NCSU Department of Materials Science and Engineering

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<th>Section</th>
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<tr>
<td>602</td>
<td>Asheville</td>
<td>T/H 2:20-3:35pm</td>
<td>Distance Education</td>
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<td>App. State</td>
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Instructor: Dr. Cheryl Cass
Contact Information: Email: cheryl_cass@ncsu.edu When contacting via email, please allow a minimum of 24 hours (business days only) for a response.

TAs: Mr. Hayden Fuss, MSE Senior Student; Mr. Wyatt Witzen, MSE Senior Student
Contact Information: Email: (Hayden – whfuss@ncsu.edu); Wyatt – wawitzen@ncsu.edu
Office Hours: Available at https://appear.in/mse-201-fall-2015; Time/Day: TBD

Contact Dr. Cass via email for questions about Moodle, course syllabus, and course materials. Contact TAs via email or during office hours for questions about homework, course concepts, and grading.

REQUIRED TEXTBOOK Materials Science and Engineering: An Introduction, 9th edition by William D. Callister, Jr. Course material will also be posted on Moodle.

COURSE DESCRIPTION
MSE 201 is an introduction to the fundamentals that give rise to the wide spectrum of materials of practical use to engineers. The topics covered in this course are extensive, and many new terms and concepts will be presented. You are expected to learn terminology, be able to present concepts and relationships graphically, and apply your knowledge to solve a variety of numerical problems. Individual lectures will supplement the textbook assignments and will clarify concepts. The tests will cover the assigned sections and homework/example problems in the syllabus below.
Pre-requisites: CH 101 or equivalent; Credit Hours: 3

STUDENT LEARNING OBJECTIVES
Upon completion of this course, students will be able to:
- Explain relationships between atomic bonding and the atomic structure of materials
- Explain relationships between the structure of materials at the atomic and microscopic levels and their mechanical and physical properties
- Select materials for specific applications based on performance criteria and failure modes
- Design methods for processing materials to achieve desired properties

CLASS ATTENDANCE
In accordance with NC State University policy, instructors in 100 and 200-level courses must keep a record of attendance. Attendance and promptness are expected. Note:
- Only two unexcused absences will be permitted without penalty.
- Each additional absence will result in a five percentage point deduction from the final course grade.
- Arriving more than 15 minutes late will result in an unexcused absence.

Please see www.ncsu.edu/provost/academic_policies/index.html for NC State University attendance regulations including a description of excused absences.

GRADING
Homework 25%
Quizzes 10%
3 In-class Exams 45% (15% each)
Final Exam 20%
Total 100%
Instructor reserves the right to make minor syllabus changes that will be announced in class or via http://policies.ncsu.edu/category/campus law and that do not interfere with the University's relationships with outside organizations, including the federal government, the military, ROTC, and private employers. Discrimination based upon race, color, religion, creed, sex, national origin, age, disability, veteran status, or sexual orientation is in violation of federal and state law and North Carolina State University policy, and will not be tolerated. http://policies.ncsu.edu/category/campus-environment/non-discrimination

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