# Graduate Programs in
# ENGINEERING MANAGEMENT

**UMBC**
AN HONORS UNIVERSITY IN MARYLAND

**Master of Science:**
Engineering Management

**Post-Baccalaureate Certificate:**
Engineering Management

## Engineering Management - a professionally-focused and relevant graduate degree

» Learn to manage complex technological and business-related problems present in today's economy.

» Develop leadership and project management skills to successfully lead technical teams.

» Acquire technical skills in your chosen technical field.

## When you choose UMBC Professional Programs, you can count on:

» Courses developed and taught by industry experts and designed to address real-world problems in the workplace.

» Programs that combine practical business approach with in-depth technical courses plus an emphasis on how to lead people and manage complex projects.

» Flexible evening class schedule that accommodates working professionals.

» Wide-ranging resources offered at a top-notch public research university.

## Why UMBC?

» UMBC provides a comprehensive and quality education at a manageable cost.

» For six years running, UMBC was ranked #1 in the U.S. New and World Report's list of 'national up-and-coming' universities, and in 2015 ranked #4 as 'most innovative schools.'

» UMBC is classified by the Carnegie Foundation as a Research University (High Research Activity).

» UMBC is uniquely positioned to provide education and training that respond to the state's need for qualified technical professionals in the engineering field.

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**umbc.edu/engm**

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## Admission Requirements

**M.S. and Graduate Certificate:**

» A bachelor's degree in Engineering, Computer Science or Information Systems

» Minimum undergraduate GPA of 3.0 on a 4.0 scale

» Letters of recommendation and GRE scores are not required for applicants with a degree from an accredited U.S. institution

**International Applicants:**

Please visit umbc.edu/engm/international for detailed admissions requirements for international applicants.

» Please pay special attention to English proficiency and testing requirements

## Admission Deadlines

**Fall:** August 1
**Spring:** December 1

For detailed application process please visit: umbc.edu/engm

## Office of Professional Programs

UMBC's Office of Professional Programs offers a broad array of professionally focused master's degree and certificate programs that address industry needs while anticipating future opportunities.

umbc.edu/professionalprograms

# Master's Program
## Master of Science (M.S.): Engineering Management
**30 Credits (10 courses)**

### Required Core Management Courses (12 credits)

| |
|---|
| ENMG 650: Project Management Fundamentals OR |
| ENMG 668: Project and SE Management |
| ENMG 652: Management, Leadership, and Communication |
| ENMG 656: Engineering Law and Ethics |
| ENMG 658: Financial Management |



### Elective Management Courses (Select 2 courses)
### 6 Credits:

| | |
|---|---|
| ENMG 654: Leading Teams and Organizations | ENMG 690: Innovation and Technology Entrepreneurship |
| ENMG 659: Strategic Management | ENMG 692: Principles of Organization Learning |
| ENMG 660: Systems Engineering Principles* | |
| ENMG 661: Leading Virtual/Global Teams | CYBR 620: Introduction to Cybersecurity* |
| ENMG 663: Advanced Project Management Applications | CYBR 621: Cyber Warfare |
| ENMG 664: Quality Engineering and Management* | CYBR 622: Global Cyber Capabilities & Trends |
| ENMG 672: Decision and Risk Analysis* | CYBR 623: Cybersecurity Law and Policy |

*Courses marked with an asterisk can be counted as either a management elective or technical elective.*

### Courses in Engineering, Computer Science, and Information Technology (12 credits)

| | |
|---|---|
| Chemical/Biochemical Regulatory Engineering | Health Information Technology |
| Chemical Engineering | Human Centered Computing |
| Computer Engineering | Information Systems |
| Computer Science | Mechanical Engineering |
| Cybersecurity | Systems Engineering |
| Electrical Engineering | |
| Environmental Engineering | |

*Consult umbc.edu/engm/programmaster for listing of courses in each specialization.*

# Certificate Program
## Post-Baccalaureate Certificate: Engineering Management

### 4 Required Courses (12 Credits)

| |
|---|
| ENMG 650: Project Mgmt. Fundamentals OR |
| ENMG: 668: Project and SE Management |
| ENMG 652: Management, Leadership and Communications |
| ENMG 656: Engineering Law and Ethics |
| ENMG 658: Financial Management |

*Please consult umbc.edu/engm for schedule.*



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This academic program is a participant in the U.S. Department of Education Gainful Employment program. For more information, http://ged.financialaid.umbc.edu/emang/Gedt.html