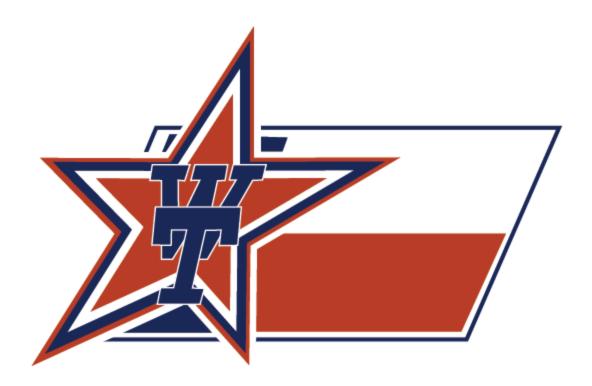
CAREER AND TECHNICAL EDUCATION



Program Guide

Updated September 15, 2023

*A note on coherent sequences of courses in a Program of Study

A student in grades 9-12 who is enrolled in a CTE Program of Study must have a 4-year plan to take 2 or more CTE courses for 3 or more credits within that career pathway.

All information on this program guide is taken from the TEA website at

https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/approve d-cte-programs-study

Wimberley Independent School District
Wimberley High School
Career and Technical Education Department
Public Notification of Nondiscrimination

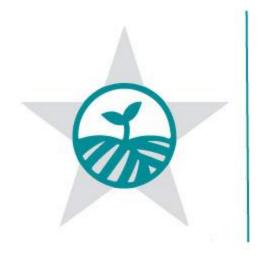
Wimberley High School offers career and technical education programs in Business and Industry, Public Services, Arts and Humanities, STEM (Science, Technology, Engineering and Mathematics) and Multidisciplinary Studies. Admission to these programs is based on student choice and availability. It is the policy of Wimberley High School not to discriminate on the basis of race, color, national origin, sex or handicap in its vocational programs, services or activities and provides equal access to the Boy Scouts and other designated youth groups as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; and Section 504 of the Rehabilitation Act of 1973, as amended.

Wimberley High School and Wimberley Independent School District will take steps to assure that lack of English language skills will not be a barrier to admission and participation in all educational and vocational programs. For information about your rights or grievance procedures, contact the Title IX Coordinator Lori Pharis, at lori.pharis@wimberleyisd.net and/or the Section 504 Coordinator Elizabeth Riley, at Elizabeth.riley@wimberleyisd.net

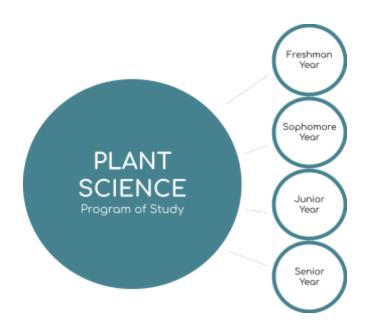
Wimberley High School 100 Carney Lane, Wimberley, Tx 78676 512-847-5729

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Agriculture, Food, and Natural Resources



Principles of Agriculture, Food, and Natural Resources

Landscape Design Turf Grass Management Horticulture Science

Floral Design Greenhouse Operations and Management

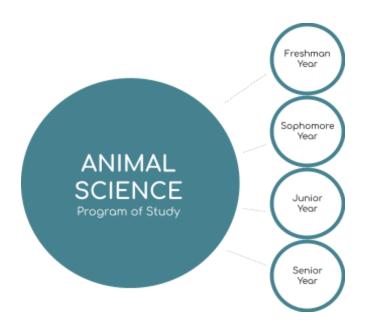
Advanced Plant and Soil Science Practicum in Agriculture, Food, and Natural Resources

The Plant Science program of study focuses on the science, research, and business of plants and other living organisms. It teaches students how to apply biology and life science to real-world life processes of plants and vegetation, either in laboratories or in the field.

POSTSECONDARY OPTIONS

CERTIFICATIONS WHS OFFERS	CERTIFICATE/ LICENSE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Texas State Floral Level 2	Accredited Member of AIFD	Agricultural Business and Management, General	
Principles of Floral Design Certification	Pesticide Applicator	Applied Horticulture/Horticulture Operations, General	
BASF Plant Science	Landscape Industry Certified Technician	Turf and Turfgrass Management	Farm/Farm and Ranch Management

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Plant Scientists	\$54,662	116	21%
Landscape Supervisors	\$44,408	807	19%
Turfgrass/Agric ultural Managers	\$67,950	3700	6%
WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES			
Exploration Activities			
Work Based Learning Activities	Practicum in Agriculture, Food, and Natural Resources		



Principles of Agriculture, Food, and Natural Resources FCI Service Dog Class

Small Animal Management Equine Science Wildlife Management FCI Service Dog Class

Livestock Production/Lab Veterinary Medical Applications/Lab FCI Service Dog Class

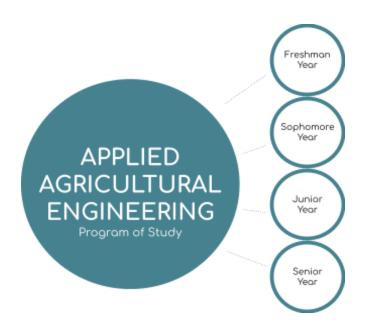
Advanced Animal Science - 4th year Science Practicum in Agriculture, Food, and Natural Resources FCI Service Dog Class

The Animal Science program of study focuses on the science, research, and business of animals and other living organisms. It teaches students how to apply biology and life science to real-world life processes of animals and wildlife, either in laboratories or in the field, which could include a veterinary office, a farm or ranch, or any outdoor area harboring animal life. Students may also research and analyze the growth and destruction of species and research or diagnose diseases and injuries of animals.

