

# CONSTRUCTION MANAGEMENT

Bachelor of Science in Construction Management is a four-year program for students interested in careers in construction management, techniques, operations, and related areas in the construction industry. The degree draws upon skills in communication and interpersonal relations.

## About this Program

- **College:** Design, Construction and Planning (<http://catalog.ufl.edu/UGRD/colleges-schools/UGDCP/>)
- **School:** M.E. Rinker, Sr. School of Construction Management (<http://catalog.ufl.edu/UGRD/colleges-schools/UGCMN/>)
- **Degree:** Bachelor of Science in Construction Management
- **Credits for Degree:** 125
- **Contact:** 352.273.1180 | 304 Rinker Hall (<http://campusmap.ufl.edu/?loc=0272>)

*To graduate with this major, students must complete all university, college, and major requirements.*

## School Information

The mission of the M. E. Rinker, Sr. School of Construction Management is to be the center of excellence for construction. The Rinker School will pursue this by promoting professional and ethical behavior in education and practice, advancing the industry by creating new knowledge through research and scholarly activities, educating individuals in principles, knowledge, and skills required to be successful in their professional careers, and providing service and transferring knowledge to the citizens of Florida, the construction industry, professional societies, the nation, and the world.

Website (<https://dcp.ufl.edu/rinker/>)

## CONTACT

Email ([CMUndergraduate@dcp.ufl.edu](mailto:CMUndergraduate@dcp.ufl.edu)) | 352.273.1150 (tel) | 352.392.9606 (fax)

P.O. Box 115703  
304 RINKER HALL  
GAINESVILLE FL 32611-5703  
Map (<http://campusmap.ufl.edu/#/index/0272>)

## Curriculum

- Combination Degrees
- Construction Management
- Construction Management Certificate
- Emergency Management Certificate
- Emergency Medical Services Management Certificate
- Fire and Emergency Services UF Online
- Senior Fire Officer Certificate

Opportunities for advancement and increasing responsibility exist in all areas of the construction industry, including land development; home building; public building; industrialized building systems; commercial, industrial, marine and heavy construction; underwater development; space-age facilities; materials and equipment sales and installations; and construction product research, development, sales and applications.

## Critical Tracking

Critical Tracking records each student's progress in courses that are required for progress toward each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (<http://www.flvc.org/cpp/displayRecord.jsp?cip=151001&track=01>) may be used for transfer students.

## Semester 1

- Complete 3 of 9 critical-tracking courses: ACG 2021, BCN 1210, BCN 1251C (or ARC 1301 and ARC 1302), BCN 2405C, BUL 4310, ECO 2013, ENC 3254, STA 2023, PHY 2053/PHY 2053L
- 2.35 UF GPA required

## Semester 2

- Complete 1 additional critical-tracking course
- 2.4 UF GPA required

## Semester 3

- Complete 2 additional critical-tracking courses
- 2.45 UF GPA required

## Semester 4

- Complete 3 additional critical-tracking courses
- 2.5 GPA on all attempts of critical-tracking courses
- 2.5 UF GPA required

## Semester 5

- Complete BCN 3730

## Semester 6

- Complete BCN 3700

## Semester 7

- Complete BCN 4612C

## Semester 8

- Complete BCN 4787C

## Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

*This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.*

Course	Title	Credits
<b>Semester One</b>		
BCN 1210	Construction Materials ( <b>Critical Tracking</b> ) <sup>2</sup>	3
DCP 1003 or BCN 1001	Creating our Built Environment or Introduction to Construction Management	1

ENC 1101	Expository and Argumentative Writing (State Core Gen Ed Composition ( <a href="http://catalog.ufl.edu/UGRD/academic-programs/general-education/#genedcoursestext">http://catalog.ufl.edu/UGRD/academic-programs/general-education/#genedcoursestext</a> )) <sup>1,2</sup>	3
PHY 2053 & 2053L	Physics 1 and Laboratory for Physics 1 ( <b>Critical Tracking</b> ; State Core Gen Ed Physical Sciences) <sup>2</sup>	5
STA 2023	Introduction to Statistics 1 ( <b>Critical Tracking</b> ; State Core Gen Ed Mathematics)	3
<b>Credits</b>		<b>15</b>
<b>Semester Two</b>		
Quest 1 (Gen Ed Humanities)		3
ECO 2013	Principles of Macroeconomics ( <b>Critical Tracking</b> ; State Core Gen Ed Social and Behavioral Sciences)	4
Select one:		3
AML 2070	Survey of American Literature (Gen Ed Composition) <sup>2</sup>	
ENC 1102	Argument and Persuasion (Gen Ed Composition) <sup>2</sup>	
LIT 2110	Survey of World Literature: Ancient to Renaissance (Gen Ed Composition) <sup>2</sup>	
Gen Ed Physical Sciences <sup>2</sup>		3
Any SPN course, SPC course, COM course, or General Education course		3
<b>Credits</b>		<b>16</b>
<b>Semester Three</b>		
Quest 2 (Gen Ed Physical or Biological Sciences OR Gen Ed Social and Behavioral Sciences)		3
BCN 1251C	Construction Drawing ( <b>Critical Tracking</b> )	3
BCN 2405C	Construction Mechanics ( <b>Critical Tracking</b> ) <sup>2</sup>	4
MAC 2311 or MAC 2233	Analytic Geometry and Calculus 1 (Gen Ed Mathematics) <sup>2</sup> or Survey of Calculus 1	4
State Core Gen Ed Humanities with Diversity ( <a href="http://catalog.ufl.edu/UGRD/academic-programs/general-education/#genedcoursestext">http://catalog.ufl.edu/UGRD/academic-programs/general-education/#genedcoursestext</a> )		3
<b>Credits</b>		<b>17</b>
<b>Semester Four</b>		
ACG 2021	Introduction to Financial Accounting ( <b>Critical Tracking</b> )	4
BUL 4310	The Legal Environment of Business ( <b>Critical Tracking</b> )	4
ENC 3254	Professional Writing in the Discipline ( <b>Critical Tracking</b> ; Gen Ed Composition) <sup>2</sup>	3
Any SPN course, SPC course, COM course, or General Education course or BCN 1582		3
<b>Credits</b>		<b>14</b>
<b>Semester Five</b>		
BCN 3027C	Principles of Construction Management	3
BCN 3224C	Construction Techniques	3
BCN 3255C	Graphic Communication in Construction	3
BCN 3431C	Structures	3
BCN 3730	Construction, Safety, Health and the Environment ( <b>Critical Tracking</b> )	3
<b>Credits</b>		<b>15</b>
<b>Semester Six</b>		
BCN 3223C	Soils and Concrete	3
BCN 3521C	Electrical Systems	2
BCN 3611C	Construction Estimating 1	3

