

# CONSTRUCTION MANAGEMENT

## Program Information

Master of Construction Management (M.C.M.) or Master of Science in Construction Management (M.S.C.M.):

The M.E. Rinker Sr. School of Construction Management offers courses leading to the degrees of M.S.C.M. (thesis required) and M.C.M. (non-thesis). Specialization areas are listed on the school's webpage, <https://dcp.ufl.edu/rinker/research-fields/>. Requirements for the M.S.C.M. and M.C.M. degrees are given in the Graduate Degrees (<http://gradcatalog.ufl.edu/content.php?catoid=12&navoid=2748>) section of this catalog.

To be eligible for admission to the M.S.C.M. or M.C.M. programs, a student must hold a bachelor's degree from an accredited university with an acceptable grade point average. Students with undergraduate credentials outside the Construction Management area may need a longer residence for the MCM and MSCM programs, as they will be required to take specified basic courses to provide a foundation for advanced courses. There is no foreign language requirement. International students from countries where English is not the official language must submit an acceptable score on one of the following: TOEFL (Test of English as a Foreign Language: paper=560, web=84 with 21 in each section), IELTS (International English Language Testing System: 6.5), or successful completion of the UF English Language Institute program.

**Combination Degree:** The college participates in a combination degree program between a Bachelor of Science in Construction Management and a Master of Science in Construction Management. Please consult the academic unit for more information or if you are interested in participating in this program.

## Degrees Offered

### Degrees Offered with a Major in Construction Management

- Master of Construction Management
  - without a concentration
  - concentration in Hydrologic Sciences
- Master of Science in Construction Management
  - without a concentration
  - concentration in Hydrologic Sciences

Requirements for these degrees are given in the Graduate Degrees (<http://gradcatalog.ufl.edu/graduate/degrees/>) section of this catalog.

## Courses

### Construction Management Departmental Courses

Code	Title	Credits
BCN 5470	Construction Methods Improvements	3
BCN 5618C	Comprehensive Estimating	3
BCN 5625	Construction Cost Analysis	3
BCN 5705C	Project Management for Construction	3

BCN 5722	Advanced Construction Planning and Control	3
BCN 5729	Design-Build Delivery Methods	3
BCN 5737	Advanced Issues in Construction Safety and Health	3
BCN 5776	International Construction Business Management	3
BCN 5778	Facilities Operation and Maintenance	3
BCN 5789C	Construction Project Delivery	3
BCN 5874	Equipment and Methods for Heavy Construction	3
BCN 5885	Methods and Management for Heavy Construction	3
BCN 5905	Special Studies in Construction	1-5
BCN 5949	Graduate Construction Management Internship	1-3
BCN 5957	Advanced International Studies in Construction	1-4
BCN 6036	Research Methods in Construction	3
BCN 658C	Building Integrated Renewable Energy Systems	3
BCN 6580	High-Performance Green Building Delivery Systems	3
BCN 6583	Sustainable Housing	3
BCN 6584C	Building Energy Modeling	3
BCN 6585	Sustainable Construction	3
BCN 6586	Construction Ecology and Metabolism	3
BCN 6641	Construction Value Engineering	3
BCN 6748	Construction Law	3
BCN 6785	Construction Information Systems	3
BCN 6905	Directed Independent Study in Construction	1-3
BCN 6933	Advanced Construction Management	1-5
BCN 6940	Supervised Teaching	1-3
BCN 6971	Research for Master's Thesis	1-15
FES 6705	Communications in Emergency Management	3
FES 6724	Fire and Emergency Services Response Planning	3
FES 6726	Hazard Mitigation and Preparedness	3
FES 6735	International Emergency/Disaster Management	3
FES 6736	Homeland Security and Emergency Management	3
FES 6786	Research Methods in FES	3
FES 6806	Disaster Response and Recovery	3
FES 6826	Emergency Services - Disaster Planning	3
FES 6827	Business Continuity and Disaster Planning	3
FES 6836	Impacts of Natural and Man-made Disasters on Buildings	3
FES 6916	Research for Master's Report	3
FES 6940	Practicum in FES	1-3
FES 6971	Research for Master's Thesis	1-6
ICM 5905	Special Studies	1-3
ICM 6420	Commercial Management and Cost Control	3
ICM 6440	Construction Value Management	3
ICM 6680	Principles of International Sustainable Construction	3
ICM 6682	Construction Ecology and Metabolism	3
ICM 6684	High-Performance Green Building Delivery Systems	3
ICM 6710	Construction Human Resource Management	3
ICM 6716	Construction Productivity and Methods Improvement	3

ICM 6750	Managing Construction Information Technology	3
ICM 6761	Advanced Planning, Scheduling, and Logistics	3
ICM 6762	Construction Risk Management	3
ICM 6770	Advanced Project Safety Management	3
ICM 6775	Manufactured Construction Processes	3
ICM 6905	Directed Independent Study in International Construction	1-3
ICM 6910	Supervised Research	1-3
ICM 6930	Construction Communication and Research	3
ICM 6934	International Construction Research	1-6

