<table>
<thead>
<tr>
<th>WEEK</th>
<th>DATES</th>
<th>READING</th>
<th>TOPICS/CCLASSROOM ACTIVITIES</th>
<th>Events</th>
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<tr>
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<td>9/2-4</td>
<td>Ch. 1,2</td>
<td>Introduction, force vectors</td>
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<td>3</td>
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<td>6</td>
<td>10/6-9</td>
<td>Ch. 6</td>
<td>Trusses&lt;br&gt;Design project teams formed and design project assigned 10/6,7</td>
<td>Quiz 5 on 10/9,11&lt;br&gt;Straw testing begins on 10/8</td>
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<td>7</td>
<td>10/13-16</td>
<td>Ch. 9</td>
<td>Dry friction and exam review&lt;br&gt;Holiday on 10/13 (Columbus Day) but Tuesday (10/14) is a Monday schedule</td>
<td>Quiz 6 on 10/15,16&lt;br&gt;Straw testing ends on 10/16</td>
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<td>8</td>
<td>10/20-23</td>
<td>Ch. 13</td>
<td>Exam 1, particle kinematics&lt;br&gt;Exam 1 covers through trusses.</td>
<td>Exam 1 on 10/20,21</td>
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<td>9</td>
<td>10/27-30</td>
<td>Ch. 13</td>
<td>Particle kinematics</td>
<td>Quiz 7 on 10/27,28&lt;br&gt;Project peer evaluation forms and straw testing report due 10/29,30</td>
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<td>10</td>
<td>11/3-6</td>
<td>Ch. 14</td>
<td>Particle kinetics</td>
<td>Quiz 8 on 11/3,4</td>
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<td>11</td>
<td>11/10-13</td>
<td>Ch. 14,15</td>
<td>Particle kinetics, work and energy&lt;br&gt;Holiday on 11/11 (Veterans Day)</td>
<td>Quiz 9 on 11/10,11&lt;br&gt;Project progress report due 11/12,13</td>
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<td>12</td>
<td>11/17-20</td>
<td>Ch. 15,16</td>
<td>Work and energy, impulse and momentum</td>
<td>Quiz 10 on 11/17,18</td>
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<td>13</td>
<td>11/24-27</td>
<td>Ch. 16</td>
<td>Impulse and momentum&lt;br&gt;Thanksgiving holiday 11/26-28</td>
<td>Quiz 11 on 11/24,23</td>
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<td>14</td>
<td>12/1-4</td>
<td>Exam review and Exam 2&lt;br&gt;Exam 2 covers through work and energy</td>
<td>Exam 2 on 12/2,3&lt;br&gt;Project final report due Friday 12/5&lt;br&gt;Truss testing on Saturday, 12/6</td>
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<td>15</td>
<td>12/8-11</td>
<td>Ch. 16</td>
<td>Angular momentum and review</td>
<td>Quiz 12 on 12/8,9</td>
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Note that not we will not be covering everything in every chapter listed. Details will be given in lecture.
INFORMATION SHEET FOR FALL 2008 - ALL SECTIONS

INSTRUCTORS

Dr. Bidhan Roy                                           Prof. Yanhang (Katherine) Zhang

Section A1: TR 10 am-12 pm, PHO 211  Section A4: MW 12-2, PHO 211
Section A3: MW 6 pm-8 pm, PHO 203  Office: Rm. 219, 110 Cummingston St.
Office: Rm. 612, 44 Cummingston St.  E-mail: yanhang@bu.edu
E-mail: bcroy@bu.edu  Phone: 358-4406
Phone: 358-2833  Office hours: W 3-5
Office hours: TBD

Prof. Yehonathan Hazony                              Prof. Sean Andersson [Course head]

Section A2: TR 12-2, PHO 211  Section A6: MW 12-2, PHO 210
Office: Rm. 133, 15 St. Mary’s St.  Office: Rm. 301, 110 Cummingston St.
E-mail: hazony@bu.edu  E-mail: sanderss@bu.edu
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Office hours: TBD  Office hours: M 9-10 am, F 2-3 pm

TEACHING FELLOWS

Ping Du                                                Morteza Lahijanian

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TEXTBOOK AND REFERENCES


ISBN: 013-241871-1

References:
WEBSITES

The web site for the overall course is on CourseInfo and is labeled ‘EK301 A1-6 Engineering Mechanics’. Material for all students will be posted there. This includes this info sheet, the syllabus, the truss project, and homeworks and solutions. In addition, individual sections will have their own CourseInfo web site at the discretion of the section instructor.

GRADING

Sections will be graded separately to a common course standard. The design project and final exam will be the same for all sections. The two midterm exams will be given during lecture and will therefore be different for each section. The two lowest quiz grade will be dropped.

Your overall grade will be determined according to the weightings below. Nominally, the mean of the overall score in a section will set the dividing line between a C+ and a B-.

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Design project</td>
<td>25%</td>
</tr>
<tr>
<td>Weekly quizzes</td>
<td>25%</td>
</tr>
<tr>
<td>Midterm 1</td>
<td>15%</td>
</tr>
<tr>
<td>Midterm 2</td>
<td>15%</td>
</tr>
<tr>
<td>Final exam</td>
<td>20%</td>
</tr>
</tbody>
</table>

To ensure uniformity between sections, the average performance of each section on the final exam will be compared to the performance of the entire class on the final exam and may be used to adjust the section grading. Sections that perform significantly better/poorer on the final exam may have their final grades raised/lowered compared to what they would have received based purely on the section mean. (That is, the section mean may indicate the dividing line between a B- and a B if the section performs exceptionally well on the final with respect to the other sections.)

Because the project is such an integral part of the course, any student who does not participate in the project will automatically receive an F for the course.

PROBLEM SETS AND QUIZZES

The single most effective technique for learning the concepts and methods of the course is to work out problems involving them. To help you with this, weekly problem sets will be given through the main web site. The problem sets will not be graded and there is nothing to submit. The solutions will be posted at the same time as the problem sets.

In lieu of graded problem sets, there will be weekly quizzes. The first 20 minutes of the first lecture of the week for your section will be a quiz consisting of one problem similar to the previous week’s problem set. Your lowest two quiz scores will be dropped.

Makeup quizzes will not be given without prior arrangement with your instructor. If you miss a quiz, you will simply receive a zero.

PROJECT

Engineers are people who do, not just study. The goal of an engineering education is to develop the ability to apply your course work to recognize, define, and solve real problems in creative but
practical ways. There are many aspects of engineering practice which are as important as writing and solving equations. In this course, we will introduce you to some of these aspects through an exciting design contest.

The contest will involve designing, building, and testing a truss made from soda straws and straight pins. The truss will have to bridge a pre-specified distance and support a minimum load. You will have to determine certain physical properties of the soda straws experimentally and use that information to analyze and optimize your design to carry as much weight as possible. At the end of the project, there will be a contest in each section in which your truss will be loaded until it collapses. Your grade will depend, in part, on how close the results of your failure analysis come to the actual failure results. In addition the team in each section with the highest successfully held load will receive a prize (in the past this has been a $10 gift certificate to the Espresso Royale Cafe for each team member).

Further details will be provided later in the semester.

**EXAMS**

There will be two midterm exams during the semester during lecture. These exams will be made by the individual instructors and will differ from section to section, though the concepts covered will be the same. The first exam will be on October 20/21 and the second on December 2/3. **DO NOT MAKE TRAVEL PLANS FOR THE TEST DATES.**

The final exam will be the same for all sections and will be given during the final exam period. The date will be set by the registrar. **DO NOT MAKE TRAVEL PLANS FOR BEFORE THE END OF THE EXAM PERIOD UNTIL THE DATE OF THE FINAL EXAM IS KNOWN.**

Make-up exams will be given only in extreme circumstances and should be arranged for well in advance of the schedule exams.

**GTF TUTORING CENTER**

Discussion sections for EK 301 have been replaced by an open GTF Tutoring center in ENG202. The center will begin operating on Monday, September 8. The hours of operation are:

- Monday 6-10 pm
- Tuesday 4-10 pm
- Wednesday 4-10 pm

There will always be at least one teaching fellow in the tutoring center during these times. You may go to the tutoring center at any time during the above hours.

**ADDITIONAL HELP**

If you have questions or need additional help, please see the GTFs and/or the instructors as soon as possible. Do not wait until the day before a test to “figure it all out.” GTFs are available at the Tutoring Center and the instructors are available during their office hours or by appointment.

**ETHICAL RESPONSIBILITIES**
Cheating on quizzes, exams, and the project is a form of plagiarism and is an infringement of every code of engineering ethics. Understanding your ethical responsibilities is an integral part of becoming a professional. A copy of the Code of Ethics of engineers, promulgated by the Accreditation Board for Engineering and Technology (ABET) can be found on the main course web site.

Please recall that when you enrolled at Boston University, you agreed to an Academic Honesty Pledge. A copy of this pledge can be found on the main course web site. It details your responsibilities as well as the results of code violations.

**DROP AND WITHDRAWAL DATES**

Last day to DROP (with no “W” on your record): 10/6/2007
Last day to WITHDRAW (with a “W” on your record): 11/10/2007

**INCOMPLETES**

Incompletes will be permitted only for extenuating circumstances. They must be arranged for with your instructor prior to the final exam.

**COURSE EVALUATIONS**

Your feedback is important to us. There will be a standard course evaluation near the end of the semester, including a written evaluation on how well you believe the course accomplished its stated learning outcomes. These outcomes are described on the ABET course syllabus. This syllabus can be found on the main web site.

The faculty will also be happy to discuss your comments and concerns throughout the semester during our office hours.