



Statewide Programs of Study

In the Career & Technical Education (CTE) section of the course guide you will find twenty-six programs of study offered by Ector County ISD. Each program of study is aligned to occupations that meet Texas labor market criteria for in-demand and high wage occupations including projected job growth, annual job openings, and the state median wage. Each program of study leads to postsecondary education, training opportunities, and aligns to statewide graduation endorsements.

The program of study frameworks help to provide a clear high school plan for students to study a career field of interest in-depth. Each framework lists the course sequence, dual credit and industry-based certification opportunities, and aligned occupations. The second page of each framework provides course level information to include the course number, grade level, prerequisites, and course description.

Statement of Non-Discrimination

Public Notification of Non-Discrimination in CTE Programs Ector County Independent School District offers career and technology education programs in Environmental and Agricultural Technology; Human Development, Management and Services; Health Services; Business and Marketing; Arts, Communications, and Media Technology; Engineering and Industrial Technology; and Personal and Protective Services. Admission to these programs is based on interest and aptitude, age appropriateness, and class space available.

It is the policy of Ector County Independent School District not to discriminate on the basis of race, color, national origin, sex or handicap in its vocational programs, services, or activities 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. It is the policy of Ector County Independent School District not to discriminate on the basis of race, color, national origin, sex, handicap, or age in its employment practices as required by Title VI of the Civil Rights Acts of 1964, as amended; Title IX of the Education Amendments of 1972; the Age Discrimination Act of 1975, as amended; and Section 504 of the Rehabilitation Act of 1973, as amended. Ector County Independent School District will take steps to ensure 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, Joretha Lee, at 802 N. Sam Houston, Odessa, Texas 79761 (Telephone 432-334-7167), and/or the Section 504 Coordinator, at 802 N. Sam Houston, Odessa, Texas 79761 (Telephone 432-333-9151).

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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.

Program of Study Course Sequences		
Year	High School Course	Credits
1	Principles of Agriculture	1
2	Horticulture Science	1
	Floral Design	1
3	Advanced Floral Design	1
	Advanced Plant & Soil Science	1
4	Practicum in Horticulture	2

Industry Certifications

Texas State Florist's Association
Level 1 & 2 Floral Certification
Certificate

BASF Plant Science Certification

Learning Opportunities

FFA Student Organization

Work at a florist or landscaper
business

Aligned Occupations

Occupations	Median Wage	Annual Openings	Growth
Soil and Plant Scientists	\$54,662	116	21%
Tree Trimmers and Pruners	\$32,240	589	14%
Landscaping Supervisors	\$44,408	807	19%
Biological Technicians	\$42,931	452	17%

Successful completion of the Plant Science program of study will fulfill requirements of a Business and Industry endorsement or STEM endorsement if the math and science requirements are met. Revised – October 2022



Plant Science

Level 1

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Principles of Agriculture	1	8705	13000200	Odessa High School Permian High School	9-12

Course Description: This course is designed to introduce the Agriculture, Food, & Natural Resources cluster. Topics of study include agricultural history, agricultural career opportunities, and modern developments in agricultural production and technology.

Level 2

Course Name	Credit	Course Number	Service ID	Location	Grade Level
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No Level 2 courses for this program

Level 3

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Horticulture	1	8417 (1 semester)	13002000	ECISD Ag Farm (Transportation provided for OHS/PHS students)	10-12

Course Description: This course is designed to develop an understanding of common horticultural management practices as they relate to food and ornamental plant production. The lab-based course emphasizes greenhouse and nursery crop production and fruit, nut, and vegetable crop production.

Floral Design	1	8416 (1 Semester)	13001800	ECISD Ag Farm (Transportation provided for OHS/PHS students)	10-12
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Course Description: This course 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. Students will have the opportunity to receive an industry recognized Floral Design Level 1 certification. This course satisfies fine arts graduation requirement.

Level 4

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Advanced Floral Design	1	8459 (1 Semester)	N1300270	ECISD Ag Farm (Transportation provided for OHS/PHS students)	11-12

Course Description: Students will learn about specific floral holidays and seasons and will make various arrangements for these special days. Students will also cover Contemporary Floral Designs and arrangements made from artificial materials. They will demonstrate and participate in choosing the proper flowers, foliage, and container for the appropriate High Style Designs. Topiaries, European, Colonial, Oriental, Celebration, and centerpiece designs will be introduced. Students will practice wreath, swags, window displays, Christmas and Seasonal decorating. Markup, pricing, and profit will be covered. Students will have the opportunity to receive an industry recognized Floral Design Level 2 certification. (Prerequisite: 8417 Horticulture Science & 8416 Floral Design)

Advanced Plant & Soil Science	1	8436 (1 Semester) 8676 SI (1 Semester) 8677 SI/BI (1 Semester)	13002100	ECISD Ag Farm (Transportation provided for OHS/PHS students)	11-12
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Course Description: Students is expected to recognize the importance and interrelationships of soil and plants; practice soil and plant evaluation as it applies to agricultural and urban settings, explain the relationship of biotic and abiotic factors within habitats and ecosystems, analyze soil science as related to food and fiber production, describe the relationship between resources within environmental systems, describe the origin and use of water in a watershed, map the process of soil formation as influenced by weathering, including erosion processes due to water, wind, and mechanical factors influenced by climate, explain how petroleum energy resources affect agriculture, evaluate components of plant science as it relates to crop production, identify how plants grow and how specialized cells, tissues, and organs develop, diagram the structure and function of nucleic acids in the mechanism of genetics, explain the chemistry involved in plants at the cellular level, and identify the sources and flow of energy through environmental systems. (Prerequisite: 8417 Horticulture Science & 8416 Floral Design)

Practicum in Horticulture	2	8419	13002500	ECISD Ag Farm (Transportation provided for OHS/PHS students)	12
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Course Description: 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 nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Agriculture, Food, and Natural Resources Career Cluster. (Prerequisite: 8436 Advanced Plant & Soil Science & 8436 Advanced Floral Design)

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.

Program of Study Course Sequences

Year	High School Course	Credits
1	Principles of Agriculture	1
2	Livestock Production	1
	Small Animal Management	0.5
	Equine Science	0.5
3	Veterinary Medical Applications	1
	Advanced Animal Science	1
4	Practicum in Agricultural Science	2
	Practicum in Veterinary Science	2

Industry Certifications



- Certified Veterinary Technician
- Elanco Fundamentals of Animal Science Certification
- Elanco Veterinary Medical Applications Certification

Learning Opportunities

- FFA Student Organization
- Volunteer at a local farm or with a veterinarian



Aligned Occupations

Occupations	Median Wage	Annual Openings	Growth
Animal Breeders	\$39,139	28	9%
Animal Scientists	\$57,533	22	12%
Veterinarians	\$93,496	294	24%
Zoologists & Wildlife Biologists	\$67,309	45	32%

Successful completion of the Animal Science program of study will fulfill requirements of a Business and Industry endorsement or STEM endorsement if the math and science requirements are met. Revised – October 2022

Animal Science

Level 1

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Principles of Agriculture	1	8705	13000200	Odessa High School Permian High School	9-12

Course Description: This course is designed to introduce the Agriculture, Food, & Natural Resources cluster. Topics of study include agricultural history, agricultural career opportunities, and modern developments in agricultural production and technology.

Level 2

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Small Animal Management	0.5	8545 (Semester 2)	13000400	ECISD Ag Farm (Transportation provided for OHS/PHS students)	10-12

Course Description: Students will be provided with opportunities to learn, reinforce, and apply information in a variety of settings in the areas of small animal, systems/business, and associations. Subject areas in this course to be covered are but not limited to small mammals, amphibians, reptiles, birds, dogs, cats, and species-specific information. Study will also highlight ownership, hazards, & welfare of small animals.

Equine Science	0.5	8408 (Semester 2)	13000500	ECISD Ag Farm (Transportation provided for OHS/PHS students)	10-12
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Course Description: The lab-based course is designed to prepare students for careers in the field of animal science with an emphasis of equine science. Animals which may be included during study include, but are not limited to, horses, donkeys, and mules.

Level 3

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Livestock Production	1	8406 (Semester 1)	13000300	ECISD Ag Farm (Transportation provided for OHS/PHS students)	10-12

Course Description: This lab-based course prepares students for careers in the field of animal science and livestock production. Animal species to be addressed in this course may include, but are not limited to, beef cattle, dairy cattle, swine, sheep, goats, and poultry.

Level 4

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Veterinary Medical Application	1	8410 (1 semester)	13000600	ECISD Ag Farm (Transportation provided for OHS/PHS students)	11-12

Course Description: This course examines the scientific and technological dimensions of veterinary practice. Instruction is designed to allow for the application of scientific and medical aspects of animal science through field and laboratory experiences. (Prerequisite: 8406 Livestock Production, 8545 Small Animal Management & 8408 Equine Science)

Advanced Animal Science	1	8409 (1 semester)	13000700	ECISD Ag Farm (Transportation provided for OHS/PHS students)	11-12
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Course Description: This course 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. (Prerequisite: 8406 Livestock Production, 8545 Small Animal Management & 8408 Equine Science)

Practicum in Agricultural Science Practicum in Veterinary Technician	2	8411 8725	13002500	ECISD Ag Farm (Transportation provided for OHS/PHS students)	12
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Course Description: A laboratory-oriented course designed to develop skills in the various technical areas of agricultural industries. This practicum course emphasizes food crop production; animal science; livestock production and career opportunities, leadership activities, and business practices related to agriculture. Students can acquire hours toward their Vet Tech Certification. (Prerequisite: 8410 Veterinary Medical Application & 8409 Advanced Animal Science)

The Construction Management and Inspection program of study explores the occupations and educational opportunities associated with cost estimates for construction projects or services to aid management in bidding on or determining the price of products or services. This program of study may also include exploration into inspecting structures using engineering skills to determine structural soundness and compliance with specifications, building codes, and other regulations.

Program of Study Course Sequences

Year	High School Course	Credits
2	Construction Technology I	2
3	Construction Technology 2	2
3 or 4	Practicum in Construction Technology (HVAC)	2
	Practicum in Construction Technology (Plumbing)	2
4	Practicum in Construction Technology	2

Industry Certifications



National Center for Construction Education & Research (NCCER) Core Certification
NCCER Construction Technology

Learning Opportunities



Intern with a construction company
Shadow a project manager or inspector

Aligned Occupations

Occupations	Median Wage	Annual Openings	Growth
Construction and Building Inspectors	\$53,914	983	17%
Cost Estimators	\$63,939	2,239	21%
Construction Managers	\$87,402	2,401	14%

Successful completion of the Construction Management program of study will fulfill requirements of a Business and Industry endorsement. Revised – October 2022



Carpentry

Level 2

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Construction Technology I	2	8441	13005100	Frost Technical Center (Transportation Provided for OHS & PHS Students)	10-12

Course Description: In Construction Technology, students gain knowledge and skills specific to those needed to enter the work force as carpenters or building maintenance supervisors or prepare for a postsecondary degree in construction management. Students acquire knowledge and skills in safety, tool usage, building materials, codes, and framing.

Level 3

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Construction Technology II	2	8442	13005200	Frost Technical Center (Transportation Provided for OHS & PHS Students)	11-12

Course Description: In this course, students gain advanced knowledge and skills specific to those needed to enter the work force as carpenters, building maintenance technicians, or supervisors or prepare for a postsecondary degree in construction management. Students build on the knowledge base from Construction Technology and are introduced to exterior and interior finish out skills. This course prepares students for NCCER Construction Certifications. Students must meet industry requirements for licensure. (Prerequisite: 8441 Construction Technology I)

Level 4

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Practicum in Construction Technology	2	8458	13005250	Frost Technical Center (Transportation Provided for OHS & PHS Students)	11-12
Practicum in HVAC	2	8612	13005260		
Practicum in Plumbing	2	8461	13006210		

Course Description: This is a capstone course designed to provide classroom technical instruction or on-the-job training experiences. Safety and career opportunities are included in addition to work ethics and job-related study in the classroom. This course prepares students for NCCER Construction Certifications. Students must meet industry requirements for licensure. (Prerequisite: 8442 Construction Technology II)

Graphic Design & Multimedia Arts (Animation) Statewide Program of Study

Arts, Audio/Video, & Communications
Career Cluster

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.

