

## Catalog Description 2005-06

### Graduate Certificate in Construction Engineering & Management (CEM)

This certificate program is open to students with a Bachelor's Degree in civil engineering, construction management, construction engineering, architecture, architectural engineering and other closely related fields of study from an accredited institution. The **CEM** program develops construction management techniques related to the technological environment of the construction industry. The program blends a carefully chosen mix of civil engineering and construction management courses designed to provide specialization opportunities in Construction Engineering & Construction Management. The skills, concepts and techniques learned will be related to, but not dependent upon, a knowledge of construction and engineering with an emphasis on construction management and organizational skills appropriate for the professional construction manager.

Applicants for the program will be required to meet the same entrance standards as those applying to the Master of Science program. Credits earned in the program with a BCN prefix and up to 3 courses with a CCE or CGN prefix with a grade of "B" or better are fully transferable towards a Masters of Science in Construction Management.

To earn a Graduate Certificate in **CEM**, the students must successfully complete the program's core and elective courses with a minimum grade point average of 3.0, and have no grade lower than "C". The program consists of 18 credit hours – 6 courses (3 core courses + 3 electives) of 3 credit hours each. These courses cover functional areas of construction management and specialized technical and engineering functions.

#### Required CEM Courses:

BCN 5645	Construction Economic Analysis
CCE 5035	Construction Engineering Management
BCN 5728	Principles of Construction Scheduling

#### Electives CEM Courses:

BCN 5626	Construction Cost Analysis & Control
BCN 6775	Decision & Risk Analysis in Construction
BCN 6916	Developments in Construction Technology
BCN 5774	Topics in International Construction
CCE 5505	Computer Integrated Construction
CGN 5315	Civil Engineering Systems
BCN 5716	Productivity in Construction

Additional information about this program can be found at:

URL: [www.cm.fiu.edu](http://www.cm.fiu.edu)

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