University of Central Missouri • Four-Year Academic Guide


This guide is valid for the 2011 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree and course sequencing will depend on any credits transferred to UCM and on Planned Placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester
- CADD 1105 Basic AutoCAD
- CTE 1300 Introduction to Engineering Design (3) or CADD 1110 Fundamentals of Drafting (2)
- ENGT 1000 Principles of Engineering
- ENGT 1500 Orientation to Engineering Technology*
- ENGT 1510 Introduction to Manufacturing Processes*
- MATH 1112 College Trigonometry**

Semester Total

Freshman Year - Spring Semester
- CADD 1120 Machine Drafting*
- CADD 2170 Introduction to Computer-Aided Drafting
- ENGL 1020 Composition I
- ET 1010 Applied Electricity*
- MATH 1131 Applied Calculus

Semester Total

Sophomore Year - Fall Semester
- CMGT 2020 Statics
- ENGL 1012 Global Production Technology
- ENGT 1501 Seminar in Engineering Technology
- ENGT 2040 Engineering Materials Science
- PHYS 1104 Introduction to the Sciences: Physics

Semester Total

Sophomore Year - Spring Semester
- CMGT 3020 Applied Strength of Materials
- ECON 1010 Principles of Macroeconomics
- ENGT 1501 Seminar in Engineering Technology
- ENGT 2530 Machine Tool Technology

Semester Total

Junior Year - Fall Semester
- CADD 3124 Production Design Drafting*
- CADD 4170 CAD & Design for Engineering Technology
- CTE 3060 Technical Writing
- ENGT 1501 Seminar in Engineering Technology
- ET 1050 Digital Principles & Applications*
- General Education

Semester Total

Junior Year - Spring Semester
- CADD 4174 Machine Design*
- CADD 4124 Geometric Dim. & Tol. for Engineering Tech.*
- COMM 3010 Interpersonal Communication
- ENGT 1501 Seminar in Engineering Technology
- General Education

Semester Total

Junior Year - Summer Semester
- SOT 3022 Internship in Technology

Semester Total

Senior Year - Fall Semester
- CADD 4175 Advanced 3D Analysis & Rapid Prototyping*
- ENGT 3520 Engineering Economy
- INDM 4250 Project Management
- ATM 4032 Hydraulics & Pneumatics
- General Education

Semester Total

Senior Year - Spring Semester
- ENGT 4580 Quality Systems
- ICAP 4110 Engineering Technology Problem Solving
- INDM 4260 Organizational Dynamics
- Departmentally Approved Major Elective***
- General Education

Semester Total

Engineering Technology, Option 2 (Mechanical Eng. Tech. - Product Design) B.S. Degree - 124-125 hours

- *This class is only offered during the semester indicated.
- **Enrollment in MATH 1112 assumes you have met the prerequisite MATH requirements in your high school curriculum. If you have not met these requirements MATH 1111 or proper MATH placement will be required per University planned placement guidelines.
- ***See departmental advisor for a listing of the approved elective courses within the major.
- To satisfy the General Education Assessment Policy students must take the GEA exam during the semester in which a total of 45 credit hours will be earned. The minimum score of 425 must be achieved by the semester in which 75 credit hours will be earned. Go to UCM Testing Services in MyCentral for more information.