

COMPOSITE INSPECTION (A.S.)

ASSOCIATE OF SCIENCE

The Composites Inspection Program provides the diverse student body in the surrounding regional community with advanced education in plastic manufacturing technology and serves as a bridge between students who seek job skills, industry certifications or Certificate of Achievement for employment. The Program provides a high quality of instruction to achieve its objectives.

The Department aims to provide basic to advanced training in composite manufacturing, composite inspection, composite tool design, and plastic manufacturing. These form the fundamental skills necessary for the average and expected workload in the plastic and composite industries. Enrolled students are strongly positioned for employment in both industries throughout the course of the Program.

Program Student Learning Outcomes

- Student demonstrate safe work habits around plastics machinery.
- Student utilize non-destructive procedures to inspect the quality of a manufactured part.
- Students communicate clear technical instructions.
- Students differentiate between the various types of plastic.
- Students identify by visual inspection the quality of a manufactured part.
- Students use percentages to mix resins, fillers, and colors.
- Students use physical testing to validate the strength of a manufactured part.
- Students utilize ratios and fractions to mix materials.

Program Requirements

Code Number	Course Title	Units
Required Courses		
ENGT 111	Plastics Technology	3.0
ENGT 116	Blueprint Reading and Production	4.0
ENGT 117	Geometrical Dimensioning and Tolerancing and Model Based Definition	4.0
ENGT 209	Plastics Injection Molding I	3.0
ENGT 251	Composites Fabrication and Tooling	4.5
MTT 131	Geometric Tolerance Inspection using Verisurf	3.0
Total Units		21.5

ASSOCIATE OF SCIENCE DEGREE REQUIREMENTS

Students must complete the required major courses, the Cerritos College Associate in Arts General Education requirements, and electives as needed. Students must earn a 2.0 grade point average and earn a grade of "C" or higher in major/emphasis courses.