COURSE NUMBER & TITLE: MCHT 1650-01 Intermediate Machining Practice

SEMESTER/YEAR: Fall 2006

LECTURE HOURS: 4 LABORATORY HOURS: 12 CREDITS: 10

CLASS TIME: 8:00 - 11:50 a.m. MTWTH ROOM: WT 142

INSTRUCTOR’S NAME: James Quigley

INSTRUCTOR’S CONTACT INFORMATION:
Office Location: WT 134
Office Phone: 268-2508
Email: jquigley@caspercollege.edu

OFFICE HOURS: As posted and by appointment

COURSE DESCRIPTION: A continuation of MCHT 1650 with more complicated machining operations and theory

STATEMENT OF PREREQUISITES: MCHT 1640

GOAL: To introduce the students to more complicated operations on the milling machine and the use of milling accessories.

OUTCOMES:
1. To introduce the students to taper thread turning and other thread forms.
2. To introduce the students to inside diameter turning and related tooling.
3. To introduce the students to grinding theory.
4. To develop in students a feel for logical planning and sequencing of operations.

METHODOLOGY: Four days of lab work with four hours reserved for lecture and written testing. Students will be evaluated on the quality and quantity of lab work completed and by four to six written tests and a series of practical tests to be completed in the machine 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

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.

REQUIRED TEXT, READINGS, MATERIALS: Machining Fundamentals
CLASS POLICIES:
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.

SAFETY: Personal and equipment safety standards will be strictly enforced. It is the individual’s responsibility to develop and use a safe work attitude.

STUDENT’S 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 in order to solve the problem. If you are not satisfied with the solution offered by the instructor, you should then take your problem through the appropriate chain of command starting with the department head, then the division chair, and lastly the vice president for academic affairs.

Academic Dishonesty – Cheating and 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.

ADA Accommodations Policy: It is the policy of Casper College to provide appropriate accommodations to any student with a documented disability. If you have a need for accommodation in this course, please make an appointment to the instructor at your earliest convenience.

CALENDAR:

TOPIC OUTLINE:

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| 1 – 7 | Safety  
Lathe & Mill Work: planning & sequencing of operations  
introduction to I.D. turning principles  
I.D. threading  
tapered thread cutting |
| 8 | MIDTERM TESTING |
| 9 – 15 | Continuation of lathe & mill work:  
keyways  
cutting on the mill  
precision layout  
tool grinding theory and practice |
| 16 | FINAL TESTING |