POSTSECONDARY OPTIONS

CERTIFICATIONS WHS OFFERS	CERTIFICATE/ LICENSE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Certified Vet Assistant	Pet Groomer	Animal Sciences	Genetics
Elanco Fundamentals of Animal Science	Veterinary Technician	Agriculture	Veterinary Medicine
Equine management & Evaluation	Licensed Breeder	Biology	Biological and Physical Sciences
Elanco Vet med Applications		Zoology/Ani mal Biology	Biological and Biomedical Sciences

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Animal Breeder	\$39,135	28	9%
Animal Scientist	\$57,533	22	12%
Veterinarians	\$93,496	294	24%
Biologist	\$67,309	45	32%
WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES			
Exploration Activities	Texas FFA		
Work Based Learning Activities	Agri-Science Fair, SAE, Practicums		



Principles of Agriculture, Food, and Natural Resources

Agricultural Mechanics and Metal Technologies/Lab

Agricultural Equipment Design and Fabrication/Lab

Practicum in Agriculture, Food, and Natural Resources

The Applied Agricultural Engineering program of study explores the occupations and educational opportunities associated with applying knowledge of engineering technology and biological science to agricultural problems concerned with power and machinery, electrification, structures, soil and water conservation, and processing agricultural products. This program of study may also include exploration into diagnosing, repairing, or overhauling farm machinery and vehicles, such as tractors, harvesters, dairy equipment, and irrigation systems.

POSTSECONDARY OPTIONS

CERTIFICATIONS WHS OFFERS	CERTIFICATE/ LICENSE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
OSHA 30 Hour General Industry	Certified Professional Agronomist	Agricultural Engineering	Agricultural Engineering
AWS Certified Welder	Certified Reliability Engineer	Agricultural Mechanizati on, General	Agricultural Mechanization, General
	Certified Irrigation Designer		

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Outdoor Power Equipment and Other Small Engine Mechanics	\$32,406	366	16%
Welders	\$41,350	6,171	9%
Farm Equipment Mechanics and Service Technicians	\$39,915	304	17%
Agricultural Engineers	\$64,792	9	13%
WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES			
Exploration Activities	Texas FFA		

The Agriculture, Food, and Natural Resources (AFNR) Career Cluster® focuses on the essential elements of life—food, water, land, and air. This career cluster includes a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist. It also includes non-traditional agricultural occupations like wind energy, solar energy, and oil and gas production.

Principles of Agriculture, Food, And Natural Resources

(1 credit)

Principles of Agriculture, Food, and Natural Resources will allow students to develop knowledge and skills regarding career and educational opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. To prepare for success, students need opportunities to learn, experience, apply, and transfer their knowledge and skills in a variety of settings.

Landscape Design and Management

(.5 credit)

Landscape Design and Management is designed to develop an understanding of landscape design and management techniques and practices. To prepare for careers in horticultural systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

Prerequisite: Principles of Agriculture, Food, And Natural Resources

Turf Grass Management

(.5 credit)

Turf Grass Management is designed to develop an understanding of turf grass management techniques and practices. To prepare for careers in horticultural systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

Prerequisite: Principles of Agriculture, Food, And Natural Resources

Horticulture Science

(1 credit)

Horticultural Science is designed to develop an understanding of common horticultural management practices as they relate to food and ornamental plant production. To prepare for careers in horticultural systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticulture and the workplace, and develop knowledge and skills regarding career

opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills in a variety of settings. Prerequisite: Principles of Agriculture, Food, And Natural Resources

Floral Design (1 credit)

Floral Design is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. Through the analysis of artistic floral styles and historical periods, students will develop a respect for the traditions and contributions of diverse cultures. Students will respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations

Prerequisite: Principles of Agriculture, Food, And Natural Resources (Floral Design includes a fee of \$20.00 for materials and supplies.)

Greenhouse Operations and Management

(1 credit)

Greenhouse Operation and Production is designed to develop an understanding of greenhouse production techniques and practices. To prepare for careers in horticultural systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

Prerequisite: Principles of Agriculture, Food, And Natural Resources

Advance Plant and Soil Science - 4th year Science Credit

(1 credit)

Advanced Plant and Soil Science provides a way of learning about the natural world. Students should know how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. To prepare for careers in plant and soil science, students must attain academic skills and knowledge, acquire technical knowledge and skills related to plant and soil science and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

Prerequisite: Principles of Agriculture, Food, And Natural Resources

Small Animal Management

(.5 credit)

In Small Animal Management, students will acquire knowledge and skills related to small animals and the small animal management industry. Small Animal Management may address topics related to small mammals such as dogs and cats, amphibians, reptiles, and birds. To prepare for careers in the field of animal science, students must enhance academic knowledge and skills, acquire knowledge and skills

related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills in a variety of settings. WHS students enrolled in the Small Animal Management class work closely with our partnership with FCI in our service dog training program.

Prerequisite: Principles of Agriculture

FCI SERVICE DOG TRAINING CLASS

(1 Credit)

FCI Dog Behavior and Training will introduce the knowledge and skills required to become a Certified Professional Dog Trainer. Students will study dog behavior and temperament. They will learn science-based training theory including operant and classical conditioning. Students will understand that these principles apply to all living beings and are applied in zoos, aquariums and even the management of people. This class is recommended to students with an interest in the training and behavior modification of any Species. Fifty percent of the class will be hands on training with a variety of dogs including service dogs in training. This gives students the opportunity to put theory into practice, developing the skills needed to become a dog trainer. In addition to developing training knowledge and skills, goals include exposing students to the wide variety of career opportunities within the animal behavior and management field.

