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### CSTN 206.01: Advanced Carpentry Laboratory

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

**COURSE SYLLABUS**

**COURSE NUMBER AND TITLE:** CSTN 206 Advanced Carpentry Lab

**DATE REVISED:** December 2014

**SEMESTER CREDITS:** 2

**CONTACT HOURS PER SEMESTER:** Lab hours per week: 4

**PREREQUISITES:** CSTN 102 Concrete Carpentry; 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

**E-Mail:** john.freer@mso.umt.edu

**Phone:** 243-7668

**Office:** West Campus

**Office Hours:** By appointment or as posted on Faculty office door

**RELATIONSHIP TO PROGRAM(S):**

This course is the additional lab for CAR 220T Advanced Carpentry

**COURSE DESCRIPTION:**

Laboratory to accompany CSTN 205 Advanced Carpentry.

**STUDENT PERFORMANCE OUTCOMES:**

Occupational Performance Objectives

Upon completion of this course, the student will demonstrate:

1. Competency in the use of angular measurements to layout a building site.
2. Competency in the use of lasers, transits, theodolites and electronic measurement instruments.
3. Competency in the installation of standing seam, lap seam, and built-up roofs.
4. Competency in the installation of hardwood, vinyl, tile, and carpeted floor systems.
5. Competency in the installation of paneling, wainscoting, movable partitions, and curtain walls.

**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:**

<b>Lecture:</b>	Tests	90%
	Attendance	10%
<b>Lab:</b>	Performance	80%
	Tests	
	Tool handling	
	Participation	
	Work quality	
	Safety	20%

**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

**ATTENDANCE POLICY:**

**REQUIRED TEXT:**

***CARPENTRY & BUILDING CONSTRUCTION*** by Feirer & Feirer Glencoe, 2004  
***CONSTRUCTION SURVEYING AND LAYOUT*** by Wesley G. Crawford, Creative Construction, 2003  
***CARPENTRY*** by Leonard Koel, American Technical Publishers, Inc., 2004.

**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. Site Layout
  - a. Right Triangle Trigonometry and the Pythagorean Theorem
  - b. Lasers, Transits, Theodolites, and Electronic Measurement Instruments

2. Advanced Roof Systems
  - a. Installation Procedures for a Lap Seam Roof
  - b. Installation Procedures for a Standing Seam Roof
  - c. Installation Procedures for a Built-up Roof
  
3. Advanced Floor System
  - a. Installation Procedures for a Hardwood Floor
  - b. Installation Procedures for a Vinyl Floor
  - c. Installation Procedures for a Tile Floor
  - d. Installation Procedures for a Carpeted Floor
  
4. Advanced Wall Systems
  - a. Installation Procedures for Paneling
  - b. Installation Procedures for Wainscoting
  - c. Installation Procedures for Movable Partitions
  - d. Installation Procedures for Curtain Walls