



Secondary Courses for High School Credit

- Level 1
- Principles of Applied Engineering
 - Principles of Technology
 - Introduction to Aerospace and Aviation
 - Introduction to ComputerAided Design and Drafting
 - Introduction to Engineering Design (PLTW)
 - Engineering Essentials (PLTW)
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- Level 2
- Intermediate ComputerAided Design and Drafting
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- Level 3
- Engineering Design and Presentation I
 - Engineering Mathematics
 - Engineering Science
 - Aerospace Engineering (PLTW)
 - Engineering Design and Development (PLTW)
 - Aerospace Design I (TBD)
 - Mechanical Design I (TBD)
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- Level 4
- Engineering Design and Problem Solving
 - Engineering Design and Presentation II
 - Aerospace Design II (TBD)
 - Mechanical Design II (TBD)
 - Career and Technical Education Projected Capstone
 - Practicum in Science, Technology, Engineering, and Mathematics
 - Practicum in Science, Technology, Engineering, and Mathematics + Extended
 - Practicum in Science, Technology, Engineering, and Mathematics
 - Practicum in Engineering (TBD)
 - Career Preparation for Programs of Study
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Dual credit offerings will vary by local education agency.

Students should be advised to consult their course opportunities to enrich their preparation. AP or

Course Information

Level 1

Course	Prerequisites Corequisites	Career Clusters
Principles of Applied Engineering* 13036200 (1 credit)	Prerequisites:None Corequisites:None Recommended Prerequisites:None Recommended Corequisites:None	
Principles of Technology* 13037100 (1 credit)	Prerequisites:One credit of high school science and Algebra I Corequisites:None Recommended Prerequisites:None Recommended Corequisites:None	
Introduction to Aerospace and Aviation* N1304672 (1 credit)	Prerequisites:None Corequisites:None Recommended Prerequisites:None Recommended Corequisites:None	
Introduction to ComputerAided Design and Drafting* 13037350 (1 credit)	Prerequisites:None Corequisites:None Recommended Prerequisites:Principles of Applied Engineering, Principles of Architecture and Design, or Principles of Manufacturing Recommended Corequisites:None	
Introduction to Engineering Design (PLTW)* N1303742 (1 credit)	Prerequisites:None Corequisites:None Recommended Prerequisites:None Recommended Corequisites:None	
Engineering Essentials (PLTW)* N1303760 (1 credit)	Prerequisites:None Corequisites:None Recommended Prerequisites:None Recommended Corequisites:None	

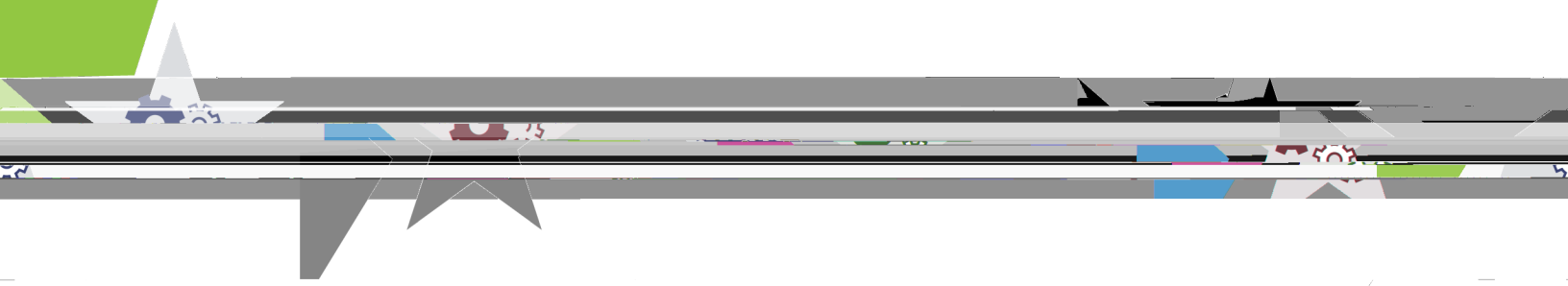
Level 2

Course	Prerequisites Corequisites	Career Clusters
Intermediate Computer Aided Design and Drafting* 13037360 (1 credit)	Prerequisites:Architectural Design I and Introduction to ComputerAided Design and Drafting Corequisites:None Recommended Prerequisites:None Recommended Corequisites:None	

* Indicates course is included in more than one program of study.

For additional information on the Engineering Career Cluster, contact cte@tea.texas.gov or visit <https://tea.texas.gov/cte>







Engineering Career Cluster

Statewide Program of Study Mechanical and Aerospace