

Engineering Management

Construction Concentration

In any given construction project the disciplines of architecture, engineering and management converge. Recognizing this fact is a student's first step towards becoming a real-world leader in the fields of project and construction management. The second step is taken by enrolling in Norwich University's Engineering Management degree program, where students learn the foundational skills necessary to take projects from the conceptual stage straight through to the grand opening ceremony.

Construction Management students are taught to assess, strategize and execute projects from an interdisciplinary approach in which facets of architecture, engineering and management are taken into account. Along with business, engineering and architecture courses, students are required to take Engineering Management courses specifically designed to prepare students for situations they may encounter while on the job site and in the office. Additionally, core studies include courses in the humanities, social sciences, mathematics and sciences. Upon completion of the program, students are awarded the Bachelor of Science in Engineering Management, and are qualified to sit for professional exams such as the Associate Constructor (AC), Construction Manager in Training (CMIT) and/or the Certified Associate in Project Management (CAPM). Students will have a foundational understanding of:

- building materials
- electrical, plumbing, heating, ventilating and air conditioning systems
- economics
- accounting
- law
- information technology
- supply chain integration
- stakeholder management
- emerging structures and issues
- risk management
- time and cost estimation
- materials management
- global sourcing

B.S. Engineering Management - Curriculum Map (Construction Concentration)

First Year

Fall	Credits	Spring	Credits
EG 109 Introduction to Engineering I	3	EM 101 Intro Construction Project Mgt	3
EN 101 Composition and Literature I	3	EC 202 Principles of Economics (Micro)	3
AP 111 Fundamentals of Architecture	4	EN 102 Composition and Literature II	3
MA 107 Precalculus Mathematics (or higher)	4	HI XXX History Elective	3
		MA 108 Applied Calculus or 121 Calculus I	4
	14		16

Second Year

Fall	Credits	Spring	Credits
AP 225 Introduction to Passive Environmental Systems	3	AP 325 Materials, Construction, and Design	3
CE 211 Surveying	3	CE 214 Site Development and Engineering	4
CE 464 Specifications and Estimating	1	EC 201 Principles of Economics (Macro)	3
CH 103 General Chemistry I	4	EM 302 Supply Chain Management	3
QM 213 Business and Economic Statistics I	3	PS 201 General Physics I	4
MG 341 Business Law I	3		
	17		17

Third Year

Fall	Credits	Spring	Credits
AP 327 Active Building Systems I	3	AP 328 Active Building Systems II	3
CE 351 Statics and Mechanics of Materials	4	EN 204 Professional and Technical Writing	3
CE 460 Construction Management	3	MG 351 Organizational Behavior	3
AC 201 Introduction to Accounting and Financial World	3	CE 457 Wood, Steel, and Concrete Structures	4
MG 310 Production/ Operations Management	3	EM 320 Construction Productivity	3
	16		16

Fourth Year

Fall	Credits	Spring	Credits
CE 458 Structural Issues for Construction	3	Humanities Elective	3
EG 450 Professional Issues	3	CE 499 Applied Soils and Foundations	4
EM 401 Pre- Construction Mgt	3	EM 402 Construction Management Practices	3
MG 314 Marketing Management	3	IS 300 Management Information Systems	3
FN 311 Corporate Finance	3	Literature Elective	3
CE 321 Materials Laboratory	1		
	16		16

Total Credits: 128