

ENGINEERING



9th

Principles of Applied Engineering

10th

Manufacturing Engineering Technology

11th

Engineering Design & Problem Solving

12th

Engineering Design & Presentation

Postsecondary Options

HIGH SCHOOL/INDUSTRY CERTIFICATION	CERTIFICATE/LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
Federal Aviation Administration (FAA)	Engineer, Professional	Electrical and Electronics Engineering		
	Fluid Power Systems Designer	Drafting and Design Technology/Technician, General	CAD/CADD Drafting and Design Technology/Technician	Mechanical Engineering
	Certified Biomedical Auditor	Engineering Technology	Bioengineering and Biomedical Engineering	
	Certified Cost Estimator/Analyst		Construction Engineering Technology/Technician	

For more information on postsecondary options for this program of study, visit TXCTE.org.

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.

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	10%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
TBD

Work Based Learning Activities:
Engineering internship
Job shadow a machinist



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

Successful completion of the Engineering program of study will fulfill requirements of the Business and Industry and STEM endorsement if the math and science requirements are met.

