## Secondary Courses for High School Credit

Level 1	<ul> <li>Principles of Applied Engineering</li> <li>Principles of Technology</li> <li>Introduction to Aerospace and Aviation</li> <li>Introduction to ComputerAided Design and Drafting</li> <li>Introduction to Engineering Design (PLTW)</li> <li>Engineering Essentials (PLTW)</li> </ul>
Level 2	Intermediate Compute/Aided Design and Drafting
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)
Level 4	<ul> <li>Engineering Design and Problem Solving</li> <li>Engineering Design and Presentation II</li> <li>Aercepace Design II (TBD)</li> <li>Mechanical Design II (TBD)</li> <li>Career and Technical Education ProjBated Capstone</li> <li>Practicum In Science, Technology, Engineering, and Mathematics</li> <li>Practicum In Science, Technology, Engineering, and Mathematics + Extended Practicum In Science, Technology, Engineering, and Mathematics</li> <li>Practicum In Science, Technology, Engineering, and Mathematics</li> </ul>

Dual credit offerings will vary by local education agency.

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

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## **Course Information**

Course	Prerequisites  Corequisites	Career Clusters
Principles of Applied Engineering* 13036200 (1 credit)	Prerequisites:None Corequisites:None Recommended Prerequisite&Ione Recommended Corequisite&Ione	
Principles of Technology* 13037100 (1 credit)	Prerequisites:One credit of high school science and Algebra I Corequisites:None Recommended Prerequisite <b>\$</b> Ione Recommended Corequisite <b>\$</b> Ione	
Introduction to Aerospace and Aviation* N1304672 (1 credit)	Prerequisites:None Corequisites:None Recommended Prerequisite\$None Recommended Corequisite\$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:Ione	<b>2</b> 8
Introduction to Engineering Design (PLTW)* N1303742 (1 credit)	Prerequisites:None Corequisites:None Recommended Prerequisite <b>\$</b> Ione Recommended Corequisite <b>\$</b> Ione	
Engineering Essentials (PLTW)* N1303760 (1 credit)	Prerequisites:None Corequisites:None Recommended Prerequisite <b>s</b> Ione Recommended CorequisitesIone	

Course	Prerequisites  Corequisites	Career Clusters
Intermediate Compute <del>r</del> Aided Design and Drafting* 13037360 (1 credit)	Prerequisites:Architectural Design I and Introduction to ComputerAided Design and Drafting Corequisites:None Recommended PrerequisiteNone Recommended CorequisiteNone	

For additional information on the Engineeringreercluster, contactcte@tea.texas.govr visithttps://tea.texas.gov/cte

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



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## **Course Information**

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	Course	Prerequisites  Corequisites	Career Clusters
Level 4	Engineering Design and Problem Solving* 13037300 (1 credit)	Prerequieu30 (r)-4 (e)-2.6 (q)4.6 (u)4.7 (i) Tf 0>BDC 0.004 Tciune Probol-4f q Tf7 7 0.2>c -0.013 Tw.2>c -ntl-4f8nd3037300 @ i it)	∍ neneu3-(i) Tf137 0>BDC C (ne)tf

## Engineering Career Cluster

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