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### HEO 153T.01: Construction Theory and Specialized Equipment

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**THE UNIVERSITY OF MONTANA  
COLLEGE OF TECHNOLOGY  
INDUSTRIAL TECHNOLOGY DEPARTMENT**

**COURSE SYLLABUS**

**COURSE NUMBER AND TITLE:** HEO 153T Construction Theory and Specialized Equipment

**DATE REVISED:** Spring 2015

**SEMESTER CREDITS:** 5

**PREREQUISITES:** M 111 Technical Mathematics, HEO 146 & 148

**Instructor:** Rod Frost  
**E-Mail Address:** [rodney.frost@mso.umt.edu](mailto:rodney.frost@mso.umt.edu)  
**Phone Number :** 406-243-7643  
**Office Hours:** By appointment.

**RELATIONSHIP TO PROGRAM:**

Developing students' knowledge of construction terminology, specialized equipment, understanding grade stakes, volume calculations and basic project design and construction techniques leading to a better understanding of real life construction projects. Application of equipment alternatives in accomplishing tasks.

**COURSE DESCRIPTION:**

Study of construction principles, specialized equipment, production estimates, and various related subjects.

**STUDENT PERFORMANCE ASSESSMENT METHODS AND GRADING PROCEDURES:**

**Grading:**

92 – 100	= A
82 – 91	= B
71 – 81	= C
60 – 70	= D
0 – 59	= F

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

Grade determination:

Lecture = 67% of final letter grade (includes class participation, assignments, tests, and notebook organization). Participation in class discussion is central to learning. Good participation is reflected by willingness to answer questions and contribute comments that reflect a good-faith effort to read, understand, and develop a personal perspective and thoughts about the readings and lectures. Good participation will result in students being given the benefit of the doubt on borderline grades. Conversely, poor participation may adversely affect borderline grades.

Guest seminars = 33% of final letter grade. The class will feature guest speakers. Your attitude (work ethic\*), attendance and participation in these presentations is required.

\*Work Ethic: This term refers to attendance, class participation and cooperation, organization, attitude and motivation as demonstrated on a daily basis. It is meant to include issues that an employer would be concerned with.

#### **ATTENDANCE POLICY:**

1. Students are expected to attend all scheduled classes and labs and complete assignments.
2. Unannounced quizzes will be given and will NOT be made up if missed.
3. Assignments will be given a due date and must be handed in by the student on that date to receive credit.
4. Scheduled tests may be made up with prior arrangement; however, a 10% grade reduction will be applied to make-up tests.
5. Two unexcused absences will drop your final grade one letter grade. Each unexcused absence after that, continues to drop the final grade by one letter until the grade of 'F' is reached, at which time the student will be asked to withdraw from the class.

**Late arrivals in class may count as an absence.** (Note: If you have a valid reason for missing several classes, such as illness, disability or other conflicting commitments, you still must speak with me. Documentation may be required.) **Sleeping in class will count as an absence.** Failure to follow the notes below on **CELL PHONES will count as an unexcused absence.**

#### **REQUIRED TEXTBOOKS:**

Excavating and Grading Handbook (revised), 3<sup>rd</sup> Edition, ISBN-13: 978-1-57218-173-1

**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://life.umt.edu/vpsa/student\\_conduct.php](http://life.umt.edu/vpsa/student_conduct.php).

**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).

#### **CELL PHONE/PERSONAL ELECTRONIC DEVICES –**

**Cell Phones/Pagers/IPods:** These devices are not allowed in the classroom or lab, other than with prior approval of the instructor in case of emergency. Phones are not allowed in the classroom during tests. Taping or recording devices are not allowed to be used in lectures without prior permission from the instructor.

#### **Classroom Etiquette**

- Please arrive on time and do not walk out on classes early or in the middle of discussion without prior permission. Doing otherwise is disrespectful.
- Give the class full attention: no side discussions, newspaper reading, crossword puzzles, or use of electronic devices. **Anything other than full attention will count as an absence.**

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