

## **Course Descriptions for all CONSTRUCTION MANAGEMENT courses** **(in order by semester)**

### **CISC 101 Introduction to Computers (Cr3) (3:0)**

This course introduces computer concepts including hardware and software, an overview of application software, networking and the Internet, and current issues with respect to computers and society. Hands-on instruction in the productivity tools of word-processing, spreadsheets and presentation software.

### **CMGT 101 Introduction to Construction Codes (Cr3) (3:0)**

This course will provide a study of the interpretation of technical building specifications, codes, and contract documents as they affect the selection, and application of materials and equipment. An emphasis will be placed on understanding local and state codes. Offered fall semester only.

### **CMTH 102 Speech Communication (Cr3) (3:0)**

Basic principles of communication theory and practice, including speech preparation and delivery, and the effective use of critical thinking and listening in relation to intrapersonal, interpersonal, intercultural, and group communication.

### **ENGL 101 English I (Cr3) (3:0)**

A writing-intensive course giving close attention to the process of writing through networked workshops and conferences involved in preparation and revision of drafts. The course develops skills in logical and focused writing, through development of a main point by means of supporting ideas and evidence. In addition, students learn to integrate information from secondary sources through the use of summary, paraphrase, and direct quotation in various forms of thesis-based writing. Prereq. - Competence in reading and writing as determined by English Department through testing and/or course work. Approved for the Honors Program.

### **MATH 120 Nature of Mathematics (Cr3) (3:0)**

This course is not designed for science or business majors. Specific topics include financial literacy, number systems, estimation, unit conversions, essential statistical literacy, geometry and various problem solving. MATH118 and 120 nor MATH119 and 120 may not count for credit towards the same degree. Prereq. - Appropriate competence as outlined in the Mathematics Placement policy or MATH022 with a C or better.

### **CMGT 102 Construction Methods and Materials (Cr3) (3:0)**

This course introduces the students to steel, concrete and composite material buildings found in construction projects. There is discussion of building materials along with various systems of construction. Awareness of building codes on material application and an overview of sustainable design as applied to construction material and methods is explored. Exposure to the latest construction techniques as it relates to environmental and health concerns if offered to provide material and method cost effectiveness to construction projects while accommodating regulatory and ethical safety requirements. Offered spring semester only.

### **CMGT 103 Construction Safety and Health (Cr3) (3:0)**

This course provides the fundamental safety and health principles needed for an occupationally safe and healthy work environment while offering a practical application of theories and principles related to the

construction industry. Students will gain awareness of OSHA's regulatory standards, safety and health strategies along with appropriate management techniques. Offered spring semester only.

**ENGL 151 English II (Cr3) (3:0)**

Students continue to develop the academic writing and critical reading skills begun in English I. Students may elect to work on introduction to literature (L), report writing (R), or technical writing (T). Prereq.- ENGL 101. Also available through Online Learning. ENGL 151L (literature option) is approved for the Honors Program and has a designated as a Diversity (D) core course.

**PHIL 202G Ethics and Moral Problems (Cr3) (3:0)**

A critical study of major ethical theories and concepts and their application to selected moral issues, to aid in shaping one's own ethical stance and in making sound ethical choices; Hedonism, Egoism, Altruism, Authenticity, Existentialism, Absolutism, Relativism, Utilitarianism, Human Rights and Duty, Justice, Multiculturalism and Feminism. Course numbers ending with G are Writing Intensive (WI). Also available through Online Learning. Approved for the Honors Program. Core: AH, WI.

**ACCT 101 Financial Accounting I (Cr3) (3:0)**

Analysis and interpretation of basic accounting structure, systems, and controls applicable to various business entities. Only one of the following: ACCT 101 or ACCT 100 may be applied to a degree. ACCT 100 cannot be used as a substitute for ACCT 101.

**BUSA 205 Management Fundamentals (Cr3) (3:0)**

Principles and functions of management within organizations; planning and decision-making, organizing and staffing, leading and controlling with emphasis on the manager's role in goal achievement; ethical, political, legal, and international aspects of the environments in which business and other organizations operate; a management case study or simulation may be integrated into the course.

**CMGT 104 Construction Print Reading (Cr3) (3:0)**

This course serves as an introduction to building materials and systems and their representation in construction drawings. Included is an introduction of building design and construction with a focus on terminology, industry standards, and the roles of the contractor, architect and other parties involved in construction projects. Emphasis is placed on interpretations of contract drawings, terminology, symbols and conventions used in residential, commercial and industrial drawings. Prereq.- CMGT 101, 102, 103, MATH 120, CISC 101. Offered fall semester only.

**CMGT 105 Project Management and Administration (Cr3) (3:0)**

This course will provide students with the knowledge and understanding of the management function in the construction industry. Topics include the project cycle, company and project organization, financial and budgeting considerations, documentation, monitoring, cost control, etc. Emphasis is placed on the responsibilities of the managers and their relationship to the owner, architect, general contractor and subcontractors including other agents involved in a construction project. Pre- or coreq.- CMGT 104. Offered fall semester only.

**CMGT 106 Construction Planning and Scheduling (Cr3) (3:0)**

This course explores the concepts and techniques for construction planning, scheduling and control systems necessary for effectively managing a construction project. Emphasis will be placed on the skills and knowledge necessary to plan and schedule a project. Coordination of manpower, materials,

equipment, project funding, and cash flow are all concerns that must be monitored and controlled. Efficiency and use of the computers to facilitate the planning and scheduling process is integrated throughout the class. Pre- or coreq.- CMGT 104. Offered fall semester only.

**BUSA 152 Business Law I (Cr3) (3:0)**

Basic introduction to legal aspects of business including relevant terminology; essential elements of the American legal system, structure and operation of courts, torts and crimes in a business environment, common law of contracts, sales under the Uniform Commercial Code, and ethical considerations in business operations.

**CMGT 201 Construction Estimating (Cr3) (3:0)**

This course emphasizes the fundamental of producing construction estimates and bids. Information discussed includes procedures to project material and labor costs. Interpreting construction drawings and specifications to estimate project expenses will be practiced throughout the course. Estimating skills and the integration of computers will be introduced and developed as a comprehensive approach to the estimating and bidding process. Prereq.- CMGT 106. Offered spring semester only.

**CMGT 202 Construction Supervision and Leadership (Cr3) (3:0)**

This course will provide the opportunity to discuss and evaluate essential leadership and supervisory skills. Understanding and applying leadership behaviors, as well as basic management skills will expand a construction manager's knowledge and abilities. Students will learn how management problems influence efficiency, productivity and employee morale. Pre- or coreq.- CMGT 201. Offered spring semester only.

**CMGT 203 Construction Management Practicum (Cr6) (1:10)**

This capstone course will provide the opportunity to integrate theory and practice with the reality of on-the-job experience. Based on the worksite hosting organization, the student intern will have opportunity to work in the areas of print reading, estimating, equipment management, project supervision, or other management related activities and tasks. All students are required to secure a sponsor for the practicum. Pre- or coreq.- CMGT 202. Offered spring semester only.