

# 24-25

## PLANNING GUIDE

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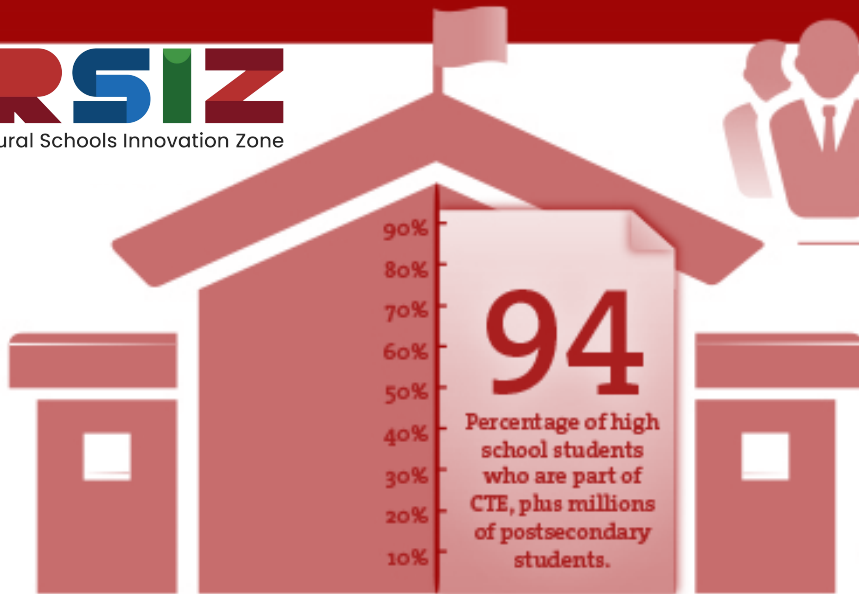
**RSIZ**

Rural Schools Innovation Zone

# What is Career and Technical Education?



Fulfills employer needs that are **High** skill wage demand



Includes high schools, career centers, community and technical colleges, four-year universities and more.



Integrates with academics in a rigorous and relevant curriculum.



Features high school and postsecondary partnerships, enabling clear pathways to certifications and degrees.



Prepares students to be college- and career-ready by providing core academic skills, employability skills and technical, job-specific skills.



Association for Career and Technical Education  
1410 King Street  
Alexandria, VA 22314  
Toll-free: 800-826-9972  
[www.acteonline.org](http://www.acteonline.org)  
Connecting Education and Careers



## What are ‘Programs of Study?’

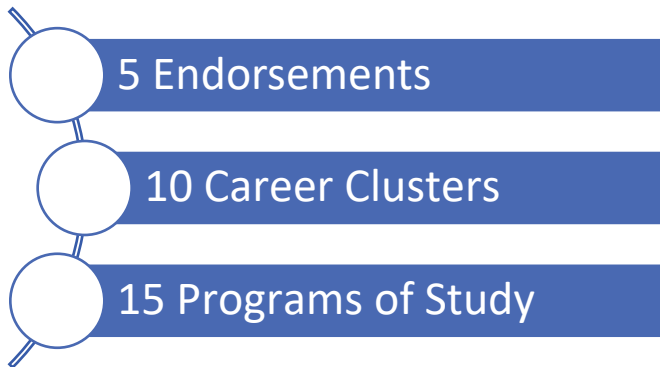
Programs of study are course sequences that prepare students with the knowledge and skills necessary for success in their chosen career. These sequences embed relevant, real world experiences and culminate in a postsecondary credential. Programs of study offered by a Local Education Agency (LEA) must be approved by the Texas Education Agency (TEA) per the Strengthening Career and Technical Education for the 21st Century Act (Perkins V).

## Programs of Study & Accountability

Students that are considered to be Career Technical Education (CTE) “concentrators” or “completers” will be included in federal accountability ratings.

- **Concentrator:** A student who has completed two or more courses for at least 2 credits in a single program of study.
- **Completer:** A student who has completed 3 or more courses for 4 or more credits including an advanced course (level 3 or level 4) within an approved program of study.

Programs of study **DO NOT** replace endorsements under the Foundation High School Program but they **DO** support the completion of an endorsement as identified in this guide.



