Industry Certification: Microsoft Office Specialist

This course develops technology skills with applications to personal, college, and business situations focusing on the Microsoft Office Suite – Word, Excel, PowerPoint, and Access. In addition, students gain knowledge of telecommunications, desktop publishing, presentation management, and emerging technologies. Skills are developed in order to prepare students for the MOS (Microsoft Office Specialist) certification exams.

09732 BUSINESS INFORMATION MANAGEMENT II, 1 credit

GPA Level: Regular

Grade Level(s): 10-12

Service ID: 13011500

Satisfies Technology Requirement

Prerequisite(s): **Business Information Management I**

Industry Certification: Microsoft Office Expert

This rigorous, fast-paced course builds on technology skills developed in Business Information Management with applications to personal, college, and business situations focusing on the Microsoft Office Suite – Word, Excel, PowerPoint, and Access with the intent of earning industry certifications. In addition, students gain knowledge of desktop publishing, presentation management, and emerging technologies. Skills are developed in order to prepare students for the MOS (Microsoft Office Specialist) certification exam.

19734 BUSINESS LAW, 1 credit

GPA Level: Regular

Grade Level(s): 10-12

Service ID: 13011700

Prerequisite(s): **None**

Endorsement/Career Cluster: Business & Industry/Business, Marketing & Finance

Students analyze the evolution and development of laws that govern business in our society. Students apply technical skills to address business applications of contemporary legal issues and analyze the social responsibility of business and industry.

09733 BUSINESS MANAGEMENT, 1 credit

GPA Level: Regular

Grade Level(s): 11-12

Service ID: 13012100

Prerequisite(s): **Business Law or Accounting I**

Endorsement/Career Cluster: Business & Industry/Business, Marketing & Finance, Advanced CTE Credit

Students will study the legal, managerial, financial, ethical, and international dimensions of business to make appropriate management decisions.

CAREER & TECHNICAL EDUCATION

09775 CAREER PREPARATION I, 3 credits

GPA Level: Regular

Grade Level(s): 11-12 Service ID: 12701305

Prerequisite(s): **Social Security Card or Work Permit; Paid Employment of 15+ hours/week; Transportation; 16 years old**

In this class students will have an opportunity to earn high school credit for the job they already have! Students will work at a local business and apply job-specific skills while learning job interview techniques, communication skills, human relation skills, financial and budget planning, and portfolio development during one class period. Students may have up to 2 classes of release time to go to work each afternoon, but must have their own transportation to leave campus.

09776 CAREER PREPARATION II, 3 credits

GPA Level: Regular

Grade Level(s): 12 Service ID: 12701405

Prerequisite(s): **Social Security Card or Work Permit; Paid Employment of 15+ hours/week; Transportation; 16 years old**

In this class students will have an opportunity to earn high school credit for the job they already have! Students will work at a local business and apply job-specific skills while learning job interview techniques, communication skills, human relation skills, financial and budget planning, and portfolio development during one class period. Students may have up to 2 classes of release time to go to work each afternoon, but must have their own transportation to leave campus.

09748 CHILD DEVELOPMENT, 1 credit

GPA Level: Regular

Grade Level(s): 10-12 Service ID: 13024700

Prerequisite(s): None

Endorsement/Career Cluster: Public Services/Human Services

Students will learn how, when, and why children do what they do. Topics covered include pregnancy and prenatal care, heredity vs. environment, the process of labor & delivery, newborn care and mothering a newborn, growth and development of toddlers, preschoolers, and school-age children, keeping kids safe and healthy, child abuse and careers in child developmental fields. Students will have the opportunity to experience the "Real Baby Program" in which students will "parent" a mechanical baby along with the "empathy belly", which simulates pregnancy.

PHYS 1401 COLLEGE PHYS I: MECHANICS & HEAT (SC RES. & DESIGN I), ½ credit

GPA Level: Dual Credit

Grade Level(s): 11-12 Service ID: 13037220

Science Credit

Prerequisite(s): **Algebra II or concurrent enrollment, BIO, CHEM, IPC, PHY.; Meet Dual Credit Requirements & See Lee College's Course Catalog**

Study of principles and applications of concepts in mechanics, energy, heat, wave motion, and sound. Students must complete an individual project with a high school mentor and present their findings to a panel of professionals to earn high school credit.

PHYS 1402 COLLEGE PHYS II: SOUND, ELEC, ETC. (SC. RES. & DESIGN I), .5 credit

GPA Level: Dual Credit

Grade Level(s): 11-12 Service ID: 13037220

Science Credit

Prerequisite(s): **Physics 1401, BIO, CHEM, IPC, PHY; Meet Dual Credit Requirements & See Lee College's Course Catalog**

Study of principles and applications of concepts in electricity and magnetism, geometric and physical optics, and modern physics.

09800 COMMERCIAL PHOTOGRAPHY I, 1 credit

GPA Level: Regular

Grade Level(s): 10-12 Service ID: 13009100

Prerequisite(s): None

Endorsement/Career Cluster: Business & Industry/ Arts, A/V Technology, & Comm.

Introduction to commercial digital photography. This course will cover basic concepts for purchasing a digital camera, image capture, image editing, and image output. This course enables students to use and understand all the skills and techniques required to advance in the Arts, AV & Communications fields.

29757 COMPUTER Science I, 1 credit

GPA Level: Regular

Grade Level(s): 10-12 Service ID: 03580200

Satisfies Technology Requirement

Prerequisite(s): **Fundamentals of Computer Science & Algebra I**

Endorsement/Career Cluster: Business & Industry or STEM/STEM

Computer science involves the understanding of programming language concepts and how they are applied in problem solving. This course also covers problem solving, computer architecture, and programming concepts. This knowledge helps students understand how software is written and increases the student's ability to learn application software through the understanding of the basic concepts.

