

The Bachelor of Science in Construction Management curriculum produces graduates who are prepared to manage the entire construction process. This industry-driven degree blends technical instruction in construction and engineering with a strong business education. It builds on a foundation strong in basic construction technology, mathematics, science and general education with program courses covering project costs, estimating, economics, scheduling, contracts, safety, engineering fundamentals, technical communication, advanced computer software and technology, business management, and building information modeling. The program is accredited by the American Council for Construction Education (ACCE).

#### General Admission Criteria

##### Returning Students

- 2.5 cumulative GPA
- Student must have passed MATH 120 or 126 with a C or better
- Student must have credit for PHYS 211
- Completion of AAS in BCTM, CETH, CETM or Architectural Technology through Ferris State University

##### Transfer Students

- 2.5 cumulative GPA
- Student must have passed MATH 120 (MTH 121 at DC) with a C or better (or transfer equivalent with a C or better for transfer) or higher math
- Student must have credit for PHYS 211 (PHY 111 at DC)
- Completion of AAS in Architectural Technology through Delta College
- Must complete CONM 122, 211, 212, 222, 225, and HVAC 337 through Ferris State University with a 2.5 GPA prior to entry to 300/400 level CONM courses. Additionally, ENGL 311 must be completed prior to the start of all 400 level CONM courses.

#### Communication Competency Requirements

FSU Course	FSU Course Title	FSU Cr. Hrs.	Delta Equiv.	Delta Course Title	Delta Cr. Hrs.
COMM 121	Fundamentals of Public Speaking	3	COM 112	Fundamentals of Oral Communication	3
ENGL 150	English 1	3	ENG 111	College Composition 1	3
ENGL 211	Industrial and Career Writing	3	ENG 113 or ENG 213	Technical Communication or Advanced Technical Communication	3
ENGL 311	Advanced Technical Writing	3	No Equivalent	No Equivalent	No Equivalent

**Quantitative Literacy Requirements** - Student must have completed an equivalent to MATH 120 or have a SAT Math test score of 610+ prior to coming to Ferris

FSU Course	FSU Course Title	FSU Cr. Hrs.	Delta Equiv.	Delta Course Title	Delta Cr. Hrs.
MATH 132	Calculus for Business	3	MTH 160	Calc Soc & Mgr Sci	4

**Natural Sciences Competency Requirements** – Minimum 8 – 9 Credits Required; at least one course must have a lab

FSU Course	FSU Course Title	FSU Cr. Hrs.	Delta Equiv.	Delta Course Title	Delta Cr. Hrs.
Varies	FSU General Education – Natural Sciences elective - Recommended - CHEM 114, CHEM 121, PHYS 212, GEOL 121, PHSC 110 or GEOG 111	3 - 4	Varies	Varies – must be a physical science class with a laboratory. Courses such as Biology do not count.	4
PHYS 211	Introductory Physics	4	PHY 111	General Physics 1	4

**Culture Competency Requirements** – 9 Credits Required – Three courses are required with a minimum of 9 credits: must be from two different disciplines and have at least one 200 level or higher course.

FSU Course	FSU Course Title	FSU Cr. Hrs.	Delta Equiv.	Delta Course Title	Delta Cr. Hrs.
Varies	FSU General Education – Culture electives	9	Varies	Varies	9

**Self and Society Competency Requirements** – Three courses are required with a minimum of 9 credits: must be from two different disciplines, have at least one 200 level or higher course, and at least one Self and Society Foundation course.

FSU Course	FSU Course Title	FSU Cr. Hrs.	Delta Equiv.	Delta Course Title	Delta Cr. Hrs.
Varies	FSU General Education – Self and Society electives	6	Varies	Varies	6
ECON 201 or ECON 202	Principles of Microeconomics or Principles of Macroeconomics	3	ECN 222W or ECN 221W	Principles of Microeconomics or Principles of Macroeconomics	4

## Ferris State University General Education Program

Students are encouraged to work with an advisor to select appropriate general education courses. 2 credits of Culture or Self and Society must transfer to Ferris as a 300 level course.

A 2.5 GPA in CONM 122, 211, 212, 222, and 225 and HVAC 337 through Ferris State University is required for entry to the 300 and 400 level CONM courses. Additionally, ENGL 311 must be completed prior to the start of all 400 level CONM courses.”

**Diversity** – “Diversity (both Global and U.S. Diversity)” and “Self and Society Foundation” requirements must be met either through Culture or Self and Society or other courses

### Major Requirements – 25 Credits Required

FSU Course	FSU Course Title	FSU Cr. Hrs.	Delta Equiv.	Delta Course Title	Delta Cr. Hrs.
CONM 311	Formwork and Temporary Structures	3	No Equivalent	No Equivalent	No Equivalent
CONM 312	Construction Scheduling	3	No Equivalent	No Equivalent	No Equivalent
CONM 321	Construction Estimating II	3	No Equivalent	No Equivalent	No Equivalent
CONM 324	Advanced Construction Computer Techniques and Technology	3	No Equivalent	No Equivalent	No Equivalent
CONM 373	Ethics and Professionalism in Construction	1	No Equivalent	No Equivalent	No Equivalent
CONM 412	Construction Contracts	3	No Equivalent	No Equivalent	No Equivalent
CONM 413	Construction Economics	3	No Equivalent	No Equivalent	No Equivalent
CONM 424	Construction Safety and Management	3	No Equivalent	No Equivalent	No Equivalent
CONM 499	Construction Project Management	3	No Equivalent	No Equivalent	No Equivalent

