CONSTRUCTION ENGINEERING TECHNOLOGY (BACHELOR OF SCIENCE, B.S.)

Overview

This four-year degree program prepares individuals as entry-level field construction coordinators, estimators, job schedulers, and construction management trainees. It also prepares individuals for positions related to construction document control, purchasing, equipment superintendent (renting) and quality assurance/quality control. The Bachelor of Science in Construction Engineering Technology degree program within the Department of Engineering Technology at Missouri Western State University is accredited by the Engineering Technology Accreditation Commission of ABET, https://www.abet.org (https://www.abet.org/), under the commission's General Criteria and Program Criteria for Construction Engineering Technology.

Program Educational Objectives (BS CET)

1. Possess the general knowledge of construction industry such as concepts, terminologies, basic and standard problem-solving techniques.
2. Demonstrate the ability to produce and utilize design, operation, and execution documents related to building and/or heavy construction industry.
3. Function effectively in a group environment in the workplace through demonstration of technical and communication skills.
4. Understand professional, ethical, and social responsibilities.

Requirements

Students who choose this bachelor degree program will have no more than 6 years from admission or subsequent declaration to meet the requirements listed below. If certification, accreditation or statutory requirements change and additional requirements become effective during this time, the new requirements take precedence.

Code	Title	Credit Hours
General Studies		**42**
Students must complete General Studies courses (https://catalog.missouriwestern.edu/undergraduate/university-information/academic-standards-regulations/baccalaureate-degree/#bachelor-general-studies) [1]		
Major Requirements		**79**
CET 105	Construction Materials	3
CET 202	Surveying I	3
CET 254	Construction Methods and Equipment	4
CET 256	Bituminous, Concrete and Soils	3
CET 260	Mechanics of Materials	4
CET 270	Electrical Installations	3
CET 308	Analysis of Structures	3
CET 315	Mechanical Systems	3
CET 351	Construction Estimating I	3
CET 358	Structural Steel and Wood Design	3
CET 408	Design of Concrete and Masonry Structures	3
CET 451	Advanced Construction Estimating and Bidding	2
CET 458	Soil Mechanics and Foundations	3
CET 480	Construction Planning and Scheduling	3
CET 484	Construction Management	3
CET 488	Construction Contracts Administration	3
CHE 101	Introductory Chemistry	4
EGT 205	Computer-Aided Drafting I	3
EGT 260	Statics	3
EGT 350	Engineering Documentation	3
EGT 370	Financial Aspects of Engineering Projects	2
EGT 490	Engineering Technology Internship	1
MAT 116	College Algebra	3
MAT 119	Trigonometry	2
MAT 147	Applied Calculus	5
PHY 110	College Physics I	4

[1] Courses in general studies may also be required within the major. While the course(s) may satisfy both requirements, the credit hours will count only one time in the overall hours earned.

Program Graduation Requirements

1. Earn a grade of C or higher in all EGT and CET prefix major coursework.
2. Earn an overall GPA of at least 2.0 and a major GPA of at least 2.0.

University Graduation Requirements

1. Earn a minimum of 120 credit hours (100 level and higher, maximum of 6 continuing education credit hours applicable).
2. Earn a minimum of 30 credit hours in upper-division courses. Lower-division transfer courses accepted as meeting upper-division departmental course requirements cannot be used to fulfill this requirement.
3. Earn 30 of the last 45 credit hours at MWSU in institutional coursework (exclusive of credit by examination).
4. Participate in required departmental and campus wide assessments.
5. Fulfill the Missouri Constitution requirement.
6. Successfully pass the Missouri Higher Education Civics Achievement exam.