CAREER & TECHNICAL EDUCATION

29758 COMPUTER SCIENCE II, 1 credit

GPA Level: Regular

Grade Level(s): 11-12

Service ID: 03580300

Satisfies Technology Credit

Prerequisite(s): Computer Science I

Endorsement/Career Cluster: Business & Industry or STEM/STEM, Advanced CTE Credit

Computer Science II is a programming course designed to teach students the concepts needed to be successful in the computer science / software design industry. They will create and maintain large scale projects by applying the following skills/concepts: debugging, analysis and expansion of existing programs, abstract datatypes, mouse and keyboard input, file processing, audio processing and advanced graphics (2D and 3D). Students will learn to use more than just one language. They will be able to determine which language is best for solving various problems.

29759 COMPUTER SCIENCE III, 1 Credit

GPA Level: Regular

Grade Level(s): 11-12

Service ID: 03580350

Satisfies Technology Requirement

Prerequisite(s): Computer Science II or Advanced Placement (AP) Computer Science A

Endorsement/Career Cluster: Business and Industry or STEM / STEM

Computer Science III will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results.

19720 CONSTRUCTION TECHNOLOGY I, 2 credit

GPA Level: Regular

Grade Level(s): 10-12

Service ID: 13005100

Prerequisite(s): Principles of Construction

Endorsement/Career Cluster: Business & Industry/Architecture & Construction

Industry Certification: NCCER Core and NCCER Construction Technology

In Construction Technology I, students will gain knowledge and skills needed to enter the workforce as carpenters or building maintenance technicians or to prepare for a postsecondary degree in construction management, architecture, or engineering. Students will acquire knowledge and skills in safety, tool usage, building materials, codes, and framing.

19004 CONSTRUCTION TECHNOLOGY II, 2 credits

GPA Level: Regular

Grade Level(s): 11-12

Service ID: 13005200

Prerequisite(s): Construction Technology I

Endorsement/Career Cluster: Business & Industry/ Architecture & Construction, Advanced CTE Credit

Industry Certification: NCCER Core and NCCER Construction Technology Level 1

In Construction Technology II, students will gain advanced knowledge and skills needed to enter the workforce as carpenters, building maintenance technicians or to prepare for a postsecondary degree in construction management, architecture, or engineering. Students will build on the knowledge base from Construction Technology I and are introduced to exterior and interior finish out skills.

09755 DIGITAL MEDIA, 1 credit

GPA Level: Regular

Grade Level(s): 10-12

Service ID: 13027800

Satisfies Technolgy Requirement

Prerequisite(s): None

Endorsement/Career Cluster: Business & Industry/Arts, A/V Technology, & Comm.

Are you creative? Do you like photo editing and drawing? Do you want to learn how to combine media applications to create real-world projects and prepare for a future in business? In this "hands-on" course, students will build on their basic computer skills using Adobe Suite designing and editing software to produce a variety of documents such as brochures, programs, flyers, posters, and magazine covers. Students will produce exciting projects that require using the latest industry led software programs and creating original design which will prepare them for the future.

CAREER & TECHNICAL EDUCATION

H19778 ENGINEER YOUR WORLD-EDPS (REL STEM ACADEMY ONLY), 1 credit

GPA Level: Honors

Grade Level(s): 11-12

Service ID: 13037300

Science Credit

Prerequisite(s): **Geometry & Algebra I**

Endorsement/Career Cluster: B & I or STEM/STEM, Advanced CTE

Developed by a team of University of Texas faculty, NASA engineers, and secondary teachers working with funding from the National Science Foundation, *Engineer Your World* is an innovative, student-centered curriculum that engages learners in authentic engineering experiences and inspires them to embrace an engineer's habits of mind. Collaborative, student-directed projects build resilient problem-solving skills and empower students to think like engineers, to adopt engineering processes, and to pursue engineering disciplines for the betterment of our world.

H09787 ENGINEERING DESIGN & DEVELOPMENT - EDP1 (PLTW), 1 credit

GPA Level: Honors

Grade Level(s): 12

Service ID: 13036500

Prerequisite(s): **Environmental Sustainability or Computer Integrated Manufacturing**

Endorsement/Career Cluster: B & I or STEM / STEM, Advanced CTE Credit

The knowledge and skills students acquire throughout this Project Lead The Way Engineering come together in EDD as they identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards, completing EDD ready to take on any post-secondary program or career.

09778 ENGINEERING DESIGN & PROBLEM SOLVING, 1 credit

GPA Level: Regular

Grade Level(s): 11-12

Service ID: 13037300

Science Credit

Prerequisite(s): **Geometry & Algebra I**

Endorsement/Career Cluster: B & I or STEM/STEM, Advanced CTE

Are you interested in modern technology and engineering? This yearlong course focuses on the fundamentals of modern engineering and technology. Students will apply math, science and technology to engineering problems as well as develop computer skills. Students will be part of teams that work together to complete engineering projects. The engineering examples utilized in this course are based on representations of mechanical engineering, civil engineering, electrical engineering, aerospace engineering, and many other disciplines within the field of engineering. Upon completion of the course, students will have an understanding of how engineers design and build new technologies using math, science and ingenuity. Students unfamiliar with engineering will be exposed to a variety of career opportunities in related fields.

09780 ENGINEERING SCIENCE-(PLTW) PRINCIPLES OF ENGINEERING, 1 credit

GPA Level: Regular

Grade Level(s): 11-12

Service ID: 13037500

Science Credit

Prerequisite(s): **Introduction to Engineering Design, Algebra I, Biology, Chemistry, IPC or Physics**

Endorsement/Career Cluster: B & I or STEM/STEM, Advanced CTE Credit

In this Project Lead the Way course, through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

09774 ENTREPRENEURSHIP, 1 credit

GPA Level: Regular

Grade Level(s): 10-12

Service ID: 13034400

Prerequisite(s): **Introduction to Culinary Arts**

Endorsement/Career Cluster: Business & Industry/Business, Marketing & Finance

Students will gain the knowledge and skills needed to become an entrepreneur in the hospitality industry. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students understand the capital required, the return on investment desired, and the potential for profit.

A one-time Food Handler Course fee of \$15.00 and a \$20.00 fee will be assessed.

