

# Construction Management (CMN)

## CMN 1100 Introduction to Construction Management .....3 Credit Hours

**ESL Placement Level:** For English-as-a-Second-Language (ESL) students, placement into ESL 2510 or higher.

**Prerequisite:** Attend a Construction Management Program Orientation or consent of program coordinator.

This is an introductory course designed to demonstrate the basic structure of, and management within, the construction industry. Class discussions will include, but are not limited to, construction project delivery systems, construction business environments, estimating, planning/scheduling, law and contracts. BILLABLE CONTACT HOURS: 3

## CMN 1200 Construction Building Systems and Materials .....3 Credit Hours

**ESL Placement Level:** For English-as-a-Second-Language (ESL) students, placement into ESL 2510 or higher.

**Prerequisite:** Attend a Construction Management Program Orientation or consent of Program Coordinator.

This course is designed to convey the types of building systems found in the construction industry. Those systems include, but are not limited to structural, non-structural, and those considered necessary to mechanical, electrical, plumbing, and support equipment. This course will include both lecture and related laboratory experience. BILLABLE CONTACT HOURS: 3

## CMN 1250 Construction Applications .....3 Credit Hours

**ESL Placement Level:** For English-as-a-Second-Language (ESL) students, placement into ESL 2510 or higher.

**Prerequisite:** CMN 1100 and CMN 1200

This course will investigate the various construction applications across the residential, commercial, industrial, heavy-highway and infrastructure industry sectors and will include: building codes, building permit processes, materials, building technologies, construction equipment and tools. BILLABLE CONTACT HOURS: 3

## CMN 1300 Construction Surveying .....3 Credit Hours

**ESL Placement Level:** For English-as-a-Second-Language (ESL) students, placement into ESL 2510 or higher.

**Prerequisite:** Attend a Construction Management Program Orientation or consent of Program Coordinator.

This course is designed to help the student recognize and apply procedures and technology to basic construction surveying. The student will experience both classroom and hands on experience with construction surveying equipment. BILLABLE CONTACT HOURS: 3

## CMN 1400 Construction Safety .....3 Credit Hours

**ESL Placement Level:** For English-as-a-Second-Language (ESL) students, placement into ESL 2510 or higher.

**Prerequisite:** CMN 1100 and CMN 1200 or consent of Program Coordinator.

This course is designed to discuss all aspects related to safety in the construction industry and how it applies to management. Through course activities and discussions, students will develop a safety program using existing OSHA and MIOSHA industry standards. BILLABLE CONTACT HOURS: 3

## CMN 1500 Construction Drawings .....3 Credit Hours

**ESL Placement Level:** For English-as-a-Second-Language (ESL) students, placement into ESL 2510 or higher.

**Prerequisite:** CMN 1100 and CMN 1200

This course is an introductory construction print reading course with emphasis on the following, but not limited to, topics: drawing symbols, drawing organization, drawing development, basic blue print reading and terminology, beginning material quantification methods, and drawing basic construction drawings and sketches. The course will integrate both lecture and drawing/reading labs. BILLABLE CONTACT HOURS: 3

## CMN 1700 Quantitative Analysis of Construction Drawings .....3 Credit Hours

**ESL Placement Level:** For English-as-a-Second-Language (ESL) students, placement into ESL 2510 or higher.

**Prerequisite:** CMN 1500 or consent of instructor.

This course is designed to teach students how to quantify and organize information needed for the construction bidding process. Emphasis is placed on how to quantify building materials, labor and equipment based on common industry practices. BILLABLE CONTACT HOURS: 3

## CMN 2100 Construction Contracts and Administration .....3 Credit Hours

**ESL Placement Level:** For English-as-a-Second-Language (ESL) students, placement into ESL 2510 or higher.

**Prerequisite:** CMN 1500 or consent of Program Coordinator.

This course will outline the specific types of construction contracts and how they are used throughout the industry. Specification interpretation and its role in the contract process will also be defined. Students will be introduced to specific contract issues such as, but not limited to, the shop drawing process, bid packages, Master format, ethics, regulations and laws regarding different types of contracts and labor issues. BILLABLE CONTACT HOURS: 3

## CMN 2300 Construction Law .....3 Credit Hours

**ESL Placement Level:** For English-as-a-Second-Language (ESL) students, placement into ESL 2510 or higher.

**Prerequisite:** CMN 2100 or consent of Program Coordinator.

This course is designed to outline the laws and regulations associated with the construction industry, construction contracts and administration. Areas of discussion will also include the implementation of defined laws to actual construction projects and the implications that may be included. BILLABLE CONTACT HOURS: 3

## CMN 2400 Construction Planning and Scheduling .....3 Credit Hours

**ESL Placement Level:** For English-as-a-Second-Language (ESL) students, placement into ESL 2510 or higher.

**Prerequisite:** CMN 1500 CMN 1700 and CMN 2100

This course is designed to introduce and demonstrate the various construction planning and scheduling techniques used by construction managers. BILLABLE CONTACT HOURS: 3

**CMN 2500 Construction Estimating and Bidding**

**Techniques ..... 3 Credit Hours**

**ESL Placement Level:** For English-as-a-Second-Language (ESL) students, placement into ESL 2510 or higher.

**Prerequisite:** CMN 1100 CMN 1200 CMN 1500 and CMN 1700 or consent of instructor.

This course will explore topics pertaining to the processes of construction estimating and bidding techniques. Those topics will include, but not limited to, the discussion and exploration of the identification and quantification of construction materials, labor and equipment for the construction bidding process. The use of computer estimating programs, industry standards and cost data publications will be used to develop estimates. BILLABLE CONTACT HOURS: 3