MSE 540 Processing of Metallic Materials Summer 2010
Instructor: C. C. Koch; Office :3006 EB1; Phone; 515-7340; e-mail; carl_koch@ncsu.edu

Course Objectives: Upon satisfactory completion of this course, students will:
   a. Understand the physical principles related to processing of metallic materials such as solidification theory, metal forming theory, theory of chip formation in machining, etc.
   b. Be familiar with the common metal processing technologies both from classroom study and from field trips.
   c. Be able to optimize the design of processing variables to obtain sound materials free from defects.


Course Viewing Schedule for MSE 540, Summer 2010.

<table>
<thead>
<tr>
<th>Date</th>
<th>Lecture numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week of May 24</td>
<td>1,2,3</td>
</tr>
<tr>
<td>Week of May 31</td>
<td>HW#1 due, 4,5</td>
</tr>
<tr>
<td>Week of June 7</td>
<td>6, HW#2 due, 7</td>
</tr>
<tr>
<td>Week of June 14</td>
<td>8,9, Test #1</td>
</tr>
<tr>
<td>Week of June 21</td>
<td>10, 11, HW #3 due</td>
</tr>
<tr>
<td>Week of June 28</td>
<td>no classes</td>
</tr>
<tr>
<td>Week of July 5</td>
<td>HW #4 due, 12, 13, 14</td>
</tr>
<tr>
<td>Week of July 12</td>
<td>15, 16, Test #2</td>
</tr>
<tr>
<td>Week of July 19</td>
<td>17,18, 19 HW#5 due</td>
</tr>
<tr>
<td>Week of July 26</td>
<td>20,21, Term paper due</td>
</tr>
<tr>
<td>Week of Aug. 2</td>
<td>22, 23</td>
</tr>
<tr>
<td>August 10-11</td>
<td>Final Exam</td>
</tr>
</tbody>
</table>
Grading: MSE 540 Test #1 25%

Test #2 25%

Final exam 25%

Homework 10%

Term paper 15%

Course grading.

The grading will follow the guidelines given below.

96 and above  A+
92-95  A
88-91  A-
84-87  B+
80-83  B
76-79  B-
72-75  C+
68-71  C
64-67  C-
60-63  D+
56-59  D
52-55  D-
51 and below  F
ACADEMIC INTEGRITY

As a student enrolled in this class, you are expected to honor the NCSU policies regarding academic integrity. (See Section 8 of the NCSU Code of Student Conduct for more information: http://www.fis.ncsu.edu/ncsulegal/41.03-codeof.htm). The following excerpts are relevant:

Academic Dishonesty: "Academic dishonesty is the giving, taking, or presenting of information or material by a student that unethically or fraudulently aids oneself or another on any work which is to be considered in the determination of a grade or the completion of academic requirements or the enhancement of that student's record or academic career." A more detailed list of the University policies pertaining to academic integrity can be found on the Student Conduct website or in the Code of Student Conduct.

"The act of submitting work for evaluation or to meet a requirement is regarded as assurance that the work is the result of your own thought and study, produced without assistance, and stated in your own words, except as quotation marks, references, or footnotes acknowledging the use of other sources. The submission of work used previously must first be approved by the instructor prior to submission."

If you have questions regarding any matter relating to the standards of academic integrity in this course or on a given assignment, you should talk with the instructor prior to doing any work.

If you are aware of another student in the class violating the academic integrity policies, please notify the instructor immediately. Once a violation has occurred, the case will be pursued through procedures outlined by the University. For more information about the procedures, see the Student Conduct web page:

http://www2.ncsu.edu:8010/student_affairs/osc/