## SD Program of Study

**Engineering & Technology Pathway** *(Project Lead the Way)*

This plan of study should serve as a guide, along with other career planning materials, as you continue your career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. All plans should meet high school graduation requirements as well as postsecondary entrance requirements.

### SD Program of Study

<table>
<thead>
<tr>
<th>GRADE</th>
<th>English</th>
<th>Math</th>
<th>Science</th>
<th>Social Studies/Sciences</th>
<th>SD Required Electives</th>
<th>Career &amp; Technical Education Courses</th>
<th>SAMPLE Career Options Relating to This Pathway</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>* Geometry (02072)</td>
<td>* Biology (03051)</td>
<td>1 unit total - any combination of: * World Language or * Capstone Service Learning or Approved Career &amp; Technical Education</td>
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<tr>
<td>10</td>
<td>*English/Literature II (01051)</td>
<td>*Speech (01151)</td>
<td>* Geometry (02072)</td>
<td>* Biology (03051)</td>
<td>1 unit total - any combination of: * World Language or * Capstone Service Learning or Approved Career &amp; Technical Education</td>
<td>Pre Requisite Courses</td>
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<tr>
<td>11</td>
<td>*English/Comp III (01102) *American Literature (01054)</td>
<td>Algebra II (02056)</td>
<td>Physics (03151)</td>
<td>* American History-Comprehensive (04101)</td>
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<tr>
<td>12</td>
<td>* English IV (01004)</td>
<td>Trigonometry (02103)</td>
<td>* AP Chemistry (03106) or College Science Elective</td>
<td>* U.S. Government-Comprehensive (04151)</td>
<td>* Personal Finance (22210) or *Economics (04201)</td>
<td>Specialized Courses</td>
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### Personal Learning Plan (PLP) initiated for all students, career and academic advisement and appropriate assessments.

### SECONDARY

- * 10th Grade: Language Arts II, Geometry, Biology, 1 unit total - any combination of: World Language or Capstone Service Learning or Approved Career & Technical Education, Introduction to Technology Education (21051)
- * 11th Grade: Language Arts III, Algebra II, Physics, American History-Comprehensive, 1 unit total - any combination of: World Language or Capstone Service Learning or Approved Career & Technical Education
- * 12th Grade: Language Arts IV, Trigonometry, AP Chemistry (03106) or College Science Elective, U.S. Government-Comprehensive, 1 unit total - any combination of: Personal Finance (22210) or Economics (04201), Introduction to Engineering Design (21006) or Principles of Engineering (21004) or Digital Electronics (21008)

### POSTSECONDARY

- * Year 13: Written and Oral Communications, College Level Math, Natural Sciences, Social Studies/Sciences, Computer Literacy
- * Year 14: Written Communications, Information Literacy, Wellness for Life Arts & Humanities
- * Year 15: Written Communications, Information Literacy, Wellness for Life Arts & Humanities
- * Year 16: Written Communications, Information Literacy, Wellness for Life Arts & Humanities

### CAREER CLUSTER CERTIFICATES

- OSHA 10 Hour Safety Certification—Construction Industry
- OSHA 10 Hour Safety Certification—General Industry

* Orange Text - College Level - Dual Credit

* Classes available through Virtual School

* Recommended academic