Program of Study Course Sequences

Year	High School Course	Credits
1	Principles of Art, AV, & Communication	1
2	Animation I	1
3	Animation II/Lab	2
4	Practicum in Animation	2

Industry Certifications



Adobe Certified Professional in Visual Design Using Adobe Photoshop

Learning Opportunities

Intern with a multimedia or animation studio

Obtain a certificate or certification in graphic design



Aligned Occupations

Occupations	Median Wage	Annual Openings	Growth
Graphic Designers	\$44,824	1,433	15%
Multimedia Artists and Animators	\$67,392	186	21%

Successful completion of the Graphic Design & Multimedia Arts program of study will fulfill requirements of a Business and Industry endorsement. Revised – October 2022



Graphic Design & Multimedia (Animation)

Level 1

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Principles of Art, AV, & Communication	1	8709	13008200	Odessa High School Permian High School	9-12

Course Description: Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in the Arts, AV, & Communications career cluster and the knowledge, skills, and educational requirements for those opportunities.

Level 2

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Animation I	1	8465	13008300	Odessa High School Permian High School	10-12

Course Description: In this course, students will gain understanding and practice the fundamentals of 3-dimensional (3-D) graphic design and digital animation using Maya software. Animation prepares students for a variety of college and career fields including digital animation, video game design, 3-D digital art, and special effects design.

Level 3

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Animation II / Lab	2	8455	13008410	Odessa High School Permian High School	11-12

Course Description: Advanced Animation focuses on all aspects of motion graphics using Maya software. Within this context, students will be expected to create two- and three-dimensional animations. The instruction also assists students seeking careers in the animation industry including digital animation, video game design, 3-D digital art, and special effects design. (Prerequisite: 8465 Animation I)

Level 4

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Practicum in Animation	2	8467 8125	13008450 13008460	Odessa High School Permian High School	12

Course Description: Building upon the concepts taught in Animation II Lab, in addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an increasing understanding of the industry with a focus on applying pre-production, production, and post-production animation products in a professional environment. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities. (Prerequisite: 8455 Animation II / Lab)

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.

Program of Study Course Sequences

Year	High School Course	Credits
1	Principles of Art, AV, & Communication	1
2	Audio/Video Production I / Lab	2
3	Audio/Video Production 2 / Lab	2
4	Practicum in Audio Video Production	2

Industry Certifications



- Adobe Certified Associate
 - Photoshop
 - Premier Pro
 - After Effects
 - Audition

Learning Opportunities



- Intern at a local television station or video production company
- Work with a local company on a project

Aligned Occupations

Occupations	Median Wage	Annual Openings	Growth
Sound Engineering Technicians	\$39,562	79	27%
Camera Operators, Television, Video, and Motion Picture	\$50,024	129	9%
Audio and Video Equipment Technicians	\$40,581	757	29%
Film and Video Editors	\$47,382	118	23%

Successful completion of the Digital Communications program of study will fulfill requirements of a Business and Industry endorsement. Revised – October 2022



Audio / Video Production

Level 1

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Principles of Art, AV, & Communication	1	8709	13008200	Odessa High School Permian High School	9-12

Course Description: Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in the Arts, AV, & Communications career cluster and the knowledge, skills, and educational requirements for those opportunities.

Level 2

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Audio/Video Production I / Lab	2	8479	13008510	Career & Tech @ NTO (Transportation Provided for OHS/PHS Students)	10-12

Course Description: This course focuses on journalistic skill development in a variety of journalistic and technical settings. They will be provided training in the field of video production, learn the operation of studio and field cameras, videotape and digital editing equipment, audio equipment, and computer graphics. This course is for first year students who want to work in the Broadcasting Studio.

Level 3

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Audio/Video Production II / Lab	2	8472	13008610	Career & Tech @ NTO (Transportation Provided for OHS/PHS Students)	11-12

Course Description: In Advanced Audio and Video Production, students need to be critical viewers, consumers, and producers of media. This class provides advanced training and experience in television, from director to on-air talent. This course is for second year students who want to work in the Broadcasting Studio. (Prerequisite: 8479 Audio/Video Production I / Lab)

Level 4

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Practicum in Audio/Video Production	2	8622	13008700	Career & Tech @ NTO (Transportation Provided for OHS/PHS Students)	12

Course Description: Students study the role of media as a tool within academic, social, and democratic processes as they influence tastes, behavior, purchasing, and voting decisions. Students examine the historical development of different mass media and related technologies and personalities. Students will plan, produce, present, and evaluate media messages. They will develop ways to improve media and formulate guidelines for using media effectively to achieve governmental, societal, and cultural goals. (Prerequisite: 8472 Audio/Video Production II / Lab)

The Fashion program of study explores all phases of the apparel design process, using creativity and inspiration to oversee their raw ideas from sketches to samples and finally finished products. This program allows students to develop their personal aesthetic through experiential learning and acquire the technical skills necessary to transform two-dimensional drawings into three-dimensional garments.

Program of Study Course Sequences

Year	High School Course	Credits
1	Principles of Art, AV, & Communication	1
2	Fashion I / Lab	2
3	Fashion 2 / Lab	2
4	Practicum in Fashion	2

Industry Certifications



Students will explore opportunities to complete a recognized industry credential.

Learning Opportunities

- Operating a sewing machine, serger, and other industry machines/tools.
- Community collaborations/service
- Fashion Show



Aligned Occupations

Occupations	Median Wage	Annual Openings	Growth
Fashion Designers	\$53,534	181	42%
Merchandise Displayers	\$28,835	1,751	8%
Interior Designers	\$54,024	916	17%

Successful completion of the Digital Communications program of study will fulfill requirements of a Business and Industry endorsement. Revised – October 2022



Fashion

Level 1

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Principles of Art, AV, & Communication	1	8709	13008200	Odessa High School Permian High School	9-12

Course Description: Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in the Arts, AV, & Communications career cluster and the knowledge, skills, and educational requirements for those opportunities.

Level 2

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Fashion I / Lab	2	8457	13009310	Career & Tech @ NTO (Transportation Provided for OHS/PHS Students)	10-12

Course Description: Careers in fashion span all aspects of the textile and apparel industries. Within this context, students will be expected to develop an understanding of fashion and the textile and apparel industries with an emphasis on design.

Level 3

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Fashion II / Lab	2	8454	13009410	Career & Tech @ NTO (Transportation Provided for OHS/PHS Students)	11-12

Course Description: This course focuses on all aspects of the textile and apparel industries. Within this context, students will be expected to develop an understanding of fashion and the textile and apparel industries with an emphasis on design. (Prerequisite: 8457 Fashion I / Lab)

Level 4

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Practicum in Fashion	2	8477	13009500	Career & Tech @ NTO (Transportation Provided for OHS/PHS Students)	12

Course Description: This course focuses on all aspects of textile and apparel industries. Within this context, students will be expected to demonstrate proficiency in fashion design and production. Additionally, students will be expected to develop an understanding of the business aspects of fashion including promotion and retailing. Instruction will be delivered through lab-based classroom experiences with individual projects. (Prerequisite: 8454 Fashion II / Lab)

Graphic Design & Multimedia Arts (Graphic Design & Illustration)

Statewide Program of Study

Arts, Audio/Video, & Communications
Career Cluster

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.

Program of Study Course Sequences

Year	High School Course	Credits
1	Principles of Art, AV, & Communication	1
2	Graphics Design & Illustration I	1
3	Graphics Design & Illustration 2 / Lab	2
4	Practicum in Graphics Design & Illustration	2

Industry Certifications



Adobe Photoshop Certification
Adobe Illustrator Certification

Learning Opportunities

Intern at a local design company
Work with a local company on a project



Aligned Occupations

Occupations	Median Wage	Annual Openings	Growth
Graphic Designers	\$44,824	1,433	15%
Multimedia Artists and Animators	\$67,392	186	21%

Successful completion of the Digital Communications program of study will fulfill requirements of a Business and Industry endorsement. Revised – October 2022



Graphics Design & Illustration

Level 1

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Principles of Art, AV, & Communication	1	8709	13008200	Odessa High School Permian High School	9-12

Course Description: Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in the Arts, AV, & Communications career cluster and the knowledge, skills, and educational requirements for those opportunities.

Level 2

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Graphics Design & Illustration I	1	8633	13008800	Odessa High School Permian High School	10-12

Course Description: This course is the first half of a two-year program where students learn to use the tools necessary for a career in 2D and 3D print and media advertising, including web design, commercials, and special effects. Using 27-inch iMac computers, large format printers, t-shirt screening equipment and green screen technology, students will learn to create multimedia projects using programs such as Photoshop, Illustrator, Premiere, After Effects, Encore, Sound booth and Bridge. Students will have the opportunity to create posters, business cards, custom t-shirts, outdoor banners, websites, and their own movies.

Level 3

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Graphics Design & Illustration II / Lab	2	8452	13008910	Odessa High School Permian High School	11-12

Course Description: This course is a continuation of Graphic Design and Illustration. This is a project-based class where the students create projects from the first design to the final product. Projects are created using advanced tools and effects in Adobe products. These projects may be for a contest, a "for hire" by an outside customer, or a project the student chooses. Many Advanced Graphic Design and Illustration students have won State and National Awards, scholarships, and prizes for their projects. (Prerequisite: 8633 Graphics Design & Illustration I / Lab)

Level 4

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Practicum in Graphic Design & Illustration	2	8625	1300900	Odessa High School Permian High School	12

Course Description: This course expands on Graphic Design & Illustration, including advanced skills in image editing and vector graphic software focusing on original creation and design of computer graphics for use in illustration, web design and multimedia advertising. Students are expected to interpret, evaluate, and justify design decisions. Instruction is project-based, and students will develop advanced technical skills needed for success in graphic design and advertising industries while furthering their knowledge about career opportunities, requirements, and expectations in the workplace. Additional focus will be placed on professional communication strategies and ethical decision making regarding graphic design careers. (Prerequisite: 8452 Graphics Design & Illustration II / Lab)

The Accounting and Financial Services program of study teaches students how to examine, analyze, and interpret financial records. Through this program of study, students will learn the skills necessary to perform financial services, prepare financial statements, interpret accounting records, give advice, or audit and evaluate statements prepared by others.

Program of Study Course Sequences

Year	High School Course	Credits	Odessa College Course	Credits
1	Business Information Management I	1	BCIS 1305 Business Computers	3
	Money Matters	1		
2	Business Information Management II	1	POFT 1429 Keyboarding & Formatting POFI 2401 Word Processing POFI 1449 Spreadsheets POFI 2440 Advanced Word Processing	4 4 4 4
	Principles of Business, Marketing & Finance	1	BUSG 1301 Introduction to Business	3
3	Accounting I	1	ACCT 2301 Principles of Accounting* ACNT 1303 Intro to Accounting I	3 3
	Financial Math	1	POFT 1425 Business Math – Technology BMGT 2310 Financial Management	4 3
4	Accounting II	1	ACCT 2302 Principles of Accounting II* ACNT 1304 Intro to Accounting II	3 3
	Career Preparation I	2-3	POFT 1409 Administrative Office	4

Dual credit is available for courses in this Program of Study. Students interested in earning college credit should contact their counselor to ensure eligibility and registration in the appropriate dual credit course. Note: *TSI Math required

Industry Certifications

- QuickBooks Certified Users
- Microsoft Office Expert – Excel
- Level 1 Administrative Office Certificate – Odessa College

Learning Opportunities

Business Professionals of America
Student Organization

Internship with a local accounting
firm

Aligned Occupations

Occupations	Median Wage	Annual Openings	Growth
Accountants & Auditors	\$71,469	14,436	22%
Loan Officers	\$68,598	2,419	19%
Personal Financial Advisors	\$86,965	1,861	52%

Successful completion of the Accounting & Financial Services program of study will fulfill requirements of a Business and Industry endorsement. Revised – October 2022

Accounting & Financial Services

Level 1

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Business Information Management I	1	8542 4242 (Dual - Semester 1) 4243 (Dual - Semester 2)	13011400	Regular: OHS & PHS Dual: Online only through Odessa College	9-12 10-12
<i>Course Description:</i> Students will apply technical skills to address business applications of emerging technologies, like the Microsoft Office Suite, including word-processing documents, spreadsheets, databases, and electronic presentations.					
Money Matters	1	8506	13016200	Odessa High School Permian High School	9-12
<i>Course Description:</i> 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 will gain knowledge and skills necessary to establish short-term and long-term financial goals. Students will examine various methods of achieving short-term and long-term financial goals through various methods such as investing, tax planning, asset allocating, risk management, retirement planning, and estate planning.					
Principles of Business, Marketing & Finance	1	8486 4238 (Dual - Semester 2)	13011200	Odessa High School Permian High School	9-12
<i>Course Description:</i> Principles of Business, Marketing, and Finance is a foundation course for Business, Marketing, and Finance students. In this course, students gain knowledge and skills in economies and private enterprise systems, the impact of global business, marketing of goods and services, advertising, and product pricing.					