Prerequisite: Principles of Agriculture Recommended Grades 9-12

Equine Science (.5 credit)

In Equine Science, students will acquire knowledge and skills related to equine animal systems and the equine industry. Equine Science may address topics related to horses, donkeys, and mules. To prepare for careers in the field of animal science, students must enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

Prerequisite: Principles of Agriculture

Wildlife, Fisheries, and Ecology Management

(1 credit)

Wildlife, Fisheries, and Ecology Management examines the management of game and non-game wildlife species, fish, and aquacrops and their ecological needs as related to current agricultural practices. To prepare for careers in natural resource systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to natural resources, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

Prerequisite: Principles of Agriculture

Livestock Production (1 credit)

In Livestock Production, students will acquire knowledge and skills related to livestock and the livestock production industry. Livestock Production may address topics related to beef cattle, dairy cattle, swine, sheep, goats, and poultry. To prepare for careers in the field of animal science, students must attain academic skills and knowledge, acquire knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

Prerequisite: Principles of Agriculture

Veterinary Medical Applications

(1 credit)

Veterinary Medical Applications covers topics relating to veterinary practices, including practices for large and small animal species. To prepare for careers in the field of animal science, students must attain academic skills and knowledge, acquire technical knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings.

Prerequisite: Principles of Agriculture, Small Animal Management, Equine Science and/or Wildlife

Advanced Animal Science - 4th year Science Credit

(1 credit)

Advanced Animal Science examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences. To prepare for careers in the field of animal science, students must attain academic skills and knowledge, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

Prerequisite: Principles of Agriculture, Livestock Production

Practicum in Agriculture, Food and Natural Resources

(2 credits)

Practicum in Agriculture, Food, and Natural Resources is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. To prepare for careers in agriculture, food and natural resources, students must attain academic skills and knowledge, acquire technical knowledge and skills related to the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and

industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

Prerequisite: A coherent sequence of 2 or more classes in the Plant Science or Animal Science Program of Study

Agricultural Mechanics and Metal Technologies/Lab

(1 credit)

Agricultural Mechanics and Metal Technologies is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metalworking techniques. To prepare for careers in agricultural power, structural, and technical systems, students must attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the industry; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations.

Prerequisite: Principles of Agriculture, Food and Natural Resources

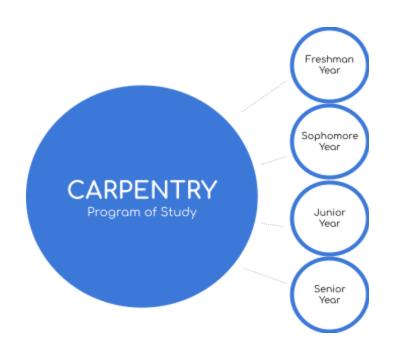
Agricultural Equipment Design and Fabrication/Lab

(2 credits)

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

Prerequisite: Principles of Agriculture, Food and Natural Resources





Principles of Construction

Agricultural Structures Design and Fabrication

Construction Technology I

Construction Technology II Practicum of Construction Technology

The Carpentry program of study explores the occupations and educational opportunities related to constructing, installing, or repairing structures and fixtures made of wood, such as concrete forms (including frameworks, partitions, joists, studding, rafters, and stairways). This program of study may also include exploration into installing, dismantling, or moving machinery and heavy equipment according to layout plans, blueprints, or other drawings.

WORKFORCE INFORMATION

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Carpenter	\$44,824	80,000	8%
Architect	\$79,000	11,000	8%
Construction Managers	\$93,000	46,000	10%
Inspectors	\$59,700	7700	7%
WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES			
Exploration Activities	FFA		

POSTSECONDARY OPTIONS

WHS CERTIFICATIONS OFFERED	CERTIFICATE/ LICENSE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
OSHA 10 Certificate - Life	Certified Lead Carpenter	Construction Science	Construction Management
	Certified Installer		
	Certified Door Consultant		
	Fluid Power Connector & Conductor		

The Architecture and Construction Career Cluster® focuses on designing, planning, managing, building, and maintaining the built environment. Principles of Architecture provides an overview of the various fields of architecture, interior design, and construction management.

Principles of Construction

(1 credit)

Principles of Construction is intended to provide an introduction and lay a solid foundation for those students entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools. For safety and liability considerations, limiting course enrollment to 15 students is recommended. This course also provides communication and occupation skills to assist the student in obtaining and maintaining employment

Agricultural Structures Design and Fabrication

(1 credit)

In Agricultural Structures Design and Fabrication, students will explore career opportunities, entry requirements, and industry expectations. To prepare for careers in mechanized agriculture and technical systems, students must attain knowledge and skills related to agricultural structures design and fabrication. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their academic knowledge and technical skills in a variety of settings. Students will be introduced to skilled trades such as carpentry, plumbing, electrical, welding, concrete, and various other trades related to the construction industry.

Construction Technology I

(2 credits)

In Construction Technology I, students will gain knowledge and skills needed to enter the workforce as carpenters or building maintenance supervisors 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.

Recommended Prerequisite: For safety and liability considerations, limiting course enrollment to 15 students is recommended.

Construction Technology II

(2 credits)

In Construction Technology II, students will gain advanced knowledge and skills needed to enter the workforce as carpenters, building maintenance technicians, or supervisors 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.

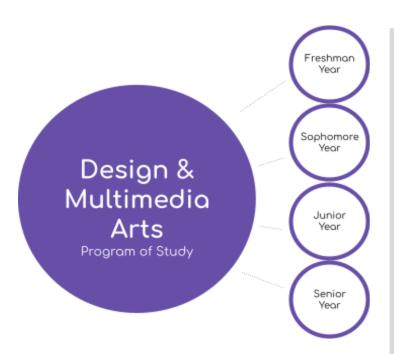
Recommended Prerequisite: For safety and liability considerations, limiting course enrollment to 15 students is recommended.