BCN 3700	Construction Contracts ( <b>Critical Tracking</b> )	3
MAN 3025	Principles of Management (Gen Ed Social and Behavioral Sciences)	4
BCN elective		3
<b>Credits</b>		<b>18</b>
<b>Semester Seven</b>		
BCN 4423C	Temporary Structures	3
BCN 4510C	Mechanical Systems	4
BCN 4612C	Construction Estimating 2 ( <b>Critical Tracking</b> )	3
BCN 4720	Construction Planning and Control	3
BCN elective		3
<b>Credits</b>		<b>16</b>
<b>Semester Eight</b>		
BCN 3281C	Construction Methods Laboratory (Surveying)	2
BCN 4709C	Construction Project Management	3
BCN 4787C	Construction Capstone Project ( <b>Critical Tracking</b> )	3
BCN 4753	Construction Finance	3
Elective (BCN or approved)		3
<b>Credits</b>		<b>14</b>
<b>Total Credits</b>		<b>125</b>

<sup>1</sup> If you place out of ENC 1101, take ENC 1102.

<sup>2</sup> Minimum grade of C- required.

## Residential Option

Building construction students may graduate with a residential option if they choose the option by registration for semester 6.

## Required Electives

Code	Title	Credits
Select one:		
REE 4303	Real Estate Investment Decision Making	
BCN 4237	Roofing Systems	
BCN 4787C	Construction Capstone Project (a residential project)	3

## Combination BS/MSCM and BS/MCM Degree Programs

The combination-degree programs require the same freshman, sophomore and junior course requirements as the B.S.C.M. program. The senior-year courses vary, as follows:

Course	Title	Credits
<b>Semester Seven</b>		
BCN 4423C	Temporary Structures	3
BCN 4510C	Mechanical Systems	4
BCN 4612C	Construction Estimating 2	3
BCN 4720	Construction Planning and Control	3
Graduate-level elective		3
<b>Credits</b>		<b>16</b>
<b>Semester Eight</b>		
BCN 3281C	Construction Methods Laboratory (Surveying)	2
BCN 4753	Construction Finance	3
BCN 5705C	Project Management for Construction	3
BCN 5789C	Construction Project Delivery	3

Graduate-level elective	2
<b>Credits</b>	<b>13</b>
<b>Total Credits</b>	<b>29</b>

## Summary

Code	Title	Credits
	Fifth Year Additional Credits for M.S.C.M.	18
	Total Credits for M.S.C.M.	143
	Fifth Year Additional Credits for M.C.M.	24
	Total Credits for M.C.M.	149

## Academic Learning Compact

The Bachelor of Science in Construction Management prepares students for a career in the construction industry.

## Before Graduating Students Must

- Pass the performance based capstone course utilizing Construction Project Simulation.
- Successfully utilize and interpret the Florida Building Code in classroom tests and reports.
- Satisfy formal presentation requirements; attend field trips and submit reports for them that demonstrate proficiency in writing professional memos and letters.
- Complete requirements for the baccalaureate degree, as determined by faculty.

## Students in the Major Will Learn to Student Learning Outcomes (SLOs)

### Content

1. Interpret knowledge of engineering, materials, methods, equipment and processes to safely construct buildings and structures.
2. Survey and quantify building components to estimate project costs, analyze progress and control expenditures.

### Critical Thinking

3. Create an effective planning, scheduling and control system by identifying, evaluating and organizing the diverse elements of a construction project.
4. Set up and manage project administration and management systems to efficiently document and monitor the construction process.

### Communication

5. Describe technical and financial data effectively in speech and in writing to all stakeholders in the construction process.

## Curriculum Map

*I = Introduced; R = Reinforced; A = Assessed*

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5
BCN 3027C					
BCN 3223C R					
BCN 3224C I					
BCN 3255C I					
BCN 3281C R					
BCN 3431C I					
BCN 3521C R					
BCN 3611C					

BCN 3700			R		
BCN 3730 I					I
BCN 4423C R					
BCN 4510C A					
BCN 4612C		R			
BCN 4709C				R	R
BCN 4720			R		R
BCN 4753		R			R
BCN 4787C A	A	A	A	A	A

## Assessment Types

- Exams
- Writing assignments
- Presentations
- The American Institute of Constructors (AIC) Level 1: Associate Constructor's exam, the first step toward AIC Professional Constructor Certification