Level 2

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Business Information Management II	1	8122 4244 (Dual – Semester 1) 4255 (Dual – Semester 2)	13011500	Odessa High School Permian High School	10-12
<i>Course Description:</i> In Business Information Management II, students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions. (Prerequisite: Business Information Management I)					
Accounting I	1	8507 4492 (Dual - Semester 2) 4491 (Dual – Semester 2)	13016600	Regular OHS & PHS Dual: OHS & PHS or online only through Odessa College	11-12
<i>Course Description:</i> In Accounting, students investigate the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students engage in the process of recording, classifying, summarizing, analyzing, and communicating accounting information.					
Financial Math	1	6916 (Dual – Semester 2)	13018000	Dual: OHS & PHS	11-12
<i>Course Description:</i> Financial Mathematics is a course about personal money management. Students will apply critical-thinking skills to analyze personal financial decisions based on current and projected economic factors. (Prerequisite: Algebra I)					

Level 3

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Accounting II	1	8508 4568 (Dual – Semester 2) 4569 (Dual – Semester 2)	13016700	Regular: OHS & PHS Dual: OHS & PHS or online only through Odessa College	11-12
<i>Course Description:</i> Students investigate the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students reflect on this knowledge as they engage in various managerial and cost accounting activities. (Prerequisite: 8507 Accounting I)					

Level 4

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Career Preparation I	2-3	8401 (2 credits) 8403 (3 credits) 8402 (2 credits) 8404 (3 credits)	12701300 12701305 12701400 12701405	Odessa High School Permian High School	12
<i>Course Description:</i> Career Preparation serves as a capstone work-based learning course for programs of study. It is a worksite learning course designed to provide training in specific Career Cluster related careers. Classroom learning and work-site learning provide career and related training by alternating group and individual instruction in the classroom with the work-site training experiences at an approved training station in the local community.					

Business Management Statewide Program of Study

Business, Marketing, & Finance
Career Cluster

The Business Management program of study teaches students how to plan, direct, and coordinate the administrative services and operations of an organization. Through this program of study, students will learn the skills necessary to formulate policies, manage daily operations, and allocate the use of materials and human resources.

Program of Study Course Sequences

Year	High School Course	Credits	Odessa College Course	Credits
1	Business Information Management I	1	BCIS 1305 Business Computers	3
	Principles of Business, Marketing & Finance	1	BUSG 1301 Introduction to Business	3
2	Business Information Management II	1	POFT 1429 Keyboarding & Formatting	4
			POFI 2401 Word Processing	4
			POFI 1449 Spreadsheets	4
	Business Law	1	BUSG 2305 Business & Contracts	3
3	Business Management	1	BMGT 1327 Principles of Management	3
4	Career Preparation I	2-3	POFT 1409 Administrative Office	4

Dual credit is available for courses in this Program of Study. Students interested in earning college credit should contact their counselor to ensure eligibility and registration in the appropriate dual credit course.

Industry Certifications

Microsoft Office Expert - Word
Microsoft Office Expert - Excel

Learning Opportunities

Business Professionals of America
Student Organization

Aligned Occupations

Occupations	Median Wage	Annual Openings	Growth
Administrative Service Managers	\$96,138	2,277	21%
Management Analysts	\$87,651	4,706	32%
Supervisors of Administrative Support	\$57,616	14,982	20%

Successful completion of the Business Management program of study will fulfill requirements of a Business and Industry endorsement. Revised – October 2022



Business Management

Level 1

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Business Information Management I	1	8542 4242 (Dual - Semester 1) 4243 (Dual - Semester 2)	13011400	Regular: Odessa High School Permian High School Dual: Online only through Odessa College	9-12 10-12
<i>Course Description:</i> Students will apply technical skills to address business applications of emerging technologies, like the Microsoft Office Suite, including word-processing documents, spreadsheets, databases, and electronic presentations.					
Principles of Business, Marketing & Finance	1	8486 4238 (Dual - Semester 2)	13011200	Odessa High School Permian High School	10-12
<i>Course Description:</i> Principles of Business, Marketing, and Finance is a foundation course for Business, Marketing, and Finance students. In this course, students gain knowledge and skills in economics and private enterprise systems, the impact of global business, marketing of goods and services, advertising, and product pricing.					

Level 2

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Business Information Management II	1	8122 4244 (Dual – Semester 1) 4255 (Dual – Semester 2)	13011500	Regular & Dual: Odessa High School Permian High School	10-12
<i>Course Description:</i> In Business Information Management II, students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions. (Prerequisite: Business Information Management I)					
Business Law	1	8489 4240 (Dual – Semester 2)	13011700	Odessa High School Permian High School	11-12
<i>Course Description:</i> student identifies the rights and responsibilities of consumers, demonstrates an understanding of personal financial management, explains ethical concepts of integrity and confidentiality as related to the business environment, identifies employee rights and protections provided by law, explores the options for the organization and operation of a business, and researches the impact of the legal system on business. (Prerequisite: Principles of Business, Marketing, & Finance <u>or</u> Business Information Management I)					

Level 3

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Business Management	1	8490 4239 (Dual – Semester 2)	13012100	Odessa High School Permian High School	11-12
<i>Course Description:</i> In this course, students analyze the primary functions of business management and leadership, which are planning, organizing, staffing, directing, or leading, and controlling. Topics will incorporate social responsibility of business and industry. Students develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent managers, employees, and entrepreneurs. (Prerequisite: Principles of Business, Marketing, & Finance <u>or</u> Business Information Management I)					

Level 4

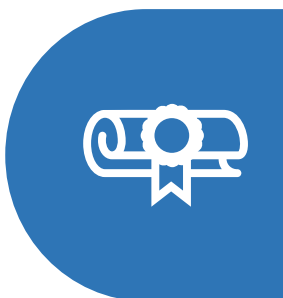
Course Name	Credit	Course Number	Service ID	Location	Grade Level
Career Preparation I	2-3	8401 (2 credits) 8016 (Dual – Semester 2) 8403 (3 credits) 8015 (Dual – Semester 2) 8402 (2 credits) 8017 (Dual – Semester 2) 8404 (3 credits) 8654 (Dual – Semester 2)	12701300 12701305 12701400 12701405	Odessa High School Permian High School	12
<i>Course Description:</i> Career Preparation serves as a capstone work-based learning course for programs of study. It is a worksite learning course designed to provide training in specific Career Cluster related careers. Classroom learning and work-site learning provide career and related training by alternating group and individual instruction in the classroom with the work-site training experiences at an approved training station in the local community.					

The Early Learning program of study focuses on early childhood education, which consists of instructing and supporting preschool and early elementary school students in activities that promote social, physical and intellectual growth as well as in basic elements of science, art, music, and literature. This program of study introduces CTE learners to tasks necessary for planning, directing, and coordinating activities for young children.

Program of Study Course Sequences

Year	High School Course	Credits	Odessa College Course	Credits
1	Principles of Education & Training	1	EDUC 1300 Learning Frameworks	3
2	Child Development	1		
3	Child Guidance	2	CDEC 1319 Child Guidance TCEA 1311 Educating Young Children CDEC 1323 Observation & Assessment	3 3 3
4	Practicum in Early Learning (Child Guidance)	2	CDEC 1359 Children with Special Needs CDEC 1321 The Infant & Toddler CDEC 1358 Creative Arts for Early Childhood	3 3 3

Dual credit is available for courses in this Program of Study. Students interested in earning college credit should contact their counselor to ensure eligibility and registration in the appropriate dual credit course.

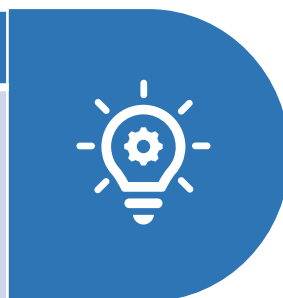


Industry Certifications

- Child Development Associate (CDA)
- Odessa College Child Development Certification Level 1

Learning Opportunities

- Teach a community education class
- Volunteer as a teaching assistant



Aligned Occupations

Occupations	Median Wage	Annual Openings	Growth
Kindergarten Teachers, except Special Education	\$53,310	1,848	17%
Preschool Teachers	\$27,851	4,330	17%
Elementary School Teachers	\$54,140	13,121	16%
Education Administrators	\$79,830	2407	16%

Successful completion of the Early Learning program of study will fulfill requirements of the Public Service endorsement. Revised – October 2022



Early Learning

Level 1

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Principles of Education and Training	1.0	8503	13014200	Odessa High School Permian High School	9-12

Course Description: 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.

Level 2

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Child Development	1	8698	13024700	Odessa High School Permian High School	10-12

Course Description: Child Development is a technical laboratory course that addresses knowledge and skills related to child growth and development from prenatal through school-age children, equipping students with child development skills. Students use these skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children.

Level 3

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Child Guidance	2	8667 4286 – Dual Semester 1 4287 – Dual Semester 2	13024800	Odessa High School Permian High School	11-12

Course Description: Child Guidance is a technical laboratory course that addresses the knowledge and skills related to child growth and guidance equipping students to develop positive relationships with children and effective caregiver skills. Students use these skills to promote the well- being and healthy development of children, strengthen a culturally diverse society, and pursue careers related to the care, guidance, and education of children, including those with special needs. Instruction may be delivered through school-based laboratory training or through work-based delivery arrangements such as cooperative education, mentoring, and job shadowing. Prerequisite: Child Development

Level 4

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Practicum of Early Learning	2	8678 4288 Dual Semester 1 4289 Dual Semester 2	13014520	Career & Tech Education at NTO (Transportation Provided for OHS/PHS Students)	12

Course Description: Practicum of Early Learning serves as a capstone work-based learning course for programs of study. It is a worksite learning course designed to provide training in specific Career Cluster related careers. Classroom learning and work-site learning provide career and related training by alternating group and individual instruction in the classroom with the work-site training experiences at an approved training station in the local community. Prerequisite: Child Guidance

The Teaching and Training program of study prepares CTE learners for careers related to teaching, instruction, and creation of instructional and enrichment materials. The program of study introduces CTE learners 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.

Program of Study Course Sequences

Year	High School Course	Credits	Odessa College/UTPB Course	Credits
1	Principles of Education & Training	1	EDUC 1300 Learning Frameworks	3
2	Instructional Practices	2	EDUC 1301 Introduction to Teaching EDUC 2301 Special Populations PSYC 2301 General Psychology	3 3 3
3	Practicum in Education & Training	2	EDUC 3322 Literature in the Classroom EDUC 4311 Social & Emotional Development	3 3
4	Practicum in Education & Training 2	2	EDUC 4313 Emergent Literacy EDUC 4362 Foundation of Bilingual/ESL	3 3

Dual credit is available for courses in this Program of Study. Students interested in earning college credit should contact their counselor to ensure eligibility and registration in the appropriate dual credit course.

Industry Certifications

Educational Aide I

Learning Opportunities

- Teach a community education class
- Intern as a teaching assistant or tutor
- Serve as a camp counselor

Aligned Occupations

Occupations	Median Wage	Annual Openings	Growth
Adult Basic and Secondary Education and Literacy Teachers and Instructors	\$48,069	862	17%
Middle School Teachers	\$54,510	6,407	15%
Career and Technical Education Teachers, Secondary	\$56,360	719	9%
Special Education Teachers, Secondary School	\$56,720	980	18%

Successful completion of the Teaching & Training program of study will fulfill requirements of the Public Service endorsement. Revised – October 2022



Teaching & Training

Level 1

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Principles of Education and Training	1.0	8503	13014200	Odessa High School Permian High School	9-12

Course Description: 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.