### Advisor Directed Electives – 4 Credits Required; Choose from the following

FSU Course	FSU Course Title	FSU Cr. Hrs.	Delta Equiv.	Delta Course Title	Delta Cr. Hrs.
CONM 460	Current Topics in Construction Management	2	No Equivalent	No Equivalent	No Equivalent
CONM 461	Sustainability in Construction	2	No Equivalent	No Equivalent	No Equivalent
CONM 462	Power and Process Plant Construction	2	No Equivalent	No Equivalent	No Equivalent
CONM 463	Infrastructure Construction	2	No Equivalent	No Equivalent	No Equivalent

### Technical Related – 9 Credits Required

FSU Course	FSU Course Title	FSU Cr. Hrs.	Delta Equiv.	Delta Course Title	Delta Cr. Hrs.
ACCT 221	Principles of Construction Accounting	3	No Equivalent	No Equivalent	No Equivalent
BLAW 301	Legal Environment of Business	3	No Equivalent	No Equivalent	No Equivalent
MGMT 3--	Management Elective (MGMT 302, 305, <b>373</b> , (310 with permission)	3	MGT 256	Human Resources Mgmt	3

### Additional Associate Degree Coursework – 30 Credits Required – Assumed AAS in Construction Management earned from Delta College

FSU Course	FSU Course Title	FSU Cr. Hrs.	Delta Equiv.	Delta Course Title	Delta Cr. Hrs.
CONM 122	Const Surveying – Layout	3	No Equivalent	No Equivalent	No Equivalent
CONM 211	Const Estimating 1	3	ARC 204	Estimating Bldg Cons	3
CONM 212	Soils and Foundations	3	No Equivalent	No Equivalent	No Equivalent
CONM 222	Construction Administration	3	No Equivalent	No Equivalent	No Equivalent
CONM 225	Field Engineering	3	No Equivalent	No Equivalent	No Equivalent
CONM 117	Construction Building Information Technology	3	No Equivalent	No Equivalent	No Equivalent
CONM 221	Statics and Structures	3	No Equivalent	No Equivalent	No Equivalent
BCTM 217	Virtual Design and Construction	3	No Equivalent	No Equivalent	No Equivalent
BCTM 234	Electrical Construction Practices	3	No Equivalent	No Equivalent	No Equivalent
BCTM 235	Mechanical Construction Practices	3	No Equivalent	No Equivalent	No Equivalent

### Total Credits Required for Degree

**122**

\*Listed Ferris CONM and BCTM classes take a minimum of 5 semesters to complete.

### Program Contact Information:

#### Main Campus, Big Rapids

#### College of Engineering Technology

#### School of Built Environment

(231) 591-3773 | [Construction Management Email](#)

#### Ferris Statewide, FSU-Grand Rapids

(616) 451-4777 | (800) 9998-3425 | [Ferris Grand Rapids Email](#)

[Transfer Partnerships Website](#)

### Ferris State University and Delta College – Construction Management Bachelor of Science – Transfer Guide

Effective Fall 2019; updated ECON courses numbers/sequence Fall 2020

Ferris State University is an equal opportunity institution. For information on the University's Policy on Non-Discrimination, visit [ferris.edu/non-discrimination](http://ferris.edu/non-discrimination).

### **Delivery Locations**

This degree and the Ferris courses are offered to Delta students at the following locations:

- Ferris State University, Big Rapids, MI
- Select courses delivered online and/or in a mixed delivery format (i.e. a mix of online and face-to-face instruction at the Community College, the Ferris main campus, or at another off-campus location).

### **Advising Notes**

It is recommended that potential applicants meet with an advisor to review the degree, course schedule, and have any questions answered prior to completing an application. Students who are completing the MTA may have different general education course requirements for the particular degree selected. Meeting with a Ferris advisor prior to the selection of general education or elective course work may reduce the chance of completing a course that will not apply toward the selected degree. Once admitted, students must continue to meet with an advisor as they work toward graduation.

### **Graduation Requirements**

**In addition to meeting all the programmatic requirements, students must:**

1. Meet University General Education requirements.
2. Earn a minimum of 120 credits.
3. Maintain a 2.00 or higher cumulative FSU GPA.
4. Earn 30 credits from FSU (Residency).
5. Earn 40 credits of 300 level or higher courses.
6. Earn 22 of the 29 credits of 300 and 400 level CONM courses at FSU.

### **Transfer Student Orientation**

All new students to Ferris State University are required to complete an orientation.

### **Reverse Transfer Agreement**

The Community College and Ferris have entered into a partnership in order to work collaboratively and creatively to increase student completion of associate and bachelor degrees. The partners work together to provide a seamless transfer experience and increase student retention and completion at both the community college and Ferris.

### **Michigan Transfer Agreement (MTA)**

Ferris participates in the Michigan Transfer Agreement (MTA). This agreement will facilitate the transfer of general education requirements from one Michigan institution to another. Students may complete the MTA as part of a degree program or as a stand-alone package. The MTA consists of a minimum of 30 general education credit hours as identified by the college or university.

Students transferring to Ferris with the Michigan Transfer Agreement (MTA) and entering a degree program will have met a 30-hour block of lower-level general education courses. However, this does not exempt students from completing program specific prerequisites or higher-level general education course requirements. Students should contact their advisor regarding courses that meet the MTA.

Students must work with their Ferris advisor to declare a Minor or Concentration and for selection of Directed Electives.

### **Disclaimer**

This is a guide for students who plan to transfer to Ferris State University. This guide is not intended to be a contract with Ferris. The information on this guide is subject to change. Students should contact their community college or Ferris to keep informed of changes. Final responsibility for verifying all transfer information lies with the student. Please refer to effective and/or revised date on the bottom of this guide.