# IGNITE ACADEMY

The IGNITE ACADEMY Welding program focuses on planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as maintenance, and manufacturing/process engineering.

## Welding Statewide Program of Study



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.

### Secondary Courses for High School Credit

#### Year 1

- Principles of Manufacturing

#### Year 2

- Welding I

#### Year 3

- Welding II/Lab

#### Year 4

- Practicum in Manufacturing

Years 2-4 have a dual-credit enrollment with DMC (see back)

### Postsecondary Opportunities

#### Associates Degrees

- Certified Welder or Welder Inspector
- Machine Shop Technology/Assistant
- Operations Management and Supervision
- Occupational Safety and Health Technology/Technician

#### Bachelor's Degrees

- Welding Engineering Technology/Technician
- Biomedical Technology/Technician
- Operations Management and Supervision
- Environmental Health

#### Master's, Doctoral, and Professional Degrees

- Welding Engineering Technology/Technician
- Occupational Health and Industrial Hygiene
- Operations Management and Supervision
- Environmental Health

### Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"> <li>Participate and compete in SkillsUSA</li> <li>Job shadow a machinist</li> </ul>	<ul style="list-style-type: none"> <li>Work in a local business or industry apprenticeship</li> <li>Join the American Welding Society</li> </ul>

### Industry-Based Certifications

- API 1104 Welding Pipelines and Related Facilities
- AWS Certified Welder
- DMC Level 1 Certification**
- DMC Level 2 Certification**
- DMC Welding Associates in Applied Science A.S.**
- Industrial Technology Maintenance (ITM) - Maintenance Welding
- NCCER Construction Technology Certification Level I
- NCCER Core Safety Certification**
- NCCER Welding Level I
- Welding - Job Ready

- OSHA 30 Hour General\*  
\*IBC sunseting 8/31/24



### 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 and Tenders	\$40,040	280	9%

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

# Welding Course Information

## Year 1

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Principles of Manufacturing	13032200 (1 credit)	None	None

## Year 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Welding I	13032300 (2 credits)	None	None
WLDG 1406 & 1521	Del Mar College	Dual – Credit ^	Welding 1
WLDG 1313	Del Mar College (SUMMER)	None	None

## Year 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Welding II/Lab	13032400 (2 credits) 13032410 (3 credits)	Welding I	None
WLDG 1557 & 1435	Del Mar College	Dual – Credit ^	Welding II/LAB
WLDG 2406, 2453 & 1317	Del Mar College (SUMMER)	None	None

## Year 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Practicum in Manufacturing	13033000 (2 credits)	None	None
WLDG 1434 & 2413	Del Mar College	Dual – Credit ^	Practicum in Manf

FOR ADDITIONAL INFORMATION ON THE IGNITE ACADEMY,  
PLEASE CONTACT: [mgonzalez@ruralschoolsinnovationzone.com](mailto:mgonzalez@ruralschoolsinnovationzone.com)

**Students pursuing a level 2 certificate will need to also take TECM 1301 & COMG 1391 (both online).**

**Math 13144 substitutes for TECM 1301 & ENGL 1301 substitutes for COMG 1391**

**Summer classes will take place at DMC, Mon – Thu 7am – 12pm**

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Further nondiscrimination information can be found at [Notification of Nondiscrimination in Career and Technical Education Programs.](#)



# IGNITE ACADEMY

The IGNITE ACADEMY program focuses on planning, managing, and performing the processing of construction processes through cost estimation, projection management and specific training in areas of electrical, HVAC and Welding.

## Electrical, HVAC or Construction Statewide Program of Study



The Electrical, HVAC or Construction program of studies include exploration into inspecting structures and major systems using engineering skills to determine structural soundness and compliance with specifications, building codes, and other regulations. These programs also explore the occupations and educational opportunities associated with installing, maintaining, and repairing electrical wiring, HVAC equipment and other major building systems.