Level 2

Course Name	Credit	Course Number	Service ID	Location	Grade Level
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No Level 2 courses in this program

Level 3

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Instructional Practices	1	4294 – Dual Semester 1 4295 – Dual Semester 2	13014400	Career & Tech Education @ NTO (Transportation Provided for OHS/PHS Students)	10-12

Course Description: 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.
Prerequisite: Acceptance into the Future Teachers of Odessa Program

Level 4

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Practicum in Education & Training I	2	4296 – Dual Semester 1 4297 – Dual Semester 2	13014500	Career & Tech Education @ NTO (Transportation Provided for OHS/PHS Students)	11-12

Course Description: 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. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, make physical arrangements, and complete other responsibilities of classroom teachers, trainers, paraprofessionals, or other educational personnel.
Prerequisite: Instructional Practices

Practicum in Education & Training II	2	4298 – Dual Semester 1 4299 – Dual Semester 2	13014510	Career & Tech Education @ NTO (Transportation Provided for OHS/PHS Students)	12
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Course Description: 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. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, make physical arrangements, and complete other responsibilities of classroom teachers, trainers, paraprofessionals, or other educational personnel.
Prerequisite: Practicum in Education and Training I

Cosmetology and Personal Care Services Regional Program of Study

Human Services
Career Cluster

The Cosmetology and Personal Care Services program of study introduces CTE learners to knowledge and skills related to providing beauty and personal care services. CTE concentrators may learn about or practice managing personal care facilities and coordinating or supervising personal service workers.

Program of Study Course Sequences

Year	High School Course	Credits	Odessa College Course	Credits
3	Introduction to Cosmetology	1	CSME 1405 Manicuring CSME 1443 Manicuring and Related Theory	4 4
	Cosmetology I	2	CSME 1451 Artistry/Hair, Theory & Practice CSME 1447 Principles of Skin Care/Facials	4 4
4	Cosmetology II	3	CSME 1453 Chemical Reformation & Theory CSME 2439 Advanced Hair Design CSME 2401 Principles of Hair Coloring CSME2441 Preparation for State Licensing	4 4 4 4

Dual credit is available for courses in this Program of Study. Students interested in earning college credit should contact their counselor to ensure eligibility and registration in the appropriate dual credit course.

Industry Certifications

Cosmetology Operator License
Level I Certification from Odessa College

Learning Opportunities

Job shadow a cosmetologist
Work part-time at a beauty salon, spa, or barbershop

Aligned Occupations

Occupations	Median Wage	Annual Openings	Growth
Hairdresser, Hairstylist, Cosmetologist	\$21,507	3,489	22%
Manicurists and Pedicurists	\$21,715	418	45%
Skincare Specialists	\$26,437	637	22%
First-Line Supervisors of Personal Service Workers	\$36,941	1,634	24%

Successful completion of the Cosmetology program of study will fulfill requirements of a Public Service endorsement Revised – October 2022



Cosmetology and Personal Care Services

Level 1

Course Name	Credit	Course Number	Service ID	Location	Grade Level
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No Level 1 courses for this program

Level 2

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Introduction to Cosmetology	1	4252 (semester I) 4253 (semester 2)	13025100	Odessa College	11

Course Description: In Introduction to Cosmetology, students explore careers in the cosmetology industry. To prepare for success, students must have academic and technical knowledge and skills relative to the industry. Students may begin to earn hours toward state licensing requirements. Prerequisite: Students must meet requirements as set by Odessa College.

Level 3

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Cosmetology I	2	4254 (semester I) 4255 (semester 2)	13025200	Odessa College	11

Course Description: In Cosmetology I, students coordinate integration of academic, career, and technical knowledge and skills in this laboratory instructional sequence course designed to provide job-specific training for employment in cosmetology careers. Instruction includes sterilization and sanitation procedures, hair care, nail care, and skin care and meets the Texas Department of Licensing and Regulation (TDLR) requirements for licensure upon passing the state examination. Analysis of career opportunities, license requirements, knowledge and skills expectations, and development of workplace skills are included. Prerequisite: Students must meet requirements as set by Odessa College.

Level 4

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Cosmetology II	3	4256 (semester I) 4257 (semester 2)	13025200	Odessa College	12

Course Description: Cosmetology II /Cosmetology II Lab provides students additional lab time to develop proficient and mastery level cosmetology skills and techniques as required by Texas Department of Licensing and Regulation licensing standards. Students are expected to develop proficient and mastery level work samples and to expand their work experiences. Prerequisite: Introduction to Cosmetology and Cosmetology I

Healthcare Diagnostics

Statewide Program of Study

Health Science
Career Cluster

The Healthcare Diagnostics program of study introduces students to occupations and education 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 ultrasound technology.

Program of Study Course Sequences

Year	High School Course	Credits	Odessa College Course	Credits
1	Principles of Health Science	1		
2	Principles of Diagnostic Healthcare	1		
	Medical Terminology	1		
3	Health Science Clinicals	2		
4	Practicum In Health Science (Phlebotomy, EKG, Medical Assistant, Dental Assistant, Pharmacy Technician, & EMT)	1-2	EMSP 1501 Emergency Medical Technician Basic (EMT only) EMSP 1160 Clinical-EMT	5 1
	Anatomy & Physiology	1		

Dual credit is available for courses in this Program of Study. Students interested in earning college credit should contact their counselor to ensure eligibility and registration in the appropriate dual credit course.

Industry Certifications



Phlebotomy, Pharmacy, Technician, EMT, EKG, Medical Assistant, & Registered Dental Assistance

Learning Opportunities

Perform clinical rotations at a community wellness center, hospital, assisted living, nursing home



Aligned Occupations

Occupations	Median Wage	Annual Openings	Growth
Diagnostic Medical Sonographers	\$69,909	495	35%
Phlebotomist	\$30,597	1,442	36%
Nuclear Medicine Technologists	\$75,962	91	13%
Radiologic Technologists	\$55,494	1,196	21%

Successful completion of the Healthcare Diagnostics program of study will fulfill requirements of the Public Service or STEM endorsement if the math and science requirements are met. Revised – August 2022



Healthcare Diagnostics

Level 1

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Principles of Health Science	1	8708	13020200	Odessa High School Permian High School	9-12

Course Description: 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 health care industry.

Principles of Diagnostic Healthcare	1	8365	N1302106	Career & Tech Education @ NTO (Transportation Provided for OHS/PHS Students)	10-12
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Course Description: The Principles of Diagnostic Healthcare course is designed to provide students with an overview of the education and career opportunities in this rapidly growing and significant sector of health care. Students will be provided with experiential learning activities in clinical diagnostic applications while building the knowledge and skills needed to investigate and analyze disease processes. The goal is to prepare students for 21st-century careers and with an emphasis on the development of knowledge, understanding, and application of science, biology, technology, and mathematical skills. Clinical diagnostic careers require students to generate intellectual inquiry, entice critical thinking, and use problem-solving and analytical skills that will lead to data-driven decisions.

Level 2

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Medical Terminology	1	8514	13020300	Career & Tech Education @ NTO (Transportation Provided for OHS/PHS Students)	10-12

Course Description: 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.

Level 3

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Health Science Clinical	2	8466	13020410	Career & Tech Education @ NTO (Transportation Provided for OHS/PHS Students)	11-12

Course Description: 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. Districts are encouraged to offer this course in a consecutive block with Health Science Theory to allow students sufficient time to master the content of both courses.

Prerequisite: Medical Terminology

Emergency Medical Technician	1	4593	N1303015	Odessa College (Transportation Provided for OHS, PHS, & NTO Students)	12
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Course Description: Emergency Medical Technician (EMT)—Basic instructs students to meet and exceed standard knowledge needed to be a valid Emergency Medical Technician. The curriculum includes skills necessary for a student to provide entry level emergency medical care, life support, and ambulance service. The EMT—Basic course is an introductory course to concepts, knowledge, and skills needed by EMTs in the areas of communications, transportation, and recordkeeping. Students interested in working in public safety, including fire, police, and ambulance operators will be capable of performing the job expectations of an EMT safely and effectively after the completion of this course.

Prerequisite: Medical Terminology & Students must meet requirements as set by Odessa College.

Level 4

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Practicum in Health Science <ul style="list-style-type: none"> • Phlebotomy • EKG • Medical Assistant • Pharmacy Tech • Dental Assistant 	1-2	8722 (1 credit) 8720 (1 credit) 8721 (2 credits) 8517 (2 credits) 8724 (2 credits)	13020505	Career & Tech Education @ NTO Dental Assistant is offered at Odessa College through the Continuing Education Department (Transportation Provided for OHS, PHS, & NTO Students)	12

Course Description: 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: Medical Terminology Prerequisite Dental Assistant: Medical Terminology and students must meet requirements as set by Odessa College.

Anatomy & Physiology	1	8618 3247 (NC)	13020410	Odessa High School Permian High School	11-12
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Course Description: 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.

Note: This course satisfies a science credit requirement for students on the Foundation High School Program.

GPA: 4.0 regular

The Nursing Science program of study introduces students to the knowledge and skills related to patient care. CTE learners may learn about or practice caring for patients, routine procedures such as monitoring vital signs, development and implementation of care plans, maintenance of medical records, and disease or pain management.

Program of Study Course Sequences

Level	High School Course	Credits	Odessa College Course	Credits
1	Principles of Health Science	1		
2	Medical Terminology	1		
	Principles of Diagnostics	1		
3	Health Science Clinicals	2		
	Practicum in Health Science (LVN I)	3	VNSG 1405, VNSG 1227, VNSG 1402, & VNSG 1400	14
4	Practicum In Health Science (CNA)	2		
	Practicum in Health Science (LVN 2)	3	VNSG 1509, VSNG 2510, VNSG 1334, VNSG 1330, VNSG 1361	19
	Anatomy & Physiology	1		

Dual credit is available for courses in this Program of Study. Students interested in earning college credit should contact their counselor to ensure eligibility and registration in the appropriate dual credit course.

Industry Certifications

Licensed Vocational Nurse
Certified Nursing Assistant

Learning Opportunities

Volunteer at a community wellness center, hospital, assisted living center, or nursing home

Aligned Occupations

Occupations	Median Wage	Annual Openings	Growth
Licensed Vocational Nurses	\$45,178	7,186	21%
Registered Nurses	\$68,682	17,493	26%
Nurse Practitioners	\$107,827	977	50%
Nurse Anesthetists	\$154,856	357	23%

Successful completion of the Healthcare Diagnostics program of study will fulfill requirements of the Public Service or STEM endorsement if the math and science requirements are met. Revised – August 2022



Nursing Science

Level 1

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Principles of Health Science	1	8708	13020200	Odessa High School & Permian High School	9-12

Course Description: 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 health care industry.

Principles of Diagnostic Healthcare	1	8365	N1302106	Career & Tech Education @ NTO Transportation provided for OHS & PHS students	10-12
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Course Description: The Principles of Diagnostic Healthcare course is designed to provide students with an overview of the education and career opportunities in this rapidly growing and significant sector of health care. Students will be provided with experiential learning activities in clinical diagnostic applications while building the knowledge and skills needed to investigate and analyze disease processes. The goal is to prepare students for 21st-century careers and with an emphasis on the development of knowledge, understanding, and application of science, biology, technology, and mathematical skills. Clinical diagnostic careers require students to generate intellectual inquiry, entice critical thinking, and use problem-solving and analytical skills that will lead to data-driven decisions.

Level 2

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Medical Terminology	1	8514	13020300	Career & Tech Education @ NTO Transportation provided for OHS & PHS students	10-12

Course Description: 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.

Level 3

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Health Science Clinical	2	8466	1302041.70	Career & Tech Education @ NTO Transportation provided for OHS & PHS students	11-12

Course Description: 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. Districts are encouraged to offer this course in a consecutive block with Health Science Theory to allow students sufficient time to master the content of both courses.
Prerequisite: Medical Terminology

LVN I – Health Science Theory Dual	1.5	4280 (semester 1)	13020410	Odessa College	11
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Course Description: 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. Districts are encouraged to offer this course in a consecutive block with Health Science Theory to allow students sufficient time to master the content of both courses.
Prerequisite: Medical Terminology and students must meet requirements as set by Odessa College.

