

CONSTRUCTION MANAGEMENT (CMT)

CMT 100 - Introductory Craft Skills

Credit Hours: 2, Contact Hours: 3

Division: Technical

This course provides an introduction to essential construction skills. Through structured classroom and hands-on skill building, the student will be introduced to the construction industry, building materials, safety, hand and power tools, print reading, construction math, communication and employability skills. Group 2 course.

CMT 102 - Construction Blueprint Reading

Credit Hours: 3, Contact Hours: 3

Division: Technical

Students will learn the skills needed to read and understand construction drawings, as well as an understanding of manufacturers' literature of component parts used in buildings. Both commercial and residential construction materials and drawings are studied. Problems encountered in design development such as site limitations, zoning restrictions, utility availability, coordination of product specifications, adherence to building codes and life safety are explored. Group 2 course.

Recommended Prerequisite(s): Placement into MTH 111 or co-enrollment in MTH 100, placement into ENG 111 or co-enrollment in ENG 99/108

CMT 107 - Construction Supervision

Credit Hours: 4, Contact Hours: 4

Division: Technical

Students will learn the skills needed for construction management including: business management, estimating and job costing, design and building science, contracts, liability and risk management, marketing and sales, project management and scheduling, the Michigan Residential Code, MIOSHA construction safety standards, and effective communication for construction project management. As part of this course, students will earn pre-licensure for the Residential Builders/Maintenance & Alteration Contractors Examination. Group 2 course. Critical Thinking - Direct.

Recommended Prerequisite(s): Students have completed or are co-enrolled in MTH 100 and ENG 99/108

CMT 110 - Introduction to 3D Concrete Printing

Credit Hours: 3, Contact Hours: 3

Division: Technical

This course will equip students with the knowledge and skills required for 3DCP construction printing using industry-recognized printing technologies. Participants will learn about materials, design, operation, and workforce development related to 3DCP home printing. Group 2 course.

Required Prerequisite(s): CAR 121, CAR 125

CMT 207 - Construction Cost Estimating

Credit Hours: 3, Contact Hours: 3

Division: Technical

In this course students will explore topics pertaining to the processes of construction estimating and bidding techniques. Those topics will include, but are not limited to, the discussion and exploration of the identification and quantification of construction materials, labor, and equipment for the construction bidding process. Some computer estimation programs and/or cost data publications will be used to develop estimates. Group 2 course. Quantitative Reasoning. Required Prerequisite(s): CIT 100, CMT 102, CMT 107, MTH 111 or higher.

Recommended Prerequisite(s): ENG 111-may be taken concurrently, math and reading skills are necessary for success in this course

CMT 290 - Construction Mgmt. Internship

Credit Hours: 3, Contact Hours: 3

Division: Technical

The purpose of the internship is to provide on-the-job training for the student who wishes to pursue a career in a technical field of study. The internship will be customized to meet the learning needs of the student and the job requirements of the sponsoring firm. Students spend 10-15 hours per week in this paid, supervised on-the-job training experience. In addition to the required 50 hours per credit in a work site, students participate in semi-monthly seminars. Students must apply one month prior to the semester in which they will complete the internship. Group 2 course. Communications - Direct.