### Secondary Courses for High School Credit

#### Level 1

- Principles of Construction

#### Level 2

- Heating, Ventilation Air Conditioning (HVAC) and Refrigeration Technology I

#### Level 3

- Heating, Ventilation Air Conditioning (HVAC) and Refrigeration Technology II
- Sheet Metal Technology

#### Level 4

- Practicum in Construction Technology
- Practicum in Entrepreneurship
- Career Preparation I

### Postsecondary Opportunities

#### Associates Degrees

- Electrician
- Communications Systems Installation & Repair Tech
- Heating, Ventilation, Air Conditioning and Refrigeration Engineering Technology/ Technician
- Business/ Commerce, General

#### Bachelor's Degrees

- Business Administration and Management
- Mechanical Engineering
- Construction Engineering Technology/ Technician
- Construction Science

#### Master's, Doctoral, and Professional Degrees

- Business Administration and Management
- Mechanical Engineering
- Construction Engineering
- Business/Commerce, General

### Work-Based Learning and Expanded Learning Opportunities

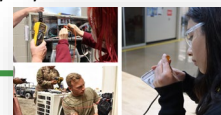
Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"> <li>Shadow an HVAC or electrician</li> <li>Participate in SkillsUSA</li> </ul>	<ul style="list-style-type: none"> <li>Intern with an HVAC</li> <li>Shadow a project manager or cost estimator</li> </ul>

### Industry-Based Certifications

- Employment Ready Certification - Air Conditioning
- Employment Ready Certification – Electrical
- Employment Ready Certification - Gas Heat
- NCCER Commercial Electrician
- NCCER Construction Technology Certification Level I
- NCCER Core**
- NCCER Electrical Level I**
- Heating, Electrical, & Air Conditioning Technology (H.E.A.T.)
- NCCER Construction Technology Certification Level I
- NCCER Core Safety Certification**
- LEED Green Associate
- NCCER Construction Site Safety Technician
- Residential Plans Examiner - R3

- OSHA 30 Hour Construction\*
- OSHA 30 Hour General\*

\*IBC sunsetting 8/31/24



### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Heating, Air Conditioning, and Refrigeration Mechanics	\$41,808	3,356	26%
Electricians	\$44,013	8,460	21%
Cost Estimators	\$63,939	2,239	21%

# Electrical, HVAC & Construction Course Information

## Year 1

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Principles of Construction	13004220 (1 credit)	None	None
Principles of Manufacturing	13032200 (1 credit)	None	None

## Year 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Construction Management I	13004900 (2 credits)	None	None
Electrical Technology I	13005600 (1 credit)	Earned NCCER Core	None
HVAC Technology 1	13005800 (1 credit)	Earned NCCER Core	HART 1401 & 2438 (Lamar Inst of Tech)

## Year 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Electrical Technology II	13005700 (2 credits)	Electrical Technology I	None
HVAC Technology II	13005900 (2 credits)	HVAC Technology I	HART 1403 & 1407 (Lamar Inst of Tech)

## Year 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Practicum in Construction Technology	13005250 (2 credits)	Level II or III course	None

FOR ADDITIONAL INFORMATION ON THE IGNITE ACADEMY,  
PLEASE CONTACT: [mgonzalez@ruralschoolsinnovationzone.com](mailto:mgonzalez@ruralschoolsinnovationzone.com)

**Construction Management Pathway (4 year) – year 3 & 4 choose between Electrical, HVAC or Welding courses.**

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# NextGen Medical Academy

The NextGen Medical Academy focuses on planning, managing, and providing therapeutic services, diagnostics services, health informatics, support services, and nursing sciences. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, communicate effectively, and work well with others.

## Healthcare Therapeutic Statewide Program of Study



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

### Secondary Courses for High School Credit

#### Year 1

- Principles of Health Science
- Principles of Human Services

#### Year 2

- Medical Terminology

#### Year 3

- Anatomy and Physiology
- Health Science Theory

#### Year 4

- Pharmacology
- Practicum in Health Science

### Work-Based Learning and Expanded Learning Opportunities

#### Exploration Activities

- Participate in SkillsUSA or Health Occupation Students of America

#### Work-Based Learning Activities

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

### Industry-Based Certifications

- Certified Clinical Medical Assistant
- Certified Dental Assistant
- Emergency Medical Technician - Basic
- Certified EKG Technician**
- Certified Nurse Aide (CNA)**
- Certified Occupational Therapy Assistant
- ECG Technician
- Medical Assistant
- Medical Laboratory Assistant
- Nationally Registered Certified EKG Technician
- Patient Care Technician
- Pharmacy Technician
- Phlebotomy Technician**
- Registered Dental Assistant X-Ray Certification