Practicum in Construction Technology

(2 credits)

In Practicum in Construction Technology, students will be challenged with the application of knowledge and skills gained in previous construction-related coursework. 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. Recommended Prerequisite: A coherent sequence of two or more classes in the Carpentry Program of Study





Principles of Arts, A/V Technology, and Communications

Commercial Photography I Graphic Design and Illustration I

Commercial Photography II (Yearbook)
Graphic Design and Illustration II (Yearbook)

Practicum in Commercial Photography (Yearbook) Practicum in Graphic Design and Illustration (Yearbook)

WORKFORCE INFORMATION

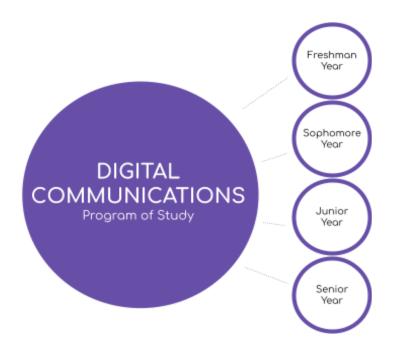
The Graphic Design and Multimedia Arts program of study explores the occupations and educational opportunities associated with designing or creating graphics to meet specific commercial or promotional needs, such as packaging, displays, or logos. This program of study may also include exploration into designing clothing and accessories, and creating special effects, animation, or other visual images using film, video, computers, or other electronic tools and media, for use in computer games, movies, music videos, and commercials.

POSTSECONDARY OPTIONS

WHS CERTIFICATION S OFFERED	CERTIFICATE/ LICENSE	BACHELOR' S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Adobe Certified Professional in Visual Design using Photoshop	Adobe Certified Professional Certification	Graphic Desig	gn
Certified Professional Photographer (CPP)	Certified Professional Photographer (CPP)	Fine Arts	

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Graphic Designers	\$44,824	1.433	15%
Multimedia Artists & Animators	\$67,392	186	21%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES Work Based Learning Activities Work for WHS Yearbook Staff as Photographer, Journalist, or Page Designer.



Principles of Arts, A/V Technology, and Communications

Audio/Video Production I

Audio/Video Production II Audio/Video Production II Lab

Practicum in Audio/Video Production

The Digital Communications program of study explores the occupations and educational opportunities associated with the production of audio and visual media formats for various purposes, such as TV broadcasts, advertising, video production, or motion pictures. This program of study may also include exploration into operating machines and equipment to record sound and images, such as microphones, sound speakers, video screens, projectors, video monitors, sound and mixing boards, and related electronic equipment.

POSTSECONDARY OPTIONS

WHS CERTIFICATIONS OFFERED	CERTIFICATE/ LICENSE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Adobe Certified Associate (Premiere)	Certified Video Engineer	Recording Arts Tech	Communications Technology/Tech
	Commercial Audio Tech	Cinematography and Film/Video Production	
	Certified AM Directional Specialist	Radio and Television Tech	Radio and Television
	Certified Broadcast Radio Engineer	Music Tech	Communication/ Journalism

OCCUPATIONS		MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH	
Sound Engineer Techs		\$39,562	79	27%	
Camera Operator		\$50,024	129	9%	
Audio Video Equipment Tech		\$40,581	757	29%	
Film and Video Editors		\$47,382	118	23%	
WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES					
Exploration Activities	WHS Live Broadcast for Announcements and special events				
Work Based Learning Activities	Intern with a multimedia, broadcasting studio, or Wimberley Valley Radio				

The Arts, A/V Technology and Communications (AAVTC) Career Cluster® focuses on careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services. Careers in the AAVTC Career Cluster require a creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication.

Principles of Arts, A/V Technology, & Communications

(1 credit)

Students learn and complete real-world projects such as understanding camera fundamentals and composition for photography, preparing advertising and marketing materials, designing clothing, or creating and preparing audio and digital files for various types of output. Students will also be introduced to the different software programs within the Adobe Creative Suite, including Illustrator for graphic design and illustration, Photoshop for commercial photography and printing, Flash to explore animation, InDesign for Desktop Publishing, and Premier Pro to cover audio/video production.

Commercial Photography I

(1 credit)

Students will develop photography skills that span all aspects of the industry from setting up a shot to delivering products in a competitive market. Within this context, students will learn the basics of digital photography including camera parts and functions, proper handling of a camera, relating the elements and principles of art to photography, and taking quality photographs. Additionally, students will learn to edit and retouch images in Photoshop, research professional photographers and photography genres, and explore potential careers in photography.

Prerequisite: Principles of Arts, A/V Technology, & Communications

Graphic Design and Illustration I

(1 credit)

This is an introductory course that explores the various elements and principles of design and how they fit together. An emphasis is placed on terminology, design techniques, color, and software training using Adobe Photoshop, Illustrator, and InDesign. Typography and layout are additional concentrations included in the class. This course is about the organization of visual information.

Prerequisite: Principles of Arts, A/V Technology, & Communications

Commercial Photography II (Yearbook)

(1 credit)

Commercial Photography Technology II students will work with the Graphic Design and Illustration II (yearbook) students to take and edit photos for the Yearbook. Additionally, students will focus on the entrepreneur and creating an individualized business plan for beginning a photography business which includes the creation of a business website, obtaining an Adobe Certified Associate (ACA) certification in Adobe Photoshop, and producing a professional career portfolio.

Prerequisite: Commercial Photography l

Graphic Design and Illustration II (Yearbook)

(1 credit)

Graphic Design II students will work with the Commercial Photography II (yearbook) students to manipulate digital images and create and edit different page layouts. Students will also create different graphics, designs, posters, and banners as individual projects. Additionally, students can earn up to three Adobe Certified Associate (ACA) certifications in Adobe Photoshop, Illustrator and InDesign by end-of-course examinations in order to build their professional portfolios.