CAREER & TECHNICAL EDUCATION

ENVR 1401 ENVIRONMENTAL SCIENCE I (SC RESEARCH & DESIGN I), ½ credit

GPA Level: Dual Credit

Grade Level(s): 11-12

Service ID: 13037200

Science Credit

Prerequisite(s): **Biology, Chem, IPC or PHY; Meet Dual Credit Requirements & See Lee College's Course Catalog**

The goal of the Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. The student will also study the diversity of life and the evidence for evolution through natural selection. Students must complete an individual project with a high school mentor and present their findings to a panel of professionals to earn high school credit

ENVR 1402 ENVIRONMENTAL SCIENCE II (SC RESEARCH & DESIGN I), ½ credit

GPA Level: Dual Credit

Grade Level(s): 11-12

Service ID: 13037200

Science Credit

Prerequisite(s): **ENVR 1401, BIO, CHEM, IPC, PHY; Meet Dual Credit Requirements & See Lee College's Course Catalog**

The goal of the Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. The student will also study the diversity of life and the evidence for evolution through natural selection. Students must complete an individual project with a high school mentor and present their findings to a panel of professionals to earn high school credit.

H09792 ENVIRONMENTAL SUSTAINABILITY (PLTW), 1 credit

GPA Level: Honors

Grade Level(s): 10-12

Service ID: N1303747

Prerequisite(s): **Introduction to Engineering Design or Principles of Applied Engineering**

Endorsement/Career Cluster: B & I or STEM / STEM, Advanced CTE Credit

In Environmental Sustainability, students investigate and design solutions in response to real-world challenges related to clean and abundant drinking water, food supply, and renewable energy. Applying their knowledge through hands-on activities and simulations, students research and design potential solutions to these true-to-life challenges.

09706 EQUINE SCIENCE, ½ credit

GPA Level: Regular

Grade Level(s): 10-12

Service ID: 13000500

Prerequisite(s): **None**

Endorsement/Career Cluster: Business & Industry or STEM/Ag, Food, & Natural Resources

This course is designed to develop knowledge and skills pertaining to the selection, nutrition, reproduction, health and management of horses, donkeys and mules. This course is recommended for those who have an interest in the Veterinary Science field.

09728 FASHION DESIGN I RSS & GCM ONLY, 1 credit

GPA Level: Regular

Grade Level(s): 10-12

Service ID: 13009300

Prerequisite(s): **None**

Endorsement/ Career Cluster Business & Industry/ Arts, AV Technology & Communications

This course will focus on fashion designers and current fashion trends. By the end of the course, students will learn basic sewing skills and use the sewing machine to create personal clothing and home décor. Careers in fashion span all aspects of the textile and apparel industries. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of fashion and the textile and apparel industries.

CAREER & TECHNICAL EDUCATION

19728 FASHION DESIGN II RSS & GCM ONLY, 1 credit

GPA Level: Regular

Grade Level(s): 11-12 Service ID: 13009400

Prerequisite(s): Fashion Design I

Endorsement/ Career Cluster Business & Industry/ Arts, A/V Technology & Communications, Advanced CTE Credit

This course builds on the fashion knowledge and skills learned in Fashion Design I. Careers in fashion span all aspects of the textile and apparel industries. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an understanding of the fashion industry with an emphasis on design and construction.

A course fee of \$15 will be assessed.

H19738 FINANCIAL ANALYSIS (Global Business Academy), 1 Credit

GPA Level: Honors

Grade Level(s): 11-12 Service ID: 13016800

Prerequisite(s): Accounting I

Endorsement/Career Cluster: Business and Industry / Business, Marketing and Finance

Through multiple projects, students make connections between accounting, with an emphasis on cash flow, and finance, with an emphasis on decision-making. Students acquire an understanding of financial statements, calculate financial ratios, and make business decisions based on their interpretation of those financial statements and ratios. In addition, students determine business-financing options, as well as develop an appreciation for types of financial service providers and financial markets. Decision matrices are employed to aid in financial planning.

H09707 FLORAL DESIGN, 1 credit

GPA Level: Regular

Grade Level(s): 9-12 Service ID: 13001800

Satisfies Fine Arts Requirement

Prerequisite(s): None

Endorsement/Career Cluster: Business & Industry or STEM/Ag, Food, & Natural Resources

This course is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design and horticultural systems as well as develop an understanding of the management of floral business and other career opportunities. Skills in the design and arrangement of flowers, foliage and related plant materials which includes designs for homecoming, weddings and other special event arrangements are emphasized.

A fee of \$20.00 will be assessed each semester.

09700 FOOD SCIENCE, 1 credit

GPA Level: Regular

Grade Level(s): 11-12 Service ID: 13023000

Science Credit

Prerequisite(s): 3 Units of Science Including Chemistry & Biology

Elective Only

Food Science is the study of the nature of foods, the causes of deterioration, the principles underlying food processing, and the improvement of foods for the consuming public. Students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem-solving.

A \$20.00 fee will be assessed.

09795 FORENSIC SCIENCE, 1 credit

GPA Level: Regular

Grade Level(s): 11-12 Service ID: 13029500

Science Credit

Prerequisite(s): Biology and Chemistry

Endorsement/Career Cluster: Public Service/Law, Public Services

Have you ever wondered how DNA connects a killer to a crime scene? In this course, students will learn forensic terminology and investigation procedures related to crime scenes. Students will also learn how to collect and analyze evidence, fingerprints, ballistic, blood spatters, toxicology and tire prints. This is a "hands-on" course for any student interested in law enforcement with a great deal of time spent in the field.

CAREER & TECHNICAL EDUCATION

29700 FUNDAMENTALS OF COMPUTER SCIENCE, 1 Credit

GPA Level: Regular

Grade Level(s): 9-12

Service ID: 03580140

Prerequisite(s): None

Endorsement/Career Cluster: Business and Industry or STEM / STEM

Fundamentals of Computer Science is intended as a first course for those students just beginning the study of computer science. Students will learn about the computing tools that are used every day. Students will foster their creativity and innovation through opportunities to design, implement, and present solutions to real-world problems. Students will collaborate and use computer science concepts to access, analyze, and evaluate information needed to solve problems. Students will learn the problem-solving and reasoning skills that are the foundation of computer science.