## College of Design, Construction, and Planning Courses

Code	Title	Credits
DCP 6205	Ecological Issues in Sustainability and the Built Environment	3
DCP 6212	Sustainable Design Issues: Ecology, Architecture, and Planning	4
DCP 6217C	WELL Building Strategies (WELL Practicum)	6
DCP 6218	Developing Sustainable Projects	3
DCP 6221	Economics of Sustainability in the Built Environment	3
DCP 6230	Integrated Sustainable Development Practicum	6
DCP 6231C	Green Building Strategies	6
DCP 6301	Sustainable Planning and Design Studio	6
DCP 6701	World Heritage Research and Stewardship	3
DCP 6710	History and Theory of Historic Preservation	3
DCP 6711C	Built Heritage: History and Materials Conservation I	3
DCP 6712C	Built Heritage: History and Materials Conservation II	3
DCP 6714C	Built Heritage Documentation I	3
DCP 6715	Built Heritage Documentation II	3
DCP 6716	Cultural Resource Management	3
DCP 6718	Current Topics in Historic Preservation	3
DCP 6730	Preservation Policy	3
DCP 6905	Independent Study	1-3
DCP 6931	Special Topics in Design, Construction, and Planning	1-4
DCP 6943	Cultural Resource Survey	3
DCP 6971	Research for Master's Thesis	1-9
DCP 6979	Master's Research Project	1-6
DCP 7790	Doctoral Core 1: Paradigms and Theories of Inquiry	3
DCP 7794	Doctoral Core 4: Research Assessment and Professional Preparation	1
DCP 7911	Doctoral Core 2: Foundations of Research Design and Methodologies	3
DCP 7940	Supervised Teaching	1-3
DCP 7949	Professional Internship	1-5
DCP 7979	Advanced Research	1-12
DCP 7980	Research for Doctoral Dissertation	1-15
DCP 7981	Doctoral Core 3: Academic Writing for Publication	3

### Student Learning Outcomes

## Construction Management (MCM)

SLO 1 Apply Basic Statistics BCN 6036: Exam; 80% of students earn 77% or higher

SLO 2 Formulate a plan to solve a problem BCN 6036: 75% of students earn 77% or higher on both the written paper and the verbal presentation

SLO 3 Convey a Research Plan to interested parties utilizing proper written and verbal communication skills BCN 6036: 75% of students earn 77% or higher on both the written paper and the verbal presentation

SLO 4 Identify and exhibit professional and ethical behavior BCN 6036: 75% of students earn 77% or higher on their presentation dealing with ethical research

## Construction Management (MSCM)

SLO 1 Identify rigorous problems in the construction management discipline Thesis Defense: 100% of students earn an average rating of 3 or higher, and 80% of students will earn an average rating of 4 or higher, from their committee members as recorded on the Thesis Defense Assessment Rubric

SLO 2 Create a literature review on a selected topic that encapsulates the latest research on the topic Thesis Defense: 100% of students earn an average Rating of 3 or higher, and 80% of students will earn an average rating of 4 or higher, from their committee members as recorded on the Thesis Defense Assessment Rubric

SLO 3 Devise and apply research methods to solve problems and generate new knowledge Thesis Defense: 100% of students earn an average Rating of 3 or higher, and 80% of students will earn an average rating of 4 or higher, from their committee members as recorded on the Thesis Defense Assessment Rubric

SLO 4 Communicate effectively in writing Thesis Defense: 100% of students earn an average Rating of 3 or higher, and 80% of students will earn an average rating of 4 or higher, from their committee members as recorded on the Thesis Defense Assessment Rubric

SLO 5 Communicate effectively in professional situations Thesis Defense: 100% of students earn an average Rating of 3 or higher, and 80% of students will earn an average rating of 4 or higher, from their committee members as recorded on the Thesis Defense Assessment Rubric

### Faculty

## Professor

- Anumba, Chinemelu J.
- Castelblanco Bolivar, Gabriel Ernesto
- Flood, Ian
- Minchin, Robert E.
- Ries, Robert
- Srinivasan, Ravi Shankar

## Associate Professor

- Costin, Aaron M.
- Franz, Bryan Willam
- Gheisari, Masoud
- Liu, Rui
- Muszynski, Larry C.
- Von Meding, Jason Kyle

## Assistant Professor

- Agapaki, Evangelia
- Watson, Maria Katherine

## Distinguished Professor

- Issa, Raja Raymond

## Senior Lecturer

- Armaghani, Bahar A.
- Sullivan, James G.

## Affiliated Faculty

- Alwisy, Aladdin  
Assistant Professor
- Cox, Robert Francis  
Professor
- Idris Jeelani, Fnu  
Assistant Professor
- Wang, Chaofeng  
Assistant Professor
- Wong, Vivian Wen Hui  
Assistant Professor