

CONSTRUCTION MANAGEMENT TECHNOLOGY AREA OF CONCENTRATION WITHIN STEM TECHNOLOGY A.A.S. (CAREER)

Program website ([https://www.frederick.edu/programs/science,-technology,-engineering,-and-math-\(stem\)/construction-management.aspx](https://www.frederick.edu/programs/science,-technology,-engineering,-and-math-(stem)/construction-management.aspx))

Program Manager: Construction & Applied Technologies Institute (CATI)
Email: CATI@frederick.edu (closchiavo@frederick.edu)
Phone: 240.629.7912

Program Description

Provides students with a broad range of knowledge and skills required for success in a career in construction management. Students planning on transferring to a four year college should discuss course requirements with the program manager.

Program Learning Outcomes

- Students will be able to demonstrate a working knowledge of the complete construction process which includes effective planning, scheduling, and control of the overall construction project.
- Students will understand construction safety principles and practices, and be familiar with related federal/state/county codes.

Program Requirements

- Students must complete their credit **English and Mathematics** within the first 24 credits.
- One course must meet the cultural competence graduation requirement (<https://frederick-public.courseleaf.com/general-education-core/#cultural>).
- **CORE: The General Education CORE** is that foundation of the higher education curriculum providing a coherent intellectual experience for all students. Students should check with an advisor or the transfer institution (ARTSYS) before selecting General Education CORE requirements. <http://artsys.usmd.edu/>
- In some General Education categories (Mathematics, Biological & Physical Sciences), a 4-credit course selected from the GenEd course list will satisfy the requirement in place of a 3-credit course. Students should check with an advisor before selecting these courses.
- For the Physical Education, Health, or Nutrition requirement, a 3-credit PHED, HLTH, or NUTR course may satisfy the requirement in place of a 1-credit course. Students should check with an advisor before selecting this course.
- Students must earn a grade of "C" or better in ENGL 101 English Composition.
- Students must complete a minimum of nine credits at the 200-level.

Code	Title	Credits
English		
ENGL 101	English Composition	3

Mathematics		
Mathematics Elective (Gen Ed course list) (https://frederick-public.courseleaf.com/general-education-core/#mathematics) - Recommended course(s) below:		
MATH 145	College Algebra	3
MATH 165	Precalculus	
MATH 175	Applied Calculus	
Social & Behavioral Sciences		
Social & Behavioral Sciences Elective (Gen Ed course list) (https://frederick-public.courseleaf.com/general-education-core/#social-behavioral)		
3		
Arts & Humanities		
Arts Elective (Gen Ed course list) (https://frederick-public.courseleaf.com/general-education-core/#arts)		
3		
Humanities Elective (Gen Ed course list) (https://frederick-public.courseleaf.com/general-education-core/#humanities) - Recommended course(s) below:		
PHIL 208	Business Ethics	
Communication Elective (Gen Ed course list) (https://frederick-public.courseleaf.com/general-education-core/#communication) - Recommended course(s) below:		
COMM 107	Career Communication	3
Biological & Physical Sciences		
Biological & Physical Sciences Elective (Gen Ed course list) (https://frederick-public.courseleaf.com/general-education-core/#biological-physical) - Recommended course(s) below:		
PHYS 101	Survey of Physics (Spring)	3
PHSC 101	Survey of Physical Science	
PHSC 121	Physical Geology (Fall)	
Physical Education, Health, or Nutrition Requirement		
Select one PHED, HLTH, or NUTR course		
1		
Concentration Courses		
ACCT 101	Principles of Accounting I	3
BMGT 103	Introduction to Business	3
BMGT 120	Business Communications	3
CMIS 101	Information Systems and Technology	3
CMTE 100	Occupational Safety & Health	2
CMTE 101	Construction Management	3
CMTE 130	Materials & Methods of Construction	3
CMTE 200	Site Management	3
CMTE 210	Construction Project Cost Estimating	3
CMTE 220	Construction Project Scheduling	3
Electives		
Select any of the following:		
ACCT 102	Principles of Accounting II	9
BMGT 100	Spreadsheet Applications	
BMGT 211	Business Law	
BMGT 227	Principles of Management	
EMGT 101	Disaster, Crisis, and Emergency Management	
INTR 103	Internship	
Any BLDT or CADT or CMIS or CMTE or SPAN course ¹		
Total Credits		60

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CMIS course: CMIS 111R Business Software Applications recommended.