- Certified Ophthalmic Technician\*
- Certified Surgical Technologist\*
- Licensed Dental Hygienist\*
- Orthopedic Technologist\*

\*IBC sunseting 8/31/24



### Postsecondary Opportunities

#### Associates Degrees

- Dental Hygienist
- Medical/Clinical Assistant

#### Bachelor's Degrees

- Dental Hygienist

#### Master's, Doctoral, and Professional Degrees

- Dentist
- Physician Assistant
- Family and General Practitioners
- Pharmacist

### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Medical Assistants	\$29,598	8,862	30%
Surgical Technologists	\$45,032	1,150	20%
Dental Hygienists	\$73,507	1,353	38%
Physicians and Surgeons	\$213,071	1,151	30%

Successful completion of the Healthcare Therapeutic program of study will fulfill requirements of a Public Service endorsement or STEM endorsement if the math and science requirements are met. Revised – March 2023



# Healthcare Therapeutic Course Information

## Level 1

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Principles of Health Science	13020200 (1 credit)	None	HPRS 1201
Principles of Human Services	13020220 (1 credit)	None	EDUC 13000

## Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Medical Terminology	13020300 (1 credit)	None	HPRS 2303

## Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Anatomy and Physiology	13020600 (1 credit)	One credit in Biology, one credit in Chemistry, IPC or Physics	VNSG 1320
Health Science Theory	13020400 (1 credit)	Biology	ECDR 1011

## Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Pharmacology	13020950 (1 credit)	Biology and Chemistry	VNSG 1227
Practicum in Health Science	13020500 (2 credits)	Health Science Theory and Biology	NUMA 1030

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# NextGen Medical Academy

The NextGen Medical Academy focuses on planning, managing, and providing therapeutic services, diagnostics services, health informatics, support services, and nursing sciences. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, communicate effectively, and work well with others.

## Nursing Science Statewide Program of Study



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. Students may focus on the healthcare system and research system designs and make recommended modifications.

### Secondary Courses for High School Credit

#### Level 1

- Principles of Health Science
- Principles of Nursing

#### Level 2

- Medical Terminology

#### Level 3

- Health Science Theory
- Medical Interventions (EKG)

#### Level 4

- Practicum in Health Science

### Postsecondary Opportunities

#### Associates Degrees

- Registered Nursing/Registered Nurse

#### Bachelor's Degrees

- Informatics Nurse Specialists

#### Master's, Doctoral, and Professional Degrees

- Nurse Practitioner
- Nursing Administration
- Nurse Anesthetist

### Work-Based Learning and Expanded Learning Opportunities

#### Exploration Activities

- Participate in Health Occupation Students of America

#### Work-Based Learning Activities

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

### Industry-Based Certifications

- Certified Clinical Medical Assistant
- Certified Nurse Aide (CNA)
- Licensed Vocational Nurse
- Medical Assistant
- Patient Care Technician
- Phlebotomy Technician
- Registered Nurse



### 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 Nursing Science program of study will fulfill requirements of a Public Service endorsement or STEM endorsement if the math and science requirements are met. Revised – March 2023

# Nursing Science Course Information

## Year 1

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Principles of Health Science	13020200 (1 credit)	None	HPRS 1201
Principles of Human Services	13020220 (1 credit)	None	EDUC 13000

## Year 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Medical Terminology	13020300 (1 credit)	None	HPRS 2303

## Year 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Medical Interventions (PLTW)	N13202094	None	VNSG 1320
Health Science Theory	13020400 (1 credit)	Biology	ECDR 1011

## Year 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Practicum in Health Science	13020500 (2 credits)		Certified Medical Assistant

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# STEM Discovery Zone

The STEM Discovery Zone focuses on planning, managing, and providing, scientific research and professional and technical services, including laboratory and testing services, and research and development services.

## Cybersecurity Statewide Program of Study



The Cybersecurity program of study includes the occupations and educational opportunities related to planning, implementing, upgrading, or monitoring security measure for the protection of computer networks and information. This program of study may also include exploration into responding to computer security breaches and virus and administering network security measures.