Level 4

Course Name	Credit	Course Number	Service ID	Location	Grade Level
LVN I – Practicum in Health Science Dual	1.5	4281 (semester 2)	13020505	Odessa College	11

Course Description: 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.

Practicum in Health Science LVN II	3	4282 (semester I) 4283 (semester 2)	13020515	Odessa College	12
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Course Description: The Extended 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: LVN I – Practicum in Health Science Dual

Practicum in Health Science C.N.A.	2	8516	13020500	OC through the Continuing Ed Department Transportation provided for OHS & PHS students	12
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Course Description: 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: Medical Terminology and students must meet requirements as set by Odessa College.

Anatomy & Physiology	1	8618, 3247 (NC)	13020410	Odessa High School & Permian High School	11-12
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Course Description: 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.
Note: This course satisfies a science credit requirement for students on the Foundation High School Program.

The Culinary Arts program of study introduces CTE learners to occupations and educational opportunities related to the planning, directing, or coordinating activities of a food and beverage organization or department. This program of study also explores opportunities involved in directing and participating in the preparation and cooking of food.

Program of Study Course Sequences

Year	High School Course	Credits	Odessa College Course	Credits
1	Principles of Hospitality & Tourism	1		
2	Culinary Arts	2	CHEF 1305 Sanitation & Safety	3
3	Advanced Culinary Arts	2	CHEF 1301 Basic Food Prep CHEF 2301 Intermediate Food Prep	3 3
4	Practicum in Culinary Arts	2	RSTO 1321 Menu Management RSTO 1304 Dining Room Service	3 3

Dual credit is available for courses in this Program of Study. Students interested in earning college credit should contact their counselor to ensure eligibility and registration in the appropriate dual credit course.

Industry Certifications



ServSafe
 Food Production Cook

Learning Opportunities

Plan a catering event or work for a catering company

Work in a restaurant



Aligned Occupations

Occupations	Median Wage	Annual Openings	Growth
Food and Beverage Managers	\$55,619	1,561	28%
Chef and Head Cooks	\$43,285	1,366	25%
Food Science Technicians	\$34,382	236	11%

Successful completion of the Culinary Arts program of study will fulfill requirements of a Business and Industry endorsement. Revised – October 2022



Culinary Arts

Level 1

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Principles of Hospitality & Tourism	1	8605	13022200	Odessa High School Permian High School	9-12

Course Description: Principles of Hospitality and Tourism introduces students to an industry that encompasses lodging, travel and tourism, recreation, amusements, attractions, and food/beverage operations. Students learn knowledge and skills focusing on communication, time management, and customer service that meet industry standards. Students will explore the history of the hospitality and tourism industry and examine characteristics needed for success in that industry.

Level 2

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Culinary Arts	2	8527 4270 (Dual – Semester 2)	13022600	Career & Tech @ NTO (Transportation Provided for OHS/PHS Students)	10-12

Course Description: Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students can pursue a national sanitation certification or other appropriate industry certifications. This course is offered as a laboratory-based course.

Level 3

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Advanced Culinary Arts	2	8422 4272 (Dual – Semester 1) 4273 (Dual – Semester 2)	13022650	Career & Tech @ NTO (Transportation Provided for OHS/PHS Students)	11-12

Course Description: Advanced Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students can pursue a national sanitation certification, a culinary certification, or any other appropriate industry certification. (Prerequisite: 8527 Culinary Arts)

Level 4

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Practicum in Culinary Arts	2	8528 4274 (Dual – Semester 1) 4275 (Dual – Semester 2)	13022700	Career & Tech @ NTO (Transportation Provided for OHS/PHS Students)	12

Course Description: The practicum in Culinary Arts requires students to demonstrate proficiency in the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students can pursue a national sanitation certification, a culinary certification, or any other appropriate industry certification. (Prerequisite: 8422 Advanced Culinary Arts)

The Networking Systems program of study explores the occupations and educational opportunities associated with designing and implementing computer and information networks, such as local area networks (LAN), wide area networks (WAN), intranets, extranets, and other data communications networks. This program of study may also include exploration into analyzing science, engineering, and other data processing problems to implement and improve computer systems.

Program of Study Course Sequences

Year	High School Course	Credits	Odessa College Course	Credits
3	Principles of Information Technology	1	ITSC 1401 Introduction to Computers INTW 1325 Fundamentals of Networking	4 3
	Computer Maintenance	1	ITSC 1305 Introduction to PC Operating Systems	3
4	Computer Technician Practicum	2	ITSC 1325 Personal Computer Hardware ITSE 1394 Special Topics in Computer Science	3 3

Dual credit is available for courses in this Program of Study. Students interested in earning college credit should contact their counselor to ensure eligibility and registration in the appropriate dual credit course.

Industry Certifications



Level 1 Desktop Technician at Odessa College

Learning Opportunities

Job shadow a computer network architect or support specialist



Aligned Occupations

Occupations	Median Wage	Annual Openings	Growth
Computer Network Architects	\$111,633	1,082	23%
Computer Systems Analysts	\$87,568	5,937	29%
Computer Network Support Specialists	\$68,037	1,824	19%

Successful completion of the Networking Systems program of study will fulfill requirements of a Business and Industry endorsement or STEM endorsement if the math and science requirements are met. Revised – October 2022



Information Technology Support & Services

Level 1

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Principles of Information Technology	1	4232	13027200	Odessa College (Transportation provided for OHS, PHS and NTO students)	11-12

Course Description: In Principles of Information Technology, students will develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Students will enhance reading, writing, computing, communication, and reasoning skills and apply them to the information technology environment.

Level 2

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Computer Maintenance	1	8546 4233 (Dual – Semester 2)	13027300	Odessa College (Transportation provided for OHS, PHS and NTO students)	11-12

Course Description: Computer Maintenance course scope and sequence within the Information Technology Career Cluster® summarizes the content to be taught, and one possible order for teaching the units of instruction. A brief description of each unit and the corresponding TEKS are included. This scope and sequence may be adapted or adopted by the local education agency. (Prerequisite: 4232 Principles of Information Technology)

Level 3

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Computer Technician Practicum	2	4235	13027500	Odessa College (Transportation provided for OHS, PHS and NTO students)	12

Course Description: In the Computer Technician Practicum, students will gain knowledge and skills in computer technologies, including advanced knowledge of electrical and electronic theory, computer principles, and components related to the installation, diagnosis, service, and repair of computer-based technology systems. Students will reinforce, apply, and transfer their knowledge and skills to a variety of settings and problems. Proper use of analytical skills and application of IT concepts and standards are essential to prepare students for success in a technology-driven society. (Prerequisite: 8546 Computer Maintenance)

Law Enforcement Statewide Program of Study

Law & Public Service
Career Cluster

The Law Enforcement program of study teaches CTE learners about the development of, adherence to, and protection of various branches of law. Students will learn how to appropriately and legally respond to breaches in the law according to statutory rules and regulations as well as investigate how and why the breaches occurred.

Program of Study Course Sequences				
Year	High School Course	Credits	Odessa College Course	Credits
3	Principles of Law Enforcement	1	CRIJ 1301 Introduction to Criminal Justice CRIJ 2328 Police Systems & Practices	3 3
	Law Enforcement I	1	CRIJ 1306 Court Systems and Practices CRIJ 1310 Fundamentals of Criminal Law	3 3
4	Law Enforcement 2	1	CRIJ 2323 Legal Aspects of Law Enforcement CJLE 1327 interview and Report Writing for CJ Professionals	3 3
	Practicum of Law Enforcement	1	HMSY 1337 Introduction to Homeland Security CRIJ 2314 Criminal Investigation	3 3
	Forensic Science	1		

Dual credit is available for courses in this Program of Study. Students interested in earning college credit should contact their counselor to ensure eligibility and registration in the appropriate dual credit course.



Industry Certifications

Level 1 Certification in Criminal Justice

Learning Opportunities

Attend court hearings and other legal procedures



Aligned Occupations

Occupations	Median Wage	Annual Openings	Growth
Police and Sheriff's Patrol Officers	\$60,112	5,241	13%
Probation Officers and Correctional Officers	\$44,054	793	9%
Correctional Officers and Jailers	\$40,186	4,683	9%
Immigration and Customs Inspectors	\$78,104	1,236	9%

Successful completion of the Law Enforcement program of study will fulfill requirements of the Public Service endorsement. Revised – October 2022



Law Enforcement

Level 1

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Principles of Law Enforcement Dual	1	4264 (Semester 1)	13029200	Odessa College (Transportation provided for OHS, PHS and NTO students)	11-12

Course Description: Principles of Law Enforcement 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.
Prerequisite: Students must meet requirements as set by Odessa College.

Level 2

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Law Enforcement I Dual	1	4265 (Semester 2)	13029300	Odessa College (Transportation provided for OHS, PHS and NTO students)	11-12

Course Description: Law Enforcement I is an overview of the history, organization, and functions of local, state, and federal law enforcement. Students will understand the role of constitutional law at local, state, and federal levels; the U.S. legal system; criminal law; and law enforcement terminology and the classification and elements of crime.
Corequisite: Principles of Law Enforcement Dual

Level 3

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Law Enforcement II Dual	1	4266 (Semester 1)	13029400	Odessa College (Transportation provided for OHS, PHS and NTO students)	12

Course Description: Law Enforcement II provides the knowledge and skills necessary to prepare for a career in law enforcement. Students will understand ethical and legal responsibilities, patrol procedures, first responder roles, telecommunications, emergency equipment operations, and courtroom testimony.
Prerequisite: Law Enforcement I Dual

Level 4

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Practicum in Law Enforcement Dual	1	4267 (Semester 2)	13030100	Odessa College (Transportation provided for OHS, PHS and NTO students)	12

Course Description: The practicum course is designed to give students supervised practical application of previously studied knowledge and skills in law, public safety, corrections, and security. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.
Corequisite: Law Enforcement II Dual

Forensic Science	1	8552 3302 (NC)	13029500	Odessa High School Permian High School	11-12
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Course Description: Forensic Science is a course that introduces students to the application of science to connect a violation of law to a specific criminal, criminal act, or behavior and victim. Students will learn terminology and procedures related to the search and examination of physical evidence in criminal cases as they are performed in a typical crime laboratory. Using scientific methods, students will collect and analyze evidence such as fingerprints, bodily fluids, hairs, fibers, paint, glass, and cartridge cases. Students will also learn the history and the legal aspects as they relate to each discipline of forensic science and understand that scientific methods of investigation can be experimental, descriptive, or comparative.

Note: This course satisfies a science credit requirement for students on the Foundation High School Program.
GPA: 4.0 regular

Law Enforcement (Criminal Justice) Statewide Program of Study

Law & Public Service
Career Cluster

The Law Enforcement program of study teaches CTE learners about the development of, adherence to, and protection of various branches of law. Students will learn how to appropriately and legally respond to breaches in the law according to statutory rules and regulations as well as investigate how and why the breaches occurred.

Program of Study Course Sequences

Level	High School Course	Credits	Odessa College Course	Credits
3	Principles of Criminal Justice	1	CRIJ 1301 Introduction to Criminal Justice CRIJ 2328 Police Systems & Practices	3 3
	Criminal Justice I	1	CRIJ 1306 Court Systems & Practices CRIJ 2313 Correctional Systems & Practices	3 3
4	Criminal Justice 2	1	CRIJ 1310 Fundamental of Criminal Law CRIJ 1313 Juvenile Justice System	3 3
	Practicum of Criminal Justice	1	CJCR 1304 Probation & Parole CISA 1348 Ethics in Criminal Justice	3 3
	Forensic Science	1		

Dual credit is available for courses in this Program of Study. Students interested in earning college credit should contact their counselor to ensure eligibility and registration in the appropriate dual credit course.