BIOL 1406 GENERAL BIOLOGY I (SCIENTIFIC RESEARCH & DESIGN I), ½ credit

GPA Level: Dual Credit

Grade Level(s): 11-12

Service ID: 13037200

Science Credit

Prerequisite(s): **Biology, Chem, IPC or PHY, & See Lee College Course Catalog**

The student will study and describe the characteristics of life, identify basic requirements of life, structures of microorganisms, enzymes, viruses, cell membranes, genetic problems, and the synthesis and regulation of nucleic acids and proteins. The student will also study the diversity of life and the evidence for evolution through natural selection. Students must complete an individual project with a high school mentor and present their findings to a panel of professionals to earn high school credit.

BIOL 1407 GENERAL BIOLOGY II (SCIENTIFIC RESEARCH & DESIGN I), ½ credit

GPA Level: Dual Credit

Grade Level(s): 11-12

Service ID: 13037200

Science Credit

Prerequisite(s): **Biology 1406, Chem, IPC or PHY; Meet Dual Credit Requirements & See Lee College's Course Catalog**

The student will study modern evolutionary synthesis, natural selection, population genetics, micro and macroevolution, and speciation. This course will also cover, phylogenetic relationships, classifications schemes, major phyla, physiology and homeostasis maintained by organ systems, sexual and asexual life cycles, and geologic changes, extinctions, and evolutionary trends. Students must complete an individual project with a high school mentor and present their findings to a panel of professionals to earn high school credit.

CHEM 1411 GENERAL CHEMISTRY I (SCIENTIFIC RESEARCH & DESIGN I), ½ credit

GPA Level: Dual Credit

Grade Level(s): 11-12

Service ID: 13037210

Science Credit

Prerequisite(s): **Algebra II or concurrent enrollment, Bio, Chem, IPC, or PHY; Meet Dual Credit Requirements & See Lee College's Course Catalog**

The study of fundamental concepts and laws underlying chemistry, including states of matter. Atomic structure, periodic table, chemical bonding, chemical reactions, solutions, gas laws, properties of solids and liquids, qualitative and quantitative analysis including instrumental methods.

CHEM 1412 GENERAL CHEMISTRY II (SCIENTIFIC RESEARCH & DESIGN I), ½ credit

GPA Level: Dual Credit

Grade Level(s): 11-12

Service ID: 13037210

Science Credit

Prerequisite(s): **Chem 1411, Bio, Chem, IPC or PHY**

A continuation of CHEM 1411. Study of equilibrium, oxidation-reduction reactions, electrochemistry, chemical thermodynamics, chemical kinetics, solutions, solubility of salts, acids and bases, properties of elements in the qualitative analysis of common cations and anions, and quantitative analysis including instrumental methods.

19009 GRAPHIC DESIGN & ILLUSTRATION 1 (YEARBOOK I), 1 credit

GPA Level: Regular

Grade Level(s): 10-12

Service ID: 13008800

Prerequisite(s): **Digital Media**

Endorsement/Career Cluster: Business & Industry/Arts A/V Technology & Communications

Do you like to take pictures and go to school events? Would like to put your stamp on something that will be seen by your friends and the whole school for generations to come? If you have what it takes, join the yearbook staff! Yearbook students will learn and apply the journalistic writing, editing, graphic design, desktop publishing, advertising and marketing skills required to produce a high school yearbook and/or digital newspaper as well as learn about careers directly related to Graphic Design. The yearbook staff has a unique opportunity to get a behind the scenes look at the school events, sports, clubs and organizations that make up the high school experience. This course requires a commitment to work routinely after school to meet deadlines, to promote the publication, and to cover extracurricular events.

CAREER & TECHNICAL EDUCATION

39009 GRAPHIC DESIGN & ILLUSTRATION II (YEARBOOK II), 2 credits

GPA Level: Regular

Grade Level(s): 11-12 Service ID: 13008910

Prerequisite(s): **Graphic Design & Illustration I (Yearbook I)**

Endorsement/Career Cluster: Business & Industry/AV, Arts & Communications, Advanced CTE Credit

Students will perfect the skills they learned in Yearbook I to take a leadership position on the Yearbook Staff. Elements of staff and publication management, supervisory skills, financial and production planning, and printing and imaging techniques are introduced. This course further develops skills in news judgment, fact gathering, journalistic writing, headline writing, caption writing, photography, layout, editing, advertising and marketing a product. Yearbook II students compete in local and state competitions. This course requires a commitment to work routinely after school to meet deadlines, to promote the publication, and to cover extracurricular events.

29003 HEALTH SCIENCE THEORY/HEALTH SCIENCE CLINICAL, 2 credits

GPA Level: Regular

Grade Level(s): 11-12 Service ID: 13020410

Satisfies Health Requirement

Prerequisite(s): **Course Application; Biology & Principles of Health Science**

Endorsement/Career Cluster: Public Service or STEM/Health Science, Advanced CTE Credit

The Health Science Clinical course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will employ hands-on experiences for continued knowledge and skill development. The student is expected to comply with specific industry standards related to safety and substance abuse and model industry expectations of professional conduct such as attendance, punctuality, personal appearance, hygiene, and time management. Students must be able to job shadow independently in medical environments.

Enrollment is limited and students are required to obtain vaccinations, flu shot, and drug testing (if required), to participate in this course. Course costs will vary based on course requirements. Approximate cost of uniform \$50.00.

BIOL 2401 HUMAN ANATOMY & PHYS I (ANAT & PHYS), ½ credit

GPA Level: Dual Credit

Grade Level(s): 11-12 Service ID: 13020600

Science Credit

Prerequisite(s): **Biology and a 2nd Science; Meet Dual Credit Requirements & See Lee College's Course Catalog**

Endorsement/Career Cluster: Public Service or STEM/Health Science/Adv. CTE Credit

This course consists of the fundamentals of human anatomy and physiology with the emphasis on etiology and functions of anatomical systems. Laboratory includes dissection of a mammal, study of selected mammalian organs, histological studies, and physiological experiments.

