

# **Engineering Design Graphics Minor**

## **Program Description**

The Engineering Design Graphics (EDG) Minor equips future engineers with the skills to leverage advanced 3D CAD design tools and Industry standard manufacturing drawing/documentation techniques.

While mastering the 3D design tools and techniques within the EDG minor, students will be afforded, depending on the classes chosen, the opportunity to earn industry-standard professional level SolidWorks Certifications including CSWP (Mechanical Design) and CSWP-Advanced certifications: CSWPA-SM (Sheet Metal), CSWPA-DT (Drawing Tools), CSWPA-WD (Weldments), and CSWPA-Surfacing. Additionally, a CSWA-level Certification can be earned in Additive Manufacturing.

Further, in parallel with 3D modeling skills, students will be immersed in project-based exercises that closely mimic real-world product development and product documentation efforts-inclusive of best-practice design processes and Industry compliant drawing creation using ASMEY 14.5 standards.

Graduates that complete the EDG minor will be Industry-ready to significantly contribute to Industry product design and manufacturing documentation efforts, substantially adding to their value as engineers.

Note: Not available to MET students with a concentration in Engineering Design Graphics or General.



This program is a part of the Southern Polytechnic College of Engineering and Engineering Technology.

## **Admission, Enrollment, and Graduation Policies**

### **Admission Requirements**

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the catalog.

### **Enrollment Requirements**

Upper division courses require Engineering Standing

### Graduation Requirements

Each student is expected to meet the requirements outlined in the Academic Policies: 5.0  
PROGRAM REQUIREMENTS & GRADUATION.

## **Program Course Requirements**

### **Required Course (3 Credit Hours)**

- EDG 1212: Engineering Graphics II

### **Electives (12 Credit Hours)**

Select 4 courses for a total of 12 credit hours from the following:

- EDG 3112: Advanced Engineering Graphics
- MET 3332: Rapid Design and Manufacture
- EDG 4111: Surface Modeling
- EDG 4222: CAD Customization and Standards
- EDG 4224: Engineering Design Graphics for Custom Manufacturing
  
- MET 4112: Computer Aided Engineering & Analysis  
or
- ME 4250: Computer Aided Engineering

### **Program Total (15 Credit Hours)**