

FERRIS STATE UNIVERSITY
COLLEGE OF TECHNOLOGY

CONSTRUCTION MANAGEMENT
BACHELOR OF SCIENCE DEGREE
HIGHWAY/BRIDGE CONCENTRATION (CMCT)

BS Degree Minimum General Education Requirements

(See the General Education webpage at www.ferris.edu/HTMLS/academics/gened/gened.html for details and acceptable courses in each program)

Communications Competence: 12 semester hours

Quantitative Skills: MATH 115 or ACT score

Scientific Understanding: 7/8 semester hours,
including at least one lab course.

Cultural Enrichment: 9 semester hours,
including at least one course 200 level or higher.

Social Awareness: 9 semester hours,
including at least one Foundation course and at least one
course 300 level or higher.

At least one Global Consciousness (G) course and one
Race/Ethnicity/Gender (REG) course
(within Cultural Enrichment or Social Awareness).

Meeting all requirements for graduation is the student's responsibility. Your advisor is available to assist you.

Total hours required for graduation: 129/130

FIRST YEAR-FALL SEMESTER

CREDITS/GRADES

CONM 111	Construction Practices (MATH 116 concurrent)	3	_____
CONM 113	Computer Applications for Construction (MATH 116 concurrent)	3	_____
CONM 121	Materials Properties and Testing (MATH 116 concurrent) OR Cultural Enrichment Elective	3	_____
ENGL 150	English 1 (Placement)	3	_____
MATH 116	Intermediate Algebra and Numerical Trigonometry (Placement)	4	_____

FIRST YEAR-WINTER SEMESTER

CONM 112	Plans and Specifications (CONM 111, C- in MATH 116)	3	_____
	Cultural Enrichment Elective OR		
	CONM 121 Materials Properties and Testing (MATH 116 Concurrent)	3	_____
CONM 122	Construction Surveying and Layout (C- in MATH 116)	3	_____
MATH 126	Algebra and Analytic Trigonometry (C- in MATH 116)	4	_____
PHYS 211	Introductory Physics 1 (MATH 116)	4	_____

SECOND YEAR-FALL SEMESTER

CONM 211	Construction Quantity Estimating (CONM 112, 113, C- in MATH 116)	3	_____
CONM 212	Soils and Foundations (CONM 121, C- in MATH 116) OR		
	CONM 221 Statics and Structures (C- in MATH 116, PHYS 211)	3 or 4	_____
CETM 214	Advanced Materials Properties and Testing (CONM 121, C- in MATH 116)	3	_____
ENGL 211	Industrial and Career Writing (ENGL 150)	3	_____
ECON 221	Principles of Economics 1 (Social Awareness)	3	_____

SECOND YEAR-WINTER SEMESTER

CONM 221	Statics and Structures (C- in MATH 116, PHYS 211) OR		
	CONM 212 Soils and Foundations (CONM 121, C- in MATH 116)	4 or 3	_____
CONM 222	Construction Administration (CONM 211)	3	_____
CETM 215	Pavement Design and Construction	3	_____
CETM 226	Highway Technology (CONM 113, 122)	3	_____
CETM 227	Hydraulics and Hydrology (MATH 126, PHYS 211)	3	_____

**CONSTRUCTION MANAGEMENT
HIGHWAY/BRIDGE CONCENTRATION (CMCT)
FALL SEMESTER
Curriculum Guide Sheet**

THIRD YEAR-FALL SEMESTER

CREDITS/GRADES

CONM 311	Formwork and Temporary Structures (CONM 221)	3	_____
CONM 312	Construction Scheduling (CONM 222) OR		
	CONM 321 Construction Cost Estimating (CONM 211)	3	_____
CONM 313	Construction Economics	3	_____
MATH 132	Calculus for Business (C- in MATH 126) OR		
	ELECTIVE Lab Science Elective	3 or 4/5	_____
ACCT 221	Principles of Construction Accounting (C- in MATH 126)	3	_____

THIRD YEAR-WINTER SEMESTER

CONM 321	Construction Cost Estimating (CONM 211) OR		
	CONM 312 Construction Scheduling	3	_____
CONM 324	Advanced Construction Computer Techniques (CONM 113)	3	_____
BLAW 221	Elementary Business Law	3	_____
COMM 121	Fundamentals of Public Speaking	3	_____
ELECTIVE	Lab Science Elective (e.g. PHYS 212, CHEM 121, GEOL 121) OR		
	MATH 132 Calculus for Business	3 or 4/5	_____
ELECTIVE	Social Awareness Elective(300+)	3	_____

FOURTH YEAR-FALL SEMESTER

CONM 412	Construction Contracts (CONM 222, BLAW 221, ENGL 250)	3	_____
CONM 423	Construction Management Professional Methods (ENGL 211/250, CONM 313, Senior Standing)	4	_____
MGMT 301/310	Applied Management/Small Business Management	3	_____
MKTG 231	Professional Selling	3	_____
ELECTIVE	Cultural Enrichment Elective (200+)	3	_____

FOURTH YEAR-WINTER SEMESTER

CONM 422	Construction Supervision and Safety (CONM 222, ENGL 250)	3	_____
CONM 499	Construction Project Management (CONM 312, 321, 323, 324; CONM 412, 422 concurrent; C- in MATH 126)	3	_____
STQM 260	Introduction to Statistics (MATH 116)	3	_____
ELECTIVE	Cultural Enrichment Elective	3	_____
ELECTIVE	Social Awareness Elective	3	_____

A minimum 2.30 GPA and C- in MATH 126 is required of all students entering junior year CONM courses.

The upper level communications competence requirement will be fulfilled by completing CONM 412, CONM 422, and CONM 423, which are Writing Intensive Courses. A minimum of 2.3 GPA and C- in MATH 126 is required of all students entering junior year CONM courses.