

Course Syllabus

Introduction to Machining

MANT 141

3 Credit Hours

Semester: Spring 2013

Instructor: Ben Hamlett

E-mail: bhamlett@csi.edu

Class Time: M and W 4:00-6:00PM

Class Location: CRHS Mfg Lab room 313

Office Location: 122A Canyon/CRHS Mfg Lab

Office Hours: M-F 1-2pm@CNYN 122 or by appt

Office Phone: (208) 732-6374

Course Description:

This course provides practical hands-on application of manual machine processes including drilling, tapping, milling, filing, and grinding applied to the study of material and process manufacturing. This course provides the students with the knowledge for lab operation of machining special attachments, bench work, layout, heat-treating, hardness testing, layout inspection, jig and fixture setup, and tool design. This is an introductory course into machining. Pre-Requisites: MATH 025, MATH 108 or higher compass or ACT placement score or Instructor's permission.

Required Textbooks and Supplies:

Precision Machining Technology by Peter J. Hoffman and others

1-1/2 to 2 inch binder

Calculator capable of trigonometry

Tools for lab (Tool List Provided.)

Outcomes and Assessment:

Objectives:

- Students will demonstrate proper safety procedures while working in a lab environment.
- Students will demonstrate proper procedures to perform machine processes.
- Students will use experience and evaluation skills to successfully build projects in a safe, efficient, and organized manner.
- Students will demonstrate accurate blueprint reading by machining accurate parts.

Assignments: There will be periodic assignments either in-class or homework.

Portfolio: Students will keep a notebook containing their notes, assignments, and handouts for reference during the course and future use. The notebook will not be graded, but will be very helpful when working on projects and assignments.

Projects: There will be various hands-on activities to reinforce concepts. Learning by doing and demonstrating is needed to not only know, but accomplish.

Quizzes: There will be quizzes to check for conceptual understanding during the course.

Exams: Exams will be comprehensive with a combination of written questions and a project. This includes the final.

Attendance: Attendance is a very important part of having a job. Class is considered to be your job. If you are unable to attend class please inform the instructor ASAP. Attendance is 10% of your grade. Students will turn in a weekly time log.

Topic	Percent of Grade
Assignments	30%
Projects/Labs	30%
Quizzes/Exams	30%
Attendance	10%
Total	100%

Policies and Procedures:

Attendance policy: It is the student's responsibility to catch up on any missed assignments or lectures.

Late policy: Assignments will be due at the start of class. Late assignments will not be accepted with respect to prior approval or an emergency.

Plagiarism statement: It is expected that students will not plagiarize any work. This means no copying answers. Students can assist each other, but are expected to do their own work.

Grading Practices:

Grading Scale:

A = > 90

B = 80-90

C = 70-80

D = 60-70

F = <60

It is the student's responsibility to drop the course.

A student may drop a course or all courses prior to the end of late registration (first Friday of the term) without it being recorded on the student's official transcript. A student initiated drop after the late registration period is considered a withdrawal, and results in the grade of W.

(Students may drop courses online until the end of the late registration period. In order to withdraw from one or more courses following late registration, a completed registration form is required. Instructions on the form indicate when a signature of instructor and/or Financial Aid advisor is required. The completed form may be submitted to Admissions & Records or any off-campus center.)

NOTE: *Students may withdraw from courses until 75% of the course meetings have elapsed. No course may be withdrawn from after 75% of the course has elapsed.*

CSI E-mail

*Since email is the primary source of written communication with students, all registered CSI students get a college email account. Student e-mail addresses have the following format: <address>@eaglemail.csi.edu where <address> is a name selected by the student as a part of activating his/her account. Students activate their accounts and check their CSI e-mail online at <http://eaglemail.csi.edu>. Instructors and various offices send messages to these student accounts. Students must check their **CSI e-mail accounts regularly to avoid** missing important messages and deadlines. At the beginning of each semester free training sessions are offered to students who need help in using their accounts.*

On-line course evaluation statement:

To help instructors continually improve courses, students are strongly encouraged to go online to <http://evaluation.csi.edu> and complete anonymous evaluations which open two weeks before the end of the course and close the last day of class. When students enter the site, they find evaluations for their enrolled courses. Thank you for this valuable input!

Disabilities:

Any student with a documented disability may be eligible for reasonable accommodations. To determine eligibility and secure services, students should contact Student Disability Services at their first opportunity after registration for a class(es). Student Disability Services is located on the second floor of the Taylor Building on the Twin Falls Campus. 208.732.6260 or e-mail Tara Williams, twilliams@csi.edu.

CSI CAMPUS SECURITY

The College of Southern Idaho is committed to providing safe campuses for all students. Currently in place is an Emergency Notification System (RAVE) that provides information relating to an emergency on any CSI campus. This information is delivered electronically and can be received by all phone numbers and internet-equipped computers identified by the student. Registration is automatic when students register and contact information can be customized online (<http://www.csi.edu/alert/>) as necessary. The Twin Falls campus is also equipped with an Emergency Warning "Siren" that can be heard outside of buildings across campus. In the event of a signal, students arriving on campus should leave, and others should proceed with caution to avoid the emergency area. Students are encouraged to report any emergency (medical, criminal, behavioral, etc.) that is cause for action. Do this by calling 911 regardless of which campus you are on. If you are on the Twin Falls campus also calling CSI Campus Security at 732-6605 after placing the 911 call (the Twin Falls campus has security personnel available 24/7).