Prerequisite: Graphic Design and Illustration l

Audio/Video Production I

(1 credit)

This course will explore the Audio and Video production industry and its post secondary educational and career opportunities. Students will gain job-specific training for entry level employment in audio, video, television, and motion picture careers. Professional grade equipment and software will be used in the creation of student lead productions. Students will be involved in every aspect of several class and small group audio, video, and film style production projects.

Prerequisite: Principles of Arts, A/V Technology, & Communications

Audio/Video Production II

(1 credit)

Students will work on several audio/video productions created for television, cable television, education, radio, entertainment, business and/or industry. Students may concentrate on specific areas of interest such as videography, video editing, film editing, audio recording, audio mixing, sound reinforcement, sound design, dialog editing, lighting, directing, producing, still or animated computer graphics, special effects, voice talent, on-camera talent, production management and camera operation. Additional time beyond regular school hours is required for productions.

Prerequisite: Audio/Video Production I

Audio/Video Production Lab (Cinematography)

Building upon concepts taught in A/V Production, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an advanced understanding of the industry with a focus on pre-production, production, and post-production products. Through diverse forms of storytelling and production, students will exercise and develop creativity, intellectual curiosity, **Prerequisite: Audio/Video Production I**

Practicum in Commercial Photography (Yearbook II)

(2 credits)

Students will be expected to develop a hands-on understanding of the industry with a focus on skill proficiency. Instruction may be delivered through lab-based classroom experiences taking quality photos for the yearbook and the website or career preparation opportunities in the community.

Prerequisite: A coherent sequence of two or more classes in the Design and Multimedia Arts Program of Study

Practicum in Audio/Video Production

(2 credits)

Students in this class will develop advanced knowledge and skills in their chosen field of study related to audio and video production. Students will develop their portfolio of work that will assist them in gaining entry level employment, earning admittance into college film/video, television/radio broadcasting, and audio production programs, as well as securing post-secondary scholarships. Additional time beyond regular school hours is required for productions.

Prerequisite: A coherent sequence of two or more classes in the Digital Communication Program of Study

Practicum in Graphic Design and Illustration (Yearbook II)

(2 credits)

Students will be expected to develop a hands-on understanding of the industry with a focus on skill proficiency. Instruction may be delivered through lab-based classroom experiences creating graphics, logos, media, and the yearbook or career preparation opportunities in the community. Prerequisite: A coherent sequence of two or more classes in the Design and Multimedia Arts Program of Study





Principles of Business, Marketing, and Finance

Sports and Entertainment Marketing/Virtual Business

Advertising/Social Media Marketing

Practicum in Marketing

WORKFORCE INFORMATION

The Marketing and Sales program of study teaches CTE concentrators how to collect information to determine potential sales of a product or service and/or create a marketing campaign to market or distribute goods and services. Through this program of study, students will learn the skills necessary to understand and apply data on customer demographics, preferences, needs, and buying habits.

POSTSECONDARY OPTIONS

WHS CERTIFICATION S OFFERED	CERTIFICATE/ LICENSE	ASSOCIATE'S OR BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Stukent Social Media Marketing	Certified Project Manager	Marketing/ Management, General	Marketing
Google Ads	DMA Certified MKT Professional	Management, Business Admin	Business Administration
Facebook Digital MKT Associate Cert	Certified Salesperson	Applied Economics	Applied Economics
	Real Estate Appraiser	Business, Marketing Research	Advertising

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Marketing Specialists	\$70,346	4,664	40%
Insurance Sales Agents	\$43,181	5,886	30%
Management Analysts	\$87,651	4,706	32%
Wholesale & Retail Buyers	\$51,106	1,299	19%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES Exploration Activities National Technical Honor Society Work Based Learning Activities Shadow a real estate agent or business owner Practicum in Marketing and Sales

The Business, Marketing, and Finance Career Cluster® focuses on careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations.

Principles of Business, Marketing, and Finance

(1 credit)

In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economies and private enterprise systems, the impact of global business, the marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in business, marketing, and finance.

Sports and Entertainment Marketing Virtual Business

(.5 credit) (.5 credit)

In Sports and Entertainment Marketing, students will be provided with a thorough understanding of the marketing concepts and theories that apply to sports and entertainment. This course will cover basic marketing concepts, publicity, sponsorship, endorsements, licensing, branding, event marketing, promotions, and sports and entertainment marketing strategies.

Virtual Business is designed for students to start a virtual business by creating a web presence, conducting online and off-line marketing, examining contracts appropriate for an online business, and demonstrating project-management skills. Students will also maintain business records and understand legal issues associated with a virtual business.

Recommended Prerequisite: Principles of Business, Marketing, and Finance

Money Matters (1 credit)

Money Matters will promote financial responsibility among teens by building their basic money management skills. Students will investigate money management from a personal financial perspective. Students will apply critical-thinking skills to analyze financial options based on current and projected economic factors. Students examine various methods of achieving short-term and long-term financial goals through methods such as investing, tax planning, asset allocation, retirement planning, and estate planning. Strongly recommended for all students.

Recommended Prerequisite: Principles of Business, Marketing, and Finance

Advertising Social Media Marketing (.5 credit) (.5 credit) Advertising is designed as a comprehensive introduction to the principles and practices of advertising. Students will gain knowledge of techniques used in current advertising, including print, broadcast and digital media. The course provides an overview of how communication tools can be used to reach target audiences.

Social Media Marketing is designed to look at the rise of social media and how marketers are integrating social media tools in their overall marketing strategy. Students will understand techniques for gaining customer and consumer buy-in to achieve marketing goals and properly select social media platforms to engage consumers.