BIOL 2402 HUMAN ANATOMY & PHYS II (ANAT & PHYS), ½ credit

GPA Level: Dual Credit

Grade Level(s): 11-12 Service ID: 13020600

Science Credit

Prerequisite(s): **BIOL and a 2nd Science; Meet Dual Credit Requirements & See Lee College's Course Catalog**

Endorsement/Career Cluster: Public Service or STEM/Health Science ADV. CTE Credit

This course consists of the fundamentals of human anatomy and physiology with the emphasis on etiology and functions of anatomical systems. Laboratory includes dissection of a mammal, study of selected mammalian organs, histological studies, and physiological experiments.

H09793 HUMAN BODY SYSTEMS (PLTW) (RSS), 1 credit

GPA Level: Honors

Grade Level(s): 10-12 Service ID: N1302093

Satisfies Health Requirement

Prerequisite(s): **Principles of Biomedical Science**

Endorsement/Career Cluster: Public Service or STEM/Health Science

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.

CAREER & TECHNICAL EDUCATION

09737 INSTRUCTIONAL PRACTICES, 2 credits

GPA Level: Regular

Grade Level(s): 11-12 Service ID: 13014400

Prerequisite(s): **Course Application and Principles of Education and Training**

Endorsement/Career Cluster: Public Services/Education & Training, Advanced CTE Credit

Students investigate teaching as a career by learning about the areas of teaching as a profession, communicating effectively, and creating an effective learning environment. They will apply skills as they rotate through different local Goose Creek CISD schools. Other topics covered during the school year include understanding the learner and the learning process, planning effective instruction and developing technology skills. Students enrolled in the course must pass a criminal history check to participate and be required to join Educators Rising, a student organization for aspiring teachers.

ITSC 1309 INTEG. SOFTWARE APPLIC I (BUS INF MGMT II), ½ credit

GPA Level: Dual Credit

Grade Level(s): 10-12 Service ID: 13011500

Satisfies Technology Requirement

Prerequisite(s): **Meet Dual Credit Requirements & See Lee College's Course Catalog**

This Lee College course is an introduction to business productivity software suites using word processing, spreadsheets, databases, and/or presentation software. This course may not transfer to universities.

17001 INTRODUCTION TO CULINARY ARTS, 1 credit

GPA Level: Regular

Grade Level(s): 9-12 Service ID: 13022550

Prerequisite(s): None

Endorsement/Career Cluster: Business & Industry/Hospitality & Tourism

Industry Certification: ServSafe Food Handler

Introduction to Culinary Arts will emphasize the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. The course will provide insight into the operation of a well-run restaurant. Introduction to Culinary Arts will provide insight into food production skills, various levels of industry management, and hospitality skills. This is an entry-level course for students interested in pursuing a career in the food service industry. This course is offered as a classroom and laboratory-based course.

A one-time Food Handler Course fee of \$15.00 and a \$20.00 fee will be assessed.

H09877 INTRODUCTION TO ENGINEERING DESIGN (PLTW), 1 credit

GPA Level: Honors

Grade Level(s): 9-12 Service ID: N1303742

Prerequisite(s): None

Endorsement/Career Cluster: B & I or STEM/STEM

In this Project Lead the Way course, students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and use an engineering notebook to document their work.

09764 LAW ENFORCEMENT I, 1 credit

GPA Level: Regular

Grade Level(s): 10-12 Service ID: 13029300

Prerequisite(s): **Principles of Law, Public Safety, Corrections, and Security**

Endorsement/Career Cluster: Public Service / Law & Public Services

Students will be involved in the study of law enforcement philosophies and practices. In addition, students will study juvenile offenders, drug abusers, and various types of criminal offenders. Field trips include college campuses tours, and criminal courts. Topics and activities in this course include felony traffic stops, handcuffing procedures, and general practices. This is an excellent course for students interested in law enforcement.

09765 LAW ENFORCEMENT II, 1 credit

GPA Level: Regular

Grade Level(s): 11-12 Service ID: 13029400

Prerequisite(s): **Law Enforcement I**

Endorsement/Career Cluster: Public Service/Law & Public Services, Advanced CTE Credit

Law Enforcement II provides the knowledge and skills necessary to prepare for a career in law enforcement. This course includes the ethical and legal responsibilities, operation of police and emergency telecommunication equipment, and courtroom testimony.

CAREER & TECHNICAL EDUCATION

09749 LIFETIME NUTRITION AND WELLNESS, ½ credit

GPA Level: Regular

Grade Level(s): 9-12 Service ID: 13024500

Prerequisite(s): None

Elective Only

Everyone wants to eat healthy these days. Learn how to eat healthy and how to get the look you want. Students will learn about planning a nutritious meal on a budget, food safety, and food handling and food storage. Students will also get to prepare and eat a few healthy snacks. Sign up for lifetime nutrition and wellness and learn how to care for your body and how to achieve lifelong wellness.

19712 LIVESTOCK PRODUCTION, 1 credit

GPA Level: Regular

Grade Level(s): 10-12 Service ID: 13000300

Prerequisite(s): Any AFNR Course

Endorsement/Career Cluster: Business & Industry or STEM/Ag, Food, & Natural Resources, Advanced CTE Credit

This course introduces the common veterinary skills and procedures used on livestock, anatomy of livestock, genetics and reproduction, and diseases that can affect all livestock animals. This course is recommended for students who have an interest in the Veterinary Science field.

H09773 MEDICAL INTERVENTIONS (PLTW) (RSS), 1 credit

GPA Level: Honors

Grade Level(s): 11-12 Service ID: N1302094

Prerequisite(s): Human Body Systems

Endorsement/Career Cluster: Public Service or STEM/Health Science/Advanced CTE credit

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

19742 MEDICAL TERMINOLOGY, 1

GPA Level: Regular

Grade Level(s): 10-12 Service ID: 13020300

Satisfies Technology Credit

Prerequisite(s): None

Endorsement/Career Cluster: Public Service or STEM / Health Science

Medical terminology is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, singular and plural forms, and medical abbreviations. Students develop the extensive medical vocabulary that will help them to succeed in healthcare occupations by comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology and pathophysiology. Students will also develop technology and workplace skills by using word-processing software, spreadsheets and creating presentations.

