CASPER COLLEGE COURSE SYLLABUS

Course Number and Title – MCHT 1650-01 Intermediate Machining Practice

Semester/Year: Spring 2016

Lecture Hours: 4  Lab Hours: 12  Credit Hours: 10

Class Time: 8:00 am – 11:50am  Days: MTWTH
1/19/16 - 5/09/16  Room: WT 142/143

Instructor’s Name: Mark McCool

Instructor's Contact Information: Office WT 129A
Office Phone: 307-268-2508  Email: mccoolm@caspercollege.edu

Office Hours: Mondays thru Thursdays: 7:00am -8:00am
Mondays and Wednesdays: 12:30pm-1:00pm

Course Description: A continuation of MCHT 1640 with more complicated machining operations and theory.

Statement of Prerequisites: MCHT 1640
(Safety glasses are required)

Goal: To introduce the students to more complicated operations on the milling machine and the engine lathe.

Outcomes:
1. To introduce the students to inside diameter turning and related tooling.
2. To introduce the students to grinding theory.
3. To introduce the student to milling machine accessories.
4. To develop in students a feel for logical planning and sequencing of operations.
5. Demonstrate effective oral and written communication
6. Solve problems using critical thinking and creativity

Methodology: Four days of lab work with four hours reserved for lecture and written testing. Students will be evaluated on the quality of lab work completed and by 3 to 4 written tests and a series of practical tests to be completed in the machine shop. The quality of lab work must reflect the student’s ability to make parts that all the dimensions are within the tolerances given on the blueprints. This will include surface finishes and also the cleanup and care of all equipment in the shop.

Evaluation Criteria: Points will be totaled for all course work and the final grade will be determined by a percentage of total points as follows:
90% - above = A
89% - 80%  = B
79% - 70%  = C
69% - 69%  = D
50% - below = F

Required Text, Readings, and Materials:
Precision Machining Technology  (Hoffman)
References: Machinery's Handbook, Industrial Press
Class Policies: Last Date to Change to Audit Status or to Withdraw with a W Grade:

Last Date to Change to Audit Status: See current Casper College catalog.
Last Date to Withdraw With a W Grade: See current Casper College catalog.

Student Rights and Responsibilities: Please refer to the Casper College Student Conduct and Judicial Code for information concerning your rights and responsibilities as a Casper College Student.

Chain of Command: If you have any problems with this class, you should first contact the instructor to attempt to solve the problem. If you are not satisfied with the solution offered by the instructor, you should then take the matter through the appropriate chain of command starting with the Department Head/Program Director, the Dean, and lastly the Vice President for Academic Affairs.

Academic Dishonesty: (Cheating & Plagiarism) Casper College demands intellectual honesty. Proven plagiarism or any form of dishonesty associated with the academic process can result in the offender failing the course in which the offense was committed or expulsion from school. See the Casper College Student Code of Conduct for more information on this topic.

Official Means of Communication: Casper College faculty and staff will employ the student's assigned Casper College email account as a primary method of communication. Students are responsible to check their account regularly.

ADA Accommodations Policy: If you need academic accommodations because of a disability, please inform me as soon as possible. See me privately after class, or during my office hours. To request academic accommodations, students must first consult with the college’s Disability Services Counselor located in the Gateway Building, Room 344, (307) 268-2557, bheuer@caspercollege.edu. The Disability Services Counselor is responsible for reviewing documentation provided by students requesting accommodations, determining eligibility for accommodations, and helping students request and use appropriate accommodations.

Calendar or schedule indicating course content: TOPIC OUTLINE:

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<thead>
<tr>
<th>Week</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1 – 7</td>
<td>Safety</td>
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<tr>
<td></td>
<td>Lathe &amp; Mill Work: planning &amp; sequencing of operations</td>
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<td>introduction to I.D. turning principles</td>
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<td>I.D. threading</td>
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<td>8</td>
<td>MIDTERM TESTING</td>
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<td>9 – 15</td>
<td>Continuation of lathe &amp; mill work:</td>
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<td>milling machine accessories</td>
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<td>precision layout</td>
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<td>tool grinding theory and practice</td>
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<tr>
<td>16</td>
<td>FINAL TESTING</td>
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Attendance Policy: Attendance is of utmost importance. Unexcused absences in the excess of 4 will result in the loss of one letter grade. Due to the consideration of the instructor and students, you must be present at the designated starting class time or you will not be allowed to participate unless prior arrangements with the instructor have been made.