

## CGT Manufacturing Graphics Minor

### Mission

The mission of the Manufacturing Graphics minor offered by the Department of Computer Graphics Technology at Purdue University is to expose majors outside the Department of Computer Graphics Technology to manufacturing graphics expertise in their chosen academic major and subject specializations. Students who complete the minor will gain applied knowledge in current and emerging graphics theories and computer graphics technologies associated with the design, documentation, and manufacture of products and related services.

### Prerequisite Courses

The following prerequisite courses (one in each area) are required before enrolling in CGT 226:

- MA 161, MA 221, MA 223, or an approved substitution
- CPT 267, CS 156, CS 158 (C or C++ programming), or an approved substitution
- PHYS 152, PHYS 218, PHYS 220, or an approved substitution

### Requirements

- All courses in the minor must be taken for a grade. P/NP is not an option.
- A grade of "C" or better must be obtained in all Computer Graphics Technology Manufacturing Graphics minor classes.
- Only students pursuing four-year degrees are eligible for the minor. Students must complete 14 or more credit hours selected from the following list of courses:

#### Required courses:

CGT 110 Computer Graphics Communications

or

CGT 116 Geometric Modeling for Visualization & Communication

or

CGT 163 Introduction to Graphics for Manufacturing

or

CGT 164 Introduction to Graphics for Civil Engineering and Construction

CGT 226 Constraint-based Modeling (CIMT 311)

CGT 323 Surface Modeling

CGT 326 Manufacturing Graphics Standards

#### Select one of the following:

CGT 423 Manufacturing Documentation Production and Management or

CGT 426 Industrial Applications for Simulation

### Minor is open only to students in the following departments:

Mechanical Engineering (ME)

Industrial Engineering (IE)

Interdisciplinary Engineering (IDE)

Industrial Design (ID)

Mechanical Engineering Technology (MET)

Computer Programming Technology (CPT)

Aeronautics & Astronautics Engineering (AAE)

Agricultural and Biological Engineering (ABE)

Industrial Management

Aviation Technology (AT)

Industrial Technology (IT)