Transfer Note

For more information on careers and transfer, contact the Career and Academic Planning Services office at 301.846.2471 or visit Transfer Services (<https://www.frederick.edu/student-resources/counseling-advising/transfer-services.aspx>).

Guided Pathway to Success (GPS)

Suggested schedules map your path to degree completion.

Students should meet with an advisor each semester to carefully select and sequence courses based on their specific academic goals and interests. Visit Jefferson Hall or call 301.846.2471 for advising.

Recommended First Semester		Credits
ENGL 101	English Composition	3
Mathematics Elective (Gen Ed course list) (https://frederick-public.courseleaf.com/general-education-core/#mathematics) - Recommended course(s) below:		3
MATH 145	College Algebra	
MATH 165	Precalculus	
MATH 175	Applied Calculus	
CMIS 101	Information Systems and Technology	3
BMGT 103	Introduction to Business	3
CMTE 101	Construction Management	3
Credits		15
Recommended Second Semester		Credits
CMTE 130	Materials & Methods of Construction	3
Biological & Physical Sciences Elective (Gen Ed course list) (https://frederick-public.courseleaf.com/general-education-core/#biological-physical) - Recommended course(s) below:		3
PHSC 101	Survey of Physical Science	
PHYS 101	Survey of Physics (Spring)	
PHSC 121	Physical Geology (Fall)	
ACCT 101	Principles of Accounting I	3
Communication Elective (Gen Ed course list) (https://frederick-public.courseleaf.com/general-education-core/#communication) - Recommended course(s) below:		3
COMM 107	Career Communication	
CMTE 100	Occupational Safety & Health	2
Credits		14
Recommended Third Semester		Credits
Humanities Elective (Gen Ed course list) (https://frederick-public.courseleaf.com/general-education-core/#humanities) - Recommended course(s) below:		3
PHIL 208	Business Ethics	
BMGT 120	Business Communications	3
Arts Elective (Gen Ed course list) (https://frederick-public.courseleaf.com/general-education-core/#arts)		3
CMTE 200	Site Management	3
Select one Elective from the list below (p. 2)		3
Credits		15
Recommended Fourth Semester		Credits
Social & Behavioral Sciences Elective (Gen Ed course list) (https://frederick-public.courseleaf.com/general-education-core/#social-behavioral)		3
CMTE 210	Construction Project Cost Estimating	3
Physical Education, Health, or Nutrition Requirement		1
CMTE 220	Construction Project Scheduling	3
Select two Electives from the list below (p. 2)		6
Credits		16
Total Credits		60

Electives

Code	Title	Credits
ACCT 102	Principles of Accounting II	3
BMGT 211	Business Law	3
BMGT 227	Principles of Management	3
EMGT 101	Disaster, Crisis, and Emergency Management	3
INTR 103	Internship	3
Any BLDT or CADT or CMIS or CMTE or SPAN courses		3
CMIS 111R	Business Software Applications (recommended)	
BMGT 100	Spreadsheet Applications (recommended)	

Part-time Students

Part-time students should complete courses in the order listed on the pathway. Please contact program manager for questions about part-time status.

Students who take fewer than 15 credits each semester or who require developmental English or Math coursework will need additional semesters to complete their degrees. Summer term and January session classes may help students to make faster progress.

Pathway Legend

Milestone - courses with the Milestone notation should be taken within the recommend credit range to stay on track for program completion.

Fall, Spring, Summer - courses with a Fall, Spring, or Summer notation indicate the course is offered in the specified semester only.