Fall 9-1-2020

CSTN 261.B01: Building Management

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THE UNIVERSITY OF MONTANA
COLLEGE OF TECHNOLOGY
DEPARTMENT OF INDUSTRIAL TECHNOLOGY

COURSE SYLLABUS FALL 2020

COURSE NUMBER AND TITLE: CSTN 261 Building Management

DATE REVISED: August 2018

SEMESTER CREDITS: 4

CONTACT HOURS PER SEMESTER:
Lecture hours per week 12
Lab hours per week Imbedded within offsite learning
2019 Schedule: 9/28/2020-11/24/2020
Tuesday, Wednesday, Thurs. 9:00AM-11:50AM TT11

PREREQUISITES: CSTN 120 Carpentry Basic & Rough In Framing; CSTN 122 Beginning Carpentry Lab; CSTN 142 Interior and Exterior Finish Carpentry; CSTN 143 Intermediate Carpentry Lab.

FACULTY: John Freer, Master CGP, LEED AP BD&C
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Phone: 243-7668
Cell: 370-1660
Office: West Campus
Office Hours: By appointment or as posted on Faculty office door

RELATIONSHIP TO PROGRAM(S):
This course is in the second year of the two-year AAS Sustainable Construction Technology Degree program.

COURSE DESCRIPTION:
Introduction to building business and project management including overhead costs, payroll costs, estimating and scheduling. This course introduces the available careers in the building industry and covers elements of business management for construction related business, building cost estimating, project scheduling, scheduling of subcontractors and labor, codes and permitting, building inspections and on-site project management. This course includes a one-credit imbedded lab.

STUDENT PERFORMANCE OUTCOMES:
Occupational Performance Objectives
Upon completion of this course, the student will demonstrate:

1. Evidence of a thorough understanding of how to prepare a building check list.
2. Evidence of a thorough understanding of how to prepare a building materials list.
3. Evidence of a thorough understanding of building construction scheduling methods.
4. Evidence of a thorough understanding of the building inspection process.

5. Evidence of a thorough understanding of how determine building project costs.
6. Evidence of a basic understanding of managing a construction related business.

STUDENT PERFORMANCE ASSESSMENT METHODS AND GRADING PROCEDURES:

Grading Scale:

90 - 100% = A
80 - 89% = B
70 - 79% = C
60 - 69% = D
0 - 59% = F

NOTE: Courses must be passed with a 'C minus (C-)' or greater to count toward degree/certificate requirements.

Grade Breakdown:

Tests and reports	80%
Attendance	10%
Participation	10%

Note:

1. Tests will be as required.
2. Safety glasses are required when in the lab.
3. Hearing protection is required in lab.

HOW VARIOUS ASSESSMENT METHODS WILL BE USED TO IMPROVE THE COURSE:

1. Student course evaluations
2. Peer feedback
3. Advisory committee feedback

REQUIRED TEXT: "Construction Project Management" Dykstra, Alison, Second Edition 2011
ISBN 978-0-9827034-3-4

Handouts provided by course Instructor.

REQUIRED SUPPLIES: Calculator

ACADEMIC INTEGRITY: All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University. All students need to be familiar with the Student Conduct Code. The Code is available for review online at http://www.umt.edu/SA/VPSA/index.cfm/page/1321.

DISABILITY ACCOMMODATION: Eligible students with disabilities will receive appropriate accommodations in this course when requested in a timely way. Please contact me after class or in my office. Please be prepared to provide a letter from your DSS Coordinator. For more information, visit the Disability Services website at http://www.umt.edu/dss/ or call 406.243.2243 (Voice/Text).

NOTE: Faculty reserves the right to modify syllabi and assignments as needed based on faculty, student, and/or environmental circumstances.

COURSE OUTLINE:

1. Construction Industry Overview
    1.1 Industry Trends, Careers and Opportunities
    1.2 Project Types and Delivery Methods
    1.3 Project Delivery and Completion
2. Project Design and Development
    2.1 Programming and Schematic Design
    2.2 Final Design and Construction Documents
    2.3 Bidding and Contract Award
3. Project Estimating
    3.1 Materials Takeoffs and Estimating Details
    3.2 Assembling Estimates
4. Contracts and Documents
    4.1 Contract Types and Selection
    4.2 General Conditions and CSI Format
    4.3 Construction Documents
5. Scheduling
    5.1 Types of Schedules, Activities and Tasks
    5.2 Schedule Creation, Sequencing and Scheduling Project Software
    5.3 Schedule Management, Changes and Editing
6. Construction Law
    6.1 Liens, Warranties and Contracts
    6.2 Avoiding Conflict and Conflict Resolution