

CONSTRUCTION AND ENERGY MANAGEMENT

CEM 151 Construction Fundamentals: Principles and Practices

Covers the sequence of events for residential construction from both an owner's and a builder's point of view. Recommended Preparation: Eligibility for MATH 154.

| Section | Days | Times | Units | Instructor | Room |
|---------|------|-----------------|-------|------------|------|
| 74280 | M | 06:00PM-09:05PM | 3.00 | C.Mornard | 825 |

CEM 151L Construction Fundamentals: Principles and Practices Lab

Covers the methodology and techniques for residential construction from a skills and vocational point of view. Corequisite: CEM 151. Recommended Preparation: Eligibility for MATH 154.

| Section | Days | Times | Units | Instructor | Room |
|---------|------|-----------------|-------|------------|-----------|
| 74281 | T | 02:10PM-05:15PM | 1.00 | C.Mornard | 1301/1304 |

CEM 155 Blueprint Reading

Teaches the analysis and interpretation of construction drawings. Recommended Preparation: Eligibility for MATH 154.

| Section | Days | Times | Units | Instructor | Room |
|---------|------|-----------------|-------|------------|------|
| 74282 | T | 06:00PM-09:05PM | 3.00 | R.Woodman | 828 |

CEM 159 Construction Planning and Scheduling

Covers project planning and scheduling fundamentals including software applications applied to the construction profession. Recommended Preparation: Eligibility for MATH 154.

| Section | Days | Times | Units | Instructor | Room |
|---------|------|-----------------|-------|------------|------|
| 74283 | W | 06:00PM-09:05PM | 3.00 | C.Mornard | 828 |

CEM 160 Construction Management

Introduces construction management principles, practices, and associations. Recommended Preparation: Eligibility for MATH 154.

| Section | Days | Times | Units | Instructor | Room |
|---------|------|-----------------|-------|------------|------|
| 74284 | TH | 06:00PM-09:05PM | 3.00 | C.Mornard | 828 |

CEM 162 Sustainable Buildings, Home Performance, and the Environment

Introduces sustainable building resources and applications, LEED certification requirements, home performance concepts, California energy codes, green building, and their relationships to the environment and residential construction. Recommended Preparation: Eligibility for MATH 154.

| Section | Days | Times | Units | Instructor | Room |
|---------|------|-----------------|-------|------------|----------|
| 74285 | T | 06:00PM-09:05PM | 3.00 | S.Murphy | HORT5005 |

CEM 162SP Solar Photovoltaic Design and Installation

Introduces solar photovoltaic system requirements, design and configurations, installation techniques, and their application in residential and commercial construction. Recommended Preparation: Eligibility for MATH 154.

| Section | Days | Times | Units | Instructor | Room |
|---------|------|-----------------|-------|-------------|------|
| 74286 | W | 06:00PM-08:05PM | 3.00 | S.Wadsworth | 1301 |
| & | W | 08:15PM-10:05PM | | S.Wadsworth | 1304 |
| & | S | 09:00AM-01:30PM | | S.Wadsworth | 1304 |

Arranged lab will meet 4 Saturdays 3/10, 3/24, 4/21, and 5/5, 9:00AM-1:30PM.

CEM 166 Fundamentals of the International Building Code I

Provides training in the structural portions of the International Building Code, including concrete, masonry, and wood frame construction. Repeatability: May be taken 2 times. Recommended Preparation: Eligibility for MATH 154.

| Section | Days | Times | Units | Instructor | Room |
|---------|------|-----------------|-------|------------|------|
| 74287 | W | 06:00PM-09:05PM | 3.00 | J.Heaney | 825 |

CEM 169 Fundamentals of the Uniform Mechanical Code

Provides training in the requirements of the Uniform Mechanical Code, including mechanical systems for heating and cooling systems, combustion air, venting, ducting, refrigeration, and commercial kitchen vent hood and is designed for contractors, architects, designers, and those seeking ICBO Certification. Repeatability: May be taken 2 times. Recommended Preparation: Eligibility for MATH 154.

| Section | Days | Times | Units | Instructor | Room |
|---------|------|-----------------|-------|------------|------|
| 75754 | M | 06:00PM-09:05PM | 3.00 | J.Heaney | 711 |

CEM 175B Electric Code and Materials 2: Commercial

Provides training in the selection and installation of various electrical wiring systems as specified by the National Electric Code (NEC) for commercial construction. Recommended Preparation: Eligibility for MATH 154.

| Section | Days | Times | Units | Instructor | Room |
|---------|------|-----------------|-------|--------------|------|
| 75767 | TH | 06:00PM-09:05PM | 3.00 | S.Livingston | 825 |

CEM 190LD Green Building and LEED

Introduces the LEED building rating system and prepares for the LEED Green Associate's Exam, a requirement for becoming a LEED Accredited Professional. Recommended Preparation: Eligibility for MATH 154.

| Section | Days | Times | Units | Instructor | Room |
|---------|------|-----------------|-------|------------|-----------|
| 75739 | TH | 06:00PM-09:05PM | 3.00 | M.Soik | 1301/1304 |

CEM 190PS Passive Solar Design and Construction

Introduces Passive Solar design and construction principles for heating and cooling buildings, energy efficiency, air quality, health, and comfort. Prerequisite: CEM 151, CEM 151L. Recommended Preparation: Eligibility for MATH 154.

| Section | Days | Times | Units | Instructor | Room |
|---------|------|-----------------|-------|------------|------|
| 75740 | T | 06:00PM-08:05PM | 2.00 | C.Mornard | 1304 |