

---

---

# MASTER OF CONSTRUCTION MANAGEMENT

DEPARTMENT OF CONSTRUCTION MANAGEMENT, COLLEGE OF TECHNOLOGY AND COMPUTER SCIENCE

---

---

The Department of Construction Management offers graduate courses leading to the Master of Science degree. The department is a proponent of collaborative network-based learning and offers its graduate program On-LINE. Graduates from this program are prepared to manage rapidly changing technologies and technical systems.

## ADMISSION REQUIREMENTS

**Applicants must meet the admission requirements of the ECU Graduate School.** In addition, for acceptance to the Master of Science degree in Construction Management an applicant must have completed an undergraduate degree in either construction management or a industry related discipline such as engineering, architecture, facilities management, architecture technology, and engineering technology and have completed a minimum of three years of construction experience after degree completion. Students from other disciplines may also be accepted but must typically have a minimum of ten years of construction experience. All applicants must submit a portfolio to demonstrate type and extent of construction experience. The portfolio will be the primary evaluation tool for final admission of all applicants. Applicants must show strength in experience at the management level. A faculty committee to assure applicants have attained the base level program entry requirements will evaluate each portfolio. If undergraduate deficiencies are present, the committee will prescribe a method for their removal. Students accepted into the program shall meet the proscribed computer system, software, and Internet connectivity to verify their compliance with Construction Management on-line requirements.

## MS in Construction Management

Minimum degree requirement is 30 s.h. of credit as follows:

1. Required CMGT Courses..... 27 s.h.  
*CMGT 6600, 6610, 6620, 6630, 6640, 6650, 6660, 6662, 6664*
2. Required Research Course ..... 3 s.h.  
*CMGT 6700*

## CMGT: CONSTRUCTION MANAGEMENT

**6600. Critical Analysis and Evaluation of Construction Documentation (3)** P: Acceptance into CMGT Masters Program. Methods of critically analyzing project data associated with construction design, process application, and project control problems and formulating logical solutions through a variety of documentation sources.

**6610. Advanced Computer Applications in Construction (3)** P/C: CMGT 6600. Understanding of emerging computing and information technologies in construction management and engineering.

**6620. Human Resources and Training (3)** P: CMGT 6600 The study of Human Resources in construction business environments; the theories of human behavior and how it is influenced by leadership, organization, environment, motivation, and culture.

**6630. Advanced Applications in Construction Scheduling (3)** P: CMGT 6600 Managing construction scheduling, project control, and strategic planning and analysis of single and multiple projects.

**6640. Land Use Management and Development (3) P:** CMGT 6600. The course investigates the principles and practice of site planning and infrastructure design for large urban developments, with relevant aspects of land use theory and implications for site planning.

**6650. Global Management of Construction (3) P:** CMGT 6600. Special problems and procedures related to international construction projects; impact of social, cultural, legal, and financial aspects of international contracting; logistics of labor, materials, and equipment in a foreign environment.

**6660. Quality Control Systems (3) P:** CMGT 6600. Developing and implementing methods of controlling and evaluating quality control in all processes of construction.

**6662. Legal Implications of Design & Construction (3) P:** CMGT 6600. Risk liability in the construction industry, contract case law, tort law, negligence, products liability, and the role of liability insurance and the professional liability of designers and building contractors.

**6664. Advanced Cost Estimating/Cost Analysis (3)** Incorporation of emerging estimating and cost control measures in construction industry. Conceptual and definitive estimating, cost developing, cost analysis methods, project delivery implications, international work implications, international work implications, and computer applications and modeling.

**6670. Special Topics in Construction (3) P:** Consent of Department Chair. Special Topics in selected areas of construction. Exploration and research in personal areas of interest.

**6700. Research Capstone Seminar (3)** Capstone Project development. Provides graduate students in Construction Management an opportunity to conduct independent study and research for the Master's degree program.

## PORTFOLIO Requirements

In addition to all Entrance Requirements established by the East Carolina University Graduate School, the following items are required for review prior to the determination of acceptance into the MCM degree.

Candidates must submit an ELECTRONIC PORTFOLIO in CD-R disk format

Candidate's Electronic Portfolio are to include the following MINIMUM items:

1. **Candidate's complete Vitae**
2. **Work History with responsibilities**
  - a. Documentation of 3 to 5 years of construction management since completing a BS degree
  - b. Documentation of 10 or more years of construction management experience if BS is in unrelated field
3. **Educational Background and degrees / certificates**
  - a. BS degree in Construction Management or related field
  - b. BS degree in unrelated fields of study
4. **Documentation of construction software abilities**

5. **PowerPoint presentation**
  - a. Graphic / Text description of Construction projects you have been involved, explaining your responsibility and duties on the project.
  
6. **Examples of Written work**
  - a. Examples: Company Manuals, procedures, presentations, etc.
  
7. **Letters of Reference**
  - a. PDF format
  - b. Minimum of three (3) Letters
  - c. Must address your management skills and performance in management
  - d. Must address your ability to perform at a high level of research, writing and communication.
  - e. References must be from individuals that you reported to in the basis of your professional development.

Questions may be directed to **Dr. David L. Batie, MCM Graduate Coordinator**  
([batied@ecu.edu](mailto:batied@ecu.edu))