### Secondary Courses for High School Credit

#### Level 1

- Foundations of Cybersecurity

#### Level 2

- Internetworking Technologies I
- Computer Science I
- Computer Maintenance/Lab

#### Level 3

- Networking/Lab

#### Level 4

- Cybersecurity Capstone

### Postsecondary Opportunities

#### Associates Degrees

- System Networking, and LAN/WAN Management
- Information Technology
- Computer and Information Sciences, General
- Computer Science

#### Bachelor's Degrees

- Computer Systems Networking and Telecommunications
- Computer Systems Networking and Telecommunications
- Computer and Information Sciences, General
- Computer Science

#### Master's, Doctoral, and Professional Degrees

- Computer Systems Analysis/Analyst
- Information Technology
- Computer Information Sciences, General
- Computer Science

### Work-Based Learning and Expanded Learning Opportunities

#### Exploration Activities

- Join TSA
- Job shadow a computer system analyst or information security analyst

#### Work-Based Learning Activities

- Obtain a cybersecurity IBC

### Industry-Based Certifications

- CompTIA A+ Certification
- CompTIA Network+
- CompTIA Security+



### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Information Security Analysts	\$91,915	814	29%
Network and Computer System Administrators	\$82,597	2,814	19%
Computer System Analysts	\$87,568	5,937	29%

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



# Cybersecurity

## Premont Collegiate High School Course Information

### Year 1

COURSE NAME	SEMESTER	SERVICE ID	PREREQUISITES	COREQUISITES
Foundations of Cybersecurity	Fall/Spring	03580850 (1 credit)	None	None

### Year 2

COURSE NAME	SEMESTER	SERVICE ID	PREREQUISITES	COREQUISITES
Computer Science I	Fall	03580200 (1/2 credit)	Algebra I	None
Internetworking Technologies I	Spring	N1302803 (1/2 credit)	None	None
Comp TIA A+				

### Year 3

COURSE NAME	SEMESTER	SERVICE ID	PREREQUISITES	COREQUISITES
Computer Maintenance/Lab	Fall	13027300 (1 credit) 13027310 (2 credits)	Foundations of Cybersecurity	None
Networking/Lab	Spring	13027400 (1 credit) 13027410 (2 credits)	None	None
Comp TIA Network +				

### Year 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Cybersecurity Capstone	03580855 (1 credit)	None	None
Comp TIA Security +			

FOR ADDITIONAL INFORMATION ON THE TRANSPORTATION, DISTRIBUTION, AND LOGISTICS CAREER CLUSTER,  
PLEASE CONTACT:

Academy Director Robert Ross  
[ross@premontisd.net](mailto:ross@premontisd.net)  
 Premont Collegiate High School  
 Principal  
 Claudette Garcia  
[Claudette.Garcia@premontisd.net](mailto:Claudette.Garcia@premontisd.net)

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[Further nondiscrimination information can be found at Notification of Nondiscrimination in Career and Technical Education Programs.](#)



# STEM Discovery Zone

The STEM Discovery Zone focuses on careers in planning, management, and movement logistics by road, pipeline, air, rail, and water. It also includes related professional support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

## Drone (Unmanned Flight) Regional Program of Study



The Drone-Unmanned Flight regional program of study introduces CTE learners to the occupations and education opportunities related to operating or designing an unmanned aircraft using a ground-based controller and the systems of communications between the controller and the aircraft.

### Secondary Courses for High School Credit

#### Year 1

- Introduction to Unmanned Aerial Vehicles (UAV)
- Introduction to Aerospace and Aviation

#### Year 2

- Robotics I

#### Year 3

- Robotics II

#### Year 4

- Scientific Research and Design

### Work-Based Learning and Expanded Learning Opportunities

#### Exploration Activities

- Participate in SkillsUSA
- Explore virtual aviation websites

#### Work-Based Learning Activities

- Work part-time at an aviation services agency, drone company, or airline company

### Industry-Based Certifications

- FAA Part 107 Remote Drone Pilot

### Postsecondary Opportunities

#### Associates Degrees

- Airline Pilots
- Copilots
- Flight Engineers
- Surveying



### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Aerospace Engineering and Operations Technicians	\$60,757	114	9%
Avionics Technicians	\$59,114	170	9%
Airline Pilots, Copilots, and Flight Engineers	\$165,130	1,150	9%
Commercial Pilots	\$86,310	548	9%

