



## Master of Science in Construction Engineering and Management

### Program Description:

Master of Science in Construction Engineering and Management is one of the largest construction management programs in the United Kingdom and in United States. Construction Management is a set of complex, professional activities which require a special knowledge of the technical, economic and policy environment, and encompass elements of construction technology, real estate development, building science, law, architecture, urban and regional planning, public policy, and project management.

This degree offers the student a myriad of opportunities and exposure in the construction industry:

- Graduates enter into areas of construction management, engineering development and planning, consulting, and the pursuit of higher degree.
- Graduates have a variety of employment opportunities, including working for general contractors, real estate developers, sub-contractors, construction management firms and architectural engineering firms.
- Graduates also have the opportunity to seek employment with prominent global architectural, engineering, and construction firms. Parsons, Fluor Daniel, and Jacob's Engineering, are all headquartered in Los Angeles.

### Program Prerequisites:

Bachelor of Science degree in Civil Engineering, Aerospace Engineering, Applied Mechanics, Mechanical Engineering, Mathematics, or Physics.

Students with a degree in Mathematics or Physics are required to take additional engineering courses.

### Contents:

CE 462 Construction Methods and Equipment

CE 469 Sustainability

CE 470 Building Information Modeling and Integrated Skill



CE 462 Construction Methods and Equipment

CE 501 Functions of the Constructor

CE 502 Construction Accounting and Finance

CE 556 Project Controls-Budgeting and Estimating

CE 566 Project Controls-Planning and Scheduling

CE 557 Advanced Building Estimating

CE 412 Contracts and Specifications

CE 526 Engineering Mathematical Methods

CE 558 International Construction and Engineering