Recommended Prerequisite: Principles of Business, Marketing, and Finance

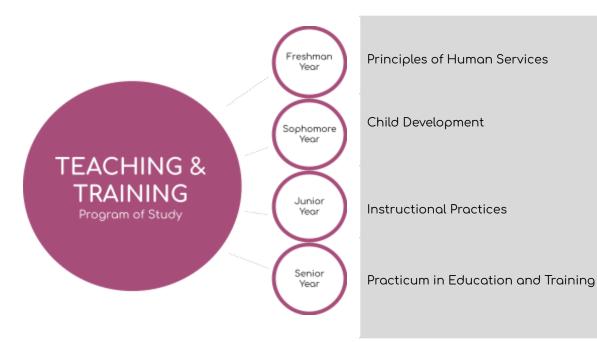
Practicum in Marketing

(2 credits)

Practicum in Marketing will integrate skills from academic subjects, information technology, interpersonal communication, and management training to make responsible decisions in the workplace. This is a fourth year capstone course.

Prerequisite: A coherent sequence of two or more classes in the Marketing and Sales Program of Study





The Teaching and Training program of study prepares students for careers related to teaching, instruction, and creation of instructional and enrichment materials. The program of study introduces CTE concentrators to a wide variety of student groups and their corresponding needs. It familiarizes them with the processes for developing curriculum, coordinating educational content, and coaching groups and individuals.

POSTSECONDARY OPTIONS

CERTIFICATIONS WHS OFFERS	CERTIFICATE/ LICENSE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
	Texas Educator Certification Program	Teacher Education	Instruction and Learning
	Educational Instructional Technology	Education, General	Educational Leadership and Administration
	Counselor, Professional	Special Education	
	Athletic Trainer	Heath and Physical Education/ Fitness	Social and Philosophical Foundations of Education

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH		
Adult Basic & Secondary Education	\$48,069	862	17%		
Middle School Teachers	\$54,510	6,407	15%		
Career and Technical Education Teachers	\$56,360	719	9%		
Special Education Teachers	\$56,720	980	18%		
WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES					
Exploration Activities	Texas Associate of Future Educators				
Work Based Learning Activities	Practicum at Jacobs Well Elementary or Scudder Primary				

The Education and Training Career Cluster® focuses on planning, managing, and providing education and training services and related learning support services. All parts of courses are designed to introduce learners to the various careers available within the Education and Training career cluster.

Principles of Human Services

(1 credit)

Introductory course to enable students to investigate careers in the human services cluster, including counseling and mental health, early childhood development, family and community, and personal care services.

Child Development

(1 credit)

This course is recommended for those interested in professions involving children. The process of human development from conception through adolescence is studied. Emphasis is placed on development which enables one to reach physical, mental, emotional and social maturity. The influence of the family and society on child development, prenatal care and development, Promoting healthy dietary practices in children, leadership and teamwork in preparation for adult roles, career options, preparation requirements, and management practices, application of school-based learning in family, community, and employment settings

Recommended Prerequisite: Principles of Human Service

Instructional Practices

(2 credits)

Instructional Practices is a field-based (practicum) internship that provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students work under the joint direction and supervision of both a teacher with knowledge of early childhood, middle childhood, and adolescence education and exemplary educators or trainers in direct instructional roles with elementary-, middle school-, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, assist with record keeping, and complete other responsibilities of teachers, trainers, paraprofessionals, or other educational personnel.

Practicum in Education and Training

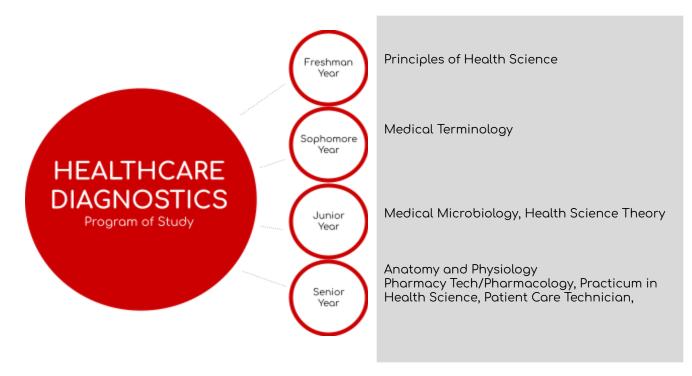
(2 credits)

Practicum in Education and Training is a field-based internship that provides students background knowledge of child and adolescent development principles as well as principles of effective teaching and

training practices. Students in the course work under the joint direction and supervision of both a teacher with knowledge of early childhood, middle childhood, and adolescence education and exemplary educators in direct instructional roles with elementary-, middle school-, and high school-aged students.

Prerequisite: A coherent sequence of two or more classes in the Education and Training Pathway.





The Healthcare Diagnostics program of study introduces students to occupations and educational opportunities related to performing complex medical laboratory tests for the diagnosis, treatment, and prevention of disease. This program of study may also include exploration into the opportunities associated with blood laboratories as well as radiologic technology, and ultrasonic technology.

POSTSECONDARY OPTIONS

WHS CERTIFICATIONS OFFERED	CERTIFICATE/ LICENSE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Patient Care Technician	Medical Sonographer	Nuclear Medical Technology	Radiologist
	Radiologic Technologist	Medical Radiologic Technology	Radiologic Technology/ Science - Radiographer

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH		
Diagnostic Medical Sonographers	\$69,909	495	35%		
Phlebotomist	\$30,597	1442	36%		
Nuclear Medicine Tech	\$75,962	91	13%		
Radiologic Tech	\$55,494	1196	19%		
WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES					
Exploration Activities	HOSA				
Work Based Learning Activities	Clinical Rotations at a hospital, clinic, or nursing homes				

HEALTHCARE THERAPEUTICS Program of Study Senior Year Sepior Year

RECOMMENDED COURSE SEQUENCE

Principles of Health Science

Health Science Theory Medical Terminology

Medical Microbiology Anatomy and Physiology

Patient Care Tech Pharmacy Tech/Pharmacology Practicum in Health Science

The Healthcare Therapeutic program of study introduces students to occupations and educational opportunities related to diagnosing and treating acute, episodic, or chronic illness, independently or as part of a healthcare team. This program of study also includes an introduction to the opportunities associated with providing treatment and counsel to patients as well as rehabilitative programs that help build or restore daily living skills to persons with disabilities or developmental delays.

