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) | 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 (https://cpm.flvc.org/advance-search/) 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 or ECO 2023, 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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td><strong>Semester One</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BCN 1210</td>
<td>Construction Materials (Critical Tracking) 2</td>
<td>3</td>
</tr>
<tr>
<td>DCP 1003</td>
<td>Creating our Built Environment</td>
<td>1</td>
</tr>
<tr>
<td>or BCN 1001</td>
<td>or Introduction to Construction Management</td>
<td></td>
</tr>
<tr>
<td>ENC 1101</td>
<td>Expository and Argumentative Writing (State Core Gen Ed Composition)</td>
<td>3</td>
</tr>
<tr>
<td>PHY 2053</td>
<td>Physics 1</td>
<td>5</td>
</tr>
<tr>
<td>&amp; 2053L</td>
<td>and Laboratory for Physics 1 (Critical Tracking; State Core Gen Ed Physical Sciences) 2</td>
<td></td>
</tr>
<tr>
<td>STA 2023</td>
<td>Introduction to Statistics 1 (Critical Tracking; State Core Gen Ed Mathematics)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td><strong>15</strong></td>
<td></td>
</tr>
</tbody>
</table>

| **Semester Two**                                                                                   |         |
| Quest 1 (Gen Ed Humanities)                                                                        |         |
| Select one:                                                                                       |         |
| ECO 2013 | Principles of Macroeconomics (Critical Tracking; State Core Gen Ed Social and Behavioral Sciences) | 3       |
| ECO 2023 | Principles of Microeconomics (Critical Tracking)                                                   | 4       |
| Select one:                                                                                       |         |
| AML 2070 | Survey of American Literature (Gen Ed Composition) 2                                               | 3       |
| ENC 1102 | Argument and Persuasion (Gen Ed Composition) 2                                                     |         |
| LIT 2110 | Survey of World Literature: Ancient to Renaissance (Gen Ed Composition) 2                         |         |
| Gen Ed Physical Sciences 2                                                                         |         |
| Any SPN course, SPC course, COM course, or General Education course                               |         |
| **Credits**                                                                                       | **16**  |

| **Semester Three**                                                                                |         |
| Quest 2 (Gen Ed Physical or Biological Sciences OR Gen Ed Social and Behavioral Sciences)         |         |
| BCN 1251C | Construction Drawing (Critical Tracking)                                                          | 3       |
| BCN 2405C | Construction Mechanics (Critical Tracking) 2                                                      | 4       |
| MAC 2311 | Analytic Geometry and Calculus 1 (Gen Ed Mathematics) 2                                             | 4       |
| or MAC 2233 | or Survey of Calculus 1                         |         |
State Core Gen Ed Humanities with Diversity (http://catalog.ufl.edu/UGRD/academic-programs/general-education/#genedcoursestext) 3

### Semester Four

<table>
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<tr>
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<th>Credits</th>
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<tbody>
<tr>
<td>ACG 2021</td>
<td>Introduction to Financial Accounting (Critical Tracking)</td>
<td>4</td>
</tr>
<tr>
<td>BUL 4310</td>
<td>The Legal Environment of Business (Critical Tracking)</td>
<td>4</td>
</tr>
<tr>
<td>ENC 3254</td>
<td>Professional Writing in the Discipline (Critical Tracking; Gen Ed Composition)</td>
<td>3</td>
</tr>
<tr>
<td>Any SPN course, SPC course, COM course, or General Education course or BCN 1582</td>
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### Credits

17

### Semester Five

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BCN 3027C</td>
<td>Principles of Construction Management</td>
<td>3</td>
</tr>
<tr>
<td>BCN 3224C</td>
<td>Construction Techniques</td>
<td>3</td>
</tr>
<tr>
<td>BCN 3255C</td>
<td>Graphic Communication in Construction</td>
<td>3</td>
</tr>
<tr>
<td>BCN 3431C</td>
<td>Structures</td>
<td>3</td>
</tr>
<tr>
<td>BCN 3730</td>
<td>Construction, Safety, Health and the Environment (Critical Tracking)</td>
<td>3</td>
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</table>

### Credits

14

### Semester Six

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BCN 3223C</td>
<td>Soils and Concrete</td>
<td>3</td>
</tr>
<tr>
<td>BCN 3521C</td>
<td>Electrical Systems</td>
<td>2</td>
</tr>
<tr>
<td>BCN 3611C</td>
<td>Construction Estimating 1</td>
<td>3</td>
</tr>
<tr>
<td>BCN 3700</td>
<td>Construction Contracts (Critical Tracking)</td>
<td>3</td>
</tr>
<tr>
<td>MAN 3025</td>
<td>Principles of Management (Gen Ed Social and Behavioral Sciences)</td>
<td>4</td>
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<tr>
<td>BCN elective</td>
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### Credits

15

### Semester Seven

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>BCN 4423C</td>
<td>Temporary Structures</td>
<td>3</td>
</tr>
<tr>
<td>BCN 4510C</td>
<td>Mechanical Systems</td>
<td>4</td>
</tr>
<tr>
<td>BCN 4612C</td>
<td>Construction Estimating 2 (Critical Tracking)</td>
<td>3</td>
</tr>
<tr>
<td>BCN 4720</td>
<td>Construction Planning and Control</td>
<td>3</td>
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<tr>
<td>BCN elective</td>
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### Credits

18

### Semester Eight

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<th>Credits</th>
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<tbody>
<tr>
<td>BCN 3281C</td>
<td>Construction Methods Laboratory (Surveying)</td>
<td>2</td>
</tr>
<tr>
<td>BCN 4709C</td>
<td>Construction Project Management</td>
<td>3</td>
</tr>
<tr>
<td>BCN 4787C</td>
<td>Construction Capstone Project (Critical Tracking)</td>
<td>3</td>
</tr>
<tr>
<td>BCN 4753</td>
<td>Construction Finance</td>
<td>3</td>
</tr>
<tr>
<td>Elective (BCN or approved)</td>
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</table>

### Credits

14

### Total Credits

125

1 If a student places out of ENC 1101, they should take ENC 1102.

2 Minimum grade of C required.

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### Residential Option

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

#### Required Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>Select one:</td>
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<tr>
<td>REE 4303</td>
<td>Real Estate Investment Decision Making</td>
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</tr>
<tr>
<td>BCN 4237</td>
<td>Roofing Systems</td>
<td></td>
</tr>
<tr>
<td>BCN 4787C</td>
<td>Construction Capstone Project (a residential project)</td>
<td>3</td>
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</tbody>
</table>
Combination BS/MSCM and BS/MCM Degree Programs

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

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

<table>
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<th>Code</th>
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<tbody>
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<tr>
<td>Total Credits for MSCM</td>
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<td>Fifth Year Additional Credits for MCM</td>
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<tr>
<td>Total Credits for MCM</td>
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<td>149</td>
</tr>
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</table>

**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
<table>
<thead>
<tr>
<th>Courses</th>
<th>SLO 1</th>
<th>SLO 2</th>
<th>SLO 3</th>
<th>SLO 4</th>
<th>SLO 5</th>
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<tbody>
<tr>
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</table>

**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