19739 MONEY MATTERS, 1 credit

GPA Level: Regular

Grade Level(s): 9-12 Service ID: 13016200

Prerequisite(s): None

Endorsement/Career Cluster: Business & Industry/Business, Marketing & Finance

Students will investigate how financial matters affect the past, present and future conditions of their lives and the world around them. They will learn how to set and achieve financial goals through savings, tax preparation, stocks and bonds, risk management, retirement planning, and estate planning.

19759 ONRAMPS COMPUTER SCIENCE I A, .5 Credit

GPA Level:

Grade Level(s): 9-12 Service ID: 03580200

Satisfies Technology Requirement

Prerequisite(s): Algebra I and(Algebra II preferred)

OnRamps Computer Science teaches a set of core ideas that shapes the landscape of computer science and its impact on our society. In addition to learning about the magic and beauty of computing, students will acquire essential Texas College and Career Readiness skills, applying critical thinking, problem solving, and communication within a project-based learning framework.

CAREER & TECHNICAL EDUCATION

COMP 1302 ONRAMPS COMPUTER SCIENCE IB, .5

GPA Level: Dual Credit

Grade Level(s): 9-12

Service ID: 03580220

Satisfies Technology Requirement

Prerequisite(s): Prerequisite: Algebra I (and Algebra II preferred)

Endorsement/Career Cluster: Business and Industry or STEM / STEM

OnRamps Computer Science teaches a set of core ideas that shapes the landscape of computer science and its impact on our society. In addition to learning about the magic and beauty of computing, students will acquire essential Texas College and Career Readiness skills, applying critical thinking, problem solving, and communication within a project-based learning framework.

19708 PRACTICUM AFNR WELDING I GCM ONLY, 2 Credits

GPA Level: Regular

Grade Level(s): 9-12

Service ID: 13032300

Prerequisite(s): Introduction to AFNR - Welding

Endorsement/Career Cluster: Business & Industry/Ag, Food and Natural Resources

Industry Certification: NCCER Core, NCCER Welding Level 1, NCCER Welding Level 2, NCCER Level 3

This course is designed to give students supervised practical application of knowledge and skills in AFNR with an emphasis in advanced welding applications. This course reinforces previously learned, hands on training with entry level skills in welding. Students will advance in the welding knowledge and skills learned in previous courses.

Annual welding program fee of \$40. Students will be required to purchase boots and a shirt.

19107 PRACTICUM IN AFNR - AGRISCIENCE CENTER, 2 Credits

GPA Level: Regular

Grade Level(s): 11-12

Service ID: 13002500

STUDENT MUST PROVIDE OWN TRANSPORTATION
TO AGRISCIENCE CENTER

Prerequisite(s): Course Application & Enrollment in Agriculture, Food, and Natural Resources Career Cluster Courses.

Endorsement/Career Cluster: Business & Industry or STEM/Ag, Food and Natural Resources, Advanced CTE Credit

This course is designed to give student supervised practical application of knowledge and skills. The practicum experience will occur at the GCCISD Agriscience Center. Students will assist in the maintenance and upkeep of the facility and will complete an advanced SAE project. This capstone experience is for students participating in a coherent sequence of career and technical education courses in the Agriculture, Food, and Natural Resources Career Cluster.

29708 PRACTICUM IN AFNR WELDING II GCM ONLY, 2 Credits

GPA Level: Regular

Grade Level(s): 9-12

Service ID: 13032400

Prerequisite(s): Practicum in AFNR Welding I

Endorsement/Career Cluster: Business & Industry/Ag, Food and Natural Resources, Advanced CTE Credit

Industry Certification: NCCER Core, NCCER Welding Level 1, NCCER Welding Level 2, NCER Welding Level 3

This course is designed to give students supervised practical application of knowledge and skills in AFNR with an emphases in advanced welding applications. This course reinforces previously learned hands on training with entry level skills in welding. Students will advance in the welding knowledge and skills learned in previous courses.

Annual welding program fee of \$40. Students will be required to purchase boots and a shirt.

CAREER & TECHNICAL EDUCATION

19733 PRACTICUM IN BUSINESS MANAGEMENT (BUSINESS ACADEMY ONLY), 2 credits

GPA Level: Regular

Grade Level(s): 11-12

Service ID: 13012200

Prerequisite(s): **Business Management or Accounting 1 or 2 HSB courses**

Endorsement/Career Cluster: Business & Industry/Business, Marketing & Finance, Advanced CTE Credit

Practicum in Business Management is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of experience.

09725 PRACTICUM IN CONSTRUCTION TECHNOLOGY, 2 credits

GPA Level: Regular

Grade Level(s): 12

Service ID: 13005250

Prerequisite(s): **Construction Technology II**

Endorsement/Career Cluster: Business & Industry/ Architecture & Construction, Advanced CTE Credit

Industry Certification: NCCER Core and NCCER Construction Technology

Practicum in Construction Technology students will be challenged with the application of gained knowledge and skills from Construction Technology I and II. In many cases students will be allowed to work at a job (paid or unpaid) outside of school or be involved in local projects the school has approved for this class.

09738 PRACTICUM IN EDUCATION & TRAINING (READY, SET, TEACH II), 2 credits

GPA Level: Regular

Grade Level(s): 12

Service ID: 13014500

Prerequisite(s): **Course Application and Instructional Practices**

Endorsement/Career Cluster: Public Services/Education & Training, Advanced CTE Credit

Future teachers in the capstone course will continue career exploration through classroom instruction and application of skills as they rotate through local Goose Creek CISD school settings. Students receive more in-depth program management and curriculum study. They will also serve as team leaders, mentors, and role models. Students enrolled in the course must pass a criminal history check to participate. Applications, interviews, and teacher approval may also be required. All students will be required to join Educators Rising.

