## 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 ComputeAided 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>Aerospace Design II (TBD)</li> <li>Mechanical Design II (TBD)</li> <li>Career and Technical Education ProBated 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>

Statewide Program of Study/lechanical and Aerospagengineering

## **Course Information**

Course	Prerequisites  Corequisites	Career Clusters
Principles of Applied Engineering* 13036200 (1 credit)	Prerequisites:None Corequisites:None Recommended Prerequisite <b>s</b> Ione Recommended Corequisite <b>s</b> Ione	
Principles of Technology* 13037100 (1 credit)	Prerequisites:One credit of high school science and Algebra I Corequisites:None Recommended Prerequisite <b>s</b> Ione Recommended Corequisite <b>s</b> Ione	
Introduction to Aerospace and Aviation* N1304672 (1 credit)	Prerequisites:None Corequisites:None Recommended Prerequisite <b>s</b> Ione Recommended Corequisite <b>s</b> Ione	
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 Prerequisite <b>s</b> Ione Recommended Corequisite <b>s</b> Ione	
Engineering Essentials (PLTW)* N1303760 (1 credit)	Prerequisites:None Corequisites:None Recommended Prerequisite <b>s</b> Ione Recommended CorequisitesIone	0

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 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.



[LEA name] does not discriminate on the basis of race, color, national origin, sex, or disability in its programs or arcdivities des equal access to the Boy Scouts and other designated youth groups. The following person has been designated to handle inquiries regarding the nondiscrimination policies: [tites]{attraction of Nondiscrimination in Career and Technical Education Programs



Statewide Program of Study/lechanical and Aerospagengineering

## **Course Information**

			<i>x</i>
Level 4	Course	Prerequisites  Corequisites	Career Clusters
	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

Statewide Program of Study/lechanical and Aerospace