Successful completion of the Drone (Unmanned Flight) regional program of study will fulfill requirements of the Business and Industry or STEM endorsement if the math and science requirements are met. Revised – October 2022

FOR ADDITIONAL INFORMATION ON THE TRANSPORTATION, DISTRIBUTION AND LOGISTICS CAREER CLUSTER PLEASE CONTACT:

STEM Academy Director Robert Ross [ross@premontisd.net](mailto:ross@premontisd.net)

Premont Collegiate High School Principal Claudette Garcia [claudette.Garcia@premontisd.net](mailto:claudette.Garcia@premontisd.net)

# Drone (Unmanned Flight)

## Premont Collegiate High School Course Information

### Year 1

COURSE NAME	SEMESTER	SERVICE ID	COLLEGE COURSE INFO	PREREQUISITES	COREQUISITES
Introduction to Unmanned Aerial Vehicles (UAV)	Fall	N1304670 (1 credit)		None	None
Introduction to Aerospace and Aviation	Spring	N1304672 (1 credit)	GUAS2371(3 hours) Fundamentals of Unmanned Aircraft System	Introduction to Unmanned Aerial Vehicles (UAV)	None
FAA Part 107 Remote Drone Pilot					

### Year 2

COURSE NAME	SEMESTER	SERVICE ID	COLLEGE COURSE INFO	PREREQUISITES	COREQUISITE
Robotics I	Fall	13037000 (1/2 credit)	BCIS1305 (3 hours) Business Computer Applications	None	None
Robotics I	Spring	13037000 (1/2 credit)	GISC1311 (3 hours) Introduction to Geographic Information Systems (GIS)	BCIS1305 Business Computer Applications	None

### Year 3

COURSE NAME	SEMESTER	SERVICE ID	COLLEGE COURSE INFO	PREREQUISITES	COREQUISITES
Robotics II	Fall	13037050 (1/2 credit)	GISC2420 (4 hours) Intermediate Geographic Information Systems (GIS)	Robotics I	None
Robotics II	Spring	13037050 (1/2 credit)	GISC1421 (4 hours) Introduction to Raster-Based Geographic Information Systems (GIS)	Robotics I	None

### Year 4

COURSE NAME	SEMESTER	SERVICE ID	COLLEGE COURSE INFO	PREREQUISITES	COREQUISITES
Scientific Research and Design	Fall	13037200 (1/2 credit)	GUAS2372 (3 hours) Data Acquisition and Analysis with UAS	Biology, Chemistry, Integrated Physics and Chemistry (IPC) or Physics	None
Scientific Research and Design	Spring	13037200 (1/2 credit)	GUAS 2473 (3 hours) UAS Field Camp	Biology, Chemistry, Integrated Physics and Chemistry (IPC) or Physics	None

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# GROW YOUR OWN ACADEMY

The Grow Your Own Academy focuses on education services and related learning support services. All parts of courses are designed to introduce learners to the various careers available within the Education and Training career cluster.

## Teaching and Training Statewide Program of Study



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.

### Secondary Courses for High School Credit

#### Level 1

- Principles of Education and Training
- Principles of Human Service

#### Level 2

- Human Growth and Development
- Child Development
- Child Development Associate Foundations

#### Level 3

- Instructional Practices
- Child Guidance
- Teaching Strategies for Special Populations (TBD)

#### Level 4

- Practicum in Education and Training

### Postsecondary Opportunities

#### Associates Degrees

- Teacher Education
- Education, General (or specific subject area)
- Special Education
- Health and Physical Education/Fitness

#### Bachelor's Degrees

- Bilingual and Multilingual Education
- Education, General (or specific subject area)
- Special Education
- Health and Physical Education/Fitness

#### Master's, Doctoral, and Professional Degrees

- Instruction and Learning
- Educational Leadership and Administration, General
- Special Education
- Social and Philosophical Foundations of Education

### 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, Except Special and Career/Technical Education	\$54,510	6,407	15%
Career and Technical Education Teachers, Secondary School	\$56,360	719	9%
Special Education Teachers, Secondary School	\$56,720	980	18%

