

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
65196	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
65198	S	11:15AM-02:20PM	1.00	T.Umstead	1301/1304
65197	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
65199	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
65200	W	06:00PM-09:05PM	3.00	C.Mornard	825

CEM 160 Construction Management

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

Section	Days	Times	Units	Instructor	Room
66526	TH	06:00PM-09:05PM	3.00	C.Mornard	825

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
65201	T	06:00PM-09:05PM	3.00	S.Murphy	5005

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
65202	TH	06:00PM-08:05PM	3.00	L.Sonsino	1301
&	TH	08:15PM-10:05PM		L.Sonsino	1304
&	Arr.	Arr.		L.Sonsino	1304

Meets 4 Saturdays: 3/13, 3/27, 4/24, and 5/8 from 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
65203	M	06:00PM-09:05PM	3.00	J.Heaney	711

CEM 168 Fundamentals of the Uniform Plumbing Code

Provides training in the requirements of the Uniform Plumbing Code including plumbing systems for waste, indirect and special wastes, venting, fresh water, gasses, fuels, solar, fire protection, and water heaters 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
65204	W	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
65205	TH	06:00PM-09:05PM	3.00	S.Livingston	828

CEM 178B Residential Construction Skills 2: "Finish End"

Introduces "finish end" construction: foundation layout, framing fundamentals, insulation, drywall, finish plumbing, finish HVAC, finish electrical, and finish carpentry basics typical of residential construction. Repeatability: May be taken 2 times. Recommended Preparation: Eligibility for MATH 154.

Section	Days	Times	Units	Instructor	Room
65206	S	09:00AM-11:05AM	3.00	C.Mornard	1301
&	S	11:15AM-02:20PM		T.Umstead	1301/1304