Computer-Aided Design (CAD) Technology

Computer-Aided Design (CAD) involves the preparation of engineering drawings using specialty computer software. In recent years, CAD has become the preferred means of drawing and illustrating in all engineering-related fields. The Computer-Aided Design Technology certificate of achievement program is designed to provide students with the knowledge and skills needed to effectively use CAD in any professional environment. Fields in which CAD is used as a basic tool include civil engineering, mechanical engineering, manufacturing engineering, architecture, surveying, and construction.
COURSES

Program Requirements

GENERAL EDUCATION REQUIREMENTS

Written & Oral Communications (6 credits)
ENG 101 (3 credits)
ENG 102 or ENG 105 Technical Writing (one 3-credit course)

Quantitative Knowledge & Skills (4 credits)
MTH 100 (4-credits)

MAJOR COURSE REQUIREMENTS

ENR 100 Introduction to Engineering Technologies and Sciences (3 credits)
ENR 103 Engineering Graphics (2 credits)
ENR 105 Applied Computer-Aided Design (2 credits)
ENR 106 Intermediate Computer-Aided Design (2 credits)
ENR 205 Advanced Computer-Aided Design (3 credits)
ENR 250 Computer-Aided Design Project (2 credits)

RECOMMENDED SEQUENCE OF COURSES

Total Credits Required for Certificate of Achievement: 24

First Semester
ENG 101 College Composition I (3 credits)
ENR 100 Introduction to Engineering Technologies and Sciences (3 credits)
ENR 103 Engineering Graphics (2 credits)
MTH 100 Introductory College Mathematics (4 credits)

Second Semester
ENG 102 College Composition II OR ENG 105 Technical Writing (one 3-credit course)

ENR 105 Applied Computer-Aided Design (2 credits)
ENR 106 Intermediate Computer-Aided Design (2 credits)

Summer Session
ENR 205 Advanced Computer-Aided Design (3 credits)
ENR 250 Computer-Aided Design Project (2 credits)