Industry Certifications

Level 1 Certification in
Criminalistics

Learning Opportunities

Attend court hearings and other
legal procedures

Aligned Occupations

Occupations	Median Wage	Annual Openings	Growth
Police and Sheriff's Patrol Officers	\$60,112	5,241	13%
Probation Officers & Correctional Officers	\$44,054	793	9%
Correctional Officers and Jailers	\$40,186	4,683	9%
Immigration and Customs Inspectors	\$78,104	1,236	9%

Successful completion of the Law Enforcement program of study will fulfill requirements of the Public Service endorsement. Revised – October 2022



Criminal Justice

Level 1

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Principles of Criminal Justice Dual	1	4260 (Semester 1)	13029200	Odessa College (Transportation provided for OHS, PHS and NTO students)	11-12

Course Description: Principles of Criminal Justice 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.
Prerequisite: Students must meet requirements as set by Odessa College.

Level 2

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Criminal Justice I Dual	1	4261 (Semester 2)	13029300	Odessa College (Transportation provided for OHS, PHS and NTO students)	11-12

Course Description: Criminal Justice Dual is an overview of the history, organization, and functions of local, state, and federal law enforcement. Students will understand the role of constitutional law at local, state, and federal levels; the U.S. legal system; criminal law; and law enforcement terminology and the classification and elements of crime.
Corequisite: Principles of Criminal Justice Dual

Level 3

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Criminal Justice II Dual	1	4262 (Semester 1)	13029400	Odessa College (Transportation provided for OHS, PHS and NTO students)	12

Course Description: Criminal Justice II provides the knowledge and skills necessary to prepare for a career in law enforcement. Students will understand ethical and legal responsibilities, patrol procedures, first responder roles, telecommunications, emergency equipment operations, and courtroom testimony.
Prerequisite: Criminal Justice I Dual

Level 4

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Practicum in Criminal Justice Dual	1	4263 (Semester 2)	13030100	Odessa College (Transportation provided for OHS, PHS and NTO students)	12

Course Description: The practicum course is designed to give students supervised practical application of previously studied knowledge and skills in law, public safety, corrections, and security. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.
Corequisite: Law Enforcement II Dual

Forensic Science	1	8552 3302 (NC)	13029500	Odessa High School Permian High School	11-12
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Course Description: Forensic Science is a course that introduces students to the application of science to connect a violation of law to a specific criminal, criminal act, or behavior and victim. Students will learn terminology and procedures related to the search and examination of physical evidence in criminal cases as they are performed in a typical crime laboratory. Using scientific methods, students will collect and analyze evidence such as fingerprints, bodily fluids, hairs, fibers, paint, glass, and cartridge cases. Students will also learn the history and the legal aspects as they relate to each discipline of forensic science and understand that scientific methods of investigation can be experimental, descriptive, or comparative.

Note: This course satisfies a science credit requirement for students on the Foundation High School Program.

GPA: 4.0 regular

Legal Studies(Paralegal) Statewide Program of Study

Law & Public Service
Career Cluster

The Legal Studies program of study introduces CTE learners to the occupations and educational opportunities related to representing clients in criminal and civil litigation and other legal proceedings, as well as assisting lawyers and preparing legal documents. This program of study explores possible specializations in a single area of law.

Program of Study Course Sequences

Year	High School Course	Credits	Odessa College Course	Credits
2	Principles of Law & Public Safety	1	LGLA 1307 Intro to Law and Legal Prof LGLA 1349 Constitutional Law	3 3
	Legal Research & Writing	1	LGLA 1301 Legal Research and Writing LGLA 1351 Contracts	3 3
3	Practicum in Paralegal 1	2	LGLA 1355 Family Law	3
			LGLA 1345 Civil Litigation	3
			LGLA 2303 Torts and Personal Injury Law	3
			LGLA 1353 Wills, Trust and Probate	3
4	Practicum in Paralegal 2	2	LGLA 2309 Real Property	3
			LGLA 2311 Business Organizations	3
			LGLA 2333 Advanced Legal Document	3
			LGLA 2313 Criminal Law and Procedures	3

Dual credit is available for courses in this Program of Study. Students interested in earning college credit should contact their counselor to ensure eligibility and registration in the appropriate dual credit course.

Industry Certifications

Odessa College Level 2 Certificate

Learning Opportunities

Intern with a local attorney •
Script and conduct a mock trial

Labor Market Information

Occupations	Median Wage	Annual Openings	Growth
Lawyers	\$126,131	2,801	19%
Paralegal and Legal Assistants	\$50,544	2,837	19%

Successful completion of the Legal Studies program of study will fulfill requirements of the Public Service endorsement. Revised – October 2022



Legal Studies (Paralegal)

Level 1

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Principles of Law and Public Safety Dual	1	4216 (Semester 1)	13029200	Odessa College (Transportation provided for OHS, PHS and NTO students)	10-12

Course Description: Principles of Law and Public Safety 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.
Prerequisite: Students must meet requirements as set by Odessa College.

Level 2

Course Name	Credit	Course Number	Service ID	Location	Grade Level
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No Level 2 courses in this program

Level 3

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Legal Research and Writing Dual	1	4217 (Semester 1)	N1303014	Odessa College (Transportation provided for OHS, PHS and NTO students)	10-12

Course Description: Legal Research and Writing provides an introduction into the study and practice of legal writing and research. This course is designed to introduce students to the methods and tools used to conduct legal research, develop and frame legal arguments, produce legal writings such as briefs, memorandums, and other legal documents, study U.S. Constitutional law, and prepare for appellate argument(s).
Corequisite: Principles of Law and Public Safety Dual

Level 4

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Practicum in Paralegal I Dual	2	4218 (Semester 1) 4219 (Semester 2)	13030100	Odessa College (Transportation provided for OHS, PHS and NTO students)	11-12

Course Description: The practicum course is designed to give students supervised practical application of previously studied knowledge and skills in law, public safety, corrections, and security. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.
Prerequisite: Legal Research and Writing Dual

Practicum in Paralegal II Dual	2	4220 (Semester 1) 4221 (Semester 2)	13030110	Odessa College (Transportation provided for OHS, PHS and NTO students)	12
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Course Description: The practicum course is designed to give students supervised practical application of previously studied knowledge and skills in law, public safety, corrections, and security. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.
Prerequisite: Legal Research and Writing Dual

Forensic Science	1	8552 3302 (NC)	13029500	Odessa High School Permian High School	11-12
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Course Description: Forensic Science is a course that introduces students to the application of science to connect a violation of law to a specific criminal, criminal act, or behavior and victim. Students will learn terminology and procedures related to the search and examination of physical evidence in criminal cases as they are performed in a typical crime laboratory. Using scientific methods, students will collect and analyze evidence such as fingerprints, bodily fluids, hairs, fibers, paint, glass, and cartridge cases. Students will also learn the history and the legal aspects as they relate to each discipline of forensic science and understand that scientific methods of investigation can be experimental, descriptive, or comparative.

Note: This course satisfies a science credit requirement for students on the Foundation High School Program.


GPA: 4.0 regular

The Fire Academy program is offered through the Odessa College’s Fire Academy (OCFA). The program offers on campus and online firefighter training which combines traditional and contemporary methodologies and is designed to allow the student to be gainfully employed upon completion of 24 college credit hours.

Program of Study Course Sequences

Year	High School Course	Credits	Odessa College Course	Credits
3	Firefighter 1	2	FIRS 1301 Firefighter Certification I	3
			FIRS 1407 Firefighter Certification II	4
			FIRS 1313 Firefighter Certification III	3
			FIRS 1319 Firefighter Certification IV	3
4	Firefighter 2 Emergency Medical Technician Basic	2.5	FIRS 1323 Firefighter Certification V	3
			FIRS 1329 Firefighter Certification VI	3
			FIRS 1433 Firefighter Certification VII	4
			FIRS 1167 Firefighter Certification VIII	1
			EMSP 1501 Emergency Medical Technician Basic	5
			EMSP 1160 Clinical-EMT	1

Dual credit is available for courses in this Program of Study. Students interested in earning college credit should contact their counselor to ensure eligibility and registration in the appropriate dual credit course.



Industry Certifications

- Basic Firefighter Certification
- Emergency Medical Technician

Learning Opportunities



Labor Market Information

Occupations	Median Wage	Annual Openings	Growth
Firefighters	\$50,149	2,309	13%
Fire Inspectors and Investigators	\$54,787	161	14%
Emergency Medical Technicians	\$34,091	1,880	31%

Successful completion of the Legal Studies program of study will fulfill requirements of the Public Service endorsement. Revised – October 2022



Fire Academy

Level 1

Course Name	Credit	Course Number	Service ID	Location	Grade Level
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No Level 1 courses in this program

Level 2

Course Name	Credit	Course Number	Service ID	Location	Grade Level
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No Level 2 courses in this program

Level 3

Course Name	Credit	Course Number	Service ID	Location	Grade Level
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Firefighter I Dual	2.0	4222 (Semester I) 4223 (Semester 2)	13029900	Odessa College (Transportation provided for OHS, PHS and NTO students)	11-12
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Firefighter I introduces students to firefighter safety and development. Students will analyze Texas Commission on Fire Protection rules and regulations, proper incident reporting and records, proper use of personal protective equipment, and the principles of fire safety.
Prerequisite: Students must meet requirements as set by Odessa College.

Emergency Medical Technician	1	4593	N1303015	Odessa College (Transportation provided for OHS, PHS and NTO students)	12
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Course Description: Emergency Medical Technician (EMT)—Basic instructs students to meet and exceed standard knowledge needed to be a valid Emergency Medical Technician. The curriculum includes skills necessary for a student to provide entry level emergency medical care, life support, and ambulance service. The EMT—Basic course is an introductory course to concepts, knowledge, and skills needed by EMTs in the areas of communications, transportation, and recordkeeping. Students interested in working in public safety, including fire, police, and ambulance operators will be capable of performing the job expectations of an EMT safely and effectively after the completion of this course.
Corequisite: Firefighter II Dual

Level 4

Course Name	Credit	Course Number	Service ID	Location	Grade Level
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Firefighter II Dual	1.5	4223 (Semester I)	13030000	Odessa College (Transportation provided for OHS, PHS and NTO students)	12
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Firefighter II is the second course in a series for students studying firefighter safety and development. Students will understand Texas Commission on Fire Protection rules and regulations, proper incident reporting and records, proper use of personal protective equipment, and the principles of fire safety. Students will demonstrate proper use of fire extinguishers, ground ladders, fire hoses, and water supply apparatus systems.
Prerequisite: Firefighter I Dual

Advanced Manufacturing & Machinery Mechanics (Robotics) Statewide Program of Study

Manufacturing
Career Cluster

The Advanced Manufacturing and Machinery Mechanics program of study focuses on the assembly, operation, maintenance, and repair of electromechanical equipment or devices. CTE learners may work in a variety of mechanical fields, gaining knowledge and experience in robotics, refinery and pipeline systems, deep ocean exploration, or hazardous waste removal. CTE concentrators may work in a variety of fields of engineering.

Program of Study Course Sequences

Year	High School Course	Credits	Odessa College Course	Credits
2	Robotics I	1	RBTC 1343 Robotics	3
3	Robotics 2	1		
4	Practicum in Manufacturing (Robotics 3)	2		

Dual credit is available for courses in this Program of Study. Students interested in earning college credit should contact their counselor to ensure eligibility and registration in the appropriate dual credit course.

Industry Certifications



Students will explore opportunities to complete a recognized industry credential.

Learning Opportunities

Work at a local business or industry apprenticeship



Labor Market Information

Occupations	Median Wage	Annual Openings	Growth
Electro-Mechanical Assemblers	\$30,160	951	9%
Electro-Mechanical Technicians	\$56,555	127	9%
Industrial Machinery Mechanics	\$49,816	3,788	27%

Successful completion of the Advanced Manufacturing & Machinery Mechanics program of study will fulfill requirements of a Business and Industry endorsement or STEM endorsement if the math and science requirements are met. Revised – October 2022



Advanced Manufacturing & Machinery Mechanics (Robotics)

Level 2

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Robotics I	1	8597 8699 (Dual – Semester 2)	13037000	Odessa High School Permian High School	10-12

Course Description: Students enrolled in this course will demonstrate knowledge and skills necessary for the robotic and automation industry. Through implementation of the design process, 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.