39743 PRACTICUM IN HEALTH SCIENCE - EMT OPTION (RSS), 2

GPA Level: Regular

Grade Level(s): 12

Service ID: 13020500

Prerequisite(s): **Prerequisite: Course Application & CNA**

Endorsement/Career Cluster: Public Service or STEM / Health Science

The Practicum in Health Science – Emergency Medical Technician (EMT) course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences will occur in EMS and emergency room locations. The student is expected to comply with specific industry standards related to safety and substance abuse and model industry expectations of professional conduct such as attendance, punctuality, personal appearance, hygiene, and time management. This course will prepare students for national certification testing to become credentialed as an EMT-Basic upon graduation. Students are required to obtain vaccinations, a flu shot, fingerprinting and drug testing to participate in this course. Course costs will vary based on course requirements. Transportation must be provided by student. Approximate cost of class: \$80 NREMT application fee, \$80 exam fee, \$50 fingerprinting & background check, and \$100 uniform. A valid social security card and state ID are required for certification. Must be 18 years old with high school diploma to test.

CAREER & TECHNICAL EDUCATION

29743 PRACTICUM IN HEALTH SCIENCE - PHARMACY TECH OPTION (RSS), 2 Credits

GPA Level: Regular

Grade Level(s): 12

Service ID: 13020500

Fingerprinting & Background Check - \$37, Scrubs - \$50 & Drug Testing - \$50

Prerequisite(s): **Course Application; Health Science Theory/Health Clinical or Medical Interventions, Algebra II, & Chemistry**

Endorsement CC: Public Service or STEM/Health Science, ADV. CTE Credit

This course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences will occur in a pharmacy location. The student is expected to comply with specific industry standards related to safety and substance abuse and model industry expectations of professional conduct such as attendance, personal appearance, hygiene, and time management.

This course will prepare students for national certification testing to become credentialed as a Pharmacy Technician upon graduation.

Certification Exam - \$129

Students must provide a valid Social Security number and their own transportation. Students must also provide a state ID for certification. Some course cost may vary from those listed.

09743 PRACTICUM IN HEALTH SCIENCE-CCMA OPTION, 2 credits

GPA Level: Regular

Grade Level(s): 12

Service ID: 13020500

RSS & GCM ONLY

Prerequisite(s): **Course Application; Health Science Theory/Health Science Clinical or Medical Interventions**

Endorsement/Career Cluster: Public Service or STEM/Health Science, Advanced CTE Credit

The Practicum in Health Science- Certified Clinical Medical Assistant (CCMA) course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences will occur in a variety of locations. The student is expected to comply with specific industry standards related to safety and substance abuse and model industry expectations of professional conduct such as attendance, punctuality, personal appearance, hygiene, and time management.

This course will prepare students for national certification testing to become credentialed as a CCMA upon graduation.

Students are required to obtain vaccinations, a flu shot, (fingerprinting and drug testing if required), to participate in this course. Course costs will vary based on course requirements. Transportation must be provided by student. Approximate cost of class- \$155.00 for testing and \$50.00 for uniform and \$30.00 for stethoscope.

19743 PRACTICUM IN HEALTH SCIENCE-CNA - RSS & REL, 2 credits

GPA Level: Regular

Grade Level(s): 12

Service ID: 13020500

Prerequisite(s): **Course Application and Health Science Theory/Health Science Clinical or Medical Interventions**

Endorsement/Career Cluster: Public Service or STEM/Health Science, Advanced CTE Credit

The Practicum in Health Science- Certified Nursing Assistant (CNA) course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences will occur in a variety of locations. The student is expected to comply with specific industry standards related to safety and substance abuse and model industry expectations of professional conduct such as attendance, punctuality, personal appearance, hygiene, and time management.

This course will prepare students for state certification testing to become credentialed and licensed as a CNA.

Students are required to obtain vaccinations, a flu shot, fingerprinting, background check (and drug testing if required), to participate in this course. Transportation must be provided by student. Approximate cost of class- \$125.00 for testing, \$50.00 for uniform, \$30.00 for class workbook. Course costs may vary. A valid social security card is required for state licensing.

CAREER & TECHNICAL EDUCATION

19765 PRACTICUM IN LAW ENFORCEMENT, 2 Credits

GPA Level: Regular

Grade Level(s): 11-12

Service ID: 13030100

Prerequisite(s): Law I

Endorsement/Career Cluster: Public Service/Law and Public Service, Advanced CTE Credit

The practicum course is designed to give students supervised practical application of previously studied knowledge and skills in law, public safety, corrections, and security. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

An annual Law Enforcement course fee of \$20 will be assessed.
Participation in Skills USA is encouraged.

09704 PRINCIPLES OF AGRICULTURE FOOD & NATURAL RESOURCES (AFNR), 1 credit

GPA Level: Regular

Grade Level(s): 9

Service ID: 13000200

Prerequisite(s): None

Endorsement/Career Cluster: Business & Industry/STEM/Ag, Food, & Natural Resources

This is an introductory course designed to provide an overview of global agriculture. The course includes leadership, career development, communications, livestock, plant and soil science and food science.

Students are expected to join the National FFA organization.

09940 PRINCIPLES OF APPLIED ENGINEERING (REL), 1

GPA Level: Regular

Grade Level(s): 9-12

Service ID: 13036200

Prerequisite(s): None

Endorsement/Career Cluster: Business and Industry or STEM / STEM

Principles of Applied Engineering provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will develop engineering communication skills, which include computer graphics, modeling, and presentations, by using a variety of computer hardware and software applications to complete assignments and projects. Upon completing this course, students will understand the various fields of engineering and will be able to make informed career decisions. Further, students will have worked on a design team to develop a product or system. Students will use multiple software applications to prepare and present course assignments.

H09841 PRINCIPLES OF BIOMEDICAL SCIENCE (PLTW) (RSS), 1 credit

GPA Level: Honors

Grade Level(s): 9-12

Service ID: N13020292

Prerequisite(s): None

Endorsement/Career Cluster: Public Service or STEM/Health Science

In the introductory course of the Project Lead the Way Biomedical Science coherent sequence of courses, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.

09729 PRINCIPLES OF BUSINESS, MARKETING & FINANCE, 1 credit

GPA Level: Regular

Grade Level(s): 9-12

Service ID: 13011200

Prerequisite(s): None

Endorsement/Career Cluster: Business & Industry/Business Marketing & Finance

This course provides students with broad-based business knowledge and skills that every individual should know in all aspects of the business world. These aspects give the student entry-level skills needed for success in any career path you choose. Students will learn how to start and maintain a business including: developing a business plan, logo, business card creation, product marketing and advertising.

