**COMPOSITE 1 / MANUFACTURING 1**

**Composites/Manufacturing** is a branch of Engineering Manufacturing that teaches students to design, create, and build various parts and equipment used in every day to improve the quality of life.

Strength, stealth, and speed – these are key words related to the composites industry. This course focuses on the properties and manufacturing of fiberglass reinforced plastics and advanced composites. Composites 1 is the first in a two-part sequence of courses focusing on advanced materials and processing used in planes, cars, bicycles and many other products. Students will create engineering drawings, use precision measuring instruments, manufacturing equipment, machines, and materials to improve an existing design or manufacture original products.

<table>
<thead>
<tr>
<th>Topics Covered</th>
<th>Career Paths</th>
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<tbody>
<tr>
<td>Precision Measuring</td>
<td>Aerospace Engineering</td>
</tr>
<tr>
<td>Additive Manufacturing</td>
<td>Engineering Technician</td>
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<tr>
<td>Vacuum Bagging</td>
<td>Industrial Engineering Technician</td>
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<tr>
<td>Vacuum Infusion</td>
<td>Materials Engineer</td>
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<tr>
<td>Mold Making</td>
<td>Mechanical Engineer</td>
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<tr>
<td>Carbon Fiber Park Skinning</td>
<td>CTE Teacher</td>
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<tr>
<td>Part Finishing</td>
<td>Mechanical Drafter</td>
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<td>Tool and Die Maker</td>
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To Register, submit a GTI Application (signed by parent).
Visit the GTI website or contact your school counselor for an application.

**Utah Aerospace Certification upon completion of Internship**

Granite School District does not discriminate on the basis of race, color, sex, pregnancy, religion, national origin, marital status, disability, sexual orientation, gender identity, age, or any other legally protected classification in educational programs, activities, or access to facilities.

**Location**
Granite Technical Institute
2500 S. State St.

**Transportation**
School bus available to & from GTI

**Grade Level**
10th-12th grades

**Pre-Requisites**
None

**Class Times**
2-period Block

**Credits**
1.0 CTE, Elective

**Length**
Semester

**Fees**
Lab fees required.
Fee waivers available for qualifying students at their home high school.

**Certification**
Utah Aerospace Certification (completion of Internship)