POSTSECONDARY OPTIONS

WHS CERTIFICATIONS OFFERED	CERTIFICATE/ LICENSE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Patient Care Technician	Surgical Technologist	Family and General Practitioners	
	Dental Assistant	Dental Hygienist	Dentist
	Medical Assistant	Family and General Practitioners	
	Pharmacy Aides		Pharmacist

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH	
Medical Assistant	\$29,598	8,862	30%	
Dental Hygienist	\$73, 507	1,353	38%	
Physician and Surgeon	\$213,071	1,151	30%	
Dental Assistant	\$34,840	4,422	31%	
WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES				
Exploration Activities	HOSA			
Work Based Learning Activities	Volunteer at a local hospital, wellness center, assisted living center, or nursing home. Practicum in Health Science.			

The Health Science Career Cluster® focuses on planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, communicate effectively, and work well with others.

Principles of Health Science

(1 credit)

The Principles of Health Science course is designed to provide an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the healthcare industry.

Health Science Theory

(1 credit)

The Health Science Theory 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.

Prerequisite: Principles of Health Science, Biology

Medical Terminology

(1 credit)

The Medical Terminology course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, singular and plural forms, and medical abbreviations. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.

Prerequisite: Principles of Health Science

Medical Microbiology

(1 credit)

The Medical Microbiology course is designed to explore the microbial world, studying topics such as pathogenic and non-pathogenic microorganisms, laboratory procedures, identifying microorganisms, drug resistant organisms, and emerging diseases. Students must meet the 40% laboratory and fieldwork requirement. This course satisfies a high school science graduation requirement.

Prerequisite: Biology and Chemistry

Anatomy and Physiology

(1 credit)

The Anatomy and Physiology course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology will study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.

Prerequisite: Biology and a second science

Patient Care Technician

(1 credit)

Hands-on training course for Patient Care Technician.

Prerequisite: Principles of Health Science

Pharmacy Tech/Pharmacology

(1 credit)

This course is designed to introduce students to the structure of medical pharmacology. Pharmacy Tech Certification earned.

Prerequisite: Principles of Health Science

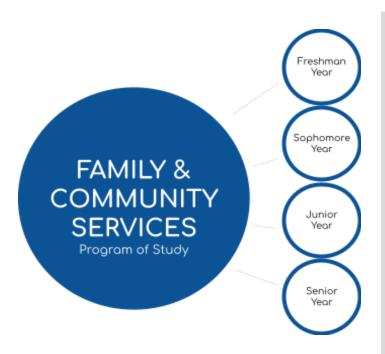
Practicum in Health Science

(2 credits)

The Practicum in Health Science course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

Prerequisite: Health Science Theory and Biology





Principles of Human Services

Child Development/Lifetime Nutrition & Wellness/Interpersonal Studies/Counseling and Mental Health

Child Development/Lifetime Nutrition & Wellness/Interpersonal Studies/Counseling and Mental Health

Practicum in Human Services

The Family and Community Services program of study introduces students to knowledge and skills related to social services, including child and human development and consumer sciences. CTE concentrators may learn about or practice managing social and community services or teaching family and consumer sciences. Students may follow career paths in social work or therapy for children, families, or school communities.

POSTSECONDARY OPTIONS

WHS CERTIFICATIONS OFFERED	CERTIFICATE/ LICENSE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Food Handler License	Human Development/ Family Studies	Human Development and Family Studies	
	Community Health Services/ Counseling	Human Services/ Sciences	Marriage and Family Therapy/ Counseling
	Distance Credentialed Counselor	Family and Consumer Sciences	Human Services/ Sciences
	EducatorCertificat ion in Family/ Consumer Sciences	Community Health Services	Family Studies

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH	
Child, Family, and Social School Workers	\$41,350	2,221	17%	
Social and Community Service Managers	\$65,146	608	33%	
Marriage and Family Therapists	\$42,266	217	35%	
Mental Health and Substance Abuse and Behavioral Disorder Counselors	\$42,120	576	39%	
WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES				
Exploration Activities	Health and Wellness Center			
Work Based Learning	Health and Wellness Center; Work with professional counselors			

The Human Services Career Cluster® focuses on preparing individuals for employment in career pathways that relate to families and human needs such as counseling and mental health services, family and community services, personal care services, and consumer services.

Principles of Human Services

(1 credit)

Laboratory course to enable students to investigate careers in the human services cluster, counseling and mental health, early childhood development, family and community, and personal care services.

Child Development

(1 credit)

This course is recommended for those interested in professions involving children. The process of human development from conception through adolescence is studied. Emphasis is placed on development which enables one to reach physical, mental, emotional and social maturity. The influence of the family and society on child development, prenatal care and development, Promoting healthy dietary practices in children, leadership and teamwork in preparation for adult roles, career options, preparation requirements, and management practices, application of school-based learning in family, community, and employment settings

Recommended Prerequisite: Principles of Human Services

Lifetime Nutrition and Wellness

(.5 credit)

Lifetime Nutrition and Wellness is a laboratory course which allows students to use the principles of lifetime wellness and nutrition to help them make informed choices that promote wellness as well as pursue careers related to hospitality and tourism, education and training, human services, and health sciences.

Recommended Prerequisite: Principles of Human Services

Interpersonal Studies

(.5 credit)

Interpersonal Studies examines how the relationships between individuals and among family members significantly affect the quality of life. Students use knowledge and skills in family studies and human development to enhance personal development, foster quality relationships, promote wellness of family members, manage multiple adult roles, and pursue careers related to counseling and mental health services.