CAREER & TECHNICAL EDUCATION

09719 PRINCIPLES OF CONSTRUCTION, 1 credit

GPA Level: Regular

Grade Level(s): 9-12 Service ID: 13004220

Prerequisite(s): None

Endorsement/Career Cluster: Business & Industry/Architecture & Construction

Industry Certification: NCCER Core

Principles of Construction is intended to provide an introduction and lay a solid foundation for those students entering the construction or skilled craft areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools. This course also provides communication and occupation skills to assist the student in obtaining and maintaining employment.

19748 PRINCIPLES OF EDUCATION & TRAINING, 1 credit

GPA Level: Regular

Grade Level(s): 9-12 Service ID: 13014200

Prerequisite(s): None

Endorsement/Career Cluster: Public Services/Education & Training

Principles of Education and Training is designed to introduce learners to the various careers available within the Education and Training Career Cluster. Students use self-knowledge as well as educational and career information to analyze various careers within the Education and Training Career Cluster. Students will develop a graduation plan that leads to a specific career choice in the student's interest area. All students will be required to join Educators Rising.

19003 PRINCIPLES OF HEALTH SCIENCE, 1 credit

GPA Level: Regular

Grade Level(s): 9-12 Service ID: 13020200

Prerequisite(s): None

Endorsement/Career Cluster: Public Services or STEM/Health Science

This course is an introduction to the Health Science careers and terminology. It provides an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry.

09763 PRINCIPLES OF LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY, 1 credit

GPA Level: Regular

Grade Level(s): 9-12 Service ID: 13029200

Prerequisite(s): None

Endorsement/Career Cluster: Public Service / Law and Public Service

Principles of Law, Public Safety, Corrections, and Security introduces students to professions in law enforcement, protective services, corrections, firefighting, and emergency management services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services. The course provides students with an overview of the skills necessary for careers in law enforcement, fire service, protective services, and corrections. Other topics in this course range from causes of crime to terrorism to the future of criminal justice.

09779 ROBOTICS I (REL), 1 credit

GPA Level: Regular

Grade Level(s): 10-12 Service ID: 13037000

Prerequisite(s): Principles of Applied Engineering

Endorsement/Career Cluster: B & I or STEM/STEM

Would you like to build a robot? Learn about the robot and automation industry? Then sign up for this course! Through implementation of the design process, students will transfer academic skills to component designs in a project-based environment. Students will build prototypes or use simulation software to test their designs. Additionally, students will explore career opportunities, employer expectations, and educational needs in the robotic and automation industry. Students will be in a classroom and lab setting and have the opportunity to be a part of the robotics competition team!

CAREER & TECHNICAL EDUCATION

19779 ROBOTICS II (REL), 1 credit

GPA Level: Regular

Grade Level(s): 11-12 Service ID: 13037050

Prerequisite(s): Robotics I

Endorsement/Career Cluster: B & I or STEM/Manufacturing

Building on the knowledge and skills taught into Robotics I, students will transfer advanced academic skills to component designs in a project-based environment. Students will build prototypes or use simulation software to test their designs. Additionally, students will explore career opportunities, employer expectations, and educational needs in the robotic and automation industry. Students will be in a classroom and lab setting and have the opportunity to be a part of the robotics competition team!

09791 SMALL ANIMAL MANAGEMENT, ½ credit

GPA Level: Regular

Grade Level(s): 10-12 Service ID: 13000400

Prerequisite(s): None

Endorsement/Career Cluster: Business & Industry or STEM/Ag, Food, & Natural Resources

Students prepare for careers in the field of animal science through the enhancement of academic knowledge and skills, acquisition of knowledge and skills related to animal systems, and development of knowledge and skills regarding career opportunities, entry requirements, and industry expectations. Suggested small animals which may be included in the course of study include, but are not limited to, small mammals, amphibians, reptiles, birds, dogs, and cats.

09803 SMALL ENGINE TECHNOLOGY I, 1 credit

GPA Level: Regular

Grade Level(s): 9-12 Service ID: 13040000

Prerequisite(s): None

Elective Only

This class will acquaint the learner with entry-level knowledge and skills in the components and systems of a small gas engine such as ignition, lubrication and cooling. Shop safety is taught, along with employability characteristics, geographic diversity, engine technology, personal communication, and technical knowledge and skills.

H19002 SPORTS AND ENTERTAINMENT MARKETING (Global Business Academy), .5

GPA Level: Honors

Grade Level(s): 10-12 Service ID: 13034600

Prerequisite(s): Principles of Business, Marketing and Finance

Endorsement/Career Cluster: Business and Industry / Business, Marketing and Finance

Sports and Entertainment Marketing is targeted at high-school students interested in either sports and/or event marketing. The course, which contains both core marketing and industry-specific content, addresses marketing research, target marketing, pricing, branding, advertising, digital marketing, publicity, sales promotion, and selling – all in the context of sports and event products. Incorporates hands-on activities, projects, and situations designed to appeal to a variety of learning styles.

09761 VIDEO GAME DESIGN, 1 credit

GPA Level: Regular

Grade Level(s): 10-12 Service ID: 13009970

Prerequisite(s): None

Endorsement/Career Cluster: Business and Industry/AAVT & C

This class is an introduction to game and simulation development. It includes the analysis of existing applications and creation of a game using an existing game engine as well as an in-depth coverage of the essential elements of game design. This class also covers an overview of cultural history of electronic games, survey of the major innovators, and examination of the trends and taboos that motivate game design.

19718 WILDLIFE, FISHERIES & ECOLOGY MANAGEMENT, 1 credit

GPA Level: Regular

Grade Level(s): 10-12 Service ID: 13001500

Prerequisite(s): None

Elective Only

This course is designed to examine the importance of wildlife and outdoor recreation, emphasizing using wildlife and natural resources. This course examines the management of game and non-game wildlife species, fish, and aquacrops and their ecological needs as related to current agricultural practices. Instruction includes the Texas Hunter course and certification required while hunting.