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

### Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"> <li>• Participate in the Texas Association of Future Educators</li> </ul>	<ul style="list-style-type: none"> <li>• Teach a community education class</li> <li>• Intern as a teaching assistant or tutor</li> </ul>

### Industry-Based Certifications

- Educational Aide I
- Early Development and Education Level I Child Provider Certificate at Coastal Bend College



FOR ADDITIONAL INFORMATION ON THE TEACHING AND TRAINING CAREER CLUSTER PLEASE CONTACT:

GYO Academy Director Velma Marin [vmarin@premontisd.net](mailto:vmarin@premontisd.net)

Premont Collegiate High School Principal Claudette Garcia [claudette.Garcia@premontisd.net](mailto:claudette.Garcia@premontisd.net)





# Teaching and Training

## Premont Collegiate High School Course Information

### Year 1

COURSE NAME	SEMESTER	SERVICE ID	COLLEGE COURSE INFO	PREREQUISITES	COREQUISITES
Principles of Education and Training	Fall	13014200 (1 credit)		None	None
Instructional Practices w/2 lab hours per week or 30 hours per semester. Local Service ID	Spring	13014400 (1 credits)	CDEC1313(3 hours) Curriculum Resources for Early Childhood Programs	Principles of Education and Training	None

### Year 2

COURSE NAME	SEMESTER	SERVICE ID	COLLEGE COURSE INFO	PREREQUISITES	COREQUISITES
Child Guidance w/2 lab hours per week or 30 hours per semester. Local Service ID	Fall	13024800 (1 credits)	CDEC1319 (3 hours) Child Guidance	Principles of Education and Training	None
Human Growth and Development w/2 lab hours per week or 30 hours per semester. Local Service ID	Spring	13014300 (1 credit)	CDEC1321 (3 hours) Infant and Toddler	Child Guidance	None
Principles of Human Services	Spring	13024200 (1 credit)	EDUC1300 (3 hours) Learning Frameworks	Child Guidance	None

### Year 3

COURSE NAME	SEMESTER	SERVICE ID	COLLEGE COURSE INFO	PREREQUISITES	COREQUISITES
Child Development w/Practicum 13014500	Fall	13024700 (1 credit)	CDEC1356 (3 hours) Emergent Literacy for Early Childhood	Human Growth and Development	None
Business Information Management I/Lab	Fall	13011400 (1 credit)	BCIS1305 (3 hours) Business Computer Applications	None	None
Child Development Associate Foundations w/Practicum 13014510	Spring	12701300 (1 credits)	CDEC1358 (3 hours) Creative Arts for Early Childhood	Child Guidance	Principles of Education and Training

### Year 4

COURSE NAME	SEMESTER	SERVICE ID	COLLEGE COURSE INFO	PREREQUISITES	COREQUISITES
Teaching Strategies for Special Populations w/Practicum 13014505	Fall	13024900 (1 credits)	CDEC1359 (3 hours) Children With Special Needs	All previous courses	None
Practicum in Education and Training w/2 lab hours per week or 30 hours per semester. Local Service ID	Fall	13014520 (2 credits)	TECA1311 (3 hours) Educating Young Children	All previous courses	None
Practicum in Early Learning w/2 lab hours per week or 30 hours per semester. Local Service ID	Spring	13014525 (3 credits)	TECA1318 (3 hours) Wellness of the Young Child	All previous courses	None

Completion of above 30 hours leads to certification through Coastal Bend College  
*Early Development and Education Level I Child Provider Certificate*

During Spring of Year 4 **OR** upon completion of the above plan which includes Instructional Practices and Practicum in Education and Training application may be made through the State Board of Educator Certification (SBEC) for *230.55 Educational Aide I*

Premont ISD does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities and provides equal access to the Boy Scouts and other designated youth groups. The following person has been designated to handle inquiries regarding the nondiscrimination policies: Dr. Kristina Gonzalez, Assistant Superintendent, [kgonzalez@premontisd.net](mailto:kgonzalez@premontisd.net), 361-348-3915 Ext 2003 [Further nondiscrimination information can be found at Notification of Nondiscrimination in Career and Technical Education Programs.](#)

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