Recommended Prerequisite: Principles of Human Services

Counseling and Mental Health

(1 credit)

In Counseling and Mental Health, students model the knowledge and skills necessary to pursue a counseling and mental health career through simulated environments. Students will apply knowledge of

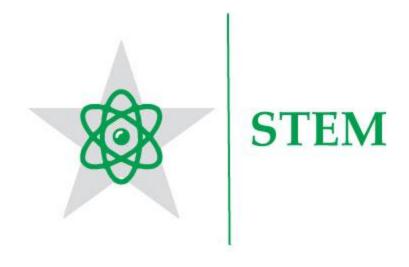
ethical and legal responsibilities, limitations on their actions and responsibilities, and the implications of their actions. Students understand how professional integrity in counseling and mental health care is dependent on acceptance of ethical and legal responsibilities. **Recommended Prerequisite: Principles of Human Services**

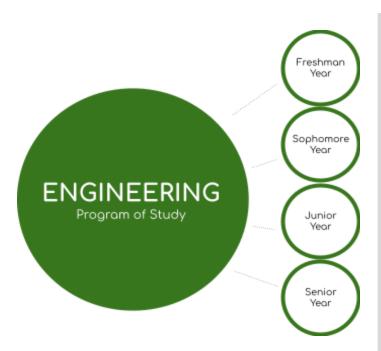
Practicum in Human Services

(2 credits)

Practicum in Human Services provides background knowledge and occupation-specific training that focuses on the development of consumer services, early childhood development and services, counseling and mental health services, and family and community-services careers. This is a fourth year capstone course in Family and Community Services.

Prerequisite: A coherent sequence of two or more classes in the Family and Community Services Program of Study





Principles of Applied Engineering

Engineering Design and Presentation I Robotics I Computer Science 1

Engineering Design and Problem Solving (LV4) AP Computer Science A Robotics II

Practicum in Science, Technology, Engineering or Mathematics

The Engineering program of study focuses on the design, development, and use of engines, machines, and structures. Students will learn how to apply science, mathematical methods, and empirical evidence to the innovation, design, construction, operation, and maintenance of different manufacturing systems.

POSTSECONDARY OPTIONS

WHS CERTIFICATIONS OFFERED	CERTIFICATE / LICENSE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Autodesk Certified User: Inventor	Engineer, Professional	Electrical, Mechanical, Civil, and Electronics Engineer	
Autodesk Certified User: AutoCAD	Fluid Power Systems Designer	CAD/CADD Drafting and or Design Technology	Mechanical Engineering
OSHA 10-Hour	Certified Biomedical Auditor	Bioengineering and Biomedical Engineering	
Certified Industry 4.0 Associate - Robot System Operations	Certified Cost Estimator	Construction Engineering Technology/Technician	

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Aerospace Engineers	\$110,843	481	9%
Industrial Engineer	\$97,074	1,263	10%
Mechanical Engineer	\$112,819	474	9%
Electrical Engineer	\$98,405	1,137	10%
WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES			
Exploration Activities	UIL BEST Robotics , UIL FIRST Robotics		
Work Based Learning Activities	Practicum in Engineering		

The Science, Technology, Engineering, and Mathematics (STEM) Career Cluster® focuses on planning, managing, and providing scientific research and professional and technical services, including laboratory and testing services, and research and development services.

Principles of Applied Engineering

(1 credit)

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.

Engineering Design and Presentation I

(1 credit)

The primary focus will be an introduction to the principles of drafting to include terminology and fundamentals, including size and shape descriptions, projection methods, geometric construction, sections, auxiliary views, and reproduction processes. This course instructs students in modern graphics and modeling fundamentals for engineering design. Students will be introduced to freehand sketching, multi-view orthographic projection, shape modeling and its applications in computer- aided drafting and design (CAD). Studies will include graphic geometry and projection techniques, visualization methods, pictorial drawings, geometric modeling techniques for CAD, drafting practices, and manufacturing processes and materials documentation. An electronic portfolio is required to receive credit from ACC after successfully completing the class.

Recommended Prerequisite: Principles of Applied Engineering

Engineering Design and Problem Solving

(1 credit)

The Engineering Design and Problem-Solving course is the creative process of solving problems by identifying needs and then devising solutions. The solution may be a product, technique, structure, or process depending on the problem. Science aims to understand the natural world, while engineering seeks to shape this world to meet human needs and wants. Engineering design takes into consideration limiting factors or "design under constraint." Various engineering disciplines address a broad spectrum of design problems using specific concepts from the sciences and mathematics to derive a solution. The design process and problem solving are inherent to all engineering disciplines.

Recommended Prerequisite: Engineering Design and Presentation I | Principles of Applied Engineering

Robotics I (1 credit)

In Robotics I, students will transfer academic skills to component designs in a project-based environment through implementation of the design process. 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 who are members of the Wimberley Robotics team. This class comes with after school and weekend commitments. Wimberley Robotics competes in UIL BEST Robotics competition and UIL FIRST Robotics Competition.

Robotics II (1 credit)

In Robotics II, students will explore artificial intelligence and programming in the robotic and automation industry. Through implementation of the design process, students will transfer academic skills to component designs in a project-based environment. Students will build prototypes and use software to test their designs.

Students who are members of the Wimberley Robotics team. This class comes with after school and weekend commitments. Wimberley Robotics competes in UIL BEST Robotics competition and UIL FIRST Robotics Competition.

Prerequisite: Robotics I

Computer Science I

(1 credit)

Computer Science 1 will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media.

AP Computer Science A

(1 credit)

An introductory college-level computer science course. Students cultivate their understanding of coding through analyzing, writing, and testing code as they explore concepts like modularity, variables, and control structures.