Level 3

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Robotics II	1	8129	13037050	Odessa High School Permian High School	11-12

Course Description: 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. (Prerequisite: 8597 Robotics I)

Level 4

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Robotics III	2	8687	13033000	Odessa High School Permian High School	12

Course Description: In Robotics III, students will continue to 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. Robotics III is designed to give students supervised 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: 8129 Robotics II)

Welding

Statewide Program of Study

Manufacturing
Career Cluster

The Welding program of study focuses on the development and use of automatic and computer-controlled machines, tools, and robots that perform work on metal or plastic. CTE learners will learn how to modify parts to make or repair machine tools or maintain individual machines, and how to use hand-welding or flame-cutting equipment.

Program of Study Course Sequences

Year	High School Course	Credits	Odessa College Course	Credits
1	Introduction to Welding	1		
2	Welding 1	1	WLDG 1421 Welding Fundamentals WLDG 1430 Introduction - Gas Metal Arc	4 4
3	Welding 2	2	WLGD 1434 Introduction – Gas Tungsten WLDG 2413 Intermediate Welding Using Multiple Processes	4 4
4	Practicum in Welding	2	WLDG 1417 Introduction to Layout & Fabrication WLDG 1435 Introduction to Pipe Welding	4 4

Dual credit is available for courses in this Program of Study. Students interested in earning college credit should contact their counselor to ensure eligibility and registration in the appropriate dual credit course.

Industry Certifications

AWS D1.1 Structural Steel
AWS D9.1 Sheet Metal Welding

Learning Opportunities

Work in a local business or industry apprenticeship

Join the American Welding Society

Aligned Occupations

Occupations	Median Wage	Annual Openings	Growth
Welders, Cutters, Solderers, and Brazers	\$41,350	6,171	9%
Welding Soldering and Brazing Machine Setters, Operators	\$40,040	280	9%

Successful completion of the Welding program of study will fulfill requirements of a Business and Industry endorsement. Revised – October 2022



Welding

Level 1

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Introduction to Welding	1	8663	13032250	Odessa High School	9-12

Course Description: Introduction to Welding will introduce welding technology with an emphasis on basic welding laboratory principles and operating procedures. Students will be introduced to the three basic welding processes. Topics include industrial safety and health practices, hand tool and power machine use, measurement, laboratory operating procedures, welding power sources, welding career potentials, and introduction to welding codes and standards. Introduction to Welding will provide students with the knowledge, skills, and technologies required for employment in welding industries. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills will prepare students for future success.

Level 2

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Welding I	2	8560 4210 (Dual – Semester 1) 4211 (Dual – Semester 2)	13032300	Frost Technical Center or Odessa College (Transportation Provided for OHS, PHS & NTO Students)	10-12

Course Description: Welding is an introductory course designed to provide broad introductory skills and a basic understanding of career and training requirements for four metal manufacturing-related careers: metal trades; welding; sheet metal; and machine shop. Students will study common manufacturing tools, machines, materials, and processes in the laboratory. Experiences in planning and controlling simulated manufacturing systems and projects allow students to explore the organizational structures and management strategies in manufacturing with an emphasis in welding and metal fabrication.

Level 3

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Welding II	2	8561 4212 (Dual – Semester 1) 4213 (Dual – Semester 2)	13032400	Frost Technical Center or Odessa College (Transportation Provided for OHS, PHS & NTO Students)	11-12

Course Description: Advanced Welding builds on the foundation established in Welding. This course is designed to provide job-specific training for entry-level employment in welding careers. Instruction includes blueprint reading, cutting, and welding with oxygen and gas fuels, shielded metal arc welding, gas tungsten arc and gas metal arc welding processes. (Prerequisite: 8560 Welding I)

Level 4

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Practicum in Welding	2	8564 4214 (Dual – Semester 1) 4215 (Dual – Semester 2)	13033000	Frost Technical Center or Odessa College (Transportation Provided for OHS, PHS & NTO Students)	12

Course Description: The Practicum in Welding builds on the foundation established in Advanced Welding. This capstone course is designed to provide job-specific training for entry-level employment in welding careers. Instruction includes student demonstration of proficiency in blueprint reading, cutting, and welding with oxygen and gas fuels, shielded metal arc welding, gas tungsten arc and gas metal arc welding processes. (Prerequisite: 8561 Welding II)

The Biomedical Science program of study focuses on the study of biology and medicine in order to introduce CTE learners to the knowledge and skills necessary to be successful in the healthcare field, such as researching and diagnosing diseases, pre-existing conditions, or other determinants of health. Students may also practice patient care and communication.

Program of Study Course Sequences		
Year	High School Course	Credits
1	Principles of Biomedical Science	1
2	Human Body Systems	1
3	Medical Interventions	1
4	Biomedical Innovation	1

Industry Certifications



Students will explore opportunities to complete a recognized industry credential.

Learning Opportunities



- Intern at a lab
- Shadow a healthcare or medical professional

Labor Market Information

Occupations	Median Wage	Annual Openings	Growth
Medical and Laboratory Technicians	\$37,981	1,159	28%
Biological Technicians	\$42,931	452	17%
Forensic Science Technicians	\$48,152	171	35%
Medical and Clinical Laboratory Technologists	\$58,760	1,166	35%

Successful completion of the Biomedical Science program of study will fulfill requirements of a Business and Industry endorsement or STEM endorsement if the math and science requirements are met. Revised – October 2022



Biomedical Science – Project Lead the Way

Level 1

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Principles of Biomedical Science	1.0	8447	N1302092	Permian High School	9-12

Course Description: The Principles of Biomedical Science (PBS)- PLTW course provides an introduction to biomedical science through hands-on projects and problems. Students investigate concepts of biology and medicine as they explore health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They will determine the factors that led to the death of a fictional woman as they sequentially piece together evidence found in her medical history and her autopsy report. Students will investigate lifestyle choices and medical treatments that might have prolonged the woman's life and demonstrate how the development of disease is related to changes in human body systems.

Level 2

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Human Body Systems	1.0	8446	N1302093	Permian High School	10-12

Course Description: In the Project Lead The Way [PLTW] Human Body Systems (HBS) course, students examine the interactions of body systems as they explore deeply biological identity, communication, power, movement, protection, and homeostasis. Through individual and team activities, projects, and problems, students design experiments, investigate the structures and function of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary actions, and respiration.
Prerequisite: Principles of Biomedical Science

Level 3

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Medical Interventions	1.0	8445	N1302094	Permian High School	11-12

Course Description: In the Medical Interventions (MI)-PLTW course students investigate the variety of interventions involved in the prevention, diagnosis, and treatment of disease as they follow the lives of a fictitious family. Through these scenarios students will be exposed to the wide range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. Each family case scenario will introduce multiple types of interventions; reinforce concepts learned in the previous two courses, and present new content. Interventions may range from simple diagnostic tests to treatment of complex diseases and disorders. These interventions will be showcased across the generations of the family and will provide a look at the past, present, and future of biomedical science. Lifestyle choices and preventive measures are emphasized throughout the course as well as the important role that scientific thinking and engineering design play in the development of interventions of the future.
Prerequisite: Human Body Systems

Level 4

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Biomedical Innovation	1.0	8435	N1302095	Permian High School	12

Course Description: In the PLTW Biomedical Innovation (BI) course, students will be asked to apply what they have learned in the previous three courses to solve unique problems in science, medicine, and healthcare. Students will work systematically through required problems before completing optional directed problems or independent work.
Prerequisite: Medical Interventions

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

Program of Study Course Sequences

Year	High School Course	Credits
1	Introduction to Engineering Design	1
2	Engineering Science	1
3	Civil Engineering & Architecture	1
4	Aerospace Engineering	1

Industry Certifications



Students will explore opportunities to complete a recognized industry credential.

Learning Opportunities



Intern at an engineering firm
Shadow a machinist

Labor Market Information

Occupations	Median Wage	Annual Openings	Growth
Aerospace Engineers	\$110,843	481	9%
Industrial Engineers	\$97,074	1,263	10%
Mechanical Engineers	\$91,107	1,535	11%
Chemical Engineers	\$112,819	474	9%
Electrical Engineers	\$98,405	1,137	105

Successful completion of the Engineering program of study will fulfill requirements of a Business and Industry endorsement or STEM endorsement if the math and science requirements are met. Revised – October 2022

Engineering – Project Lead the Way

Level 1

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Introduction to Engineering	1.0	8587	N1303742	Odessa High School Permian High School	9-12

Course Description: 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 3-D modeling software, and use an engineering notebook to document their work.

Level 2

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Engineering Science	1.0	8588 8610 (SI) 8611 (SIBI)	13037500	Odessa High School Permian High School	10-12

Course Description: Engineering Science is an engineering course designed to expose students to some of the major concepts and technologies that they will encounter in a postsecondary program of study in any engineering domain. Students will have an opportunity to investigate engineering and high-tech careers. In Engineering Science, students will employ science, technology, engineering, and mathematical concepts in the solution of real-world challenge situations. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. Students will also learn how to document their work and communicate their solutions to their peers and members of the professional community.

Prerequisite: Introduction to Engineering

This course can currently fulfill a high school science graduation requirement.

GPA Weight: 4.0

Level 3

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Aerospace Engineering	1.0	8591	N1303745	Odessa High School Permian High School	11-12

Course Description: This course propels students' learning in the fundamentals of atmospheric and space flight. As they explore the physics of flight, students bring the concepts to life by designing an airfoil, propulsion system, and rockets. They learn basic orbital mechanics using industry-standard software. They also explore robot systems through projects such as remotely operated vehicles.

Prerequisite: Engineering Science

Civil Engineering & Architecture	1.0	8590	N1303747	Odessa High School Permian High School	11-12
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Course Description: Students learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3-D architectural design software.

Prerequisite: Engineering Science

Level 4

No Level 4 courses in this program

Programming & Software Development (Computer Science) Statewide Program of Study

STEM
Career Cluster

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

Program of Study Course Sequences		
Year	High School Course	Credits
1	Computer Science Principles	1
2	Computer Science I	1
3	Computer Science 2	1
	AP Computer Science A	1
4	Computer Science 3	1

Industry Certifications



Students will explore opportunities to complete a recognized industry credential.

Learning Opportunities

Participate in a coding club at school



Aligned Occupations

Occupations	Median Wage	Annual Openings	Growth
Software Developer, Systems Software	\$103,334	2,985	25%
Software Developers, Application	\$104,499	6,311	30%
Computer Programmers	\$79,893	1,454	9%

Successful completion of the Engineering program of study will fulfill requirements of a Business and Industry endorsement or STEM endorsement if the math and science requirements are met. Revised – October 2022



Programming & Software Development (Computer Science)

Level 1

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Fundamentals of Computer Science	1.0	3496	03580140	Odessa High School Permian High School	9-12

Course Description: 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 learn the problem-solving and reasoning skills that are the foundation of computer science. Students will gain an understanding of the principles of computer science through the study of technology operations and concepts. The six strands include creativity and innovation; communication and collaboration; research and information fluency; critical thinking; problem solving, and decision making; digital citizenship; and technology operations and concepts.

Level 2

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Computer Science I	1.0	2496 – Regular 4496 – Honors	03580200	Odessa High School Permian High School	10-12

Course Description: Computer Science I will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. 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. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations, systems, and concepts.

This course can currently be used as a foreign language – year 1. Please check with your college to make sure they will accept it for college entrance purposes.

GPA Weight: 4.0 Regular 4.5 Honors

Recommended Prerequisite: Fundamentals of Computer Science

Level 3

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Computer Science II	1.0	2494	03580300	Odessa High School Permian High School	11-12

Course Description: Computer Science II will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. 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. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations, systems, and concepts.

This course can currently be used as a foreign language – year 2. Please check with your college to make sure they will accept it for college entrance purposes.

GPA Weight: 4.0 regular

Prerequisite: Computer Science I

AP Computer Science A, Math & LOTE	1.0 Math 1.0 LOTE	4499 Math 4497 LOTE	A3580110 A3580120	Odessa High School Permian High School	11-12
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Course Description: Computer Science II will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. 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. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations, systems, and concepts.

This course can currently be used as a foreign language – year 2. Please check with your college to make sure they will accept it for college entrance purposes.

Note: This course satisfies a math credit requirement for students on the Foundation High School Program.

GPA Weight: 5.0 AP

Prerequisite: Computer Science I

Level 4

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Computer Science III	1.0	4494	03580350	Odessa High School Permian High School	12

Course Description: Computer Science III will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. 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. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations, systems, and concepts.



Prerequisite: Computer Science II or AP Computer Science

The Automotive program of study teaches CTE learners how to repair and refinish automobiles and service various types of vehicles. CTE learners may learn to collect payment for services or supplies and perform typical vehicle maintenance procedures such as lubrication, oil changes, installation of antifreeze, or replacement of accessories like wiper blades or tires

Program of Study Course Sequences

Year	High School Course	Credits	Odessa College Course	Credits
2	Automotive Technology I	2	AUMT 1301 Introduction & Theory of Automotive Technology	3
			AUMT 1407 Automotive Electrical Systems	4
			AUMT 2437 Automotive Electronics	4
3	Automotive Technology II	2	AUMT 1310 Automotive Brake Systems	3
			DEMR 2331 Advanced Brake Systems	3
			AUMT 1345 Automotive Climate Control	3
4	Practicum in Automotive Technology	2	AUMT 1416 Automotive Suspension & Steering System	4
			DEMR 1330 Steering & Suspension	3
			AUMT 1419 Automotive Engine Repair	4
			DEMR 1406 Diesel Engine	4

Dual credit is available for courses in this Program of Study. Students interested in earning college credit should contact their counselor to ensure eligibility and registration in the appropriate dual credit course.

	<h3>Industry Certifications</h3>	<h3>Learning Opportunities</h3>	
	<ul style="list-style-type: none"> ASE Engine Performance ASE Engine Repair ASE Automatic Transmission Level 1 Certificate at Odessa College 		

Labor Market Information

Occupations	Median Wage	Annual Openings	Growth
Automotive Service Technician and Mechanics	\$38,459	5,557	18%

Successful completion of the Automotive program of study will fulfill requirements of a Business and Industry endorsement. Revised – October 2022



Automotive Technology

Level 1

Course Name	Credit	Course Number	Service ID	Location	Grade Level
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No Level 1 courses in this program

Level 2

Course Name	Credit	Course Number	Service ID	Location	Grade Level
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No Level 2 courses in this program

Level 3

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Automotive Technology I	2.0	8425 4641 Dual Credit Sem 1 4642 Dual Credit Sem 2	13039600	OC Sewell Auto Center (Transportation provided for OHS, PHS and NTO students)	10-12

Course Description: This course includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. This course includes applicable safety and environmental rules and regulations. In Automotive Technology I: Maintenance and Light Repair, students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability.

Level 4

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Automotive Technology II/Lab	2.0	8426 4643 Dual Credit Sem 1 4644 Dual Credit Sem 2	13039700	OC Sewell Auto Center (Transportation provided for OHS, PHS and NTO students)	11-12

Course Description: This course includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. Automotive Technology II: Automotive Service includes applicable safety and environmental rules and regulations. In this course, students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability.

Prerequisite: Automotive Technology I

Practicum in Automotive Technology	2.0	8429 4645 Dual Credit Sem 1 4646 Dual Credit Sem 2	13040470	OC Sewell Auto Center (Transportation provided for OHS, PHS and NTO students)	12
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Course Description: Practicum in Transportation Systems 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 experience such as internships, mentorships, independent study, or laboratories. The Practicum can be either school lab based or worked based.

Prerequisite: Automotive Technology II

Automotive (Collision Repair & Refinishing) Statewide Program of Study

Transportation, Distribution, & Logistics
Career Cluster

The purpose of the Automotive Collision Repair & Refinishing program is to give students the training needed to repair collision damage, straighten frames and replace body panels. Instruction will also be given in welding, cutting, painting and estimating.

Program of Study Course Sequences		
Level	High School Course	Credits
2	Auto Collision Repair	2
3	Auto Collision Paint & Refinishing	2
4	Practicum in Collision Repair & Refinishing	2

Industry Certifications

ICAR Non-Structural Technician
ICAR Paint & Refinishing

Learning Opportunities

Work at a local automotive repair or body shop

Labor Market Information

Occupations	Median Wage	Annual Openings	Growth
Automotive Body and Related Repairers	\$40,144	1,456	25%

Successful completion of the Automotive program of study will fulfill requirements of a Business and Industry endorsement. Revised – October 2022



Automotive Collision Repair & Refinishing

Level 1

Course Name	Credit	Course Number	Service ID	Location	Grade Level
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No Level 1 courses in this program

Level 2

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Collision Repair	2.0	8427	13039800	Frost Technical Center (Transportation provided for OHS, PHS and NTO students)	10-12

Course Description: Collision Repair includes knowledge of the processes, technologies, and materials used in the reconstruction of vehicles. This course is designed to teach the concepts and theory of systems related to automotive collision repair and refinishing.

Level 3

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Paint and Refinishing	2.0	8428	13039900	Frost Technical Center (Transportation provided for OHS, PHS and NTO students)	11-12

Course Description: Paint and Refinishing includes knowledge of the processes, technologies, and materials used in the reconstruction of vehicles. This course is designed to teach the concepts and theory of systems related to automotive paint and refinishing.
Prerequisite: Collision Repair

Level 4

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Practicum in Collision Repair	2.0	8431	13040450	Frost Technical Center (Transportation provided for OHS, PHS and NTO students)	12

Course Description: Practicum in Collision Repair 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 experience such as internships, mentorships, independent study, or laboratories. The Practicum can be either school lab based or worked based.

Prerequisite: Paint & Refinishing

Additional CTE Courses

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Career Preparation I	2-3	8401 (2 credits) 8403 (3 credits) 8402 (2 credits) 8404 (3 credits)	12701300 12701305 12701400 12701405	Odessa High School Permian High School	11-12

Course Description: Career Preparation serves as a capstone work-based learning course for programs of study. It is a worksite learning course designed to provide training in specific Career Cluster related careers. Classroom learning and work-site learning provide career and related training by alternating group and individual instruction in the classroom with the work-site training experiences at an approved training station in the local community.

Professional Communications	0.5	8481 8482 (Dual)	13009900	Odessa High School Permian High School	9-12
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Course Description: Professional Communications blends written, oral, and graphic communication in a career-based environment. Within this context, students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct person-to-person interactions.

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Dollars & Sense	0.5	8488	13024300	Odessa High School Permian High School	9-12

Course Description: Dollars and Sense focuses on consumer practices and responsibilities, money-management processes, decision-making skills, impact of technology, and preparation for human services careers.

English Credits from CTE

Business English	1	2663 2664 CTE	13011600	Odessa High School Permian High School	12
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Course Description: In Business English, students enhance communication and research skills by applying them to the business environment, in addition to exchanging information and producing properly formatted business documents using emerging technology. Note: Course can be used as 4th English credit

Math Credits from CTE

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Financial Math	1	8127 8134 NC 8130 SF 8131 CT	13018000	Odessa High School Permian High School	11-12

Course Description: Financial Mathematics is a course about personal money management. Students will apply critical-thinking skills to analyze personal financial decisions based on current and projected economic factors. Note: Can be used as a 3rd Math credit

Engineering Math	1	8680 3230 NC	13036700	Odessa High School Permian High School	11-12
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Course Description: Students will develop a deeper understanding of the mathematical knowledge required to solve real-world engineering problems. They will develop an understanding of functions and mathematical relationships critical to data acquisition, interpretation, and analysis. Students will apply mathematical concepts such as slopes, intercepts, proportions, exponential growth, and other concepts important to the engineering focus areas covered in this course. Students will be exposed to various engineering disciplines and learn how mathematics blend together to create solutions to real-world problems. Students unfamiliar with engineering will be exposed to a variety of career opportunities in science, technology, engineering, and math. This course touches on four modules of engineering: biomedical, mechanical, environmental, and electrical. Note: Can be used as an advanced Math credit

Additional CTE Courses

Science Credits from CTE

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Principles of Technology	1	8682 3300 NC 8684 SF 8683 CT	13037100	Odessa High School Permian High School	11-12

Course Description: In Principles of Technology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Various systems will be described in terms of space, time, energy, and matter. Students will study a variety of topics that include laws of motion, conservation of energy, momentum, electricity, magnetism, thermodynamics, and characteristics and behavior of waves. Note: Course counts as a Science credit.

Forensics Science	1	8552 3302 NC	13029500	Odessa High School Permian High School	11-12
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Course Description: Forensic Science is a course that uses a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide, and the psychology of criminal behavior. Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection, and scientific procedures used to solve crimes. Using scientific methods, students will collect and analyze evidence through case studies and simulated crime scenes such as fingerprint analysis, ballistics, and blood spatter analysis. Students will learn the history, legal aspects, and career options for forensic science. Note: Course can be used as an advanced Science credit

Anatomy & Physiology	1	8618 3247 NC 8718 (Dual Credit)	13020600	Odessa High School Permian High School	11-12
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Course Description: In this course, topics will be presented through an integration of biology, chemistry, and physics. Students will study the structures and functions of the human body and body systems and will investigate the body's responses to forces, maintenance of homeostasis, electrical interactions, transport systems, and energy systems. Note: Course can be used as an advanced Science credit

Engineering Science	1	8588	13037500	Odessa High School Permian High School	10-12
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Course Description: This second-year Project Lead the Way® course explores technology systems and manufacturing processes; addresses the social and political consequences of technological change. Note: Can be used as an advanced Science credit

Middle School CTE Courses

Middle School Engineering – Gateway to Technology

Course Name	Credit	Course Number	Service ID	Location	Grade Level
Gateway to Technology III – Energy, Environment, & Flight	0.5	1583	N1303758	Wilson & Young Middle School	6

Course Description: Students use a robust robotics platform to design, build, and program a solution to solve an existing problem. Note: High School credit is awarded at the end of the second semester upon completion of both semesters.

Gateway to Technology I – Design, Modeling, & Automation	0.5	1483	N1303756	Wilson & Young Middle School	7
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Course Description: In this unit, students begin to recognize the value of an engineering notebook to document and capture their ideas. They are introduced to and use the design process to solve problems and understand the influence that creative and innovative design has on our lives. Students use industry standard 3D modeling software to create a virtual image of their designs and produce a portfolio to showcase their creative solutions. Note: High School credit is awarded at the end of the second semester upon completion of both semesters.

Gateway to Technology II – Applied Science & Technology	0.5	1484 (Semester 1)	N1303757	Wilson & Young Middle School	8
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Course Description: Students explore the science of electricity, behavior, and parts of atoms, and sensing devices through hands-on projects. Students acquire knowledge and skills in basic circuitry design and examine the impact of electricity on our lives.

Gateway to Technology IV – Architecture & Biomedical Sciences	0.5	8588 (Semester 2)	N1303759	Wilson & Young Middle School	8
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Course Description: In this unit, students learn how to apply this concept to the fields of architecture and construction by exploring dimensioning, measuring, and architectural sustainability as they design affordable housing units using Autodesk's® 3D architectural design software. Students will also investigate careers in Biomedical Sciences.

Middle School Business

Touch Systems Data Entry	0.5	1997	13011300	Bonham Middle School, Bowie Middle School, Crockett Middle School, & Nimitz Middle School	8
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Course Description: In Touch System Data Entry, students apply technical skills to address business applications of emerging technologies. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students will need to apply touch system data entry for production of business documents.

Middle School Robotics

Robotics I	1	8797	13037000	Bowie Middle School & Crockett Middle School	8
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Course Description: Students enrolled in this course will demonstrate knowledge and skills necessary for the robotic and automation industry. Through implementation of the design process, 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.

Middle School Career Development

College & Career Readiness	No High School Credit	1998	12700300	Bowie Middle School & Crockett Middle School	8
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Course Description: The career development process is unique to every person and evolves throughout one's life. Students will use decision-making and problem-solving skills for college and career planning. Students will explore valid, reliable educational and career information to learn more about themselves and their interests and abilities. Students integrate skills from academic subjects, information technology, and interpersonal communication to make informed decisions. This course is designed to guide students through the process of investigation and in the development of a college and career readiness achievement plan. Students will use interest inventory software or other tools available to explore college and career areas of personal interest. Students will use this information to explore educational requirements for various colleges and a variety of chosen career paths.