

# Construction

## Introduction

The Construction program is designed to prepare individuals for a variety of responsible positions in the field of construction.

Broad objectives of the program include developing fundamental knowledge of science, engineering, business, management, architecture and construction principles; applying scientific, technological and management principles to the solution of construction problems; and integrating diverse scientific and technical areas as they impact on the construction field.

## General Requirements

### Bachelor of Science Degree

Total for graduation .....	128 credits
General Education .....	46 credits
Major Studies .....	76 credits
Writing and Science Preparation .....	6 credits

## Program Requirements

### General Education

**46 credits required**

#### A. Communication Skills **8 credits**

ENGL-101 Freshman English – Composition <i>or</i>	
ENGL-111 Freshman English – Honors I .....	3
ENGL-102 Freshman English – Reading and Related Writing <i>or</i>	
ENGL-112 Freshman English – Honors II .....	3
SPCOM-100 Fundamentals of Speech .....	2

#### B. Analytic Reasoning **6 credits**

MATH-153 Calculus I .....	4
STAT-130 Elementary Statistics .....	2

#### C. Health and Physical Education **2 credits**

*Courses must be from areas of health, physical education or nutrition.*

#### D. Humanities and the Arts **9 credits**

*Courses must be from three or more areas including art history, creative arts, foreign language and culture, history, literature, music appreciation, performing arts and philosophy.*

#### E. Social and Behavioral Sciences **9 credits**

ECON-201 General Economics <i>or</i>	
ECON-210 Principles of Economics I .....	3
POLS-210 American Government .....	3
SOC-110 Introductory Sociology <i>or</i>	
PSYC-110 General Psychology .....	3

#### F. Natural Sciences (with Lab) **10 credits**

PHYS-241 College Physics I <i>and</i>	
PHYS-242 College Physics II .....	10

#### G. Technology **2 credits**

## Major Studies

**76 credits required**

### Business and Management **18 credits**

INMGT-300 Engineering Economy .....	3
INMGT-400 Organizational Leadership .....	3
BUACT-201 Financial-Managerial Accounting <i>or</i>	
BUACT-206 Introduction to Financial Accounting .....	3
BUMGT-304 Principles of Management .....	3
BUMKG-330 Principles of Marketing .....	3
PSYC-382 Human Resource Management .....	3

### Architecture, Engineering and Construction **58 credits**

RC-388 Construction Safety .....	3
BULGL-473 Legal Aspects of Construction .....	3
AEC-131 Architectural Graphics .....	3
AEC-171 Light Construction Methods and Materials .....	3
AEC-190 Orientation to Construction Industry .....	1
AEC-237 Architectural Technology .....	3
AEC-270 Heavy Construction Methods and Equipment .....	3
AEC-273 Concrete and Masonry Technology .....	3
AEC-357 Site Engineering .....	3
AEC-438 Contract Requirements and Specifications .....	3
AEC-452 Environmental Systems – HVAC .....	3
AEC-453 Environmental Systems – Plumbing and Electrical .....	3
AEC-458 Structural Systems – Wood and Steel .....	3
AEC-459 Structural Systems – Concrete and Masonry .....	3
AEC-370 Construction Estimating I .....	3
AEC-470 Construction Estimating II .....	3
AEC-472 Management of Construction .....	3
AEC-471 Project Scheduling and Cost Control .....	3
AEC-449 Cooperative Education Experience .....	2
PHYS-321 Statics and Strength of Materials .....	4

### Writing and Science Preparation

**6 credits required**

ENGL-320 Business Writing <i>or</i>	
ENGL-415 Technical Writing .....	3
PHYS-257 Introduction